MiTek

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

RE: 4947833 - OFFICE

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

Site Information:

Customer Info: WADE WILLIS CONST. Project Name: Office Bldg. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Lake City, State: FL

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

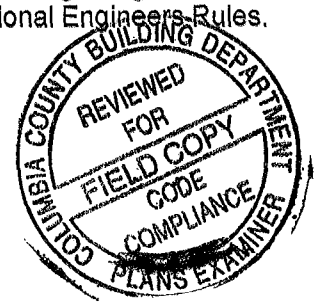
Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 9 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
1	T40000953	T01	2/2/26
2	T40000954	T01G	2/2/26
3	T40000955	T02	2/2/26
4	T40000956	T03	2/2/26
5	T40000957	T03G	2/2/26
6	T40000958	T04	2/2/26
7	T40000959	T05	2/2/26
8	T40000960	T06	2/2/26
9	T40000961	T06G	2/2/26

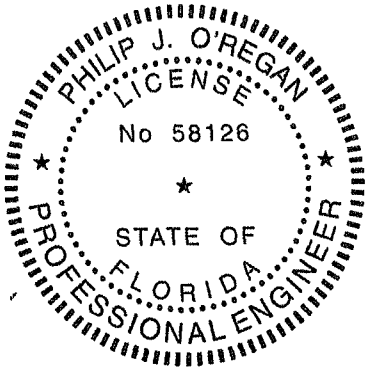


This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2027.

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



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

February 2,2026

ORegan, Philip

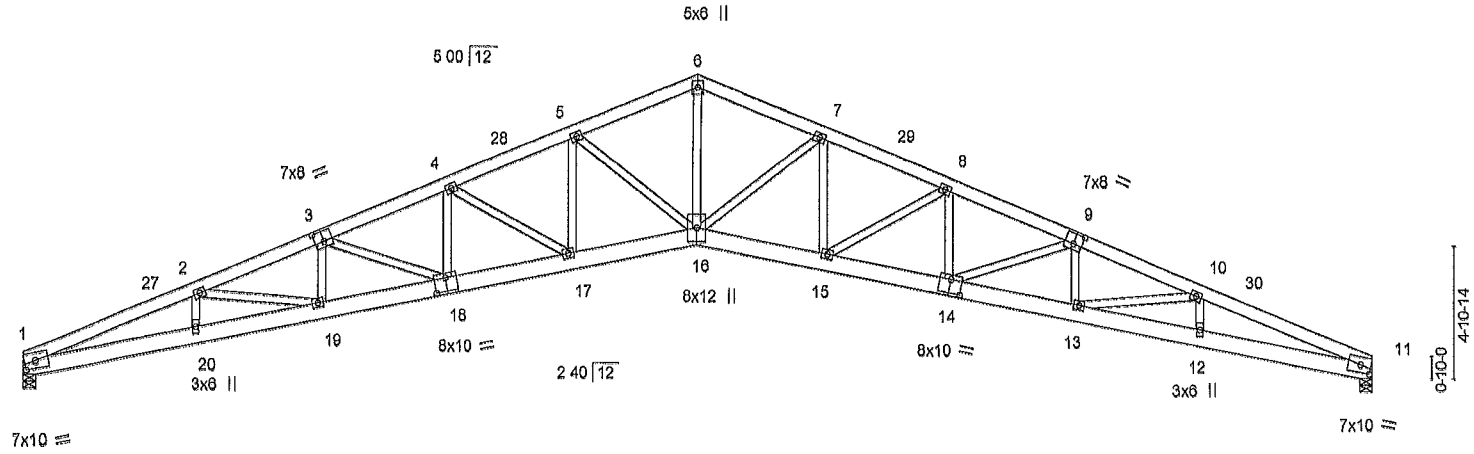
Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T01	SCISSORS	34	1	T40000953

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8 830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 06.25 57 2026 Page 1
ID NcEUs5NxkwwNoh9?1HTyWxya1Nl-II?lunRfxZxq3fI2Gp0rOd9SXBQEIXFpL870jIzpG2e

6-4-0	11-0-0	15-8-0	20-4-0	25-0-0	29-8-0	34-4-0	39-0-0	43-8-0	50-0-0
6-4-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	6-4-0

Scale = 1 85 1



6-4-0	11-0-0	15-8-0	20-4-0	25-0-0	29-8-0	34-4-0	39-0-0	43-8-0	50-0-0
6-4-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	6-4-0

Plate Offsets (X,Y)-- [1 0-4-10,0-3-8], [3 0-4-0,0-4-8], [9 0-4-0,0-4-8], [11 0-4-10,0-3-8], [14 0-5-0,0-6-0], [18 0-5-0,0-6-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1 25	TC	0 54	Vert(LL)	-0 55	16	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 44	Vert(CT)	-1 11	16	>541	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 75	Horz(CT)	0 58	11	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 384 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2 0E
WEBS 2x4 SP No 3 *Except*
6-16 2x4 SP No 2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-9 oc purlins
BOT CHORD Rigid ceiling directly applied or 9-4-1 oc bracing

REACTIONS. (size) 1=0-5-8, 11=0-5-8
Max Horz 1=-174(LC 13)
Max Uplift 1=-482(LC 12), 11=-482(LC 13)
Max Grav 1=2000(LC 1), 11=2000(LC 1)

FORCES. (lb) - Max Comp /Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-6278/1571, 2-3=-6775/1660, 3-4=-6222/1476, 4-5=-5519/1257, 5-6=-4745/1018, 6-7=-4746/1031, 7-8=-5519/1098, 8-9=-6222/1322, 9-10=-6775/1512, 10-11=-6278/1455
BOT CHORD 1-20=-1568/5748, 19-20=-1593/5854, 18-19=-1597/6360, 17-18=-1344/5814, 16-17=-1062/5154, 15-16=-854/5154, 14-15=-1021/5814, 13-14=-1280/6360, 12-13=-1307/5864, 11-12=-1285/5748
WEBS 6-16=-681/3306, 7-16=-955/390, 7-15=-193/635, 8-15=-785/328, 8-14=-117/410, 9-14=-623/273, 10-13=-99/544, 10-12=-454/144, 5-16=-955/386, 5-17=-191/636, 4-17=-785/324, 4-18=-113/410, 3-18=-623/267, 2-19=-67/544, 2-20=-454/159

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 5-0-0, Zone1 5-0-0 to 25-0-0, Zone2 25-0-0 to 32-0-14, Zone1 32-0-14 to 50-0-0 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 4x6 MT20 unless otherwise indicated
5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
7) Bearing at joint(s) 1, 11 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 482 lb uplift at joint 1 and 482 lb uplift at joint 11.

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

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

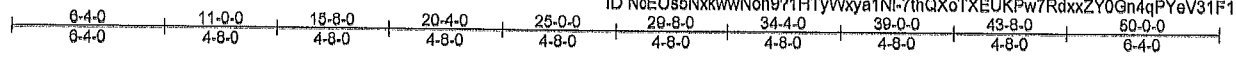
February 2,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T01G	GABLE	2	2	T40000954

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055 — 8 830 s Jan 22 2026 MiTek Industries, Inc Mon Feb 2 08 26 00 2026 Page 1
ID NoEUs6NxkwwNoh9?1HTyWxya1NI-7thQXoTXEUKPw7RdxxZY0Gn4qPYeV31F16LgK4zpG2b



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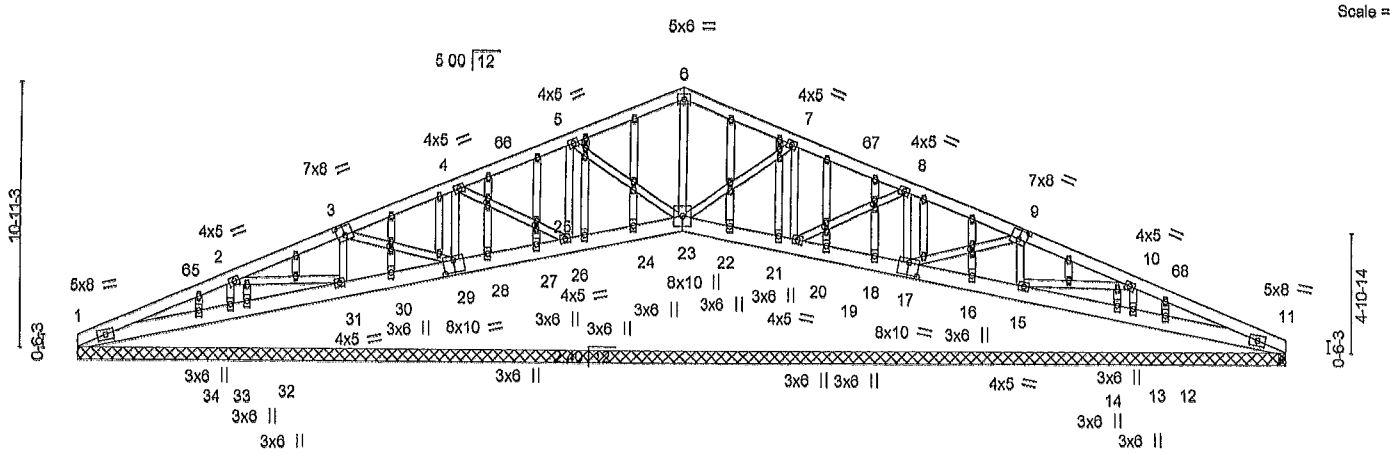

Plate Offsets (X,Y)-- [3 0-4-0,0-4-8], [9 0-4-0,0-4-8], [17 0-5-0,0-6-0], [29 0-5-0,0-6-0], [39 0-1-14,0-1-0], [41 0-1-14,0-1-0], [45 0-1-10,0-1-0], [55 0-1-14,0-1-0], [57 0-1-14,0-1-0], [61 0-1-10,0-1-0]

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 09	Vert(LL)	-0 00	1	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 01	Vert(CT)	-0 00	1-34	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 04	Horz(CT)	0 00	11	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-S							Weight 822 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No 2
BOT CHORD	2x8 SP 2400F 2 0E
WEBS	2x4 SP No 3
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 6-0-0 oc bracing

REACTIONS. All bearings 50-0-0
(lb) - Max Horz 1=175(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 23, 34, 12, 1, 11 except 20=-141(LC 13), 17=-123(LC 13), 15=-112(LC 13), 13=-186(LC 13), 26=-147(LC 12), 29=-127(LC 12), 31=-113(LC 12), 33=-196(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 13, 33, 24, 25, 27, 28, 30, 32, 22, 21, 19, 18, 16, 14, 1, 11, 11 except 23=401(LC 1), 20=269(LC 26), 17=303(LC 26), 15=322(LC 26), 26=269(LC 25), 29=303(LC 25), 31=320(LC 25), 34=278(LC 3), 12=267(LC 3)

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

BOT CHORD	26-26=-89/258, 24-25=-90/259, 23-24=-91/258
WEBS	6-23=-283/50, 8-17=-262/109, 9-15=-258/115, 10-13=-364/195, 4-29=-262/117, 3-31=-256/120, 2-33=-370/205

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 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft, Cat II, Exp B, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 5-0-0, Zone1 5-0-0 to 25-0-0, Zone2 25-0-0 to 32-0-14, Zone1 32-0-14 to 49-10-4 zone;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1.60
5) 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
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 MT20 unless otherwise indicated
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.

Continued on page 2

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

February 2,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US com

Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T01G	GABLE	2	2	T40000954

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Job Reference (optional)

8 830 s Jan 22 2026 MiTek Industries, Inc Mon Feb 2 06 26 00 2026 Page 2
ID NcEUs5NxkwwNqh9?1HTyWxya1Nl-7thQXoTXEUKPw7RdxxZY0Gn4qPYeV31F16LgK4zpG2b

NOTES-

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) 23, 34, 12, 1, 11 except (jt=lb) 20=141, 17=123, 16=112 , 13=186, 26=147, 29=127, 31=113, 33=196.
12) Studding applied to ply: 1(Front)

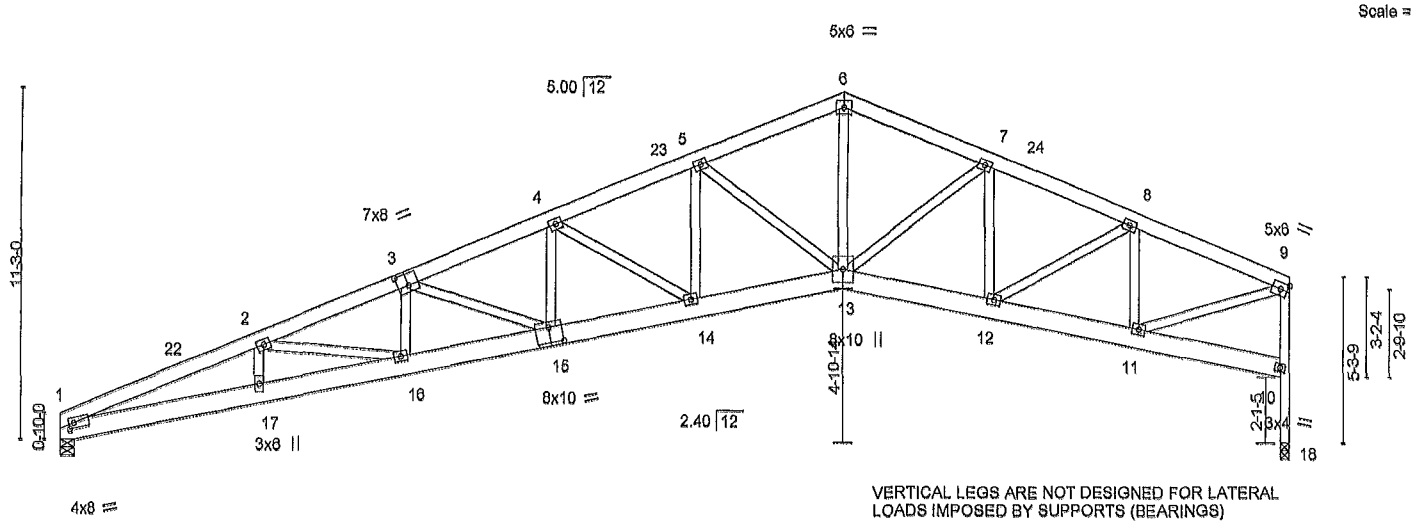
Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T02	ROOF SPECIAL	15	1	T40000955

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8 830 s Jan 22 2026 MiTek Industries Inc. Mon Feb 2 06 26 01 2026 Page 1
ID NoEUs6NxkwwNoh9?1HTyWxya1Ni-b3Fpk8UA_oSGYH0pVf4nZTK3Tpp2EMxPGm6DsXzpG2a

6-4-0	11-0-0	15-8-0	20-4-0	25-0-0	29-8-0	34-4-0	39-3-8
6-4-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	4-11-8

Scale = 1 73 4



VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS)

6-4-0	11-0-0	15-8-0	20-4-0	25-0-0	29-8-0	34-4-0	39-3-8
6-4-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	4-8-0	4-11-8

Plate Offsets (X,Y)-- [1,0-1-14,0-2-0], [3 0-4-0,0-4-8], [15,0-5-0,0-6-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1 25	TC	0 80	Vert(LL)	-0 24	15	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 32	Vert(CT)	-0 48	15	>976	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 70	Horz(CT)	0 30	18	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight. 318 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No 2
BOT CHORD	2x8 SP 2400F 2 0E
WEBS	2x4 SP No 3 *Except* 9-18 2x4 SP No 2

BRACING-

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

REACTIONS. (size) 1=0-5-8, 18=0-3-8
Max Horz 1=273(LC 12)
Max Uplift 1=-400(LC 12), 18=-328(LC 13)
Max Grav 1=1566(LC 1), 18=1566(LC 1)

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

TOP CHORD	1-2=-4764/1352, 2-3=-4916/1395, 3-4=-4283/1199, 4-5=-3531/973, 5-6=-2715/727, 6-7=-2714/741, 7-8=-2617/633, 8-9=-1966/424, 10-18=-1566/328, 9-10=-1501/334
BOT CHORD	1-17=-1468/4355, 16-17=-1488/4431, 15-16=-1447/4607, 14-15=-1184/3988, 13-14=-896/3283, 12-13=-524/2418, 11-12=-375/1812
WEBS	2-17=-302/138, 3-15=-672/278, 4-15=-119/442, 4-14=-819/331, 5-14=-197/661, 5-13=-993/395, 6-13=-459/1762, 7-13=-81/264, 7-12=-384/147, 8-12=-172/696, 8-11=-914/241, 9-11=-380/1842

NOTES-

1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft, Cat. II, Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-11-2, Zone1 3-11-2 to 25-0-0, Zone2 25-0-0 to 30-6-11, Zone1 30-6-11 to 39-1-12 zone C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
4) All plates are 4x6 MT20 unless otherwise indicated
5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
7) Bearing at joint(s) 1, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=400, 18=328

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Date:

February 2,2026

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16023 Swingley Ridge Rd.
Chesterfield MO 63017
314.434 1200 / MiTek-US com

Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T03	ROOF SPECIAL	3	1	T40000956

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8 830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 06:26:01 2026 Page 1
ID:NoEUs6NxkwwNoh971HTyWxya1NI-b3Fpk8UA_oSGYH0pVf4nZTKAopI2EJYPGm5DsXzpG2a

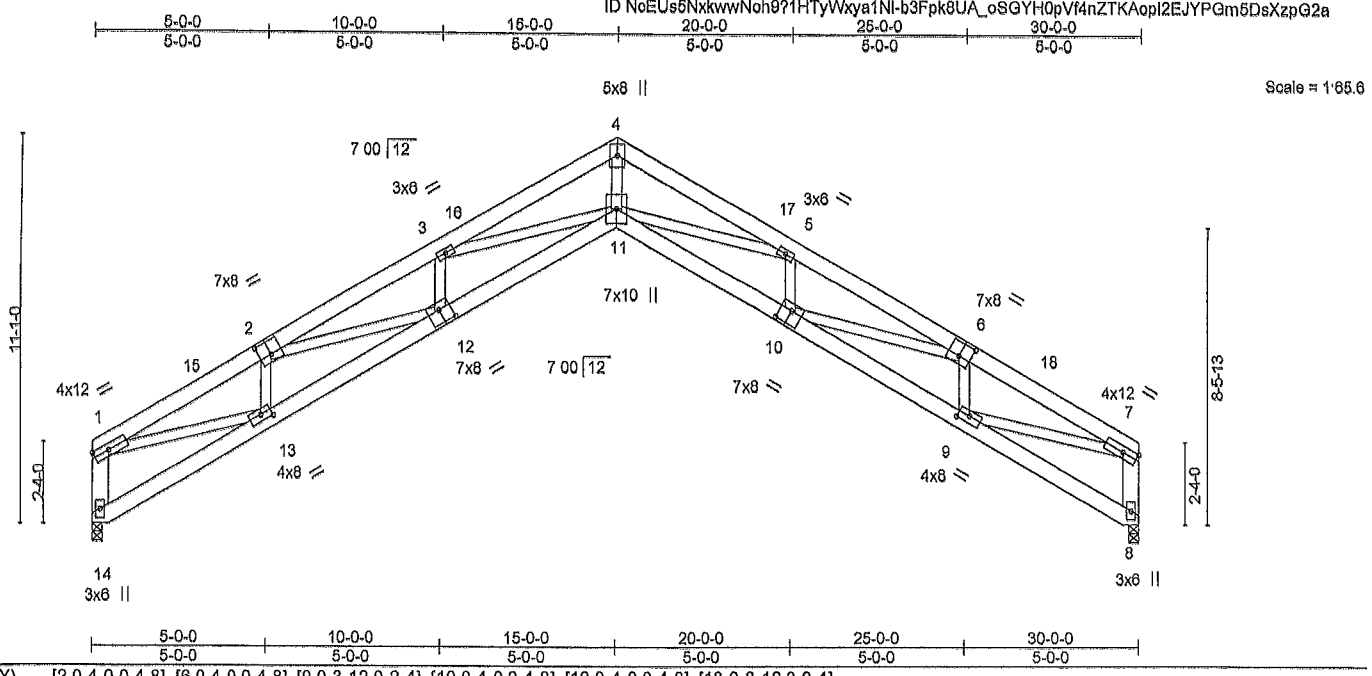

Plate Offsets (X,Y)-- [2,0-4-0,0-4-8], [6 0-4-0,0-4-8], [9 0-3-12,0-2-4], [10 0-4-0,0-4-8], [12 0-4-0,0-4-8], [13 0-3-12,0-2-4]

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 33	Vert(LL)	-0 38	11	>936	240	MT20	244/190
TCDL 10.0	Lumber DOL 1 25	BC 0.77	Vert(CT)	-0 76	11	>468	180		
BCLL 0 0 *	Rep Stress Incr YES	WB 0 85	Horz(CT)	0 98	8	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS						Weight: 228 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No 2
BOT CHORD 2x6 SP No 2
WEBS 2x4 SP No 3 *Except*
1-14,7-8 2x6 SP No 2, 4-11 2x4 SP No 1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 6-0-10 oc bracing

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=-288(LC 8)
Max Uplift 14=-267(LC 12), 8=-267(LC 13)
Max Grav 14=1182(LC 1), 8=1182(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 1-14=-1160/506, 1-2=-2736/1188, 2-3=-4399/1732, 3-4=-4909/1572, 4-5=-4909/1579, 5-6=-4399/1699, 6-7=-2736/1155, 7-8=-1160/496
BOT CHORD 13-14=-317/385, 12-13=-1103/2695, 11-12=-1483/4315, 10-11=-1435/4315, 9-10=-1059/2695
WEBS 4-11=-1467/4581, 5-11=-248/799, 5-10=-494/98, 6-10=-392/1438, 6-9=-888/305, 7-9=-935/2242, 3-11=0/617, 3-12=-476/90, 2-12=-395/1438, 2-13=-888/293, 1-13=-913/2242

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4 2psf, BCDL=3 0psf; h=20ft, Cat. II, Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-9-4 zone, end vertical left and right exposed, porch left and right exposed,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
6) Bearing at joint(s) 14, 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) 14=267, 8=267.

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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:

February 2,2026

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T03G	GABLE	1	2	T40000957

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8 830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 06 26 02 2026 Page 1

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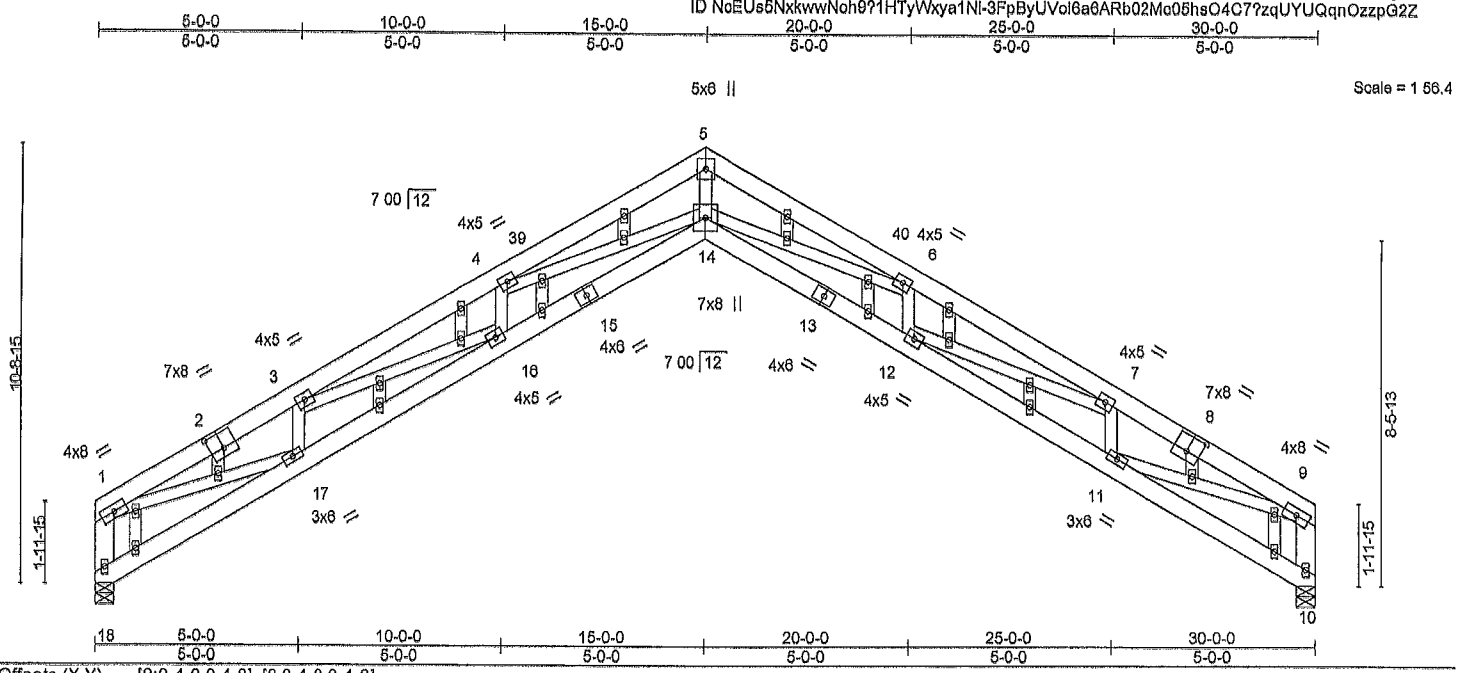

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [8:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1 25	TC	0 17	Vert(LL)	-0 27	14	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 47	Vert(CT)	-0 54	14	>655	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 62	Horz(CT)	0 69	10	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight. 466 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No 3 *Except* 1-18,9-10 2x6 SP No 2, 5-14 2x4 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
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 18=0-5-8, 10=0-5-8
Max Horz 18=-276(LC 8)
Max Uplift 18=-268(LC 12), 10=-268(LC 13)
Max Grav 18=1182(LC 1), 10=1182(LC 1)

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

TOP CHORD	1-18=-1175/506, 1-3=-3240/1374, 3-4=-5204/1989, 4-5=-5815/1782, 5-6=-5815/1791, 6-7=-5204/1957, 7-9=-3240/1350, 9-10=-1175/499
BOT CHORD	17-18=-321/394, 16-17=-1246/3091, 14-16=-1728/5059, 12-14=-1679/5059, 11-12=-1207/3091
WEBS	5-14=-1671/5477, 6-14=-289/1001, 6-12=-461/99, 7-12=-489/1838, 7-11=-827/276, 9-11=-1094/2671, 4-14=0/782, 4-16=-456/99, 3-16=-498/1838, 3-17=-827/269, 1-17=-1077/2671

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.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated
3) Unbalanced roof live loads have been considered for this design
4) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft, Cat. II, Exp B, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-9-4 zone; end vertical left and right exposed, porch left and right exposed,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1 60
5) 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
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 MT20 unless otherwise indicated
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.

Continued on page 2

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February 2,2026

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Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T03G	GABLE	1	2	T40000957

Job Reference (optional)

NOTES-

11) Bearing at joint(s) 18, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=268, 10=268
13) Studding applied to ply: 1(Front)

Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T04	ROOF SPECIAL	3	1	T40000958

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 06 26 03 2026 Page 1
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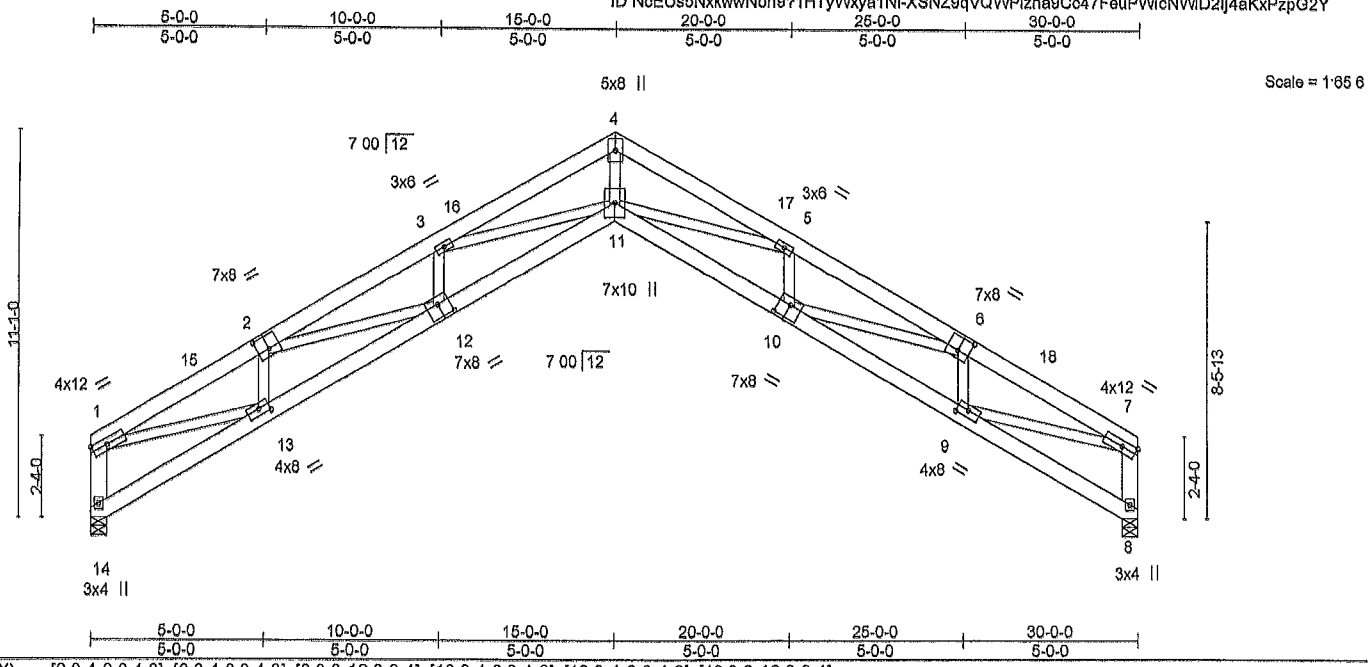

Plate Offsets (X,Y)-- [2,0-4-0,0-4-8], [6,0-4-0,0-4-8], [9,0-3-12,0-2-4], [10 0-4-0,0-4-8], [12 0-4-0,0-4-8], [13 0-3-12,0-2-4]

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 33	Vert(LL)	-0 38	11	>936	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 77	Vert(CT)	-0 76	11	>468	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 85	Horz(CT)	0 98	8	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight 228 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No 2
BOT CHORD 2x6 SP No 2
WEBS 2x4 SP No 3 *Except*
1-14,7-8 2x6 SP No 2, 4-11 2x4 SP No 1

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

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=-288(LC 8)
Max Uplift 14=-267(LC 12), 8=-267(LC 13)
Max Grav 14=1182(LC 1), 8=1182(LC 1)

FORCES. (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-14=-1175/340, 1-2=-2747/709, 2-3=-4399/1000, 3-4=-4909/764, 4-5=-4909/788, 5-6=-4399/783, 6-7=-2735/592, 7-8=-1160/295
BOT CHORD 13-14=-322/374, 12-13=-773/2904, 11-12=-927/4456, 10-11=-687/4315, 9-10=-567/2695
WEBS 4-11=-666/4581, 5-11=-325/742, 5-10=-472/98, 6-10=-163/1438, 6-9=-888/232, 7-9=-446/2242, 3-11=0/617, 3-12=-472/95, 2-12=-152/1438, 2-13=-888/276, 1-13=-546/2242

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind: ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp B, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-9-4 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) Bearing at joint(s) 14, 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) 14=267, 8=267

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Date:

February 2,2026

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Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T05	ROOF SPECIAL	5	1	T40000959

Job Reference (optional)

Builders FirstSource (Lake City,FL) Lake City, FL - 32055, 8 830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 08 26 04 2026 Page 1
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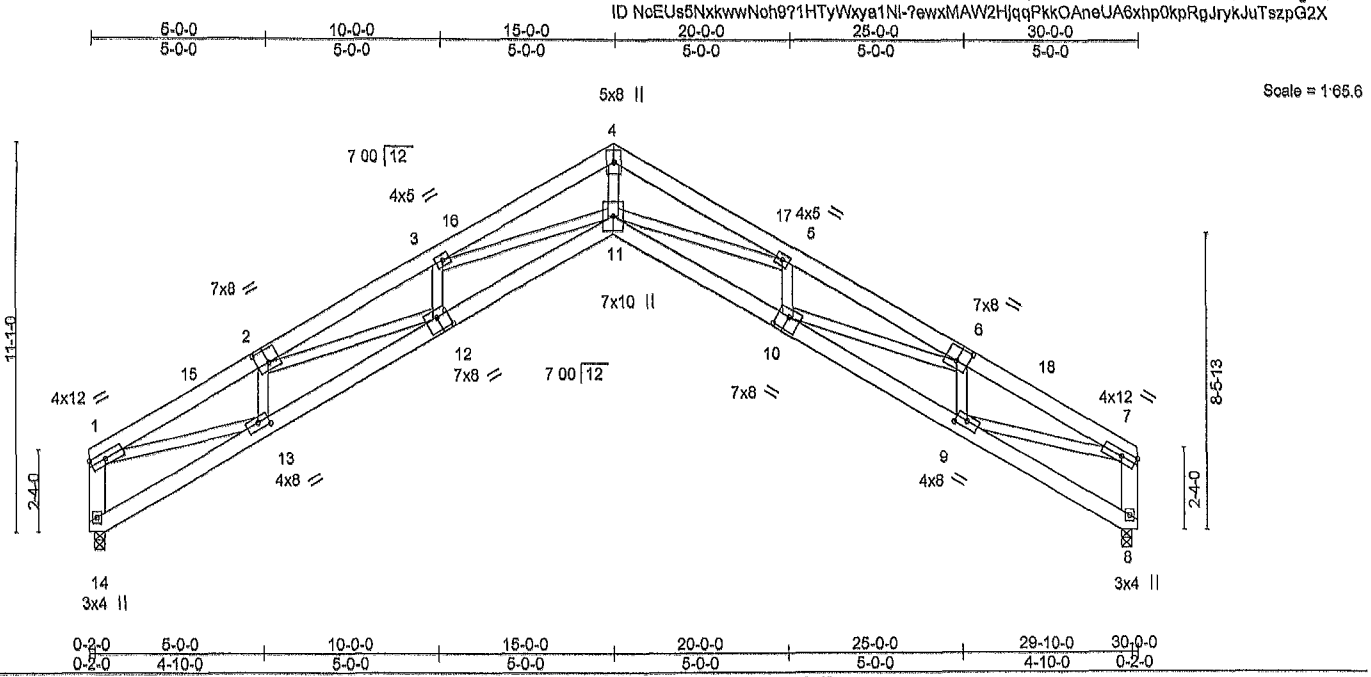

Plate Offsets (X,Y)-- [2,0-4-0,0-4-8], [6 0-4-0,0-4-8], [9,0-3-12,0-2-4], [10,0-4-0,0-4-8], [12 0-4-0,0-4-8], [13 0-3-12,0-2-4]

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 35	Vert(LL)	-0 38	11	>934	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 77	Vert(CT)	-0 76	11	>467	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 85	Horz(CT)	0 98	8	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight 229 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No 2
BOT CHORD 2x6 SP No 2
WEBS 2x4 SP No 3 *Except*
1-14,7-8 2x6 SP No.2, 4-11 2x4 SP No 1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-15 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 7-1-1 oc bracing

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=-213(LC 8)
Max Uplift 14=-265(LC 12), 8=-265(LC 13)
Max Grav 14=1182(LC 1), 8=1182(LC 1)

FORCES. (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-14=-1160/369, 1-2=-2733/777, 2-3=-4409/1132, 3-4=-4912/944, 4-5=-4912/969, 5-6=-4409/834, 6-7=-2733/559, 7-8=-1160/265
BOT CHORD 13-14=-259/320, 12-13=-885/2844, 11-12=-1095/4357, 10-11=-708/4287, 9-10=-500/2693
WEBS 4-11=-842/4573, 5-11=-278/745, 5-10=-460/119, 6-10=-228/1452, 6-9=-887/212, 7-9=-402/2239, 3-11=0/639, 3-12=-460/109, 2-12=-194/1452, 2-13=-887/294, 1-13=-589/2239

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft, Cat II, Exp B, Encl , GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-9-4 zone;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
4) 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) 14, 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) 14=265, 8=265

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February 2,2026

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Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T06	MONO TRUSS	3	1	T40000960

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8 830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 06 26 05 2026 Page 1

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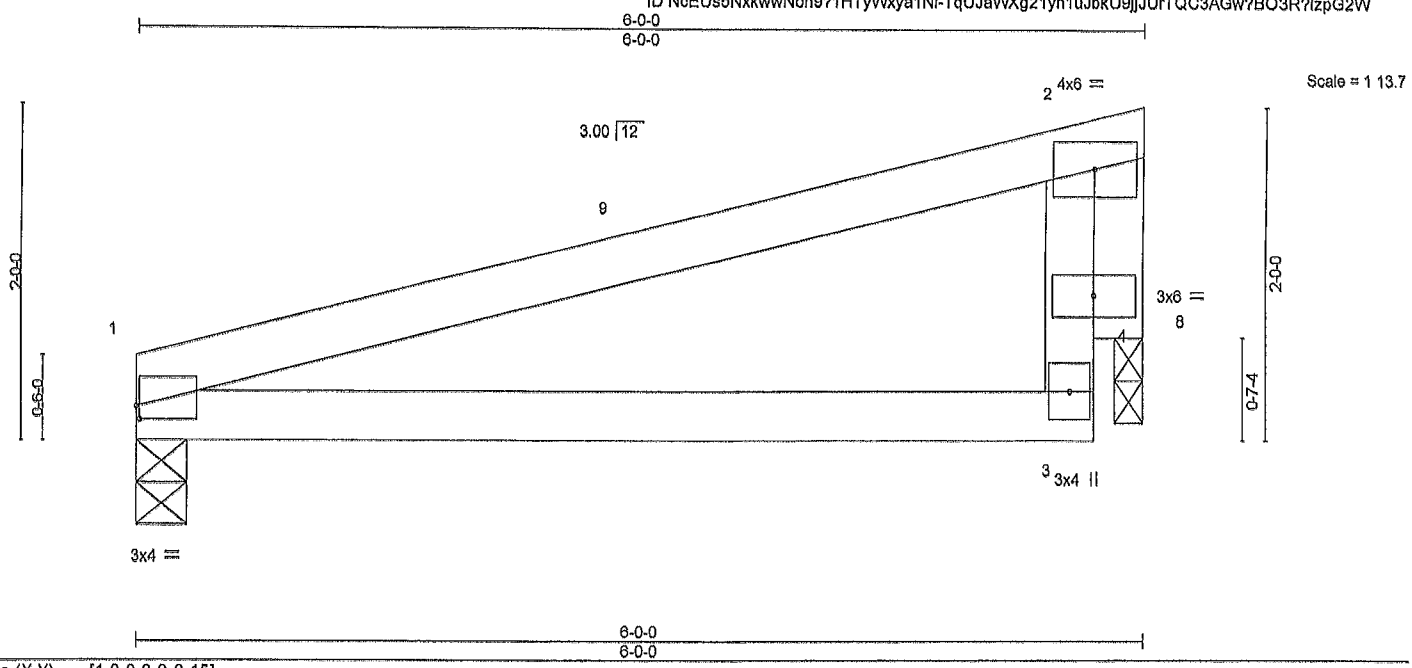

Plate Offsets (X,Y)-- [1 0-0-3,0-0-15]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. In (loc) l/defl L/d	PLATES GRIP
TCLL 20 0	Plate Grip DOL 1 25	TC 0 42	Vert(LL) 0 04 3-7 >999 240	MT20 244/190
TCDL 10 0	Lumber DOL 1 25	BC 0 25	Vert(CT) -0 04 3-7 >999 180	
BCLL 0 0 *	Rep Stress Incr YES	WB 0 32	Horz(CT) -0 01 1 n/a n/a	
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MR		Weight: 21 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 1=0-3-8, 8=0-2-0
Max Horz 1=54(LC 8)
Max Uplift 1=-117(LC 8), 8=-120(LC 8)
Max Grav 1=236(LC 1), 8=209(LC 1)

FORCES. (lb) - Max Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-253/222
BOT CHORD 1-3=-262/215

NOTES-

1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp B, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0 Zone1 3-0-0 to 5-6-12 zone, porch left and right exposed;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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 at joint(s) 8
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=117, 8=120.

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Date:

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Job	Truss	Truss Type	Qty	Ply	OFFICE
4947833	T06G	MONOPITCH SUPPORTED	2	1	T40000961
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8 830 s Jan 22 2026 MiTek Industries, Inc Mon Feb 2 06 26 05 2026 Page 1
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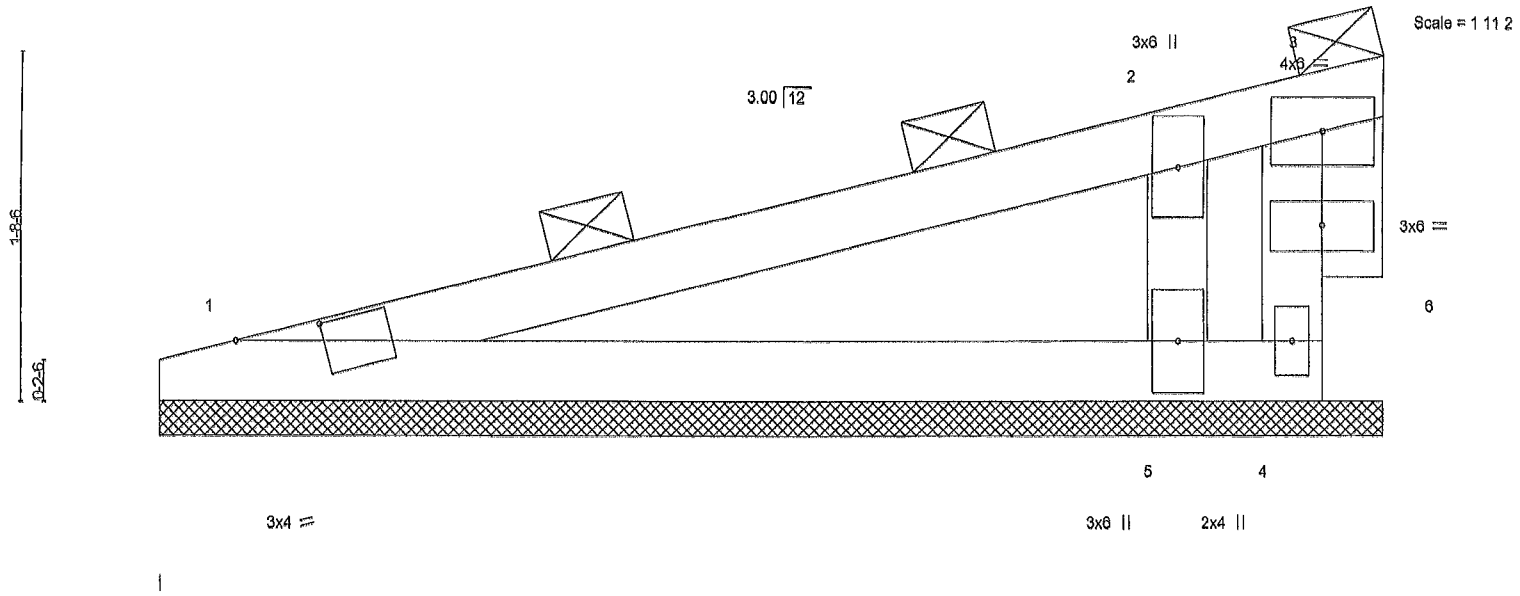

Plate Offsets (X,Y)-- [1,0-6-0,0-0-4]

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 35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 19	Vert(CT)	n/a	-	n/a	999		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 18	Horz(CT)	-0 00	4	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-P							Weight: 21 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, except end verticals
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 1=6-0-0, 4=6-0-0, 5=6-0-0
Max Horz 1=51(LC 8)
Max Uplift 1=-38(LC 8), 4=-252(LC 1), 5=-162(LC 8)
Max Grav 1=150(LC 1), 4=71(LC 8), 5=524(LC 1)

FORCES. (lb) - Max. Comp /Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 3-4=-282/174
WEBS 2-5=-378/612

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22 Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp B, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 zone, porch left and right exposed,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
8) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=252, 5=162.
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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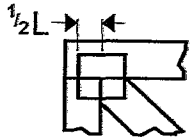
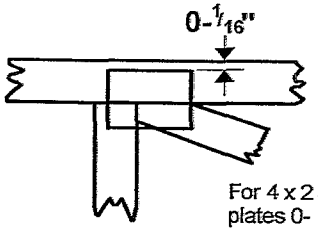
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

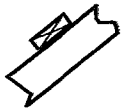
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

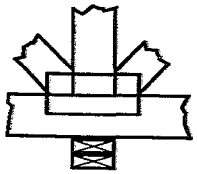
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

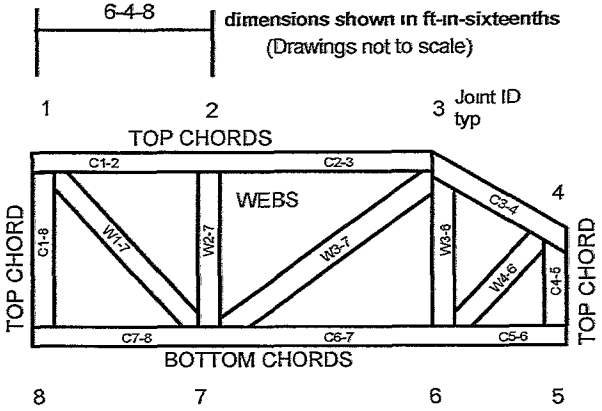


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

MiTek®

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

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.