

BEARING HEIGHT SCHEDULE

10' 1-1/8"

21. ALL TISSUES, INCLUDING TISSUES FROM THE BROW, EYELIDS, EYEBALLS, EARS, NOSE, THROAT, LARYNX, TRACHEA, BRONCHI, LUNGS, AND DIAPHRAGM, REMOVED.
22. ALL TISSUES, INCLUDING TISSUES FROM THE VALLEY, TRACHEA, LARYNX, BRONCHI, LUNGS, AND DIAPHRAGM, REMOVED TO BE PLACED IN A PLASTIC BAG FOR ANATOMY SCHOOL ESTABLISHMENT.
23. ALL VALVE TISSUES TO BE ANATOMICALLY REMOVED BY NURSE.
24. ALL TISSUES ARE REMOVED FOR 2.5% URINARY SPECIMEN, INCLUDING OTHER TISSUES.
25. ALL TISSUES, INCLUDING TISSUES FROM THE EYEBALL, EYELIDS, EYEBROW, EARS, NOSE, THROAT, LARYNX, TRACHEA, BRONCHI, LUNGS, AND DIAPHRAGM, REMOVED TO BE PLACED IN A PLASTIC BAG FOR ANATOMY SCHOOL ESTABLISHMENT.
26. ALL TISSUES, INCLUDING TISSUES FROM THE EYEBALL, EYELIDS, EYEBROW, EARS, NOSE, THROAT, LARYNX, TRACHEA, BRONCHI, LUNGS, AND DIAPHRAGM, REMOVED TO BE PLACED IN A PLASTIC BAG FOR ANATOMY SCHOOL ESTABLISHMENT.



Jacksonville
PHONE: 904-772-6100 FAX: 904-772-8773

Tampa
PHONE: 813-621-0031 FAX: 813-622-0726

Lake City
PHONE: 386-755-6014 FAX: 386-755-7073

Lake City
PHONE: 306-755-6044 FAX: 306-755-7973

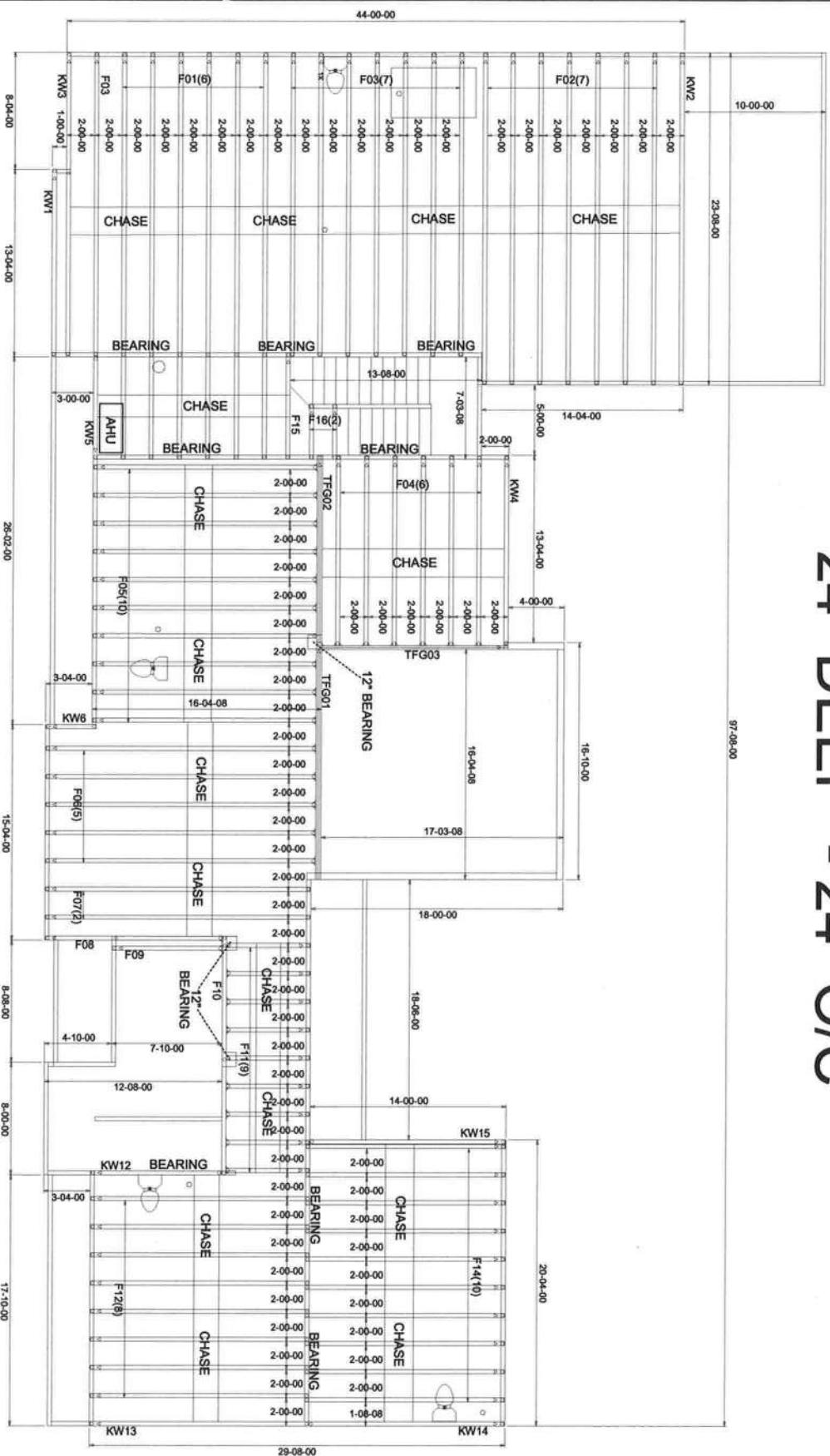
EVANSTON CONT.

AREA 36

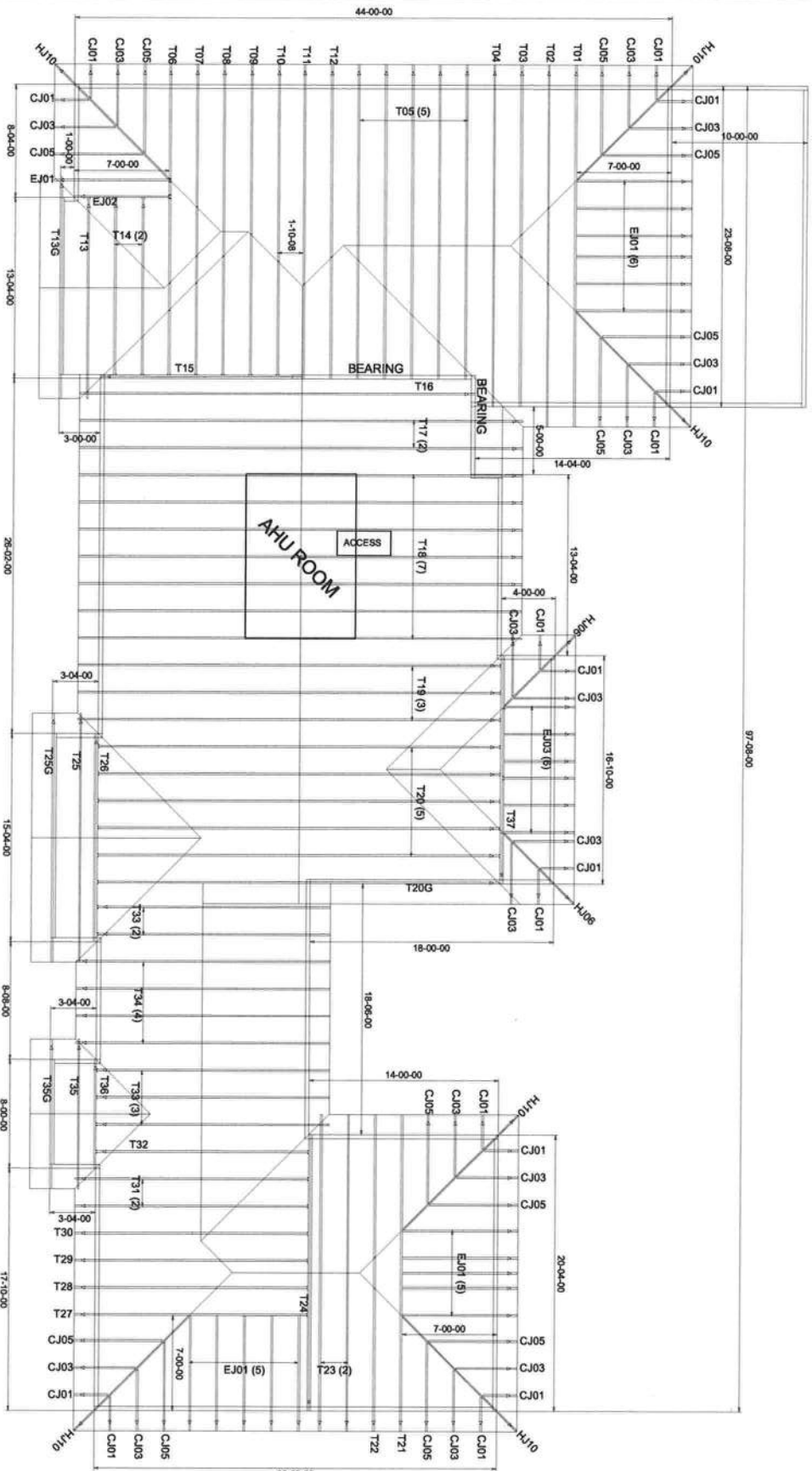
1-17-21	KLH	2564966
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FL Approval Codes - Mitek Plates #'s 2197.2 - 2197.4, Versa-Lam #1644-R4 & BCI Joists #1392-R4

NOTE BEARING ADDED



5/12 PITCH - 18" O/H



BEARING HEIGHT SCHEDULE

9' 1-1/8"

NOTES:

- 1) TO BE USED TO DETERMINE THE BEARING HEIGHT OF THE ROOF SYSTEM. REFER TO INSTALLATION AND ERECTION MANUAL FOR DIMENSIONS AND TOLERANCES.
- 2) ALL TRUSSES, INCLUDING JOISTS, RAFTERS, AND BRACES, SHALL BE DESIGNED TO BE USED IN ACCORDANCE WITH THE 2000 INTERNATIONAL BUILDING REGULATIONS.
- 3) ALL WALLS ARE TO BE CONSTRUCTIONALLY FRAMED BY BRIDGE.
- 4) ALL TRUSSES ARE DESIGNED FOR 2 PSF UNIFORM LOADS, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS ARE TO BE CONSTRUCTIONALLY FRAMED BY BRIDGE.
- 6) ALL TRUSSES ARE TO BE CONSTRUCTIONALLY FRAMED BY BRIDGE.
- 7) BEARING HEIGHTS ARE TO BE DETERMINED BY THE FOLLOWING:



Jack's onville
Tampa
PHONE: 813-441-0831 FAX: 813-441-0836
PHONE: 813-755-4884 FAX: 813-755-4887

EVANSTON CONT.
AREA 36

FL Approval Codes - Mitek Plates #'s 2197.2 - 2197.4, Versa-Lam #1644-R4 & BCI Joists #1392-R4

DATE: 1-17-21
BY: KLH
2564966



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

RE: 2564966 - EVANSTON CONT - AREA 36

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Evanston Cont/ Project Name: Area 36 Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: 65.0 psf

This package includes 77 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	T22511149	CJ01	1/19/21	23	T22511171	HJ10	1/19/21
2	T22511150	CJ03	1/19/21	24	T22511172	KW1	1/19/21
3	T22511151	CJ05	1/19/21	25	T22511173	KW2	1/19/21
4	T22511152	EJ01	1/19/21	26	T22511174	KW3	1/19/21
5	T22511153	EJ02	1/19/21	27	T22511175	KW4	1/19/21
6	T22511154	EJ03	1/19/21	28	T22511176	KW5	1/19/21
7	T22511155	F01	1/19/21	29	T22511177	KW6	1/19/21
8	T22511156	F02	1/19/21	30	T22511178	KW12	1/19/21
9	T22511157	F03	1/19/21	31	T22511179	KW13	1/19/21
10	T22511158	F04	1/19/21	32	T22511180	KW14	1/19/21
11	T22511159	F05	1/19/21	33	T22511181	KW15	1/19/21
12	T22511160	F06	1/19/21	34	T22511182	T01	1/19/21
13	T22511161	F07	1/19/21	35	T22511183	T02	1/19/21
14	T22511162	F08	1/19/21	36	T22511184	T03	1/19/21
15	T22511163	F09	1/19/21	37	T22511185	T04	1/19/21
16	T22511164	F10	1/19/21	38	T22511186	T05	1/19/21
17	T22511165	F11	1/19/21	39	T22511187	T06	1/19/21
18	T22511166	F12	1/19/21	40	T22511188	T07	1/19/21
19	T22511167	F14	1/19/21	41	T22511189	T08	1/19/21
20	T22511168	F15	1/19/21	42	T22511190	T09	1/19/21
21	T22511169	F16	1/19/21	43	T22511191	T10	1/19/21
22	T22511170	HJ06	1/19/21	44	T22511192	T11	1/19/21

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-Jacksonville.

Truss Design Engineer's Name: Finn, Walter

My license renewal date for the state of Florida is February 28, 2021.

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.



Walter P. Finn PE No. 22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 19, 2021



RE: 2564966 - EVANSTON CONT - AREA 36

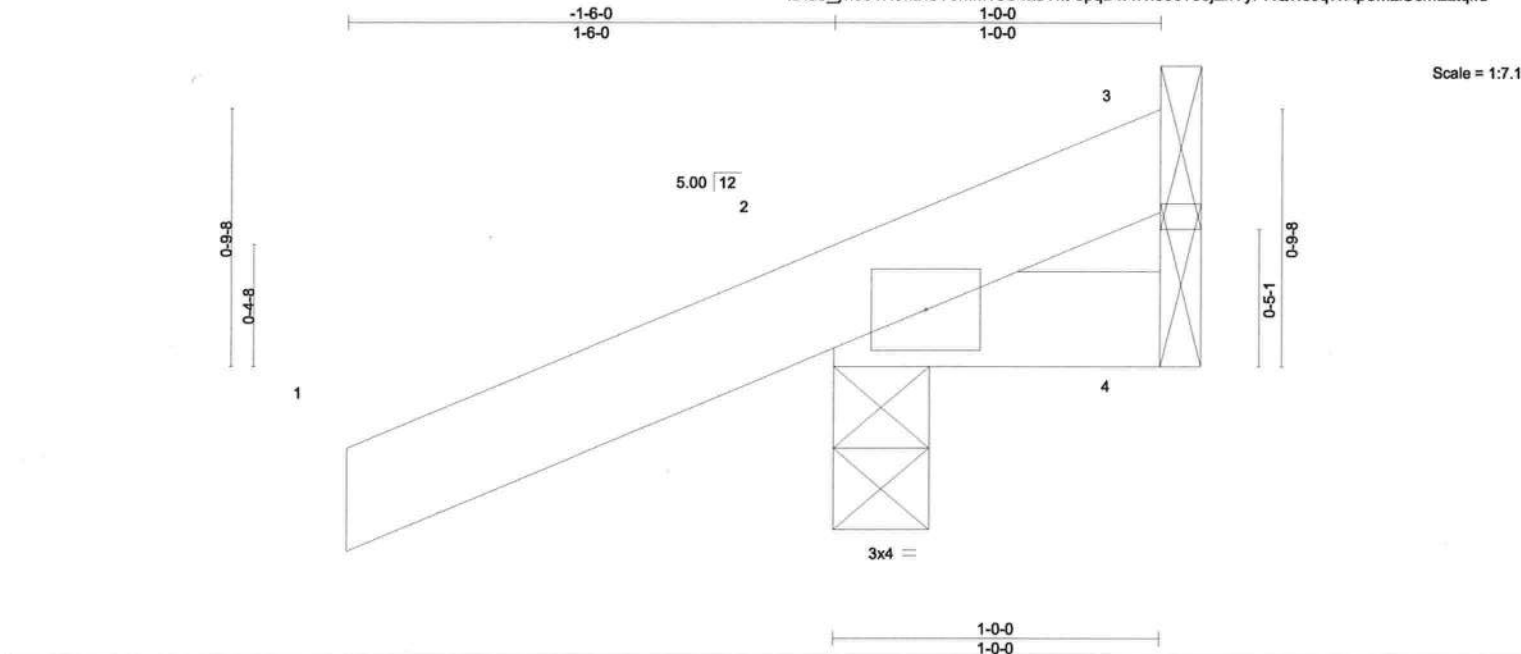
MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Evanston Cont/ Project Name: Area 36 Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
45	T22511193	T12	1/19/21
46	T22511194	T13	1/19/21
47	T22511195	T13G	1/19/21
48	T22511196	T14	1/19/21
49	T22511197	T15	1/19/21
50	T22511198	T16	1/19/21
51	T22511199	T17	1/19/21
52	T22511200	T18	1/19/21
53	T22511201	T19	1/19/21
54	T22511202	T20	1/19/21
55	T22511203	T20G	1/19/21
56	T22511204	T21	1/19/21
57	T22511205	T22	1/19/21
58	T22511206	T23	1/19/21
59	T22511207	T24	1/19/21
60	T22511208	T25	1/19/21
61	T22511209	T25G	1/19/21
62	T22511210	T26	1/19/21
63	T22511211	T27	1/19/21
64	T22511212	T28	1/19/21
65	T22511213	T29	1/19/21
66	T22511214	T30	1/19/21
67	T22511215	T31	1/19/21
68	T22511216	T32	1/19/21
69	T22511217	T33	1/19/21
70	T22511218	T34	1/19/21
71	T22511219	T35	1/19/21
72	T22511220	T35G	1/19/21
73	T22511221	T36	1/19/21
74	T22511222	T37	1/19/21
75	T22511223	TFG01	1/19/21
76	T22511224	TFG02	1/19/21
77	T22511225	TFG03	1/19/21



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	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	7	>999	180		
BCCL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-MP						Weight: 6 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=35(LC 8)
Max Uplift 3=-7(LC 1), 2=-89(LC 8), 4=-22(LC 1)
Max Grav 3=11(LC 8), 2=198(LC 1), 4=21(LC 8)

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 100 lb uplift at joint(s) 3, 2, 4.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

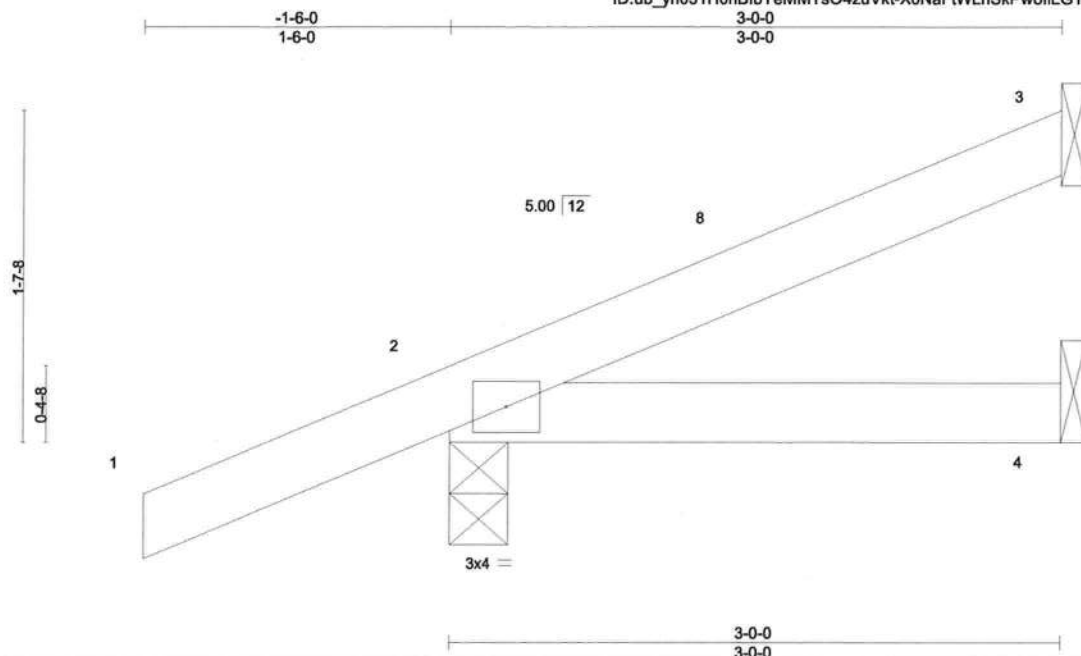
January 19,20:

Job	Truss	Truss Type	Qty	Qty	Job Reference (optional)	T22511150
2564966	CJ03	Jack-Open	16	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:20 2021 Page 1

ID:ub_yh031H0hBibYeMMTsO4zuVkt-X0NaFiWLnSkPwoILGTe_eSqj94GGLVCPB9JgztqkT



Scale = 1:11.3

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 0.14	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MP						Weight: 12 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=65(LC 12)
Max Uplift 3=-35(LC 12), 2=-69(LC 8)
Max Grav 3=65(LC 1), 2=230(LC 1), 4=50(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; 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 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 19,20:

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

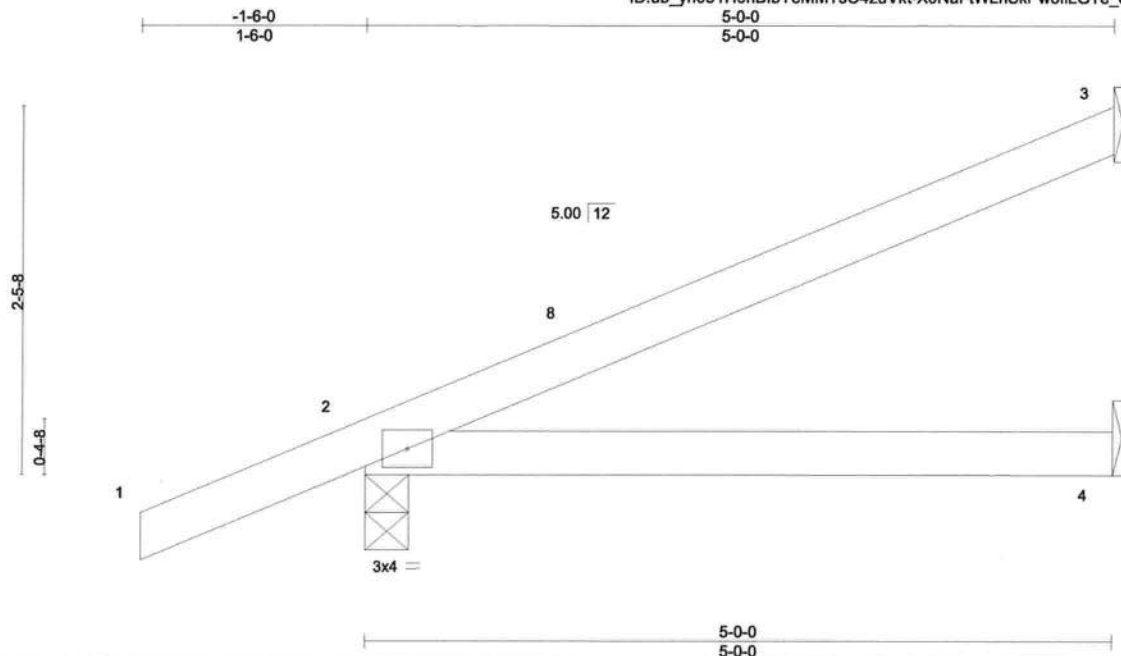


6904 Parke East Blvd.
Tampa, FL 33610

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MITek Industries, Inc. Tue Jan 19 09:25:20 2021 Page 1

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Scale = 1:15.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.06	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 3=-66(LC 12), 2=-79(LC 12)
Max Grav 3=124(LC 1), 2=301(LC 1), 4=89(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; 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 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Walter P. Finn PE No.22839
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 19,20:

Job	Truss	Truss Type	Qty	Ply	EVANSTON CONT - AREA 30	T22511152
2564966	EJ01	Jack-Partial	17	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:21 2021 Page 1
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1-6-0
7-0-0
7-0-0

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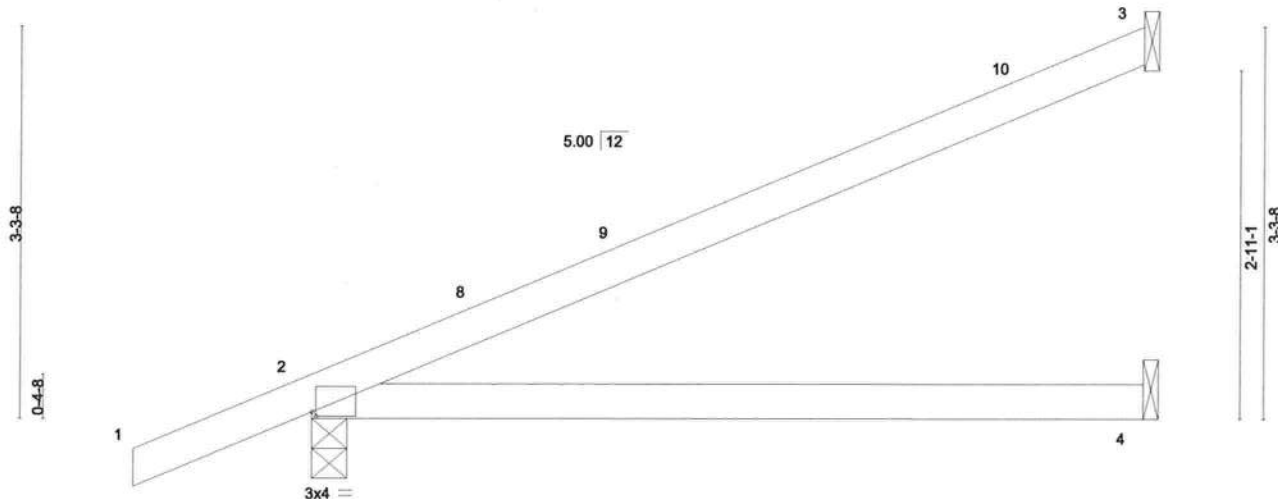


Plate Offsets (X,Y)- [2:0-0-6,0-0-7]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.68	Vert(LL)	0.11	4-7	>789	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.23	4-7	>369	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 24 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=121(LC 12)
Max Uplift 3=85(LC 12), 2=-94(LC 12)
Max Grav 3=181(LC 1), 2=377(LC 1), 4=128(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; 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 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 19,20:

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 33610

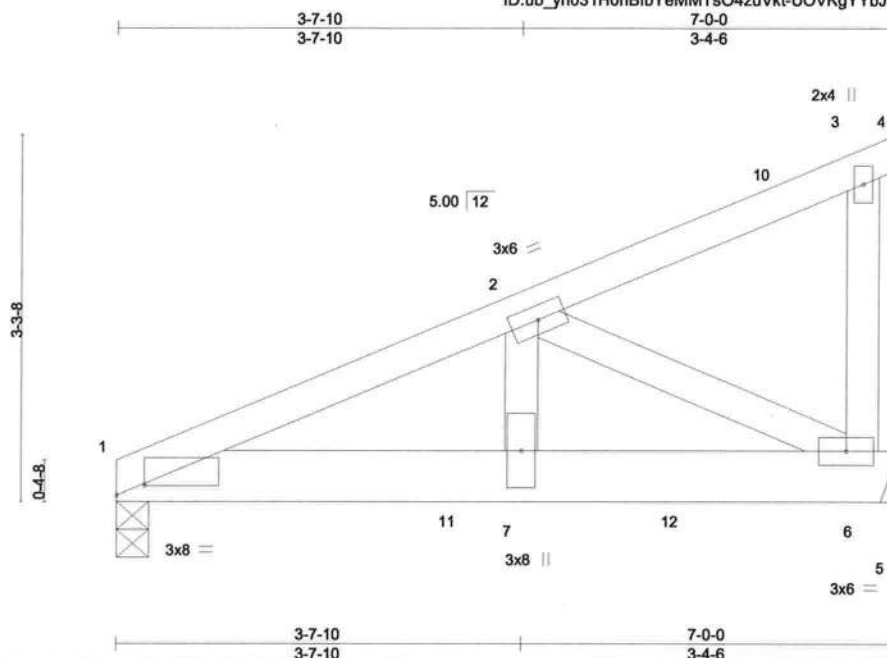
Job	Truss	Truss Type	Qty	Plt	EVANSTON CONT - AREA 30	T22511153
2564966	EJ02	Jack-Open Girder	1	1		

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:22 2021 Page 1

ID:ub_yh031H0hBibYeMMTsO4zuVkt-UOVKgYYbJ3_7A6S7ShW633X9XWjnk3NofjgGNYztqrR



Scale = 1:20.7

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

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 0.25	Vert(LL)	-0.02	7-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.63	Vert(CT)	-0.05	7-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 38 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=Mechanical
Max Horz 1=102(LC 8)
Max Uplift 1=-254(LC 8), 6=-255(LC 8)
Max Grav 1=1100(LC 1), 6=962(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1534/340
BOT CHORD 1-7=-382/1411, 6-7=-382/1411
WEBS 2-7=-219/1035, 2-6=-1571/426

- 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; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=254, 6=255.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 508 lb down and 137 lb up at 1-0-12, and 503 lb down and 136 lb up at 3-0-12, and 503 lb down and 136 lb up at 5-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 1-5=-20
Concentrated Loads (lb)
Vert: 9=-508(F) 11=-503(F) 12=-503(F)



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 19,2021

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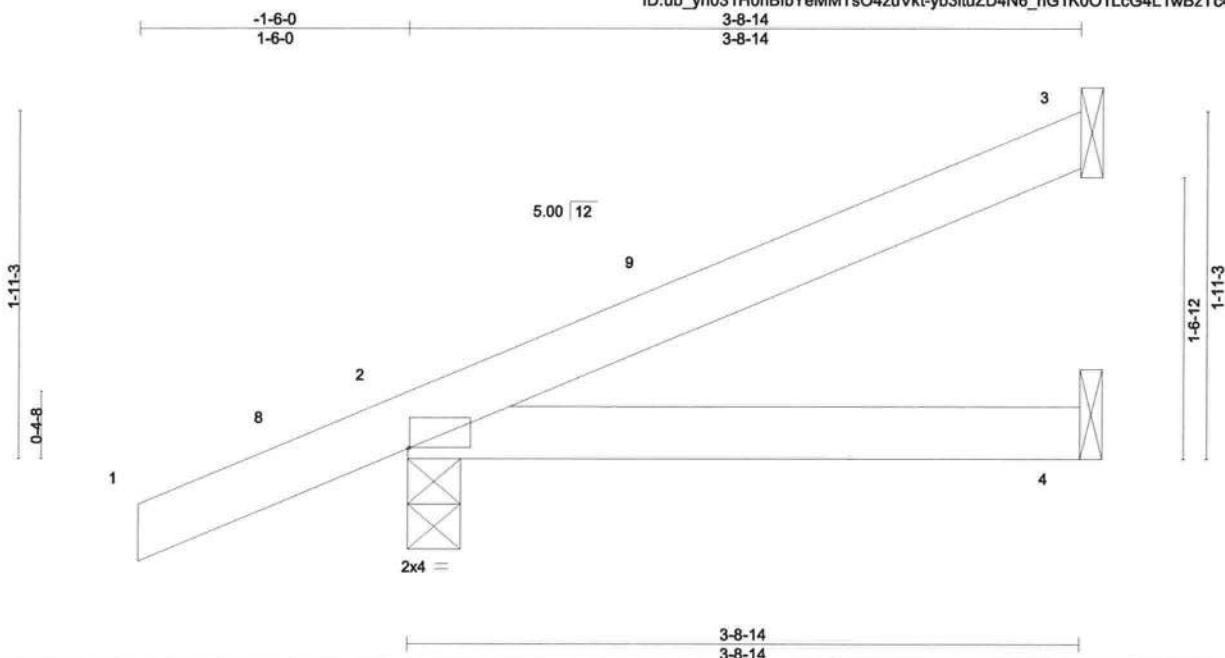
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Plt	EVANSTON CONT - AREA 30	T22511154
2564966	EJ03	Jack-Open	6	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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ID:ub_yh031H0hBibYeMMTsO4zuVkt-yb3ituZD4N6_nG1K0O1LcG4L1wBzTc4xuNQpv7ztqkQ



Scale = 1:12.8

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.14	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	-0.02	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MP						Weight: 14 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=76(LC 12)
Max Uplift 3=47(LC 12), 2=-71(LC 12)
Max Grav 3=88(LC 1), 2=255(LC 1), 4=65(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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-8-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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0-1-8
0-10-8
1-11-12
1-6-12
0-1-8
Scale = 1:49.1

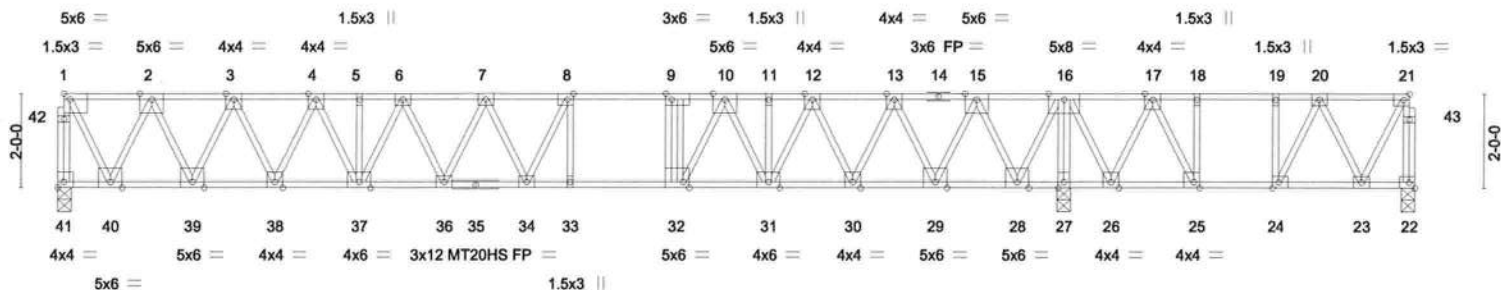


Plate Offsets (X,Y)--	1:Edge,0-1-8,	8:0-1-8,Edge,	9:0-1-8,Edge,	21:0-1-8,Edge,	24:0-1-8,Edge,	25:0-1-8,Edge,	32:0-1-8,Edge,	41:Edge,0-1-8
	6-4-8	11-0-0	12-11-12	15-2-12	21-5-12	28-11-0		
	6-4-8	4-7-8	1-11-12	2-3-0	6-3-0	7-5-4		

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 0.63	Vert(LL)	-0.23 33-34	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.82	Vert(CT)	-0.37 33-34	>693	240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.06 27	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 200 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP M 31(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 41=0-3-8, 22=0-3-8, 27=0-3-8
Max Uplift 22=40(LC 3)
Max Grav 41=1311(LC 10), 22=374(LC 4), 27=2169(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-41=-1302/0, 21-22=-378/21, 1-2=-653/0, 2-3=-1665/0, 3-4=-2449/0, 4-5=-3055/0, 5-6=-3055/0, 6-7=-3412/0, 7-8=-3539/0, 8-9=-3424/0, 9-10=-3414/0, 10-11=-2716/0, 11-12=-2716/0, 12-13=-1991/0, 13-15=-1069/0, 15-16=0/267, 16-17=0/678, 17-18=-266/256, 18-19=-266/256, 19-20=-266/256
BOT CHORD 39-40=0/1211, 38-39=0/2101, 37-38=0/2781, 36-37=0/3271, 34-36=0/3546, 33-34=0/3424, 32-33=0/3424, 31-32=0/3012, 30-31=0/2377, 29-30=0/1576, 28-29=0/545, 27-28=-911/0, 26-27=-911/0, 25-26=-504/90, 24-25=-256/266, 23-24=-88/270
WEBS 16-27=-2035/0, 1-40=0/1364, 16-28=0/1481, 2-40=-1318/0, 15-28=-1460/0, 2-39=0/1074, 15-29=0/1258, 3-39=-1032/0, 13-29=-1218/0, 3-38=0/823, 13-30=0/995, 4-38=-786/0, 12-30=-925/0, 4-37=0/611, 12-31=0/773, 6-37=-483/0, 10-31=-680/0, 6-36=0/334, 10-32=0/1030, 7-36=-317/0, 9-32=-587/0, 21-23=-39/333, 16-26=0/564, 20-23=-256/164, 17-26=-663/0, 20-24=-376/0, 17-25=0/706, 18-25=-420/0, 8-33=-380/12, 8-34=-178/495

- 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 capable of withstanding 100 lb uplift at joint(s) 22.
 - 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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
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Date:

January 19,20:

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8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:26 2021 Page 1
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0-10-8

2-1-0

0-1-8

Scale = 1:40.0

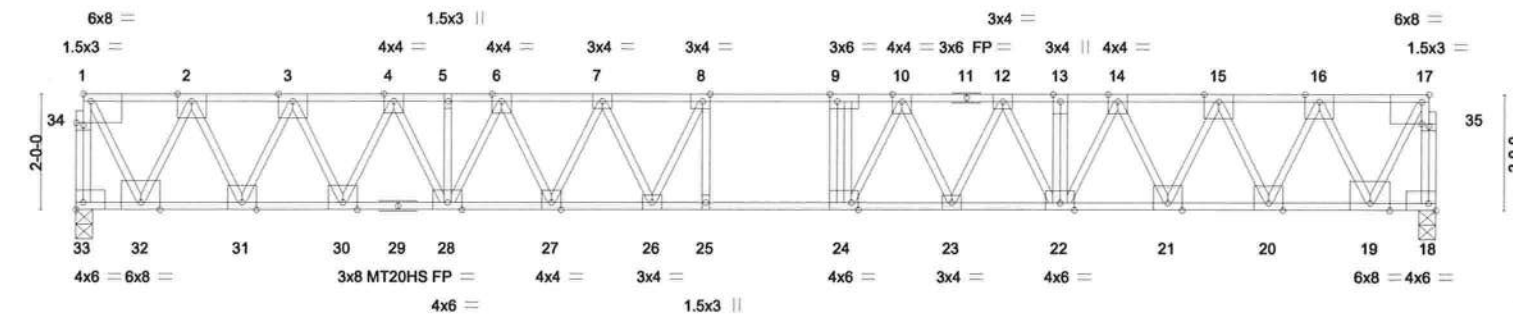


Plate Offsets (X,Y)-	1:Edge,0-1-8,	8:0-1-8,Edge,	9:0-1-8,Edge,	17:0-1-8,Edge,	18:Edge,0-1-8,	24:0-1-8,Edge,	33:Edge,0-1-8,	34:0-1-8,0-0-8,	35:0-1-8,0-0-8,
	6-4-8	11-0-0	13-4-0	17-2-8	23-7-0				
	6-4-8	4-7-8	2-4-0	3-10-8	6-4-8				

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.49	Vert(LL)	-0.25	25	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.74	Vert(CT)	-0.41	25	>685	240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.09	18	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S							
									Weight: 165 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) 33=0-3-8, 18=0-3-8
Max Grav 33=1510(LC 1), 18=1510(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-33=1500/0, 17-18=1500/0, 1-2=-759/0, 2-3=-1956/0, 3-4=-2926/0, 4-5=-3722/0, 5-6=-3722/0, 6-7=-4271/0, 7-8=-4594/0, 8-9=-4686/0, 9-10=-4681/0, 10-12=-4294/0, 12-13=-3746/0, 13-14=-3746/0, 14-15=-2926/0, 15-16=-1956/0, 16-17=-759/0
BOT CHORD 31-32=0/1409, 30-31=0/2486, 28-30=0/3351, 27-28=0/4045, 26-27=0/4481, 25-26=0/4686, 24-25=0/4686, 23-24=0/4496, 22-23=0/4085, 21-22=0/3351, 20-21=0/2485, 19-20=0/1409
WEBS 17-19=0/1586, 1-32=0/1586, 16-19=-1537/0, 2-32=-1537/0, 16-20=0/1293, 2-31=0/1293, 15-20=-1251/0, 3-31=-1252/0, 15-21=0/1042, 3-30=0/1042, 14-21=-1005/0, 4-30=-1004/0, 14-22=0/839, 4-28=0/829, 12-22=-721/0, 6-28=-723/0, 12-23=0/495, 6-27=0/534, 10-23=-553/0, 7-27=-498/0, 10-24=-90/773, 7-26=0/488, 8-26=-626/227, 9-24=-446/0

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 5x6 MT20 unless otherwise indicated.
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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cart 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 19,2021

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0-10-8

2-1-0

0-1-8

Scale = 1:36.5

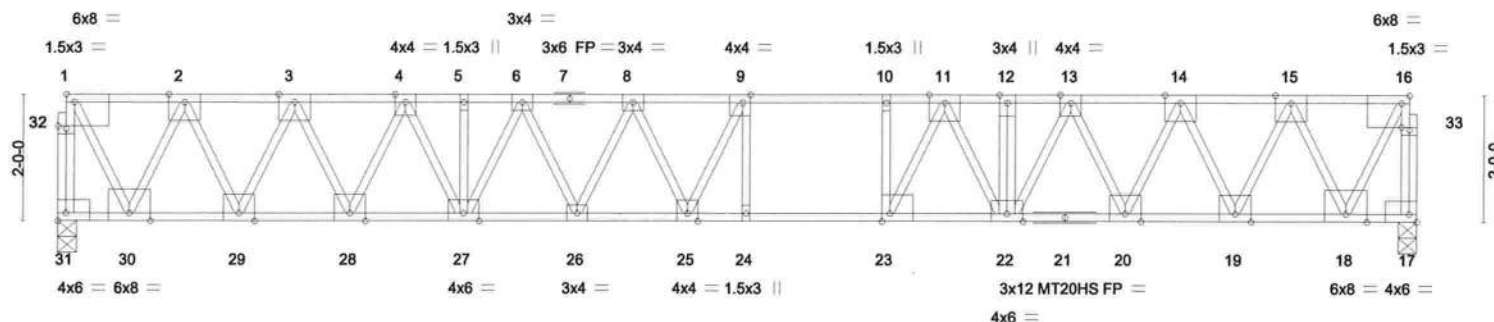


Plate Offsets (X,Y)-	[1:Edge,0-1-8], [9:0-1-8,Edge], [16:0-1-8,Edge], [17:Edge,0-1-8], [23:0-1-8,Edge], [31:Edge,0-1-8], [32:0-1-8,0-0-8], [33:0-1-8,0-0-8]
----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 55.0	Plate Grip DOL	1.00	TC 0.80	Vert(LL)	-0.31 24-25	>834	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.97	Vert(CT)	-0.44 24-25	>578	240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.08 17	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-S					Weight: 148 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 5-8-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 23-24.

REACTIONS. (size) 31=0-3-8, 17=0-3-8
Max Grav 31=1698(LC 1), 17=1698(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-31=-1688/0, 16-17=-1689/0, 1-2=-848/0, 2-3=-2173/0, 3-4=-3217/0, 4-5=-4043/0, 5-6=-4043/0, 6-8=-4565/0, 8-9=-4806/0, 9-10=-4757/0, 10-11=-4757/0, 11-12=-4059/0, 12-13=-4059/0, 13-14=-3221/0, 14-15=-2171/0, 15-16=-849/0
BOT CHORD 29-30=0/1576, 28-29=0/2751, 27-28=0/3667, 26-27=0/4357, 25-26=0/4764, 24-25=0/4757, 23-24=0/4757, 22-23=0/4393, 20-22=0/3661, 19-20=0/2753, 18-19=0/1576
WEBS 16-18=0/1772, 1-30=0/1771, 15-18=-1719/0, 2-30=-1721/0, 15-19=0/1409, 2-29=0/1410, 14-19=-1375/0, 3-29=-1368/0, 14-20=0/1106, 3-28=0/1102, 13-20=-1041/0, 4-28=-1065/0, 13-22=0/845, 4-27=0/841, 11-22=-755/0, 6-27=-701/0, 11-23=0/1189, 6-26=0/491, 8-26=-471/0, 8-25=-154/432, 10-23=-707/0, 9-24=-438/163, 9-25=-508/528

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 5x6 MT20 unless otherwise indicated.
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.



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6904 Parke East Blvd. Tampa FL 33610
Date:

January 19,20:

Job	Truss	Truss type	Qty	Ply	EVANSTON CONT - AREA 30	T22511158
2564966	F04	Floor	6	1	Job Reference (optional)	

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8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:28 2021 Page 1
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0-1-8

0-10-8

1-11-14

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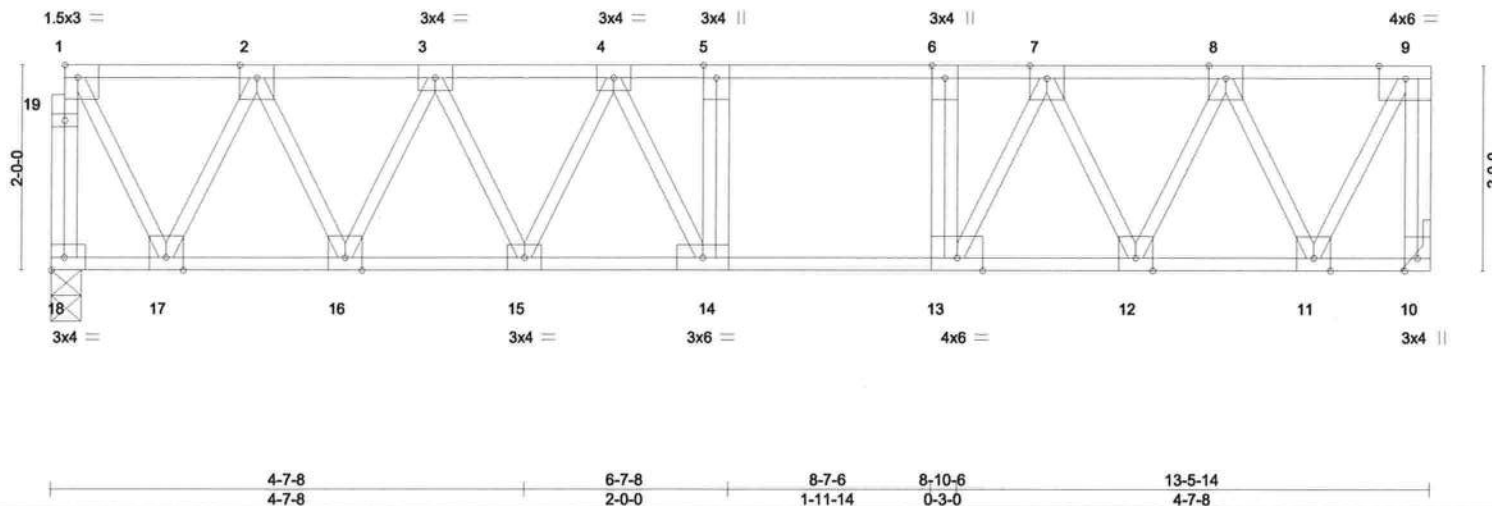


Plate Offsets (X,Y)- [1:Edge,0-1-8]

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 0.85	Vert(LL)	-0.12 14-15	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.92	Vert(CT)	-0.17 14-15	>941	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						
								Weight: 95 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, Except: 2-2-0 oc bracing: 13-14.

REACTIONS. (size) 18=0-3-8, 10=Mechanical
Max Grav 18=854(LC 1), 10=861(LC 1)

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

TOP CHORD 1-18=-847/0, 9-10=-857/0, 1-2=-412/0, 2-3=-993/0, 3-4=-1364/0, 4-5=-1470/0, 5-6=-1470/0, 6-7=-1470/0, 7-8=-982/0, 8-9=-415/0
BOT CHORD 16-17=0/754, 15-16=0/1221, 14-15=0/1468, 13-14=0/1470, 12-13=0/1213, 11-12=0/757
WEBS 9-11=0/881, 1-17=0/857, 8-11=-809/0, 2-17=-810/0, 8-12=0/533, 2-16=0/564, 7-12=-546/0, 3-16=-539/0, 3-15=0/337, 4-15=-251/0, 6-13=-413/0, 7-13=0/667, 4-14=-149/267

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are 4x4 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- 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.
- CAUTION, Do not erect truss backwards.



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January 19,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	City	Fly	EVANSTON COURT - AREA 38	T22511159
2564966	F05	Floor	10	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:28 2021 Page 1
ID:ub_yh031H0hBibYeMMTsO4zuVkt-IYsbwccMuvIGu1vHpxcWJkn45xow8mWg1f7abCztqkL

0-1-8

0-10-8

1-11-4

Scale = 1:26.5

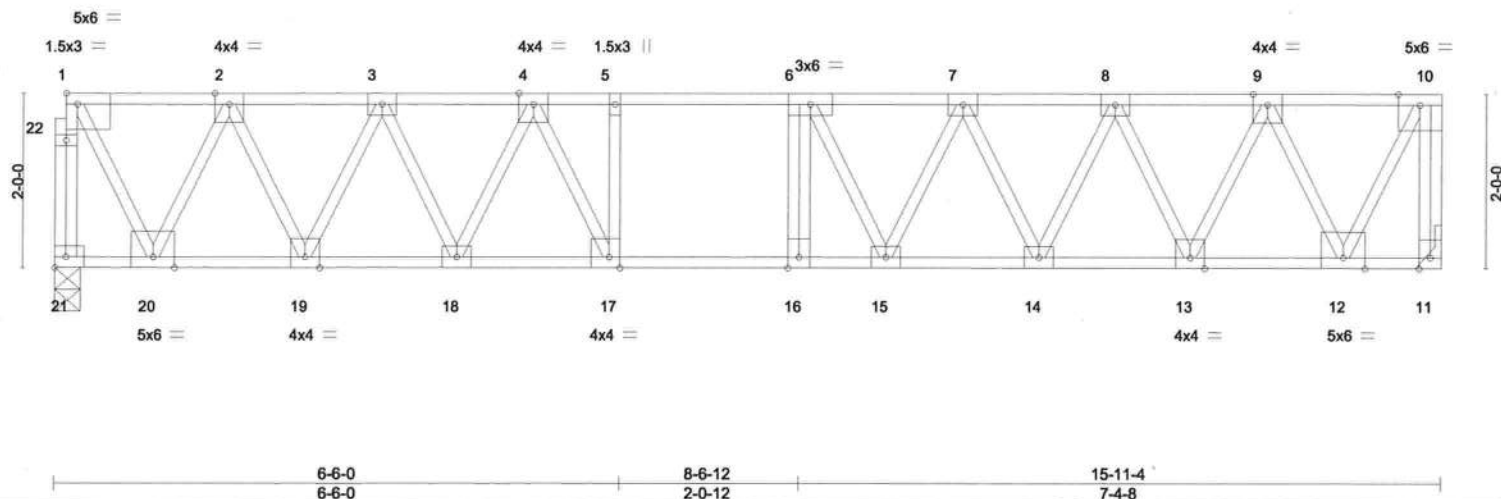


Plate Offsets (X,Y)-		[1:Edge,0-1-8], [17:0-1-8,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.63	Vert(LL)	-0.11 15-16	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.45	Vert(CT)	-0.16 15-16	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.03 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-S						
				Weight: 109 lb		FT = 20%F, 11%E			

LUMBER-
TOP CHORD 2x4 SP No.2(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) 21=0-3-8, 11=Mechanical
Max Grav 21=1013(LC 1), 11=1020(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-1003/0, 10-11=-1010/0, 1-2=-494/0, 2-3=-1230/0, 3-4=-1728/0, 4-5=-2104/0, 5-6=-2104/0, 6-7=-2035/0, 7-8=-1737/0, 8-9=-1228/0, 9-10=-495/0
BOT CHORD 19-20=0/914, 18-19=0/1526, 17-18=0/1930, 16-17=0/2104, 15-16=0/2104, 14-15=0/1937, 13-14=0/1524, 12-13=0/915
WEBS 10-12=0/1051, 1-20=0/1031, 9-12=-994/0, 2-20=-991/0, 9-13=0/741, 2-19=0/749, 8-13=-698/0, 3-19=-698/0, 8-14=0/504, 3-18=0/479, 7-14=-473/0, 4-18=-478/0, 7-15=0/335, 4-17=0/593, 5-17=-327/0, 6-15=-391/90

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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 19,2021

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Tampa, FL 33610

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:29 2021 Page 1
ID:ub_yh031H0hBibYeMMTsO4zuVkt-miQz8yd_fdt7VBUUMf8lrXKIL6NBxqGJt87eztqkK

0-1-8

0-10-8

1-9-4

Scale = 1:32.4

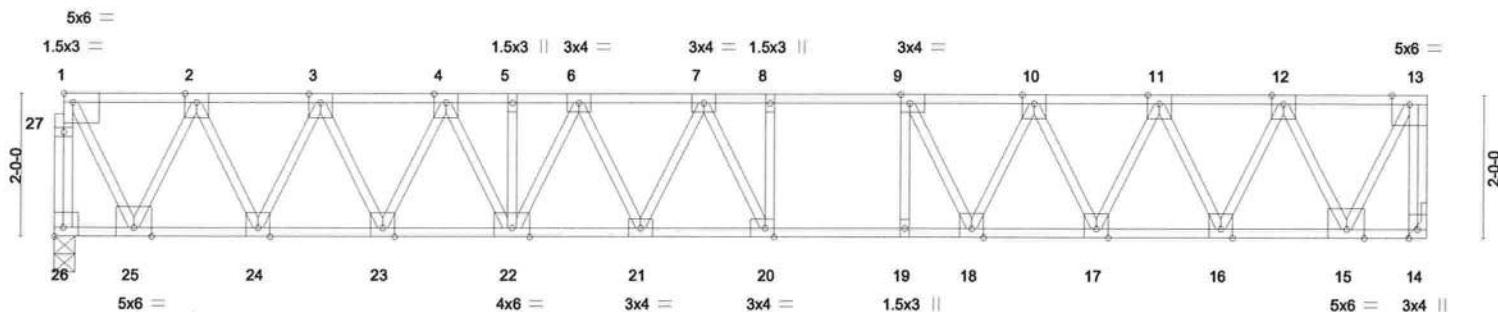


Plate Offsets (X,Y)-	1:Edge,0-1-8,	9:0-1-8,Edge,	20:0-1-8,Edge,	26:Edge,0-1-8
	6-6-0	10-1-8	11-10-12	19-3-4
	6-6-0	3-7-8	1-9-4	7-4-8

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.39	Vert(LL)	-0.16 20-21	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL 1.00	BC 0.63	Vert(CT)	-0.25 20-21	>899	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.62	Horz(CT)	0.05 14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S						
							Weight: 130 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) 26=0-3-8, 14=Mechanical
Max Grav 26=1229(LC 1), 14=1236(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-1221/0, 13-14=-1227/0, 1-2=-610/0, 2-3=-1545/0, 3-4=-2255/0, 4-5=-2777/0, 5-6=-2777/0, 6-7=-3069/0, 7-8=-3051/0, 8-9=-3051/0, 9-10=-2763/0, 10-11=-2254/0, 11-12=-1546/0, 12-13=-610/0
BOT CHORD 24-25=0/1129, 23-24=0/1945, 22-23=0/2548, 21-22=0/2966, 20-21=0/3125, 19-20=0/3051, 18-19=0/3051, 17-18=0/2538, 16-17=0/1947, 15-16=0/1130
WEBS 13-15=0/1295, 1-25=0/1274, 12-15=-1231/0, 2-25=-1228/0, 12-16=0/984, 2-24=0/984, 11-16=-947/0, 3-24=-944/0, 11-17=0/726, 3-23=0/735, 10-17=-672/0, 4-23=-691/0, 10-18=0/610, 4-22=0/512, 6-22=-424/0, 6-21=0/279, 9-18=-816/0, 7-21=-254/18, 7-20=-404/264, 9-19=-13/356

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 4x4 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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
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January 19,20:

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6904 Parke East Blvd.
Tampa, FL 33610

100	Truss	Truss Type	Qty	Qty	EVANSTON CONT - AREA 30	T22511161
2564966	F07	Floor	2	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:30 2021 Page 1
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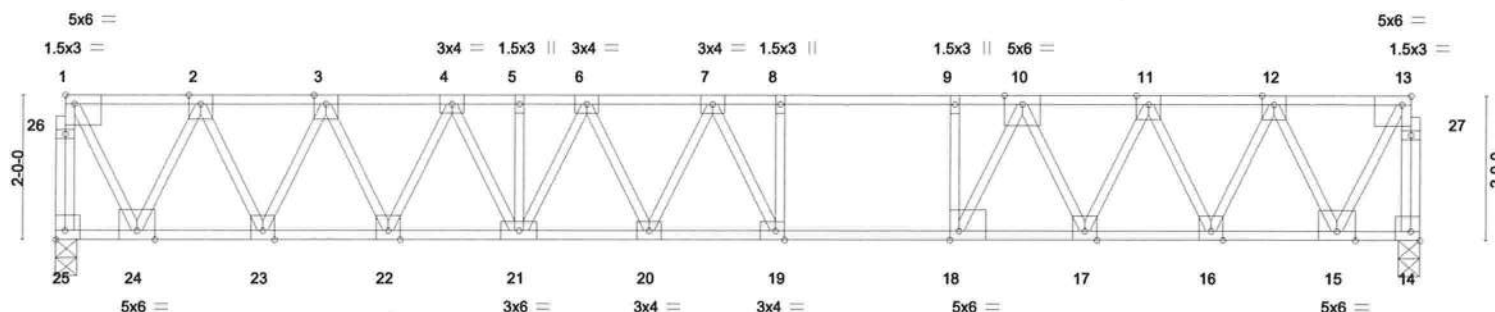
0-1-8

0-10-8

2-3-7

0-1-8

Scale: 3/8"=1'



6-6-0	10-0-0	10-1-8	12-4-15	18-10-15
6-6-0	3-6-0	0-1-8	2-3-7	6-6-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [13:0-1-8,Edge], [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge], [25: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 0.68	Vert(LL)	-0.22	19-20	>999	360	MT20
TCDL 15.0	Lumber DOL	1.00	BC 0.70	Vert(CT)	-0.34	19-20	>650	240	
BCLL 0.0	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.04	14	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						
								Weight: 126 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) 25=0-3-8, 14=0-3-8
Max Grav 25=1206(LC 1), 14=1206(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-25=-1197/0, 13-14=-1195/0, 1-2=-598/0, 2-3=-1511/0, 3-4=-2200/0, 4-5=-2697/0, 5-6=-2697/0, 6-7=-2976/0, 7-8=-2876/0, 8-9=-2876/0, 9-10=-2876/0, 10-11=-2174/0, 11-12=-1518/0, 12-13=-596/0
BOT CHORD 23-24=0/1106, 22-23=0/1900, 21-22=0/2480, 20-21=0/2877, 19-20=0/3009, 18-19=0/2876, 17-18=0/2487, 16-17=0/1898, 15-16=0/1107
WEBS 13-15=0/1243, 1-24=0/1248, 12-15=-1208/0, 2-24=-1202/0, 12-16=0/973, 2-23=0/958, 11-16=-898/0, 3-23=-919/0, 11-17=0/654, 3-22=0/710, 10-17=-738/0, 4-22=-663/0, 10-18=0/1059, 9-18=-648/0, 4-21=0/485, 6-21=-402/0, 6-20=0/265, 7-19=-510/204

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 4x4 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.



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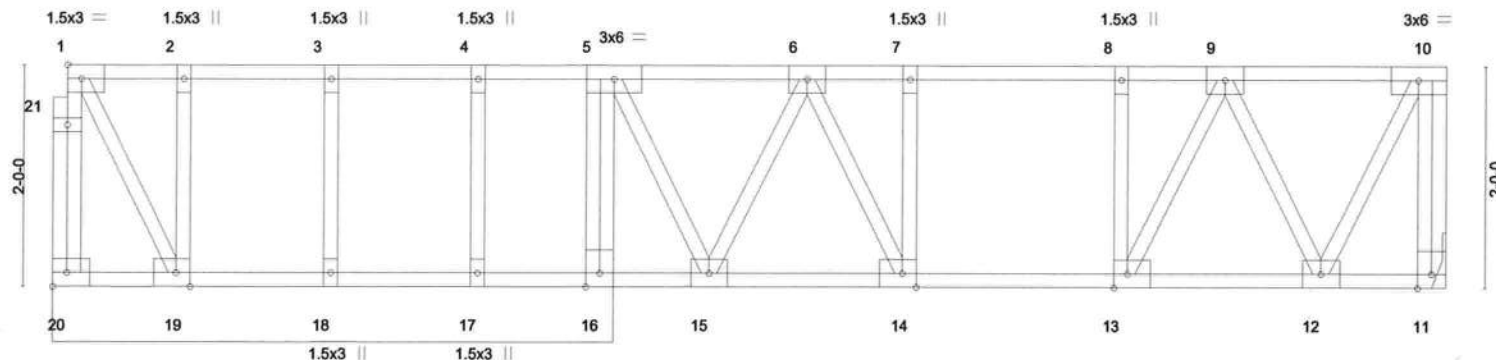
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:31 2021 Page 1
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0-1-8



Scale = 1:20.9



2-6-4	3-10-4	4-11-8	5-11-8	7-8-8	9-9-0	11-6-0	12-7-8
2-6-4	1-4-0	1-1-4	1-0-0	1-9-0	2-0-8	1-9-0	1-1-8

Plate Offsets (X,Y)- [13:0-1-8,Edge], [14:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.23	Vert(LL)	-0.01	13	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.20	Vert(CT)	-0.02	13	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.00	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 86 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.

REACTIONS. All bearings 5-1-0 except (jt=length) 11=Mechanical.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 20=-152(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 20, 18, 17 except 11=478(LC 4), 16=597(LC 1), 19=366(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-472/0, 6-7=-451/0, 7-8=-451/0, 8-9=-451/0
BOT CHORD 14-15=0/340, 13-14=0/451, 12-13=0/370
WEBS 5-16=-566/0, 10-12=0/438, 5-15=0/432, 9-12=-388/0, 6-15=-402/0, 6-14=0/269

- 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 capable of withstanding 152 lb uplift at joint 20.
 - 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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
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January 19,20:

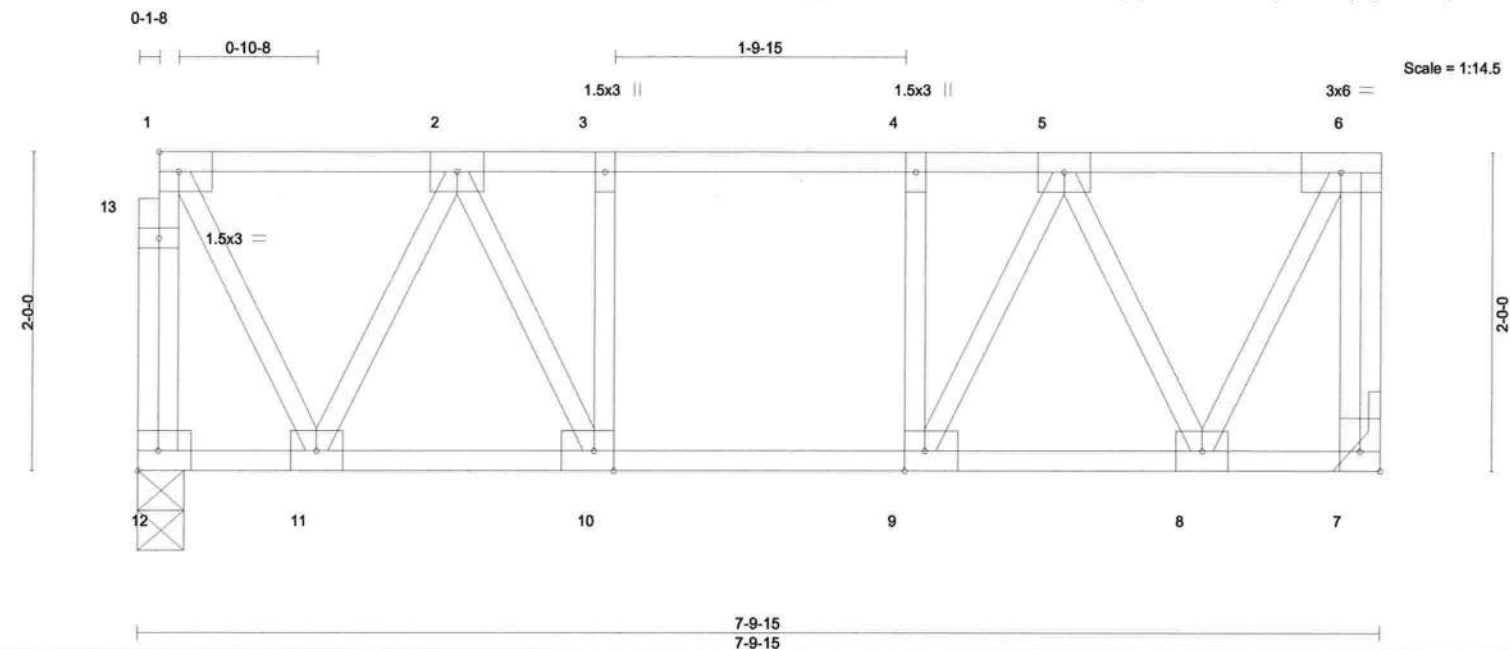


Plate Offsets (X,Y) - [7:Edge,0-1-8], [9:0-1-8,Edge], [10:0-1-8,Edge]

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 0.27	Vert(LL)	-0.02	10	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.22	Vert(CT)	-0.02	10	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S						Weight: 56 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) 12=0-3-8, 7=Mechanical
Max Grav 12=486(LC 1), 7=493(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-479/0, 6-7=-485/0, 2-3=-480/0, 3-4=-480/0, 4-5=-480/0
BOT CHORD 10-11=0/384, 9-10=0/480, 8-9=0/385
WEBS 6-8=0/452, 1-11=0/441, 5-8=-407/0, 2-11=-403/0, 5-9=0/295, 2-10=0/296

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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8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:33 2021 Page 1
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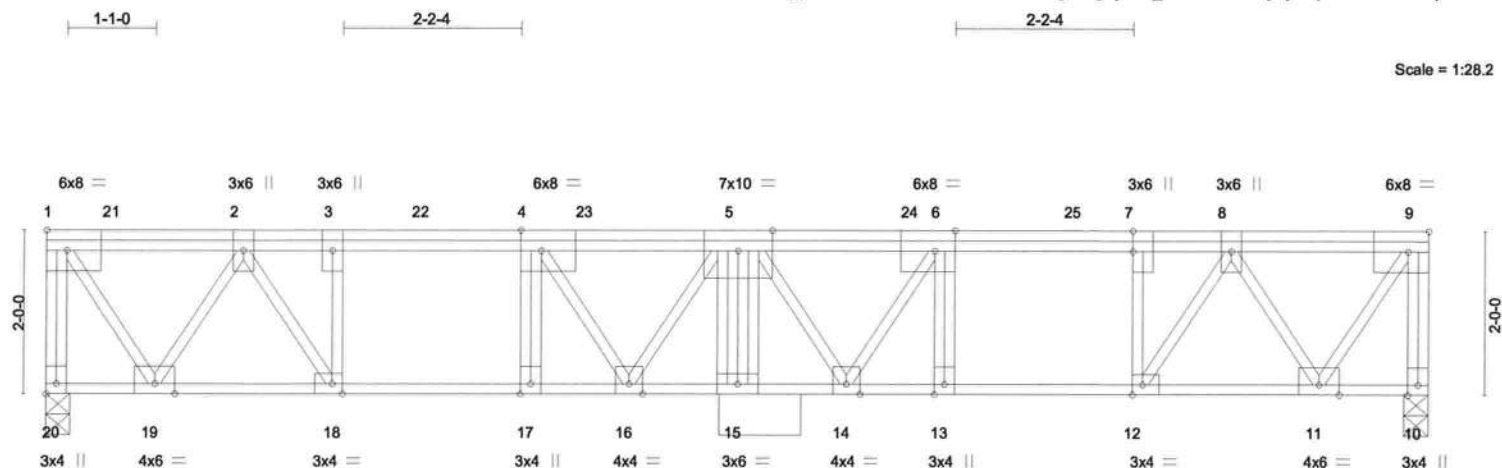


Plate Offsets (X,Y)-	4:0-3-0,Edge	6:0-3-0,Edge	7:0-3-0,0-0-0	9:0-3-0,Edge	12:0-1-8,Edge	18:0-1-8,Edge	20:Edge,0-1-8
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.52	Vert(LL)	-0.03	18	>999	360	MT20
TCDL 15.0	Lumber DOL	1.00	BC 0.51	Vert(CT)	-0.05	18-19	>999	240	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.55	Horz(CT)	0.02	10	n/a	n/a	
BCDL 10.0	Code FBC2020/TP1014		Matrix-S						
								Weight: 139 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 20=0-3-8, 10=0-3-8, 15=1-0-0
 Max Grav 20=1728(LC 10), 10=1272(LC 7), 15=1900(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-20=-1721/0, 9-10=-1266/0, 1-2=-638/0, 2-3=-1286/0, 3-4=-1286/0, 4-5=-755/0, 5-6=-726/0, 6-7=-1236/0, 7-8=-1236/0, 8-9=-566/0
 BOT CHORD 18-19=0/1183, 17-18=0/1286, 16-17=0/1286, 13-14=0/1236, 12-13=0/1236, 11-12=0/1046
 WEBS 5-15=-1840/0, 1-19=0/1149, 5-16=0/994, 2-19=-1063/0, 4-16=-983/0, 9-11=0/1021, 5-14=0/951, 8-11=-935/0, 6-14=-943/0, 8-12=0/383, 7-12=-291/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - 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.
 - CAUTION, Do not erect truss backwards.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 462 lb down at 0-1-8, 467 lb down at 0-10-4, 344 lb down at 2-7-12, 344 lb down at 4-7-12, 344 lb down at 6-7-12, 344 lb down at 10-7-12, 344 lb down at 12-7-12, and 344 lb down at 14-7-12, and 356 lb down at 16-10-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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: 10-20=-20, 1-9=-110

Concentrated Loads (lb)

Vert: 9=-308(B) 1=-421(F) 2=-264(B) 8=-264(B) 21=-397(F) 22=-264(B) 23=-264(B) 24=-264(B) 25=-264(B)



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 6904 Parke East Blvd. Tampa FL 33610
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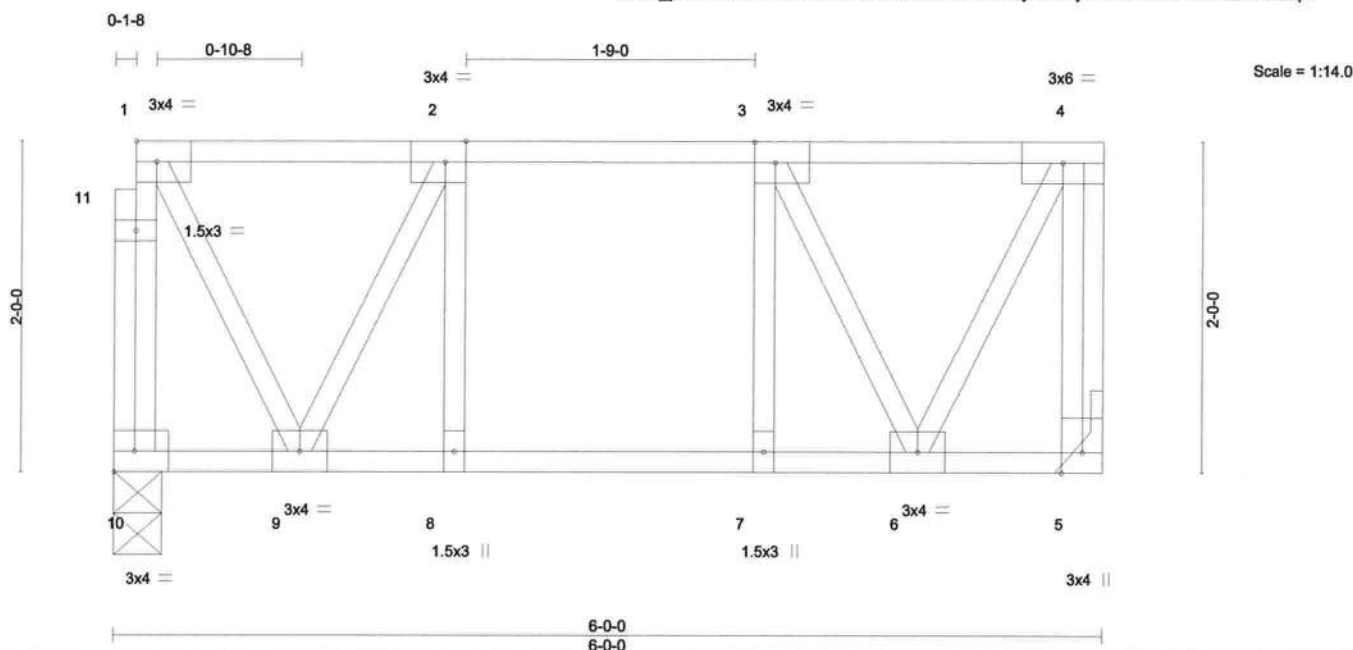


Plate Offsets (X,Y)- [2:0-1-8,Edge], [3:0-1-8,Edge]

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 0.24	Vert(LL)	-0.01	7	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.23	Vert(CT)	-0.01	7	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 45 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) 10=0-3-8, 5=Mechanical
 Max Grav 10=367(LC 1), 5=374(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-10=-357/0, 4-5=-364/0, 2-3=-278/0
 BOT CHORD 8-9=0/278, 7-8=0/278, 6-7=0/278
 WEBS 4-6=0/315, 1-9=0/307, 3-6=-291/0, 2-9=-289/0

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.



Walter P. Finn PE No.22839
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

January 19,20:

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

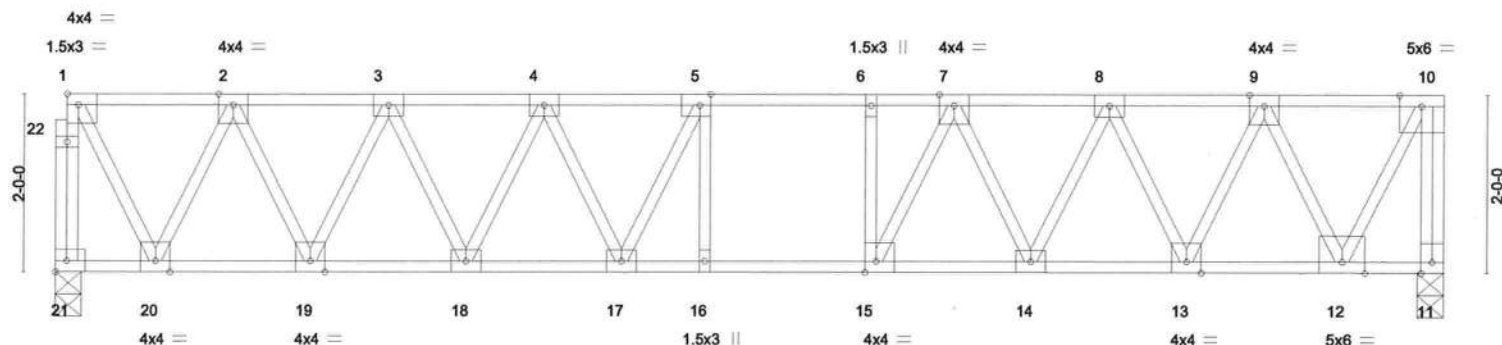
8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:35 2021 Page 1
ID:ub_yh031H0hBlbYeMMTsO4zuVkt-bunFO?ilF3dHD6xdjvE95oaHrm4sHxPieEKSILztqkE

0-1-8

0-10-8

1-9-0

Scale = 1:26.0



7-4-8	9-1-8	15-7-8
7-4-8	1-9-0	6-6-0

Plate Offsets (X,Y)- [1:Edge,0-1-8], [5:0-1-8,Edge], [15:0-1-8,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 0.60	Vert(LL)	-0.10 16-17	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.95	Vert(CT)	-0.15 16-17	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.03 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 105 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, Except: 2-2-0 oc bracing: 15-16.

REACTIONS. (size) 21=0-3-8, 11=0-3-8
Max Grav 21=993(LC 1), 11=999(LC 1)

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

TOP CHORD 1-21=-985/0, 10-11=-990/0, 1-2=-485/0, 2-3=-1198/0, 3-4=-1689/0, 4-5=-1966/0,
5-6=-2025/0, 6-7=-2025/0, 7-8=-1681/0, 8-9=-1201/0, 9-10=-484/0
BOT CHORD 19-20=0/894, 18-19=0/1485, 17-18=0/1878, 16-17=0/2025, 15-16=0/2025, 14-15=0/1871,
13-14=0/1487, 12-13=0/894
WEBS 10-12=0/1028, 1-20=0/1011, 9-12=-972/0, 2-20=-967/0, 9-13=0/724, 2-19=0/720,
8-13=-676/0, 3-19=-678/0, 8-14=0/460, 3-18=0/482, 7-14=-449/0, 4-18=-448/0,
7-15=0/547, 4-17=0/321, 6-15=-317/0, 5-17=-358/92

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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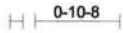
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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0-1-8



2-1-8

Scale = 1:23.6

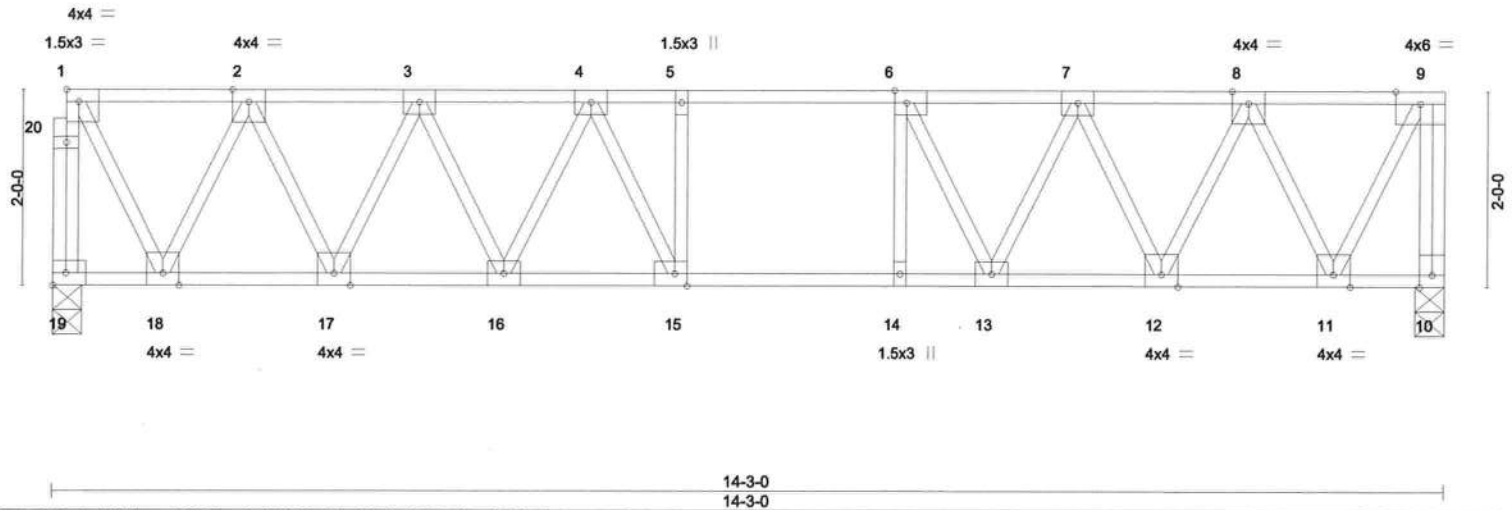


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.67	Vert(LL)	-0.11 15-16	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.95	Vert(CT)	-0.15 15-16	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.03 10	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S						
								Weight: 95 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, Except: 2-2-0 oc bracing: 14-15.

REACTIONS. (size) 19=0-3-8, 10=0-3-8
Max Grav 19=903(LC 1), 10=910(LC 1)

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

TOP CHORD 1-19=-896/0, 9-10=-901/0, 1-2=-437/0, 2-3=-1067/0, 3-4=-1476/0, 4-5=-1670/0, 5-6=-1670/0, 6-7=-1477/0, 7-8=-1067/0, 8-9=-437/0
BOT CHORD 17-18=0/804, 16-17=0/1316, 15-16=0/1610, 14-15=0/1670, 13-14=0/1670, 12-13=0/1307, 11-12=0/807
WEBS 9-11=0/928, 1-18=0/911, 8-11=-875/0, 2-18=-866/0, 8-12=0/615, 2-17=0/622, 7-12=-567/0, 3-17=-589/0, 7-13=0/450, 3-16=0/380, 6-13=-566/0, 4-16=-320/0, 4-15=-70/380

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- 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.
- CAUTION, Do not erect truss backwards.



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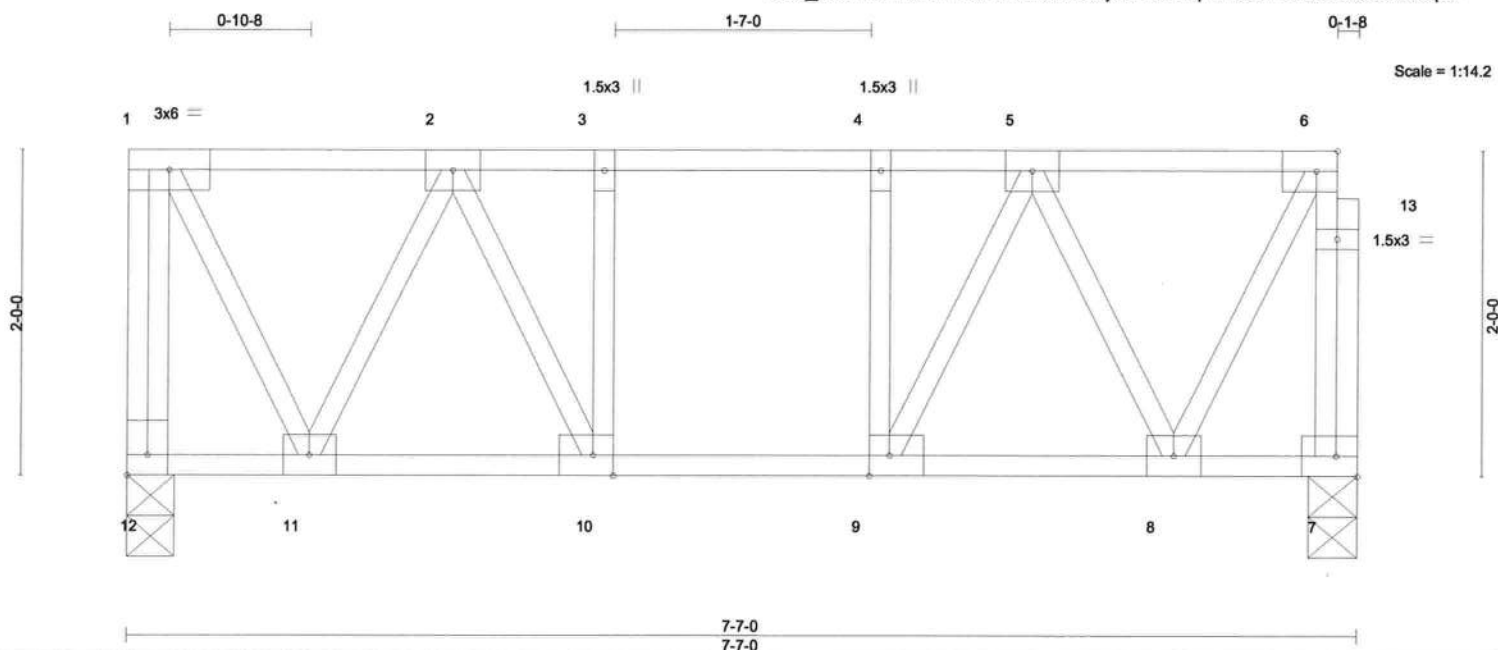


Plate Offsets (X,Y)- [6:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [12:Edge,0-1-8]

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 0.22	Vert(LL)	-0.02	9	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.22	Vert(CT)	-0.02	8-9	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S							
									Weight: 55 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) 12=0-3-8, 7=0-3-8
 Max Grav 12=477(LC 1), 7=470(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-470/0, 6-7=-463/0, 2-3=-452/0, 3-4=-452/0, 4-5=-452/0
 BOT CHORD 10-11=0/370, 9-10=0/452, 8-9=0/368
 WEBS 6-8=0/425, 1-11=0/435, 5-8=-385/0, 2-11=-390/0, 5-9=0/265, 2-10=0/264

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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January 19,20:

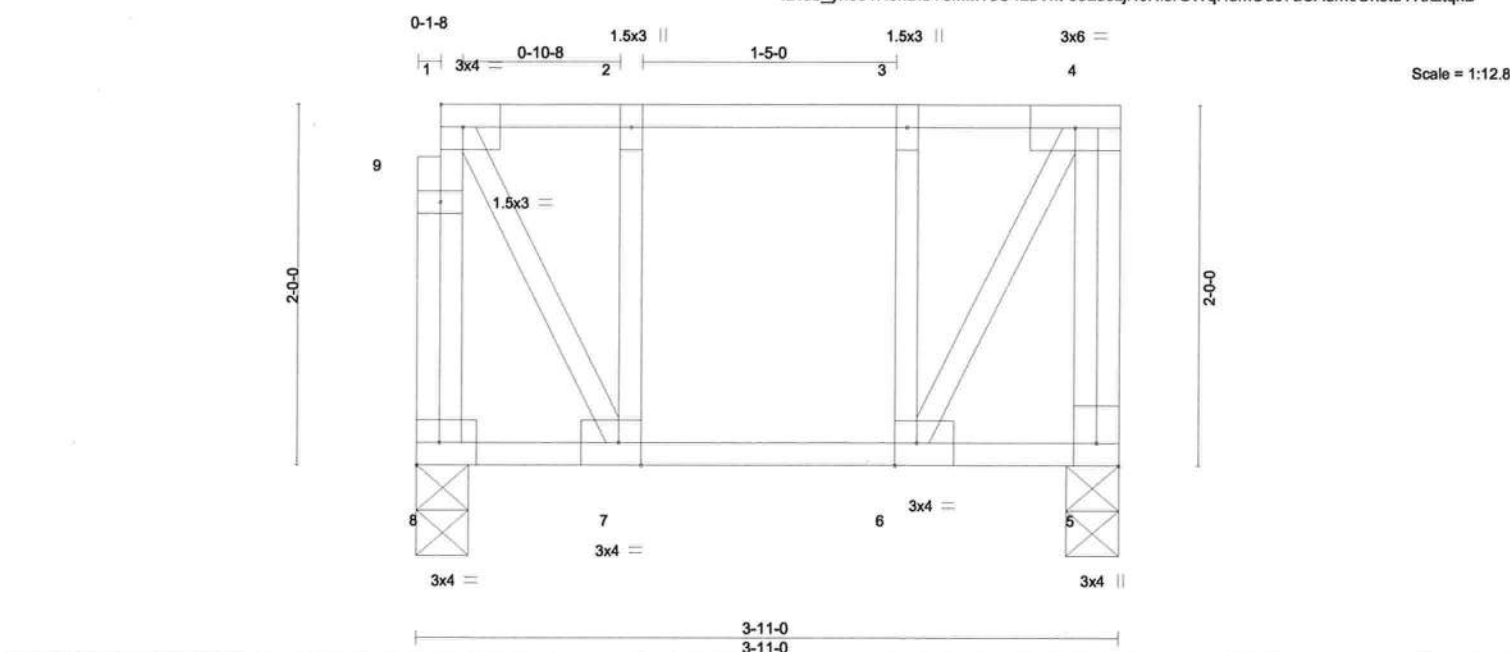


Plate Offsets (X,Y)– [5:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.00 6 >999 360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.00 6 >999 240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00 5 n/a n/a		
BCDL	10.0	Code	FBC2020/TP12014	Matrix-S				Weight: 33 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

REACTIONS. (size) 8=0-3-8, 5=0-3-8
 Max Grav 8=232(LC 1), 5=238(LC 1)

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

- NOTES-**
 1) Unbalanced floor live loads have been considered for this design.
 2) 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.
 3) CAUTION, Do not erect truss backwards.



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January 19,20:

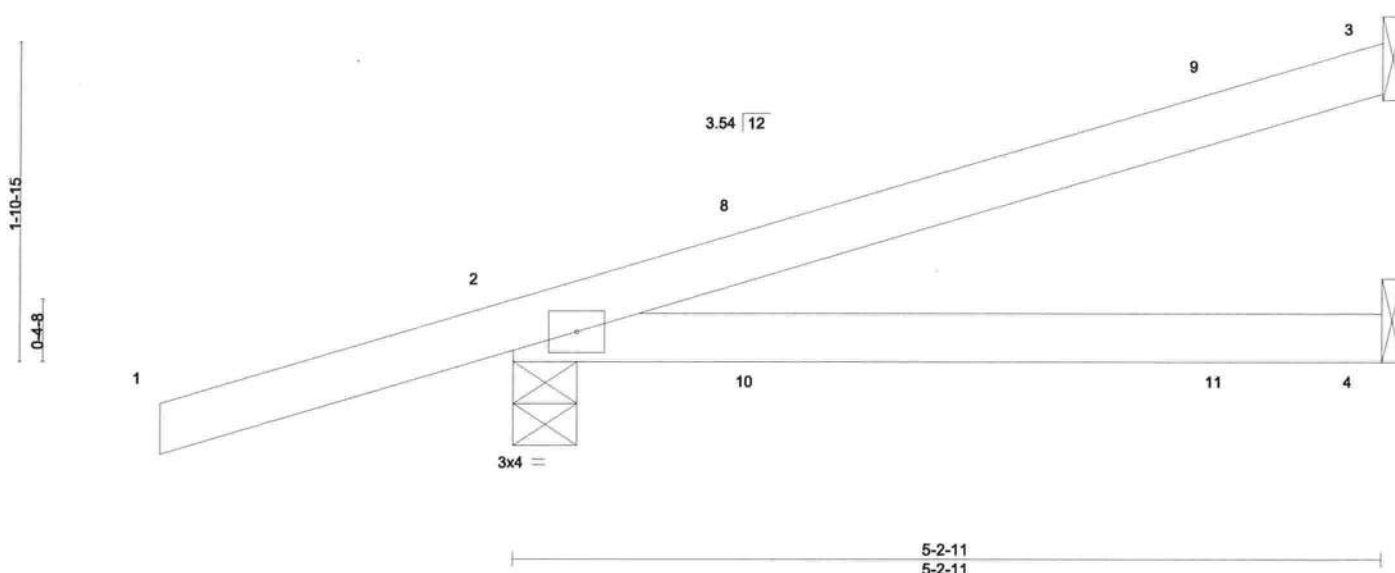
JOB	TRUSS	TRUSS TYPE	Qty	PLY	EVANSTON CONT - AREA 30	T22511170
2564966	HJ06	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MITek Industries, Inc. Tue Jan 19 09:25:37 2021 Page 1
ID:ub_yh031H0hBibYeMMTsO4zuVkt-XHv?phj?ngt?TP50qKHeADfhYzw2lyY?6YpZPBztqKc

-2-1-7
2-1-7
5-2-11
5-2-11

Scale = 1:13.8



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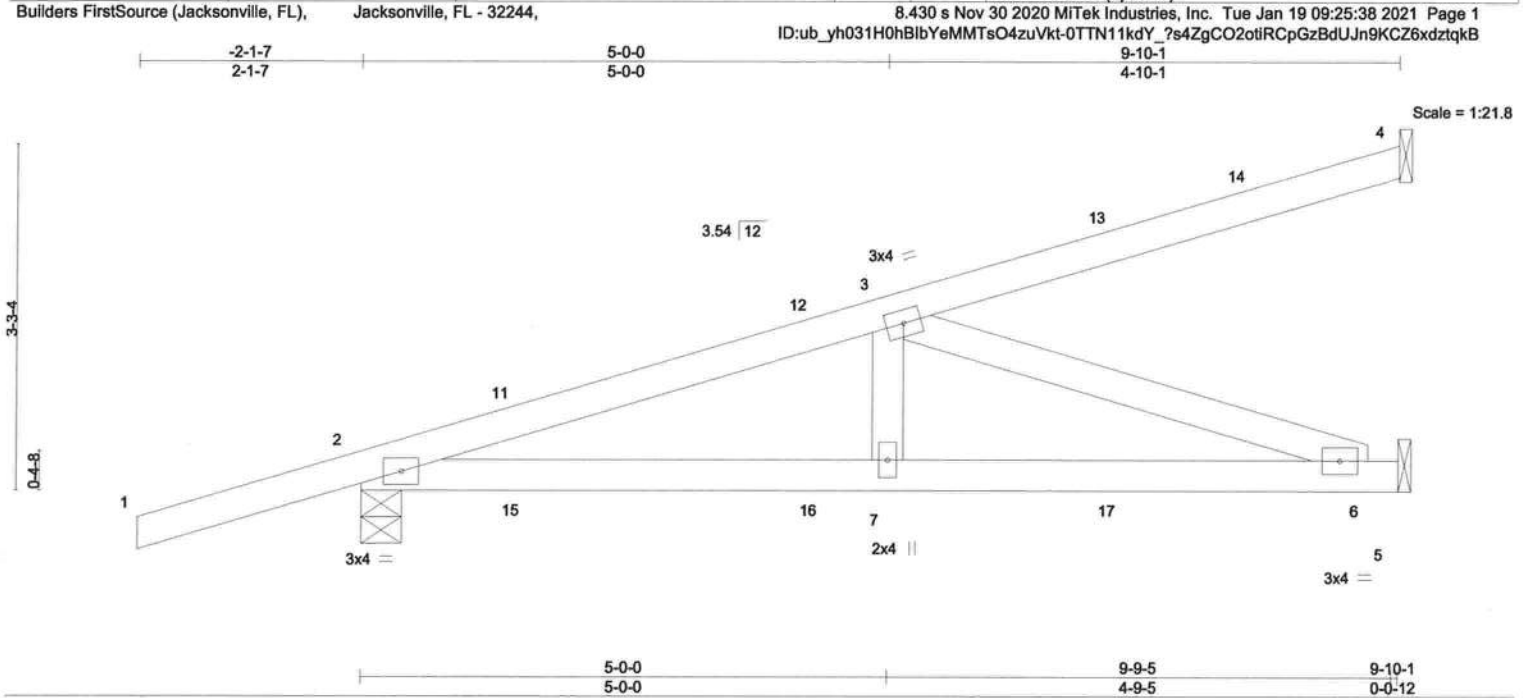
January 19,20:

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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2564966	HJ10	Diagonal Hip Girder	6	1	EVANSTON CONT - AREA 30	T22511171
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,			Job Reference (optional)			



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.04	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.10				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 42 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz	2=132(LC 22)
Max Uplift	4=-70(LC 4), 2=-153(LC 4), 5=-57(LC 8)
Max Grav	4=151(LC 1), 2=473(LC 1), 5=315(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-818/180
BOT CHORD	2-7=-218/766, 6-7=-218/766
WEBS	3-7=0/253, 3-6=-809/231

- 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; 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 70 lb uplift at joint 4, 153 lb uplift at joint 2 and 57 lb uplift at joint 5.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 92 lb up at 1-6-1, 55 lb down and 92 lb up at 1-6-1, 28 lb down and 37 lb up at 4-4-0, 28 lb down and 37 lb up at 4-4-0, and 55 lb down and 77 lb up at 7-1-15, and 55 lb down and 77 lb up at 7-1-15 on top chord, and 14 lb down and 50 lb up at 1-6-1, 14 lb down and 50 lb up at 1-6-1, 21 lb down at 4-4-0, 21 lb down at 4-4-0, and 39 lb down at 7-1-15, and 39 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-4=-60, 5-8=-20	
Concentrated Loads (lb)	
Vert: 11=57(F=29, B=29) 13=-79(F=-39, B=-39) 15=62(F=31, B=31) 16=-7(F=-4, B=-4) 17=-63(F=-31, B=-31)	



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January 19,20:

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JOID	Truss	Truss Type	Qty	Ply	EVANSTON CONT - AREA 30	T22511172
2564966	KW1	GABLE	1	1	Job Reference (optional)	

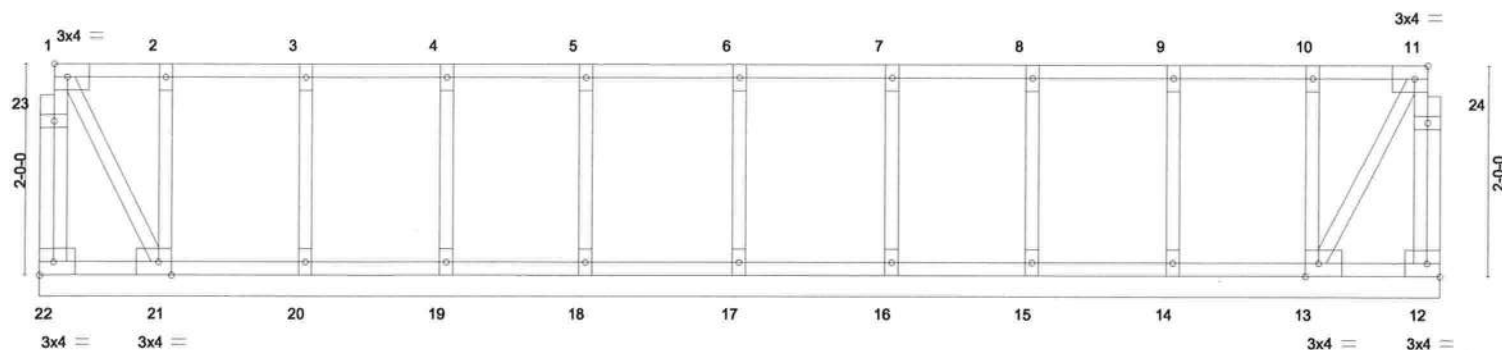
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:39 2021 Page 1
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0-1-8

0-1-8

Scale = 1:21.9



1-2-4	2-6-4	3-10-4	5-2-4	6-7-11	8-1-2	9-5-2	10-9-2	12-1-2	13-3-6
1-2-4	1-4-0	1-4-0	1-4-0	1-5-7	1-5-7	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)- [11:0-1-8,Edge], [13:0-1-8,Edge], [21:0-1-8,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 0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 78 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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 21-22,12-13.

REACTIONS. All bearings 13-3-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 13, 17, 14, 15, 16, 20, 19, 18

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.



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Date:

January 19,20:

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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6904 Parke East Blvd.
Tampa, FL 33610

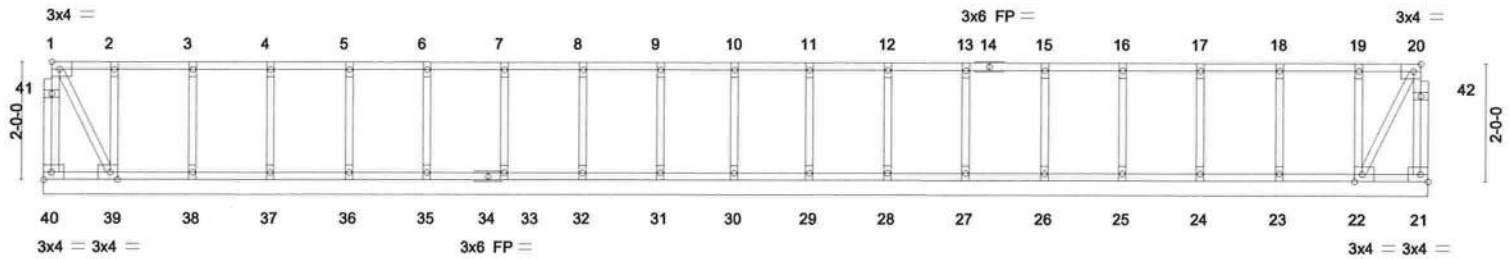
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:45 2021 Page 1
ID:ub_yh031H0hBlbYeMMTsO4zuVkt-lqO0VQq0u8usQeiY10QWVv_6NoildZ_Axol_hjztqk4

0-1-8

0-1-8

Scale = 1:39.3



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-2-4	10-6-4	11-9-8	13-0-12	14-4-12	15-8-12	17-0-12	18-4-12	19-8-12	21-0-12	22-4-12	23-7-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-3-4	1-3-4	1-4-0	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)– [20:0-1-8,Edge], [22:0-1-8,Edge], [39:0-1-8,Edge]																	
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/def		L/d		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL 1.00		TC 0.08		Vert(LL)		n/a -		n/a		999		MT20		244/190	
TCDL	15.0	Lumber DOL 1.00		BC 0.02		Vert(CT)		n/a -		n/a		999					
BCLL	0.0	Rep Stress Incr YES		WB 0.04		Horz(CT)		-0.00 22		n/a		n/a					
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S										Weight: 130 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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 39-40,21-22.

REACTIONS. All bearings 23-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 22, 30, 23, 24, 25, 26, 27, 28, 29, 38, 37, 36, 35, 33, 32, 31

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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
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Date:

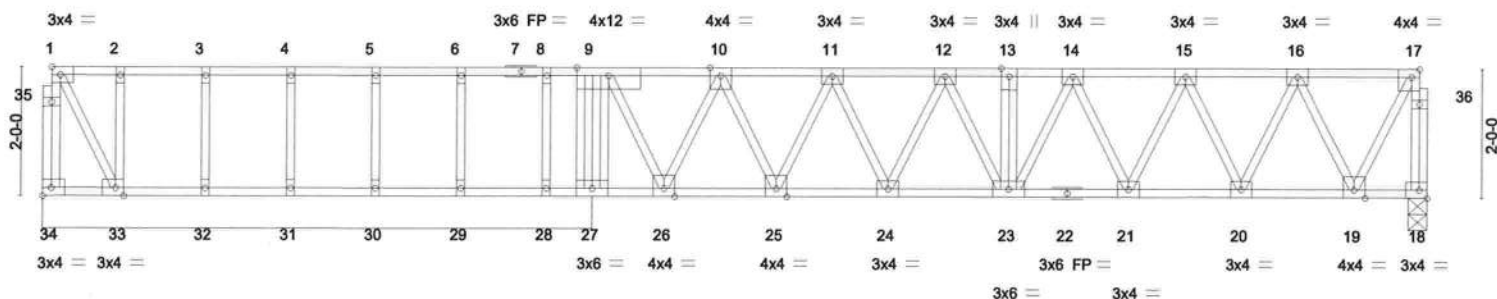
January 19,20:

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:47 2021 Page 1
ID:ub_yh031H0hBibYeMMTsO4zuVkt-FCWnv6rGQl8agysxQRS_aK4QFbM55NITP6E5mcztqk2

0-1-8
0-10-8 1-2-8 1-2-8 1-2-8 1-2-8 1-2-8 0-4-15

0-1-8
Scale = 1:35.9



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-8-7	11-5-7	21-6-15
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-10-3	1-9-0	10-1-8

Plate Offsets (X,Y)-- [17:0-1-8,Edge], [33:0-1-8,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 0.25	Vert(LL)	-0.03	23	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.15	Vert(CT)	-0.04	23	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.01	18	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S							
									Weight: 149 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 6-0-0 oc bracing.

REACTIONS. All bearings 8-6-15 except (jt=length) 18=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 28 except 34=483(LC 4)
Max Grav All reactions 250 lb or less at joint(s) 32, 31, 30, 29, 28 except 18=784(LC 4), 27=1001(LC 1), 33=673(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-34=0/491, 17-18=-776/0, 1-2=0/286, 2-3=0/286, 3-4=0/286, 4-5=0/286, 5-6=0/286, 6-8=0/286, 8-9=0/286, 10-11=-747/0, 11-12=-1112/0, 12-13=-1282/0, 13-14=-1282/0, 14-15=-1188/0, 15-16=-893/0, 16-17=-374/0
BOT CHORD 32-33=-286/0, 31-32=-286/0, 30-31=-286/0, 29-30=-286/0, 28-29=-286/0, 27-28=-286/0, 26-27=-269/0, 25-26=0/501, 24-25=0/975, 23-24=0/1233, 21-23=0/1274, 20-21=0/1085, 19-20=0/685
WEBS 17-19=0/777, 16-19=-737/0, 16-20=0/493, 15-20=-452/0, 12-24=-286/0, 11-24=0/325, 11-25=-540/0, 9-27=-932/0, 1-33=-575/0, 10-25=0/583, 10-26=-805/0, 9-26=0/851

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28 except (jt=lb) 34=483.
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.



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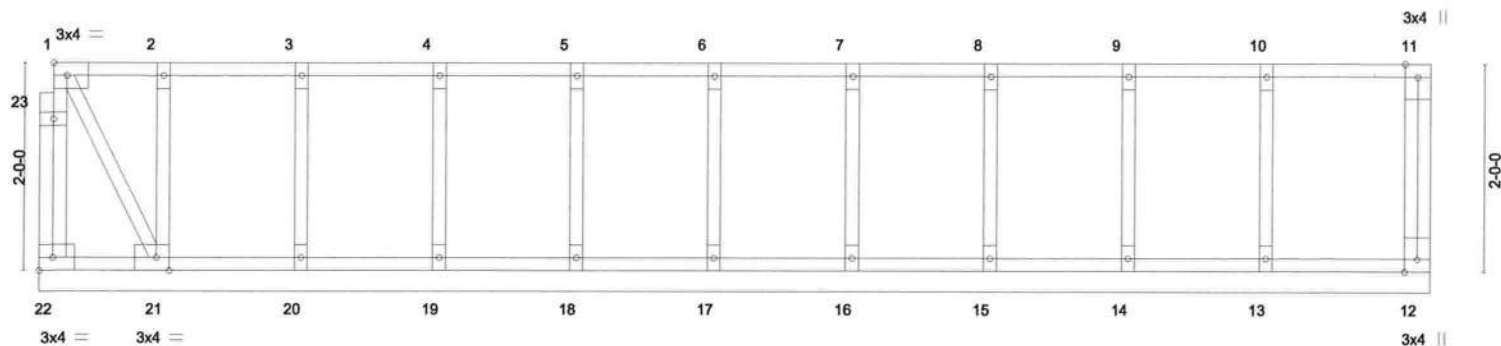
JOB	TRUSS	TRUSS TYPE	Qty	Ply	EVANSTON COURT - AREA 38	T22511175
2564966	KW4	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:48 2021 Page 1
ID:ub_yh031H0hBibYeMMTsO4zuVktJO497RsvB3GRH6R7_8zD6Ycd57kLqwc dem_el2ztqk1

0-1-8

Scale = 1:22.2



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-2-4	10-6-4	11-10-4	13-5-6
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-2

Plate Offsets (X,Y)-- [21:0-1-8,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 0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 76 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 13-5-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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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0-1-8

Scale = 1:14.1

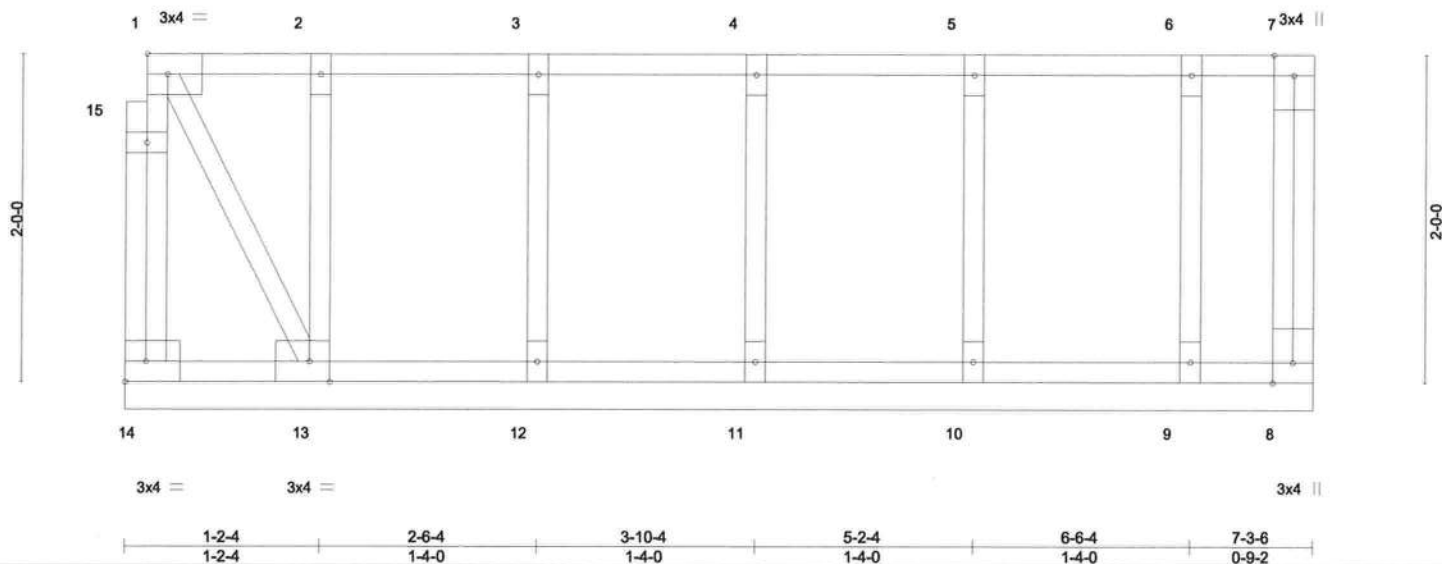


Plate Offsets (X,Y)- [13:0-1-8,Edge]

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 0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 48 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 7-3-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-3-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

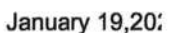
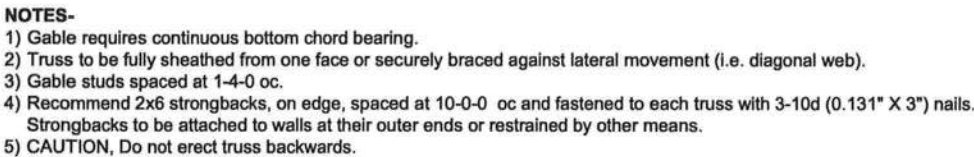
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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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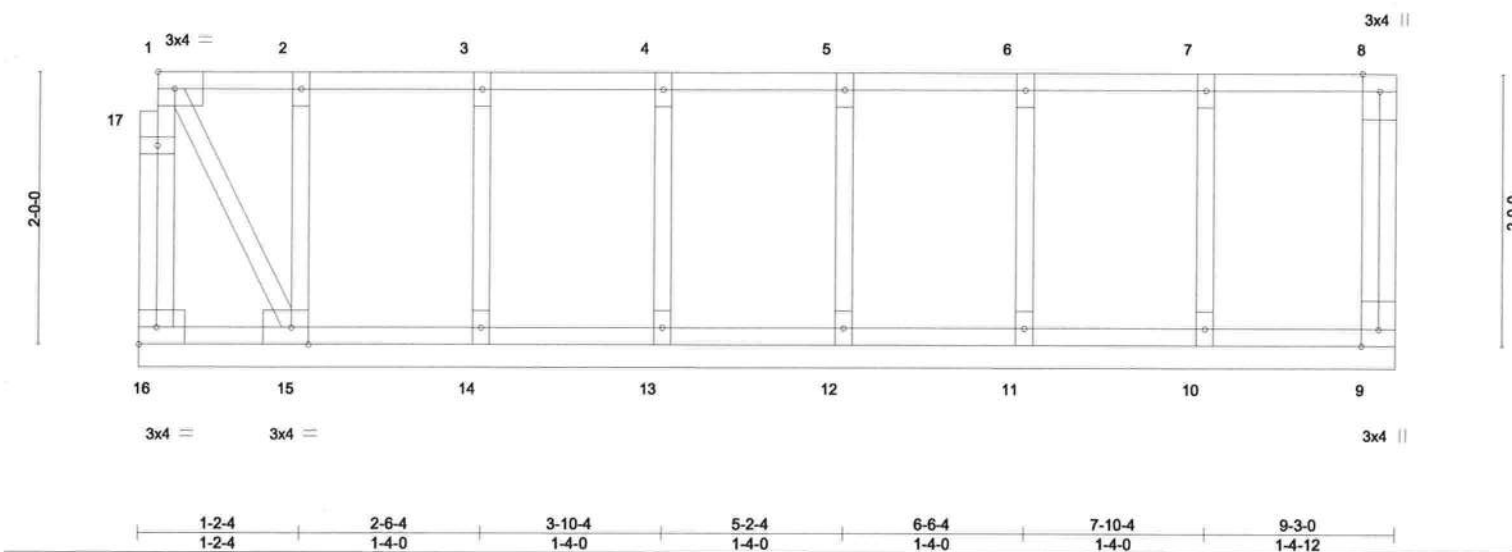
2564966	Truss	Truss Type	Qty	Ply	EVANSTON CONT - AREA 30	T22511178
	KW12	GABLE	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:40 2021 Page 1
ID:ub_yh031H0hBibYeMMTsO4zuVkt-ysb8Rimt3bGZKtqbWTqLosHGSn?XyliRoW2D0Wztqk9

0-1-8

Scale = 1:17.0



LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 15.0	Lumber DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S						Weight: 56 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 9-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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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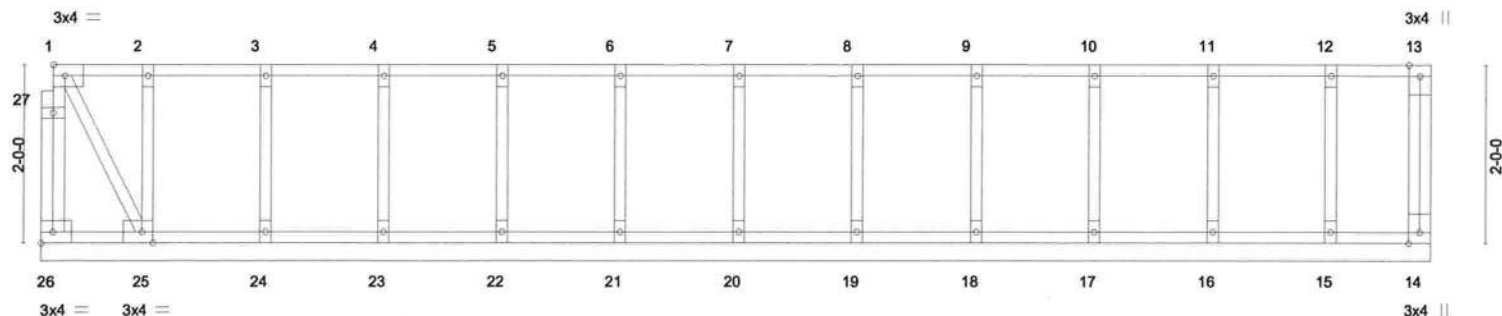
2564966	Truss	Truss Type	Qty	Ply	EVANSTON CONT - AREA 30	T22511179
	KW13	GABLE	1	1	Job Reference (optional)	

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8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:41 2021 Page 1
ID:ub_yh031H0hBibYeMMTsO4zuVkt-Q29Wf2nWqvOQy1Pn3ALaK3qQOALohI?b1AnmYyztk8

0-1-8

Scale = 1:25.9



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-2-4	10-6-4	11-10-4	13-2-4	14-6-4	15-7-7
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-1-3

Plate Offsets (X,Y)- [25:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 88 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 15-7-7.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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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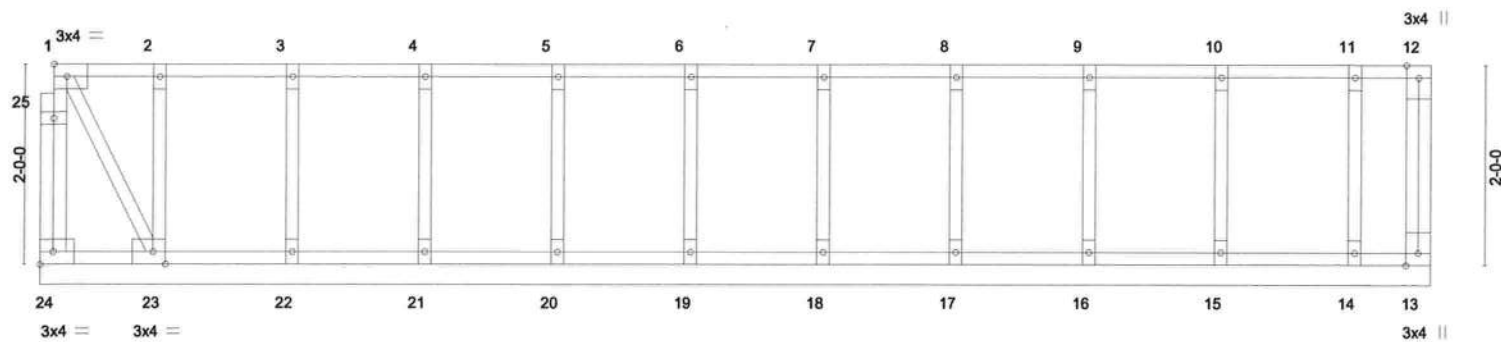
JOB	TRUSS	TRUSS TYPE	Qty	Ply	EVANSTON COURT - AREA 30	T22511180
2564966	KW14	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:42 2021 Page 1
ID:ub_yh031H0hBlbYeMMTsO4zuVkt-uFjusOn8bDWHZB_zdtpHMB5ah1QCDkFqXK4Oztqk7

0-1-8

Scale = 1:23.1



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-2-4	10-6-4	11-10-4	13-2-4	13-11-7
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-9-3

Plate Offsets (X,Y)- [23:0-1-8,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 0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 80 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 13-11-7.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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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Date:

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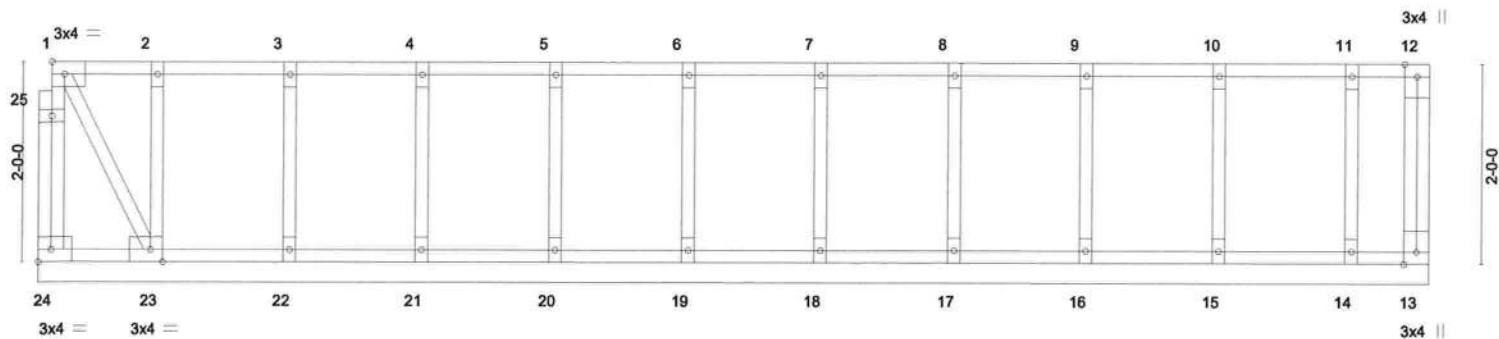
100	Truss	Truss Type	Qty	Ply	EVANSTON CONT - AREA 30	T22511181
2564966	KW15	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:25:43 2021 Page 1
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0-1-8

Scale = 1:23.1



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-2-4	10-6-4	11-10-4	13-2-4	13-11-7
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-9-3

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

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 80 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 13-11-7.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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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-1-6-0	3-11-12	7-0-0	11-10-0	16-8-0	19-8-4	23-8-0	25-2-0
1-6-0	3-11-12	3-0-4	4-10-0	4-10-0	3-0-4	3-11-12	1-6-0

Scale = 1:43.4

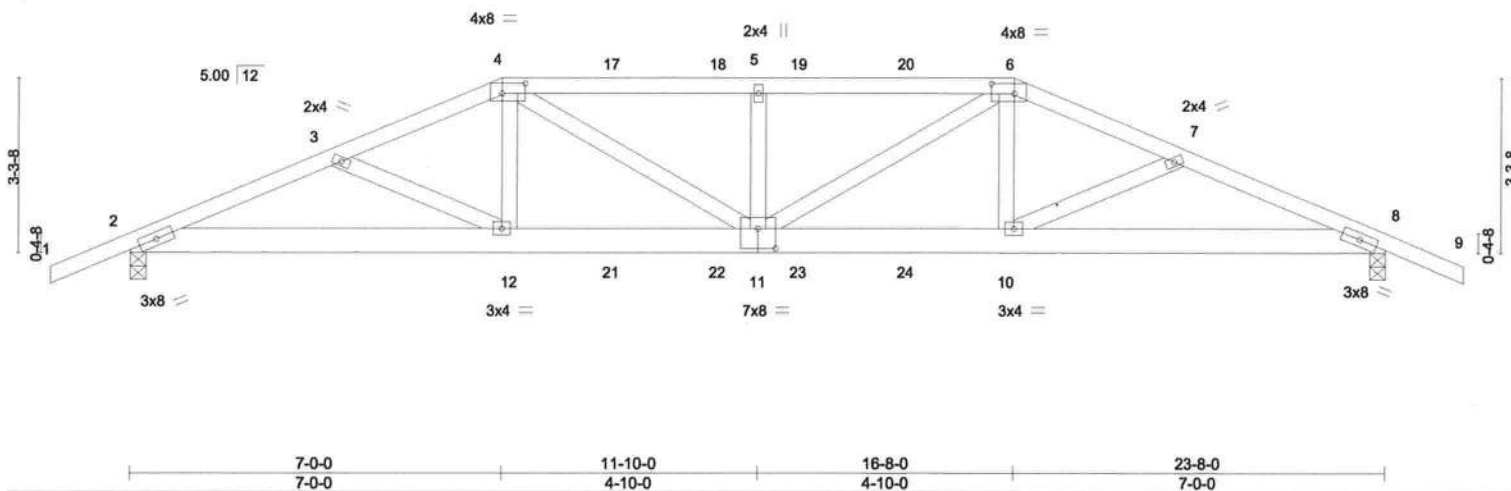


Plate Offsets (X,Y)-		[4:0-5-4,0-2-4], [6:0-5-4,0-2-4], [11:0-4-0,0-4-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40
TCDL 10.0	Lumber DOL	1.25	BC 0.86
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.38
BCDL 10.0	Code	FBC2020/TP12014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.19 11 >999 240
			Vert(CT) -0.37 11 >763 180
			Horz(CT) 0.10 8 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 134 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 4-6: 2x4 SP M 31
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-7-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 7-7-11 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-56(LC 32)
 Max Uplift 2=-473(LC 8), 8=-478(LC 9)
 Max Grav 2=1906(LC 1), 8=1933(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4221/1024, 3-4=-4025/958, 4-5=-4522/1100, 5-6=-4522/1100, 6-7=-4094/971,
 7-8=-4289/1038
 BOT CHORD 2-12=-939/3861, 11-12=-838/3726, 10-11=-825/3789, 8-10=-896/3924
 WEBS 4-12=-59/693, 4-11=-282/1001, 5-11=-676/323, 6-11=-237/911, 6-10=-59/693

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 473 lb uplift at joint 2 and 478 lb uplift at joint 8.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 95 lb up at 7-0-0, 121 lb down and 95 lb up at 9-0-12, 121 lb down and 93 lb up at 11-0-12, 121 lb down and 93 lb up at 12-7-4, and 121 lb down and 95 lb up at 14-7-4, and 234 lb down and 173 lb up at 16-8-0 on top chord, and 354 lb down and 84 lb up at 7-0-0, 88 lb down at 9-0-12, 88 lb down at 11-0-12, 88 lb down at 12-7-4, and 88 lb down at 14-7-4, and 354 lb down and 84 lb up at 16-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

Continued on page 2



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ID	Truss	Truss Type	Qty	Ply	Job Reference (optional)	
2564966	T01	Hip Girder	1	1		T22511182

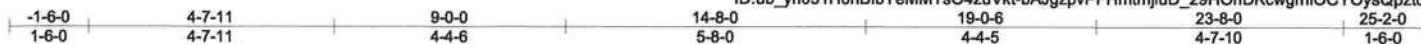
LOAD CASE(S) Standard
Concentrated Loads (lb)

Vert: 4=-121(B) 6=-187(B) 12=-354(B) 10=-354(B) 17=-121(B) 18=-121(B) 19=-121(B) 20=-121(B) 21=-67(B) 22=-67(B) 23=-67(B) 24=-67(B)

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Scale = 1:43.4

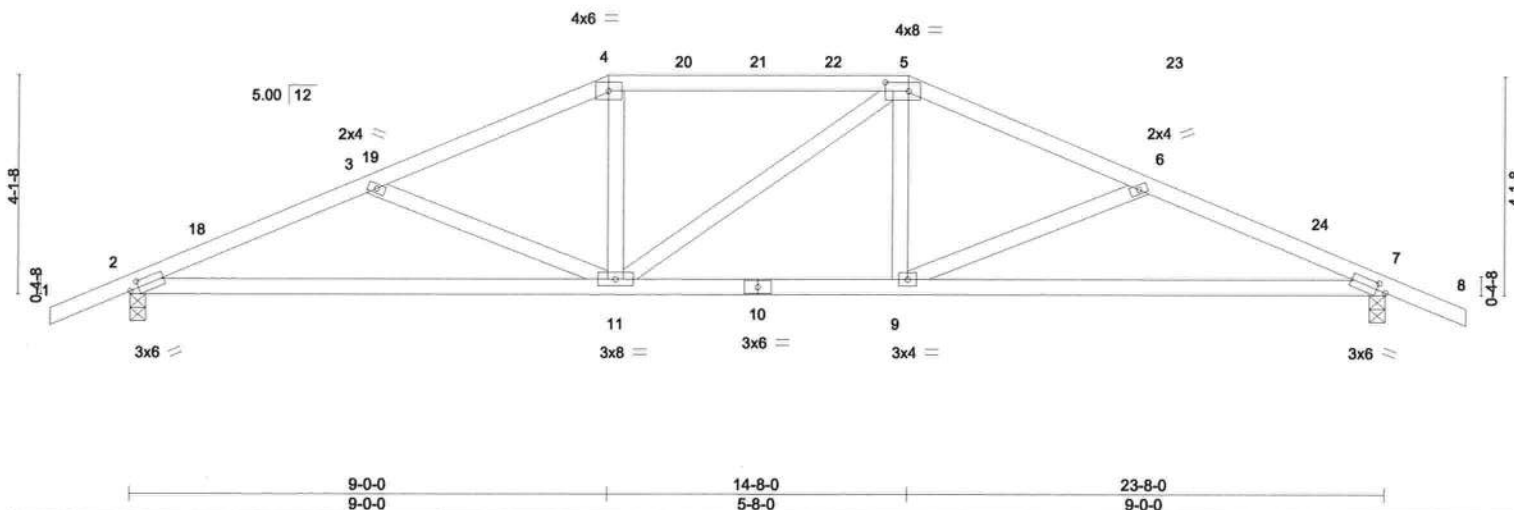


Plate Offsets (X,Y)- [2:0-2-1,0-1-8], [5:0-5-4,0-2-0], [7:0-2-1,0-1-8]

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	9-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.34	9-17	>839	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.06	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS						Weight: 112 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-1-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-1-10 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=-70(LC 17)
 Max Uplift 2=-247(LC 12), 7=-247(LC 13)
 Max Grav 2=1037(LC 1), 7=1037(LC 1)

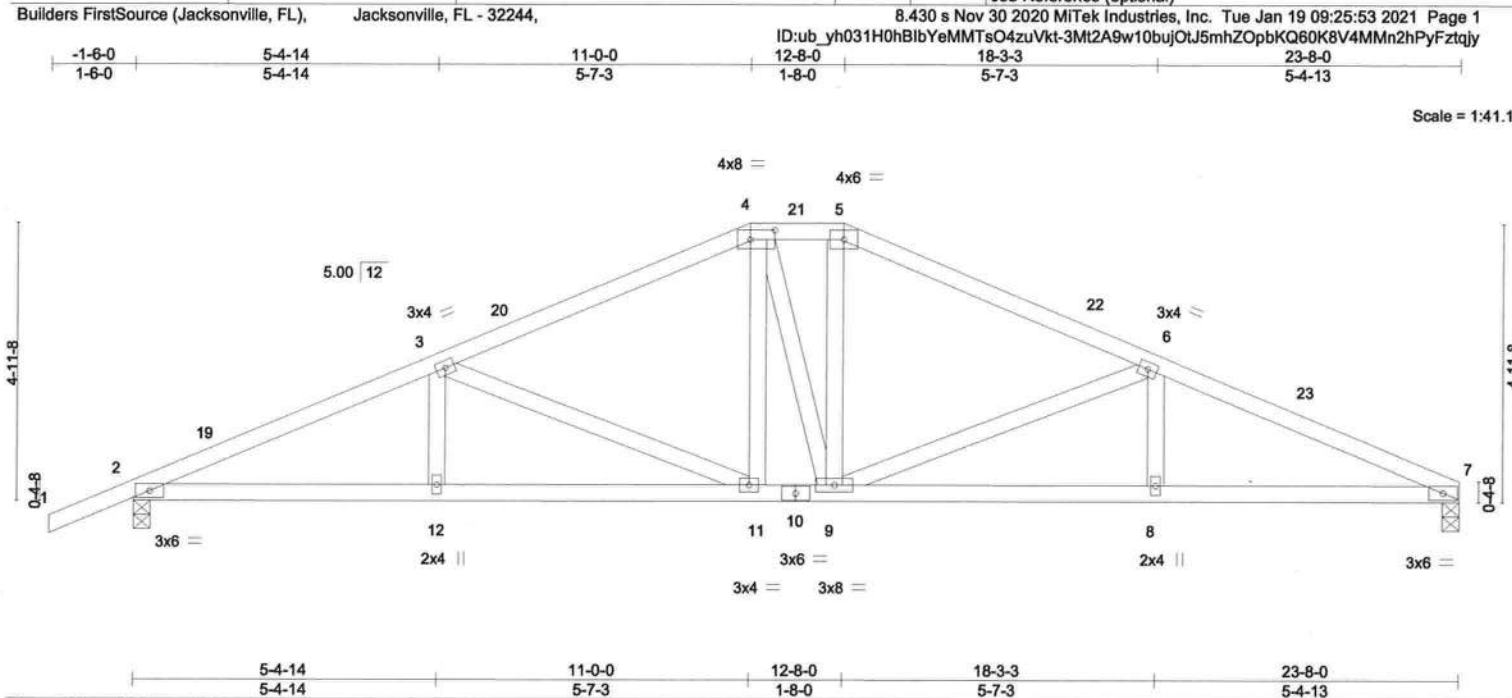
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1911/455, 3-4=-1568/363, 4-5=-1407/363, 5-6=-1567/363, 6-7=-1911/455
 BOT CHORD 2-11=-414/1740, 9-11=-229/1407, 7-9=-367/1740
 WEBS 3-11=-375/189, 4-11=-28/357, 5-9=-30/357, 6-9=-375/189

- 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 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 14-8-0, Exterior(2R) 14-8-0 to 18-10-15, Interior(1) 18-10-15 to 25-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) 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 247 lb uplift at joint 2 and 247 lb uplift at joint 7.



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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.08 11-12 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.18 11-12 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.06 7 n/a n/a				
BCDL	10.0	Code	FBC2020/TP12014	Matrix-MS							
								Weight: 119 lb		FT = 20%	

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-11-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-3-11 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
 Max Horz 2=92(LC 12)
 Max Uplift 7=209(LC 13), 2=245(LC 12)
 Max Grav 7=944(LC 1), 2=1040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1950/415, 3-4=-1374/328, 4-5=-1213/329, 5-6=-1376/330, 6-7=-1971/423
 BOT CHORD 2-12=-403/1755, 11-12=-403/1755, 9-11=-197/1211, 8-9=-344/1777, 7-8=-344/1777
 WEBS 3-11=-605/225, 4-11=-62/305, 5-9=-72/311, 6-9=-627/236

- 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., GCpl=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 11-0-0, Exterior(2E) 11-0-0 to 12-8-0, Exterior(2R) 12-8-0 to 16-10-15, Interior(1) 16-10-15 to 23-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) 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 209 lb uplift at joint 7 and 245 lb uplift at joint 2.



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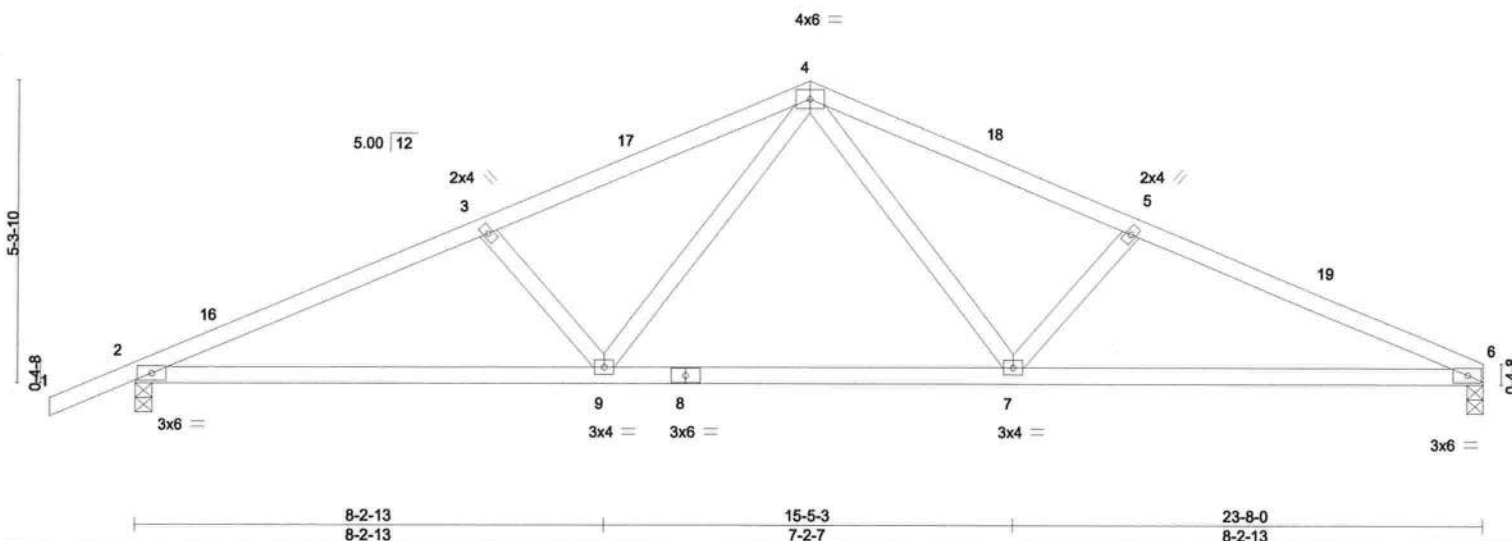
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-1-6-0 6-2-1 11-10-0 17-5-15 23-8-0
 1-6-0 6-2-1 5-7-15 5-7-15 6-2-1

Scale = 1:40.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.43	Vert(LL)	-0.10	7-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.69	Vert(CT)	-0.25	7-12	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT)	0.05	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS							
								Weight: 103 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-3-13 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
 Max Horz 2=98(LC 12)
 Max Uplift 6=-208(LC 13), 2=-244(LC 12)
 Max Grav 6=944(LC 1), 2=1040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1874/477, 3-4=-1637/441, 4-5=-1649/450, 5-6=-1876/484
 BOT CHORD 2-9=-397/1681, 7-9=-210/1125, 6-7=-394/1697
 WEBS 4-7=-155/577, 5-7=-392/214, 4-9=-147/560, 3-9=-383/209

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpl=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 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior(1) 14-10-0 to 23-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 6 and 244 lb uplift at joint 2.



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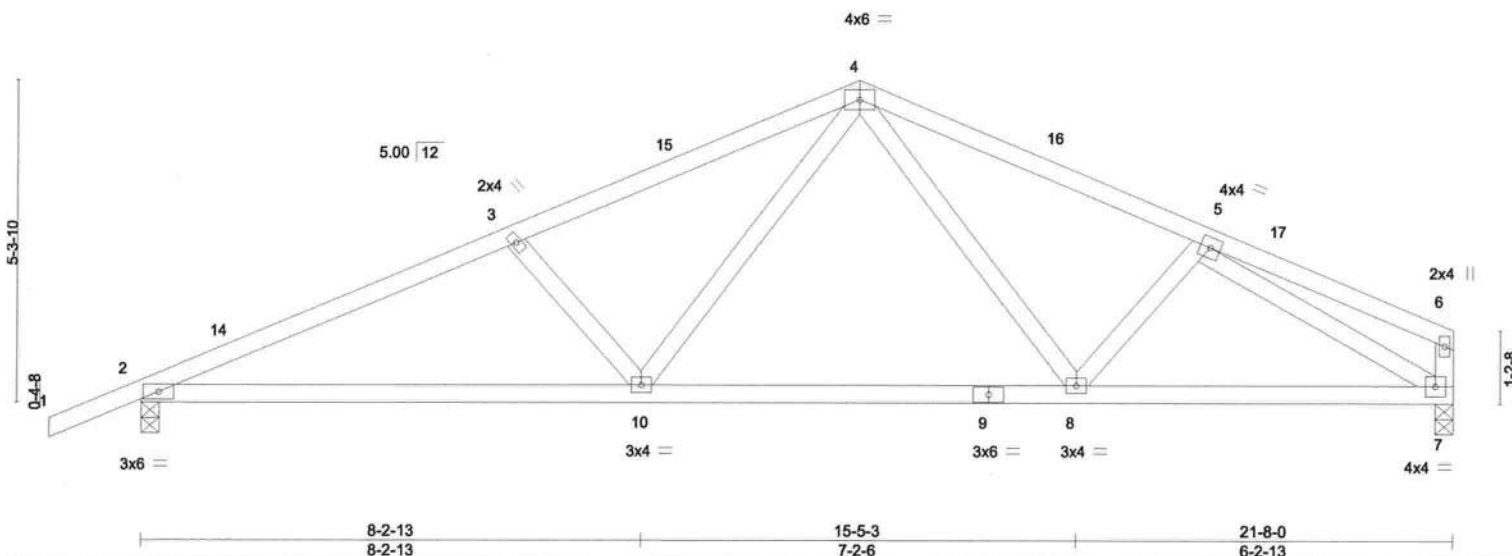
JOB	TRUSS	TRUSS TYPE	Qty	Ply	EVANSTON CONT - AREA 30	T22511186
2564966	T05	Common	5	1	Job Reference (optional)	

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-1-6-0 6-2-1 11-10-0 17-6-0 21-8-0
1-6-0 6-2-1 5-7-15 5-8-0 4-1-15

Scale = 1:38.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	Vert(LL)	-0.10	10-13	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.67	Vert(CT)	-0.22	10-13	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.54	Horz(CT)	0.04	7	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS							
	Code FBC2020/TPI2014								
								Weight: 105 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-6 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=116(LC 12)
Max Uplift 2=-232(LC 12), 7=-179(LC 13)
Max Grav 2=954(LC 1), 7=858(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1648/447, 3-4=-1424/409, 4-5=-1213/363
BOT CHORD 2-10=-395/1484, 8-10=-199/921, 7-8=-291/1102
WEBS 3-10=-383/210, 4-10=-147/569, 4-8=-79/283, 5-7=-1223/337

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 11-10-0, Exterior(2R) 11-10-0 to 14-10-0, Interior(1) 14-10-0 to 21-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 2 and 179 lb uplift at joint 7.

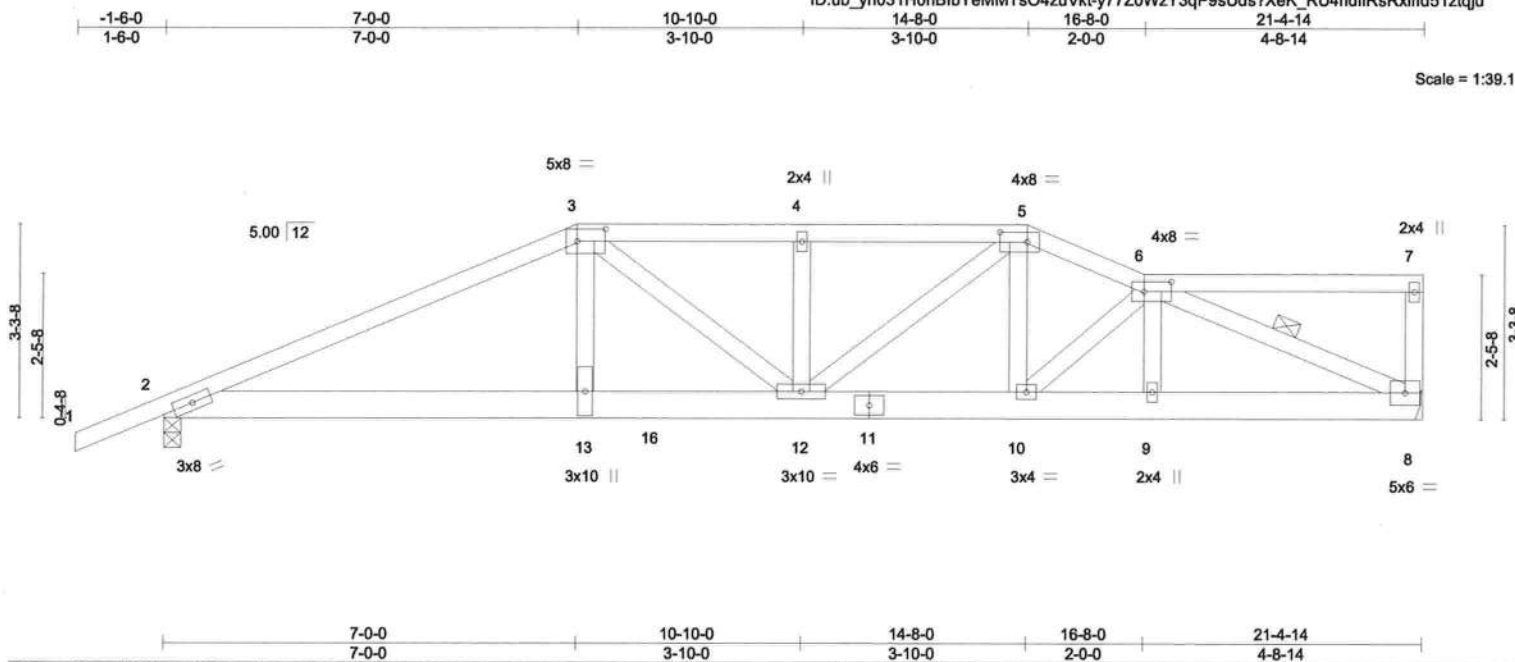


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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	Vert(LL)	-0.13 12-13	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.58	Vert(CT)	-0.25 12-13	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.58	Horz(CT)	0.06 8	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code FBC2020/TP12014						Weight: 125 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-3: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins, except end verticals.
BOT CHORD 2x6 SP M 26 *Except* 8-11: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-2-7 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-8

REACTIONS. (size) 8=Mechanical, 2=0-3-8
 Max Horz 2=110(LC 27)
 Max Uplift 8=-348(LC 5), 2=-441(LC 4)
 Max Grav 8=1372(LC 1), 2=1835(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3968/964, 3-4=-3454/896, 4-5=-3454/896, 5-6=-2749/696
 BOT CHORD 2-13=-886/3592, 12-13=-898/3654, 10-12=-628/2527, 9-10=-639/2565, 8-9=-635/2561
 WEBS 3-13=-248/1248, 3-12=-318/226, 5-12=-326/1234, 6-8=-2736/674

- 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., GCp=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 348 lb uplift at joint 8 and 441 lb uplift at joint 2.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 95 lb up at 7-0-0 on top chord, and 354 lb down and 84 lb up at 7-0-0, and 942 lb down and 275 lb up at 8-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 5-6=-60, 6-7=-60, 2-8=-20



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Continued on page 2

2564966	T06	Roof Special Girder	1	1	EVANSTON COURT - AREA 30	T22511187
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LOAD CASE(S) Standard

Concentrated Loads (lb)

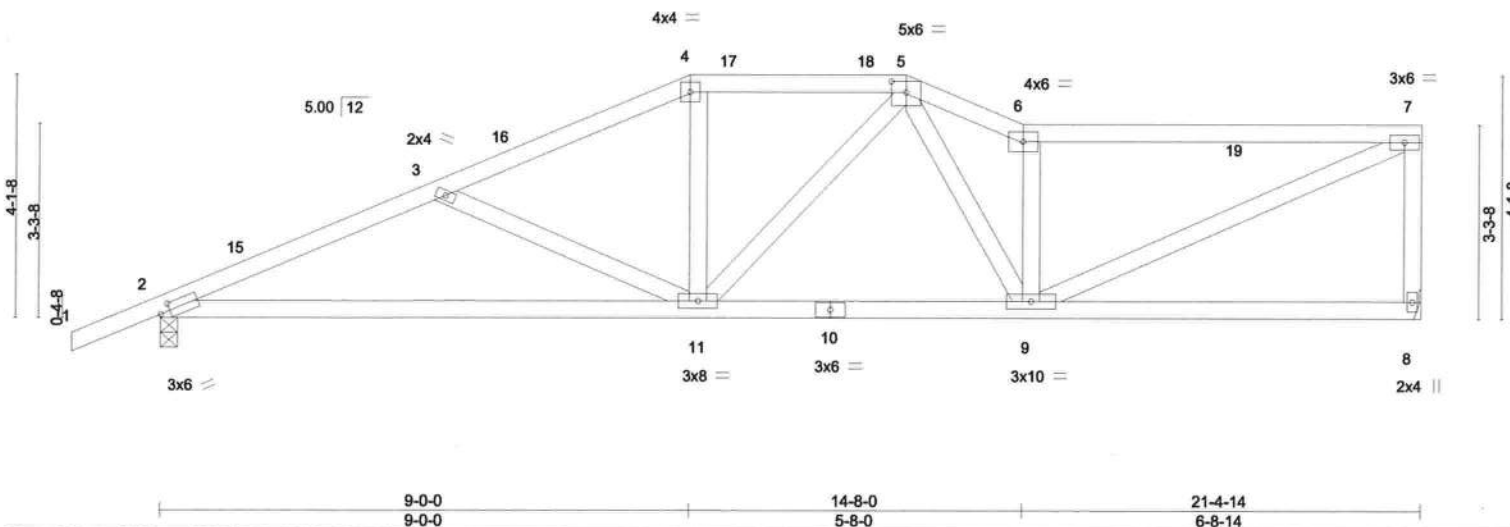
Vert: 3=-121(F) 13=-354(F) 16=-942(F)

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LOADING (psf)		SPACING-		CSI.	DEFL.				PLATES	GRIP
					in	(loc)	l/defl	L/d		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.15	11-14	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.31	11-14	>814	180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.03	8	n/a	n/a
BCDL	10.0	Code	FBC2020/TP12014	Matrix-MS						
Weight: 111 lb										FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-3-4 oc bracing.

REACTIONS. (size) 8=Mechanical, 2=0-3-8
 Max Horz 2=140(LC 12)
 Max Uplift 8=204(LC 9), 2=-207(LC 12)
 Max Grav 8=847(LC 1), 2=944(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1670/480, 3-4=-1326/373, 4-5=-1182/374, 5-6=-1495/442, 6-7=-1304/370, 7-8=-781/257
 BOT CHORD 2-11=-507/1517, 9-11=-333/1133
 WEBS 3-11=-384/192, 4-11=-18/317, 5-9=-133/444, 6-9=-855/296, 7-9=-391/1378

- 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 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior(1) 12-0-0 to 12-8-0, Exterior(2E) 12-8-0 to 14-8-0, Interior(1) 14-8-0 to 21-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 8 and 207 lb uplift at joint 2.



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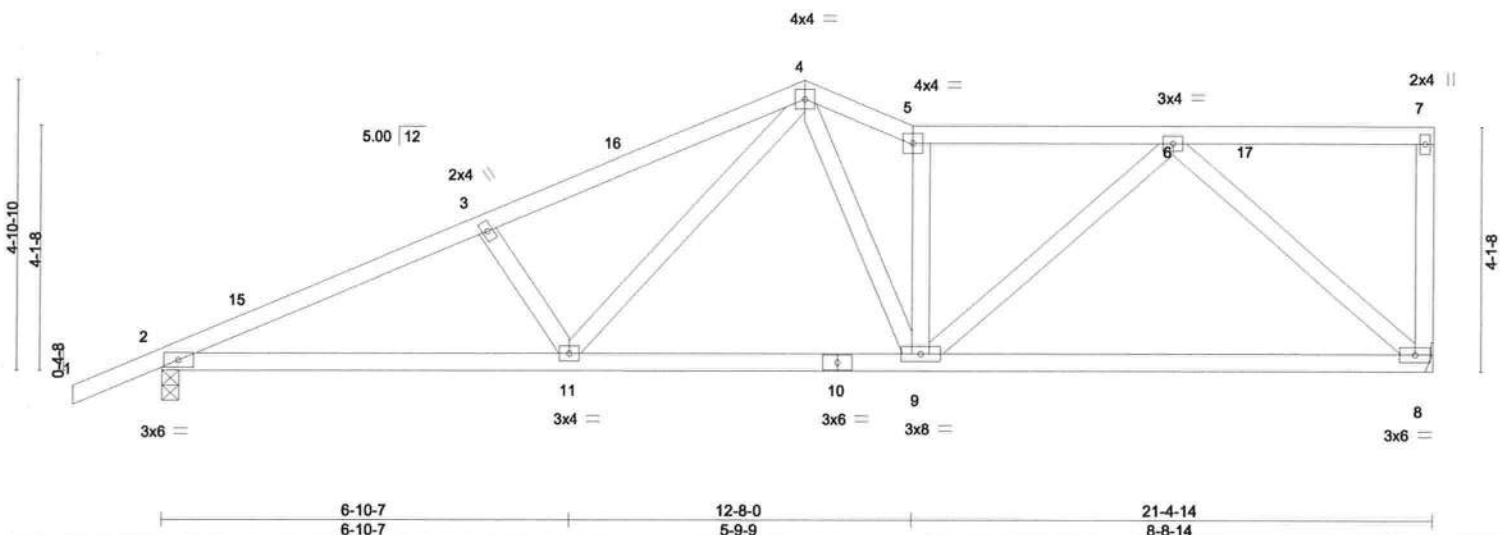
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-1-6-0 5-5-14 10-10-0 12-8-0 17-0-7 21-4-14
 1-6-0 5-5-14 5-4-2 1-10-0 4-4-7 4-4-7

Scale = 1:38.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	Vert(LL)	-0.15	8-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.65	Vert(CT)	-0.32	8-9	>809	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT)	0.04	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS							
								Weight: 114 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 4-4-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-6-4 oc bracing.

REACTIONS. (size) 8=Mechanical, 2=0-3-8
 Max Horz 2=170(LC 12)
 Max Uplift 8=200(LC 9), 2=217(LC 12)
 Max Grav 8=847(LC 1), 2=944(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1680/427, 3-4=-1514/416, 4-5=-1280/357, 5-6=-1152/314
 BOT CHORD 2-11=-483/1508, 9-11=-294/995, 8-9=-231/754
 WEBS 3-11=-331/184, 4-11=-165/525, 4-9=-103/491, 5-9=-616/187, 6-9=-112/537, 6-8=-989/313

- 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., GCpl=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 10-10-0, Exterior(2E) 10-10-0 to 12-8-0, Interior(1) 12-8-0 to 21-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 8 and 217 lb uplift at joint 2.



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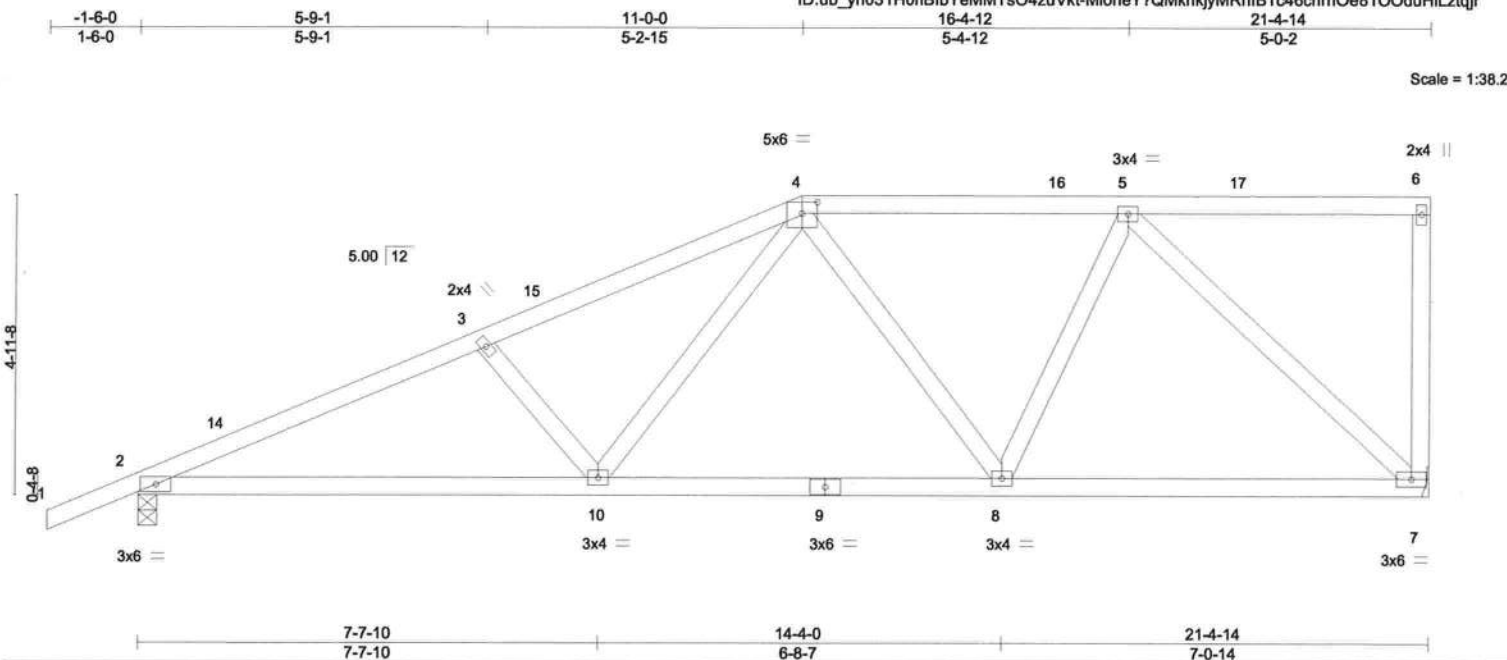


Plate Offsets (X,Y)- [4:0-3-0,0-2-4]

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)	-0.08 10-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.17 10-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(CT)	0.04 7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 112 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 4-4-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-4-7 oc bracing.

REACTIONS.

(size) 7=Mechanical, 2=0-3-8
 Max Horz 2=188(LC 12)
 Max Uplift 7=219(LC 8), 2=245(LC 12)
 Max Grav 7=847(LC 1), 2=944(LC 1)

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

TOP CHORD 2-3=-1658/412, 3-4=-1443/375, 4-5=-848/220
 BOT CHORD 2-10=-496/1485, 8-10=-298/970, 7-8=-192/709
 WEBS 3-10=-344/190, 4-10=-134/509, 5-8=-70/392, 5-7=-963/267

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., GCpl=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 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 21-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 7 and 245 lb uplift at joint 2.



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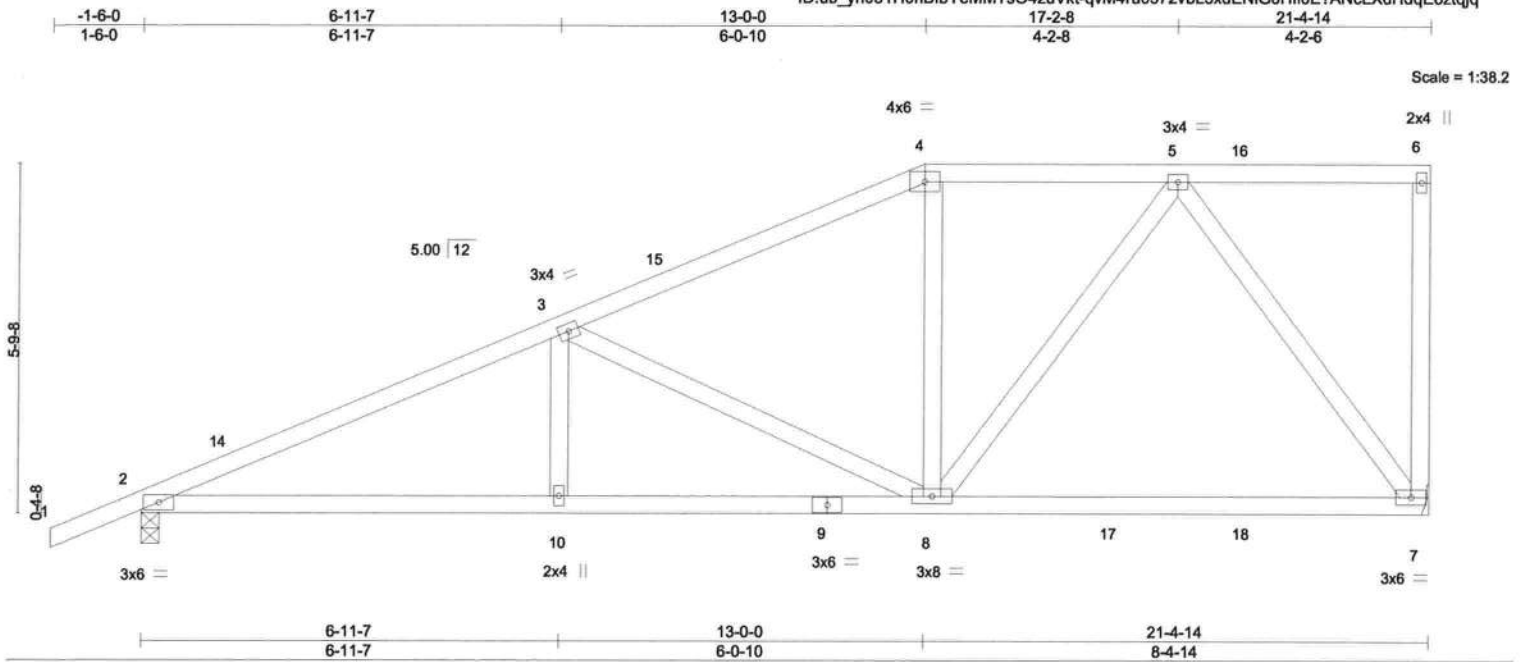
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.19	7-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.33	7-8	>774	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.04	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 116 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-4-8 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 7=Mechanical, 2=0-3-8
 Max Horz 2=219(LC 12)
 Max Uplift 7=-213(LC 8), 2=-241(LC 12)
 Max Grav 7=928(LC 2), 2=988(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1700/375, 3-4=-1021/224, 4-5=-882/237
 BOT CHORD 2-10=-482/1533, 8-10=-482/1533, 7-8=-151/534
 WEBS 3-8=-726/270, 5-8=-145/587, 5-7=-865/257

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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 13-0-0, Exterior(2R) 13-0-0 to 17-2-8, Interior(1) 17-2-8 to 21-3-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 7 and 241 lb uplift at joint 2.



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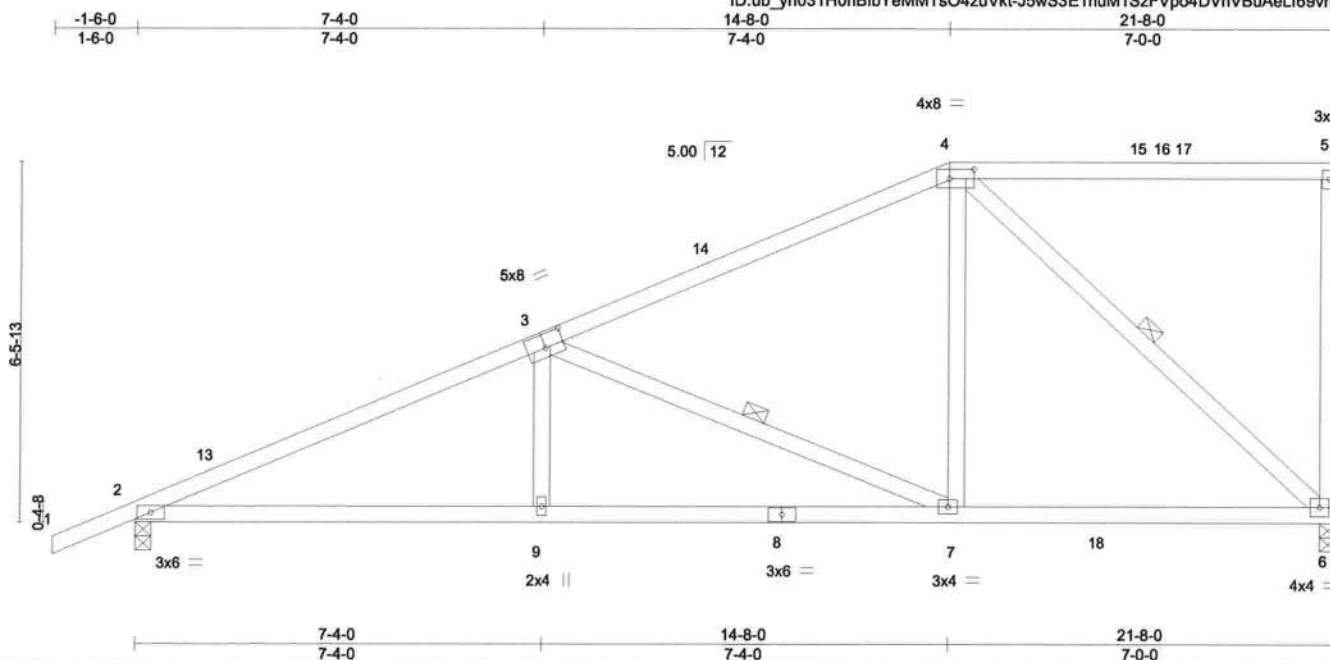
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Job	Truss	Truss Type	Qty	Ply	EVANSTON COURT - AREA 30	T22511192
2564966	T11	Half Hip	1	1	Job Reference (optional)	

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Scale = 1:41.5

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.10	9-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	-0.20	9-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.05	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS						Weight: 115 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-13 oc bracing.
WEBS 1 Row at midpt 3-7, 4-6

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=244(LC 12)
Max Uplift 6=221(LC 12), 2=239(LC 12)
Max Grav 6=941(LC 2), 2=1002(LC 2)

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

TOP CHORD 2-3=-1730/367, 3-4=-888/183
BOT CHORD 2-9=-498/1560, 7-9=-498/1560, 6-7=-211/763
WEBS 3-9=0/307, 3-7=-880/313, 4-7=-71/639, 4-6=-1001/280

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 14-8-0, Exterior(2R) 14-8-0 to 18-10-15, Interior(1) 18-10-15 to 21-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 6 and 239 lb uplift at joint 2.



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Date:

January 19,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

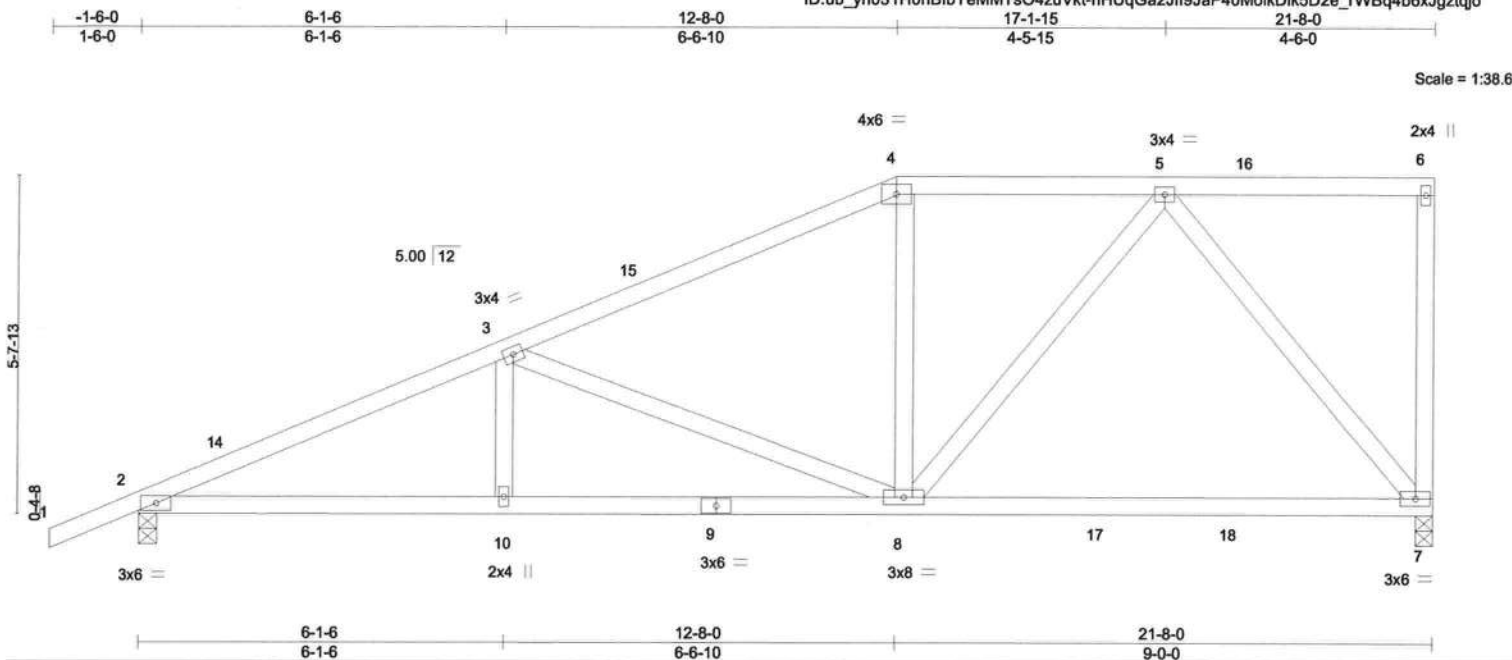
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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ID:ub_yh031H0hBibYeMMTsO4zuVkt-nHUqGa2Jff9JaP40MolkDik5D2e_rWBq4b6xJgztqjo



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)	-0.24	7-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.41	7-8	>624	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.04	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 117 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-11 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=214(LC 12)
Max Uplift 7=-217(LC 8), 2=-244(LC 12)
Max Grav 7=939(LC 2), 2=999(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1797/402, 3-4=-1102/237, 4-5=-956/253
BOT CHORD 2-10=-512/1630, 8-10=-512/1630, 7-8=-164/586
WEBS 3-8=-727/275, 5-8=-141/586, 5-7=-892/263

- 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 12-8-0, Exterior(2R) 12-8-0 to 17-1-15, Interior(1) 17-1-15 to 21-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 7 and 244 lb uplift at joint 2.



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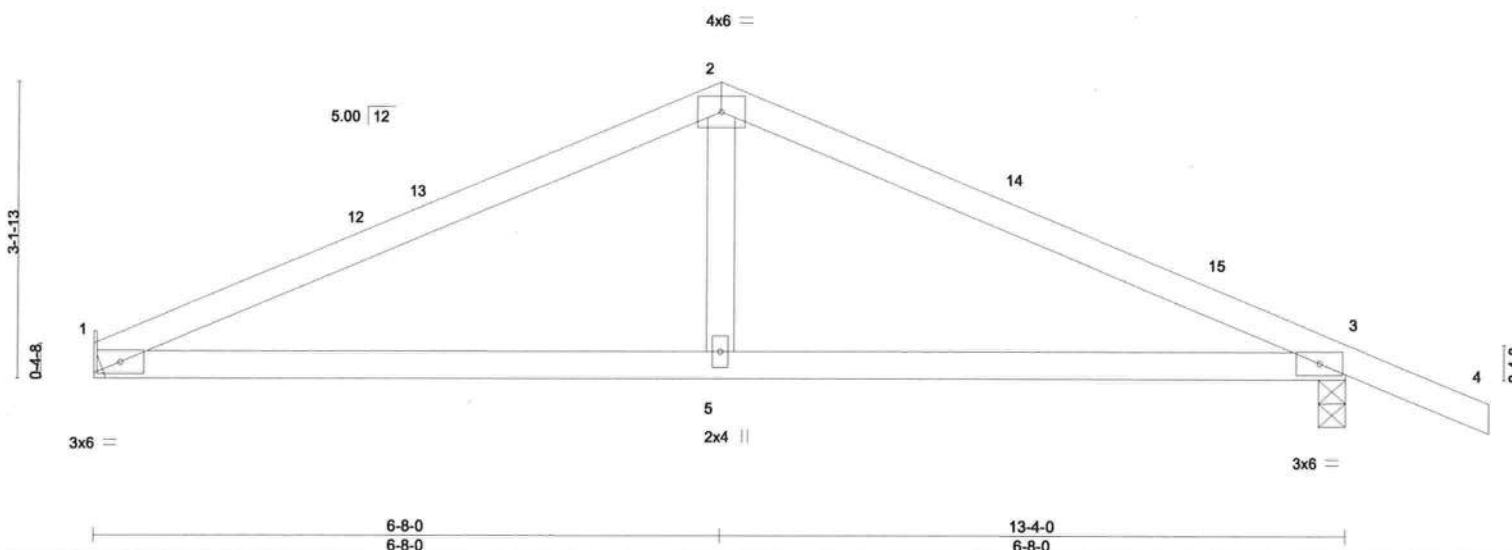
8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:26:03 2021 Page 1
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6-8-0
6-8-0

13-4-0
6-8-0

14-10-0
1-6-0

Scale = 1:24.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.54	Vert(LL)	-0.07	5-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.13	5-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 48 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 5-2-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 3=0-3-8
Max Horz 1=-64(LC 13)
Max Uplift 1=-117(LC 12), 3=-154(LC 13)
Max Grav 1=528(LC 1), 3=628(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-841/330, 2-3=-842/320
BOT CHORD 1-5=-198/715, 3-5=-198/715
WEBS 2-5=-10/309

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-8-0, Exterior(2R) 6-8-0 to 9-8-0, Interior(1) 9-8-0 to 14-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 1 and 154 lb uplift at joint 3.



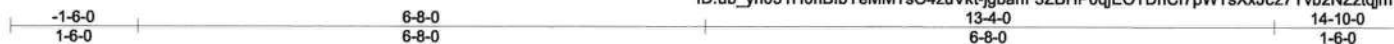
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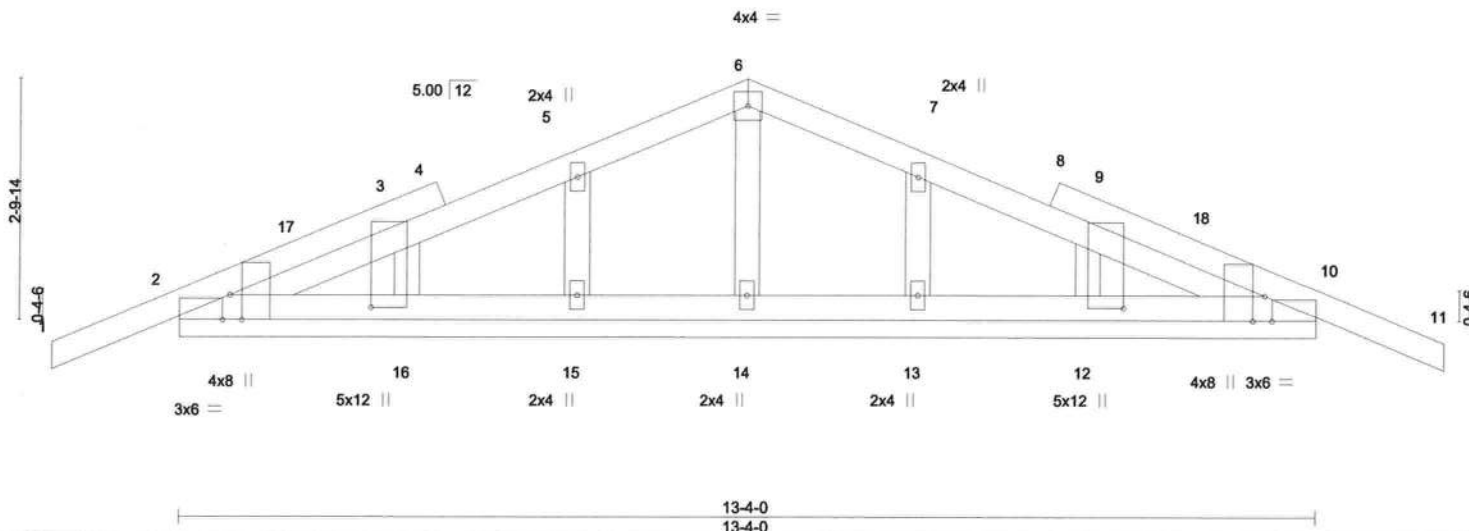


Plate Offsets (X,Y)- [2:0-3-8,Edge], [2:0-1-1,Edge], [10:0-3-8,Edge], [10:0-1-1,Edge], [12:0-1-12,1-7-15], [16:0-1-12,1-7-15]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.01	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 64 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. All bearings 13-4-0.
 (lb) - Max Horz 2=49(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-8-0, Corner(3R) 6-8-0 to 9-8-0, Exterior(2N) 9-8-0 to 14-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.



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Job	Truss	Truss type	Qty	Ply	EVANSTON CONT - AREA 3B	T22511196
2564966	T14	Common	2	1	Job Reference (optional)	

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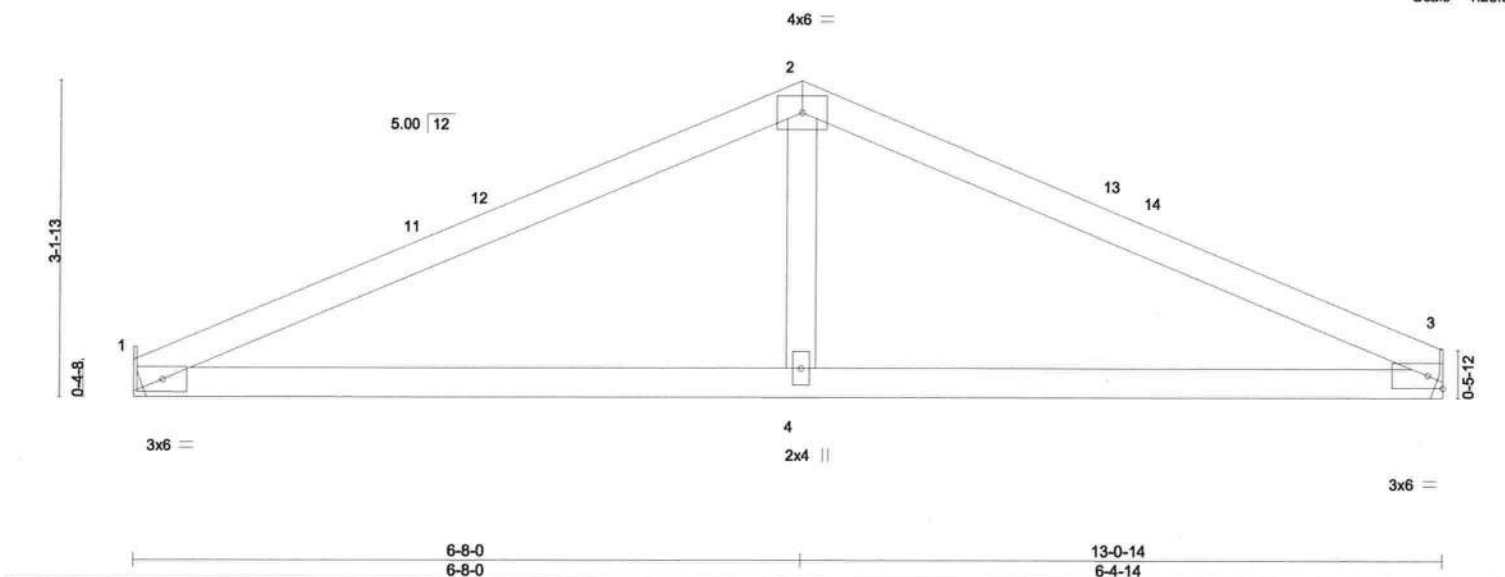
6-8-0

6-8-0

13-0-14

6-4-14

Scale = 1:23.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(LL)	-0.07	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.14	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 45 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 5-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 3=Mechanical
Max Horz 1=46(LC 12)
Max Uplift 1=-116(LC 12), 3=-114(LC 13)
Max Grav 1=523(LC 1), 3=523(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-822/330, 2-3=-826/332
BOT CHORD 1-4=-233/698, 3-4=-233/698
WEBS 2-4=-9/299

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCPl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-8-0, Exterior(2R) 6-8-0 to 9-8-0, Interior(1) 9-8-0 to 13-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=116, 3=114.



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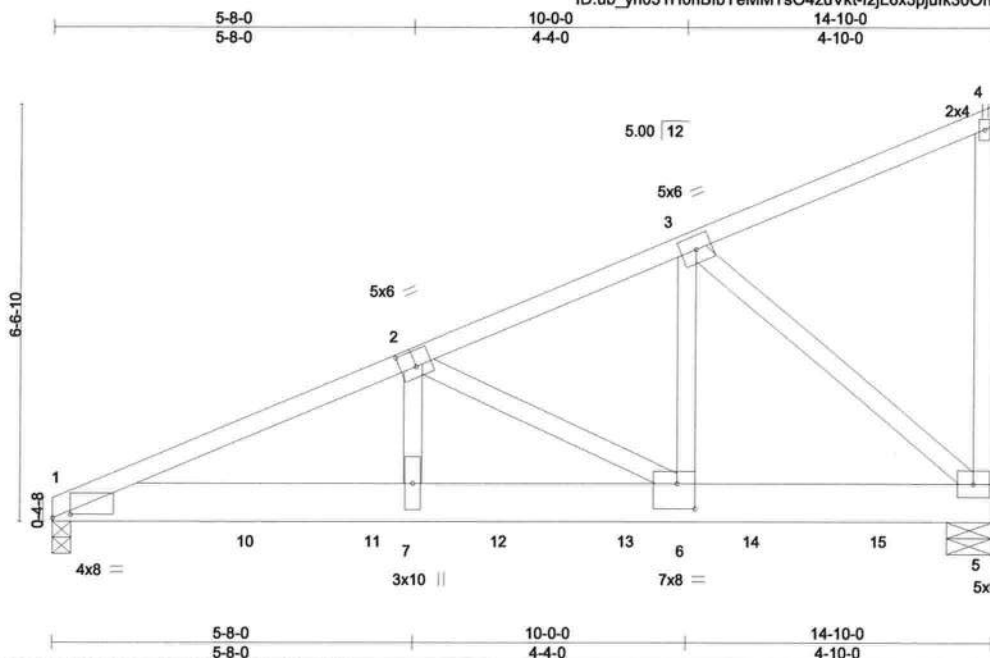
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Scale = 1:36.3

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

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	Vert(LL)	-0.06	7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.30	Vert(CT)	-0.12	7-9	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.70	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code FBC2020/TP12014						Weight: 203 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-8-8
Max Horz 1=222(LC 8)
Max Uplift 1=826(LC 8), 5=952(LC 8)
Max Grav 1=3394(LC 1), 5=3437(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6480/1578, 2-3=-3400/811
BOT CHORD 1-7=-1622/5948, 6-7=-1624/5957, 5-6=-849/3098
WEBS 2-7=-581/2429, 2-6=-3226/875, 3-6=-911/3663, 3-5=-4086/1118

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - 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; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=826, 5=952.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 504 lb down and 133 lb up at 1-0-12, 503 lb down and 134 lb up at 3-0-12, 1352 lb down and 368 lb up at 5-0-12, 827 lb down and 224 lb up at 7-0-12, 827 lb down and 220 lb up at 9-0-12, and 827 lb down and 239 lb up at 11-0-12, and 908 lb down and 233 lb up at 13-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 1-5=-20

Continued on page 2



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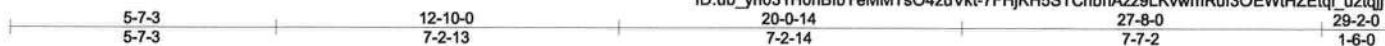
Job	Truss	Truss Type	Qty	Plt	EVANSTON CONT - AREA 30	T22511197
2564966	T15	Monopitch Girder	1	2	Job Reference (optional)	

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 9=-504(B) 10=-503(B) 11=-1352(B) 12=-827(B) 13=-827(B) 14=-827(B) 15=-827(B)

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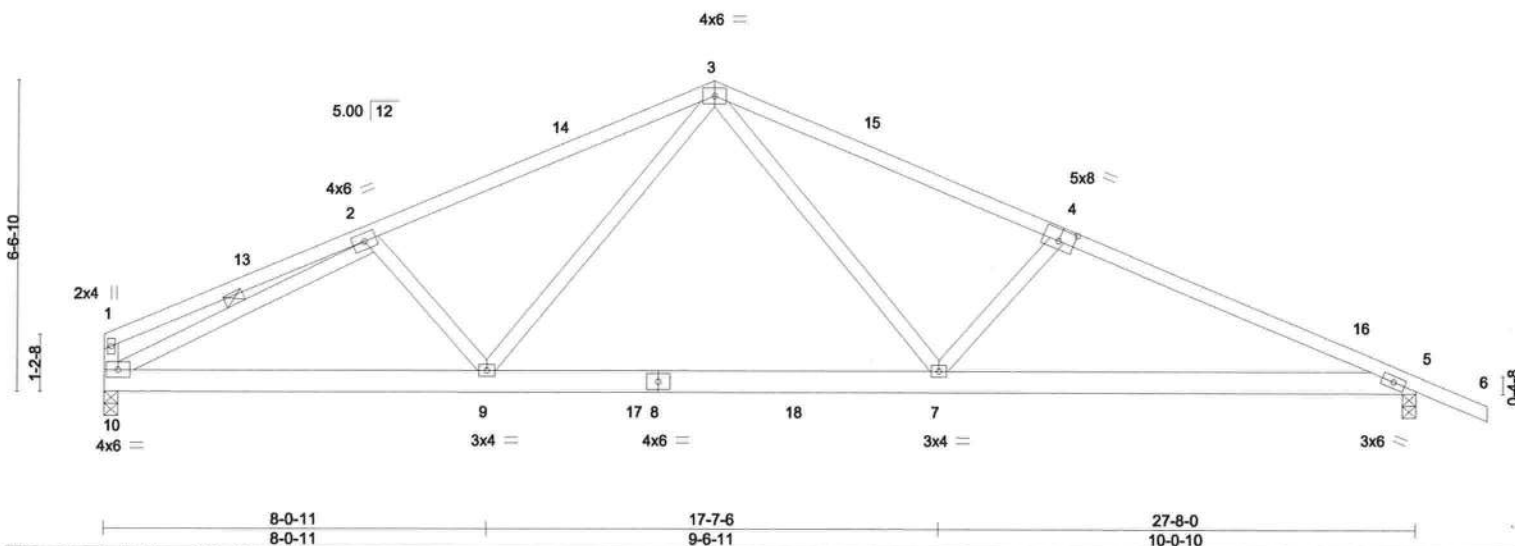


Plate Offsets (X,Y) [4:0-4,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	-0.14	7-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.28	7-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.05	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS							
									Weight: 155 lb	FT = 20%

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

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

REACTIONS. (size) 10=0-3-8, 5=0-3-8
Max Horz 10=-136(LC 13)
Max Uplift 10=-232(LC 12), 5=-285(LC 13)
Max Grav 10=1195(LC 2), 5=1270(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-268/84, 2-3=-1859/418, 3-4=-2140/462, 4-5=-2366/498
BOT CHORD 9-10=-376/1712, 7-9=-173/1334, 5-7=-386/2149
WEBS 3-9=-121/557, 3-7=-199/937, 4-7=-469/262, 2-10=-1738/363

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-10-0, Exterior(2R) 12-10-0 to 15-10-0, Interior(1) 15-10-0 to 29-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=232, 5=285.



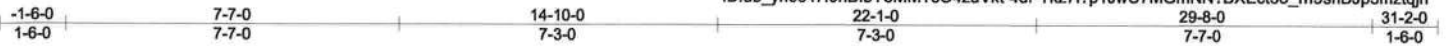
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Date:

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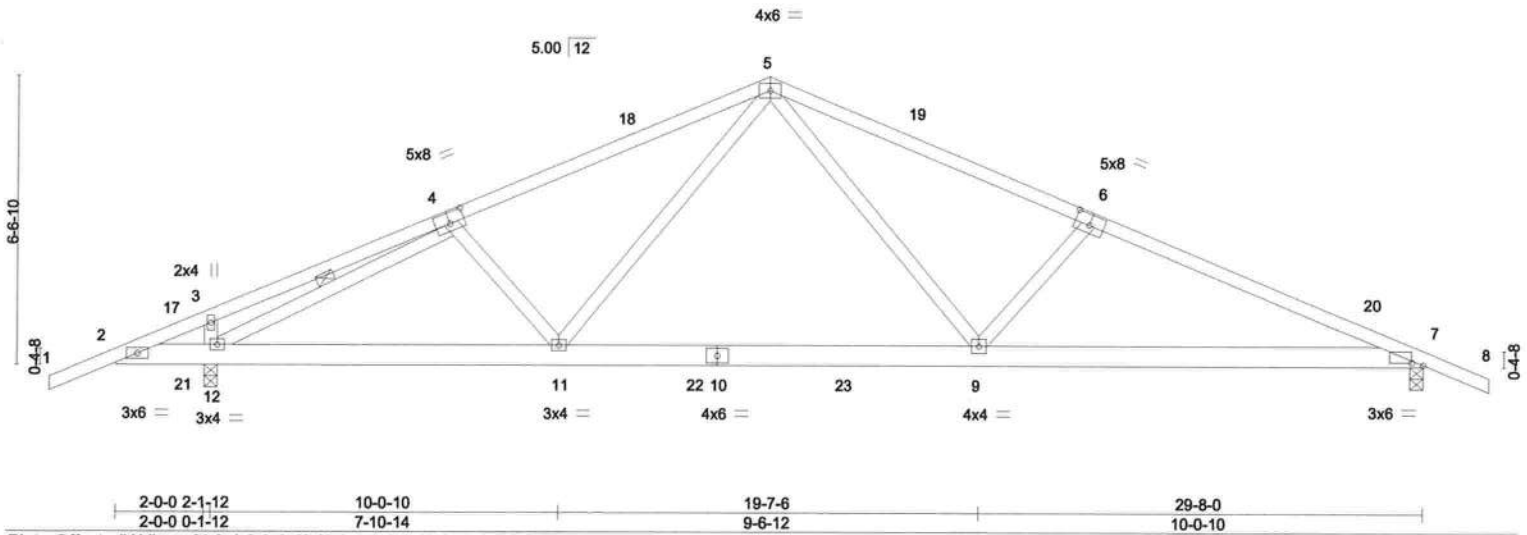


Plate Offsets (X,Y)- [4:0-4-0,0-3-0], [6:0-4-0,0-3-0], [7:0-3-0,0-0-11]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.75	Vert(LL)	-0.15	9-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.71	Vert(CT)	-0.27	9-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT)	0.05	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS							
								Weight: 165 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 WEBS 6-0-0 oc bracing: 2-12.
 1 Row at midpt 4-12

REACTIONS. (size) 12=0-3-8, 7=0-3-8
 Max Horz 12=-108(LC 13)
 Max Uplift 12=-320(LC 12), 7=-283(LC 13)
 Max Grav 12=1467(LC 2), 7=1255(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-251/196, 4-5=-1772/354, 5-6=-2103/439, 6-7=-2330/491
 BOT CHORD 2-12=-140/274, 11-12=-337/1610, 9-11=-161/1296, 7-9=-365/2115
 WEBS 5-11=-99/488, 5-9=-199/942, 6-9=-468/262, 4-12=-1902/533, 3-12=-265/142

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 14-10-0, Exterior(2R) 14-10-0 to 17-10-0, Interior(1) 17-10-0 to 31-2-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=320, 7=283.



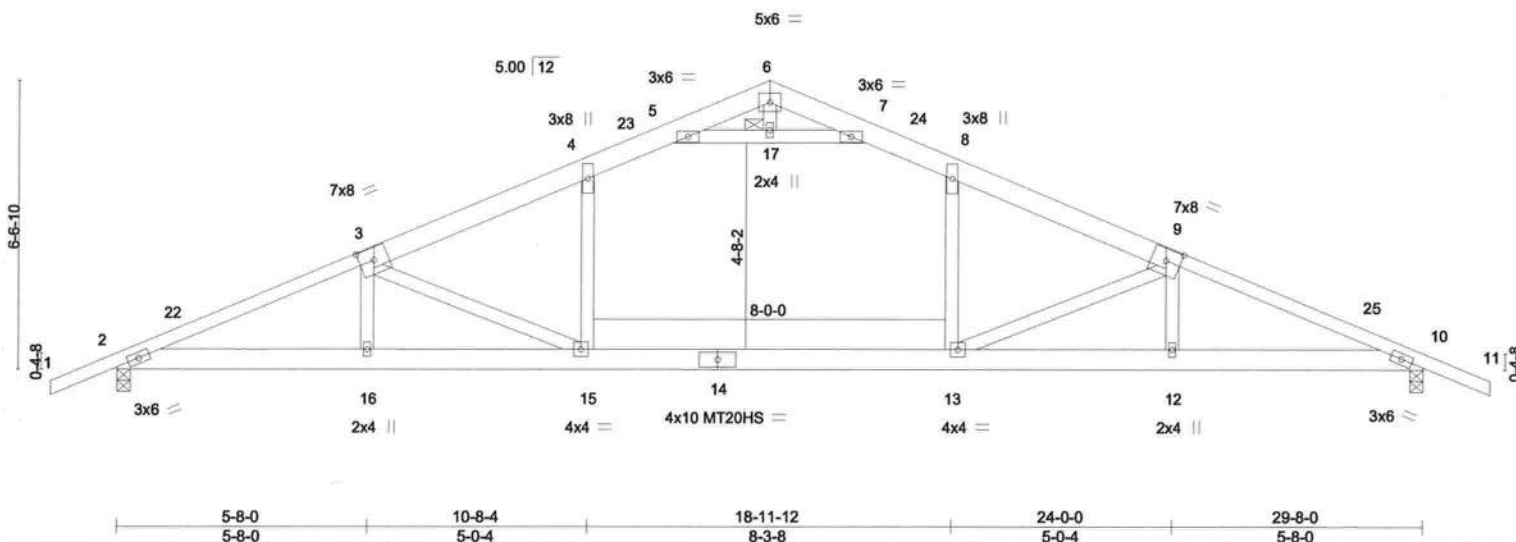
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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 Tampa, FL 33610



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.93	Vert(LL)	-0.27 13-15	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.42	Vert(CT)	-0.52 13-15	>689	180	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.25	WB 0.76	Horz(CT)	0.06 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Attic	-0.11 13-15	904	360		
	Code FBC2020/TP12014						Weight: 180 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 "Except"	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
1-3,9-11: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x6 SP M 26	JOINTS 1 Brace at Jt(s): 17
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=-106(LC 17)
 Max Uplift 2=-179(LC 12), 10=-179(LC 13)
 Max Grav 2=1530(LC 2), 10=1530(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3275/260, 3-4=-2869/129, 4-5=-2459/167, 5-6=0/470, 6-7=0/470, 7-8=-2459/167,
 8-9=-2869/129, 9-10=-3275/260
 BOT CHORD 2-16=-270/3000, 15-16=-268/3001, 13-15=-3/2561, 12-13=-162/3001, 10-12=-164/3000
 WEBS 5-17=-3120/118, 7-17=-3120/118, 4-15=0/788, 8-13=0/788, 3-15=-740/296, 6-17=0/267,
 9-13=-740/296

- 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 14-10-0, Exterior(2R) 14-10-0 to 17-10-0, Interior(1) 17-10-0 to 31-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) The Fabrication Tolerance at joint 14 = 12%
 - 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-17, 7-17; Wall dead load (5.0psf) on member(s).4-15, 8-13
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 10=179.
 - 11) Attic room checked for L/360 deflection.



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ID:ub_yh031H0hBibYeMMTsO4zuVkt-00XE9f9yXQ11AoGkOBPr5ccZggk0Sih99Vov7fztqif

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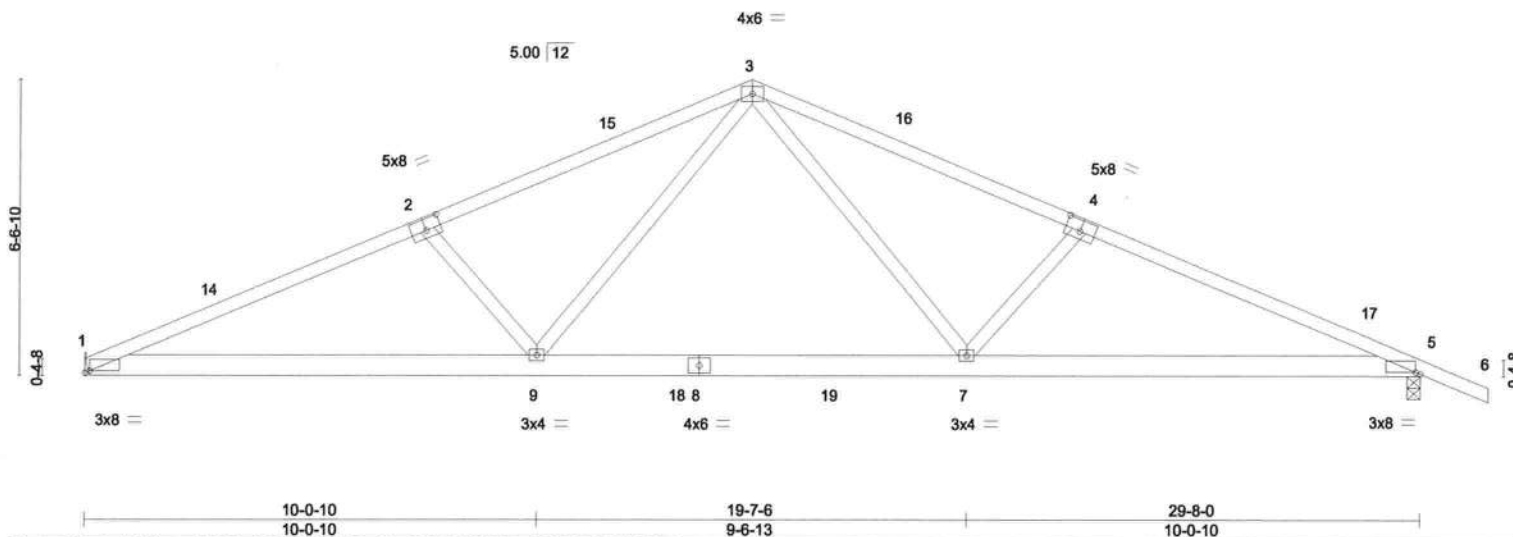


Plate Offsets (X,Y)- [1:0-1-4, Edge], [2:0-4-0, 0-3-0], [4:0-4-0, 0-3-0], [5:0-1-4, Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.78	Vert(LL)	-0.17	7-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.79	Vert(CT)	-0.34	9-11	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Horz(CT)	0.07	5	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 2x6 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=Mechanical, 5=0-3-8
Max Horz 1=-118(LC 17)
Max Uplift 1=-261(LC 12), 5=-297(LC 13)
Max Grav 1=1284(LC 2), 5=1363(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2608/534, 2-3=-2382/495, 3-4=-2373/483, 4-5=-2600/526
BOT CHORD 1-9=-513/2375, 7-9=-220/1564, 5-7=-406/2365
WEBS 3-7=-198/917, 4-7=-470/262, 3-9=-205/929, 2-9=-473/264

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-10-0, Exterior(2R) 14-10-0 to 17-10-0, Interior(1) 17-10-0 to 31-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=261, 5=297.



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JOB	TRUSS	TRUSS TYPE	Qty	Ply	EVANSTON CONT - AREA 30	T22511202
2564966	T20	Common	5	1	Job Reference (optional)	

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7-7-0	14-10-0	22-1-0	29-8-0
7-7-0	7-3-0	7-3-0	7-7-0

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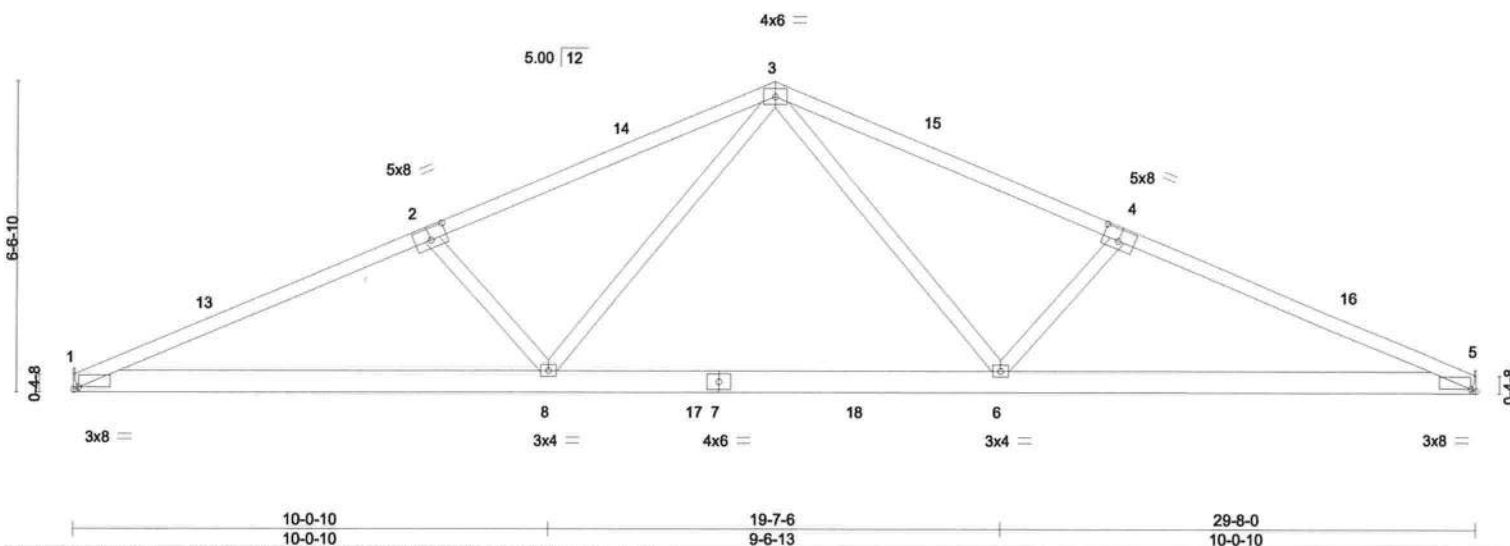


Plate Offsets (X,Y)-- [1:0-1-4,Edge], [2:0-4-0,0-3-0], [4:0-4-0,0-3-0], [5:0-1-4,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.78	Vert(LL)	-0.17	6-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.79	Vert(CT)	-0.34	8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Horz(CT)	0.07	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 151 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-11-12 oc bracing.

REACTIONS. (size) 1=Mechanical, 5=Mechanical
Max Horz 1=-98(LC 13)
Max Uplift 1=-262(LC 12), 5=-262(LC 13)
Max Grav 1=1286(LC 2), 5=1286(LC 2)

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

TOP CHORD 1-2=-2612/535, 2-3=-2386/497, 3-4=-2386/497, 4-5=-2612/534
BOT CHORD 1-8=-523/2379, 6-8=-231/1569, 5-6=-426/2379
WEBS 3-6=-205/929, 4-6=-473/264, 3-8=-205/929, 2-8=-473/264

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-10-0, Exterior(2R) 14-10-0 to 17-10-0, Interior(1) 17-10-0 to 29-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=262, 5=262.



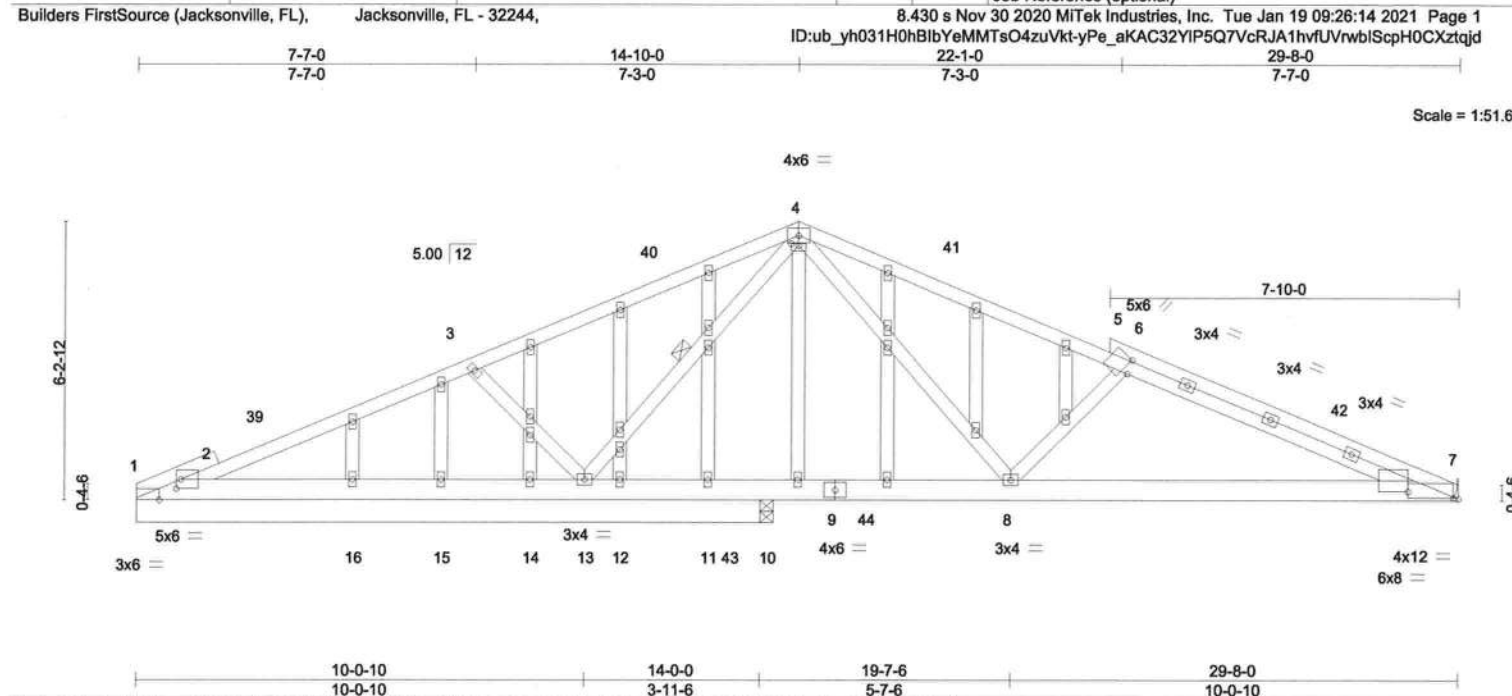
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.10 8-38 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.21 8-38 >885 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.01 7 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 205 lb		FT = 20%	

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-2-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
 WEBS 10-0-0 oc bracing: 7-8.
 1 Row at midpt 4-13

REACTIONS. All bearings 14-3-8 except (jt=length) 7=Mechanical, 10=0-3-8.
 (lb) - Max Horz 1=93(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 11, 14, 16, 10 except 7=179(LC 13), 13=395(LC 12), 15=158(LC 23)
 Max Grav All reactions 250 lb or less at joint(s) 11, 12, 14, 15 except 7=696(LC 26), 13=1334(LC 1), 16=362(LC 25), 10=250(LC 26)

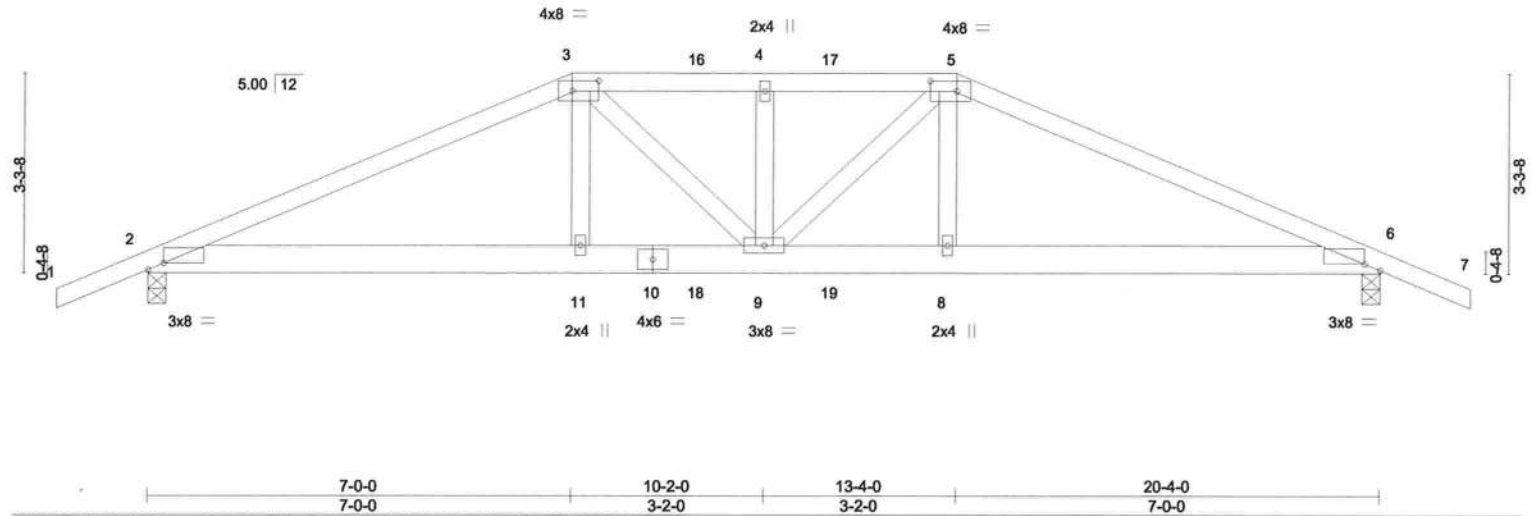
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-130/591, 3-4=-197/896, 4-6=-885/280, 6-7=-1162/354
 BOT CHORD 1-16=-485/159, 15-16=-485/159, 14-15=-485/159, 13-14=-485/159, 7-8=-271/1069
 WEBS 4-8=-219/872, 6-8=-547/287, 4-13=-1354/342, 3-13=-444/257

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-10-0, Exterior(2R) 14-10-0 to 17-10-0, Interior(1) 17-10-0 to 29-7-4 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, with BCDL = 10.0psf.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 14, 16, 10 except (jt=lb) 7=179, 13=395, 15=158.



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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.12	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.23				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.07				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 107 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP M 31 *Except*	TOP CHORD	Structural wood sheathing directly applied or 2-10-14 oc purlins.
BOT CHORD	3-5: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-4-10 oc bracing.
WEBS	2x6 SP No.2		
	2x4 SP No.3		

REACTIONS.	
(size)	2=0-3-8, 6=0-3-8
Max Horz	2=56(LC 31)
Max Uplift	2=-422(LC 8), 6=-423(LC 9)
Max Grav	2=1682(LC 1), 6=1702(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-3525/836, 3-4=-3532/867, 4-5=-3532/867, 5-6=-3577/840
BOT CHORD	2-11=-736/3186, 9-11=-739/3217, 8-9=-709/3265, 6-8=-708/3235
WEBS	3-11=-61/657, 3-9=-234/551, 4-9=-479/236, 5-9=-168/472, 5-8=-61/657

- 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; 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=422, 6=423.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 95 lb up at 7-0-0, 121 lb down and 95 lb up at 9-0-12, 121 lb down and 87 lb up at 10-2-0, and 121 lb down and 95 lb up at 11-3-4, and 234 lb down and 173 lb up at 13-4-0 on top chord, and 354 lb down and 84 lb up at 7-0-0, 88 lb down at 9-0-12, 88 lb down at 10-2-0, and 88 lb down at 11-3-4, and 354 lb down and 84 lb up at 13-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-3=-60, 3-5=-60, 5-7=-60, 2-6=-20	

Continued on page 2



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JOB	Truss	Truss Type	Qty	Ply	EVANSTON COURT - AREA 3B	T22511204
2564966	T21	Hip Girder	1	1	Job Reference (optional)	

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-121(F) 5=-187(F) 11=-354(F) 9=-67(F) 4=-121(F) 8=-354(F) 16=-121(F) 17=-121(F) 18=-67(F) 19=-67(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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-1-6-0	4-7-10	9-0-0	11-4-0	15-8-5	20-4-0	21-10-0
1-6-0	4-7-10	4-4-6	2-4-0	4-4-6	4-7-11	1-6-0

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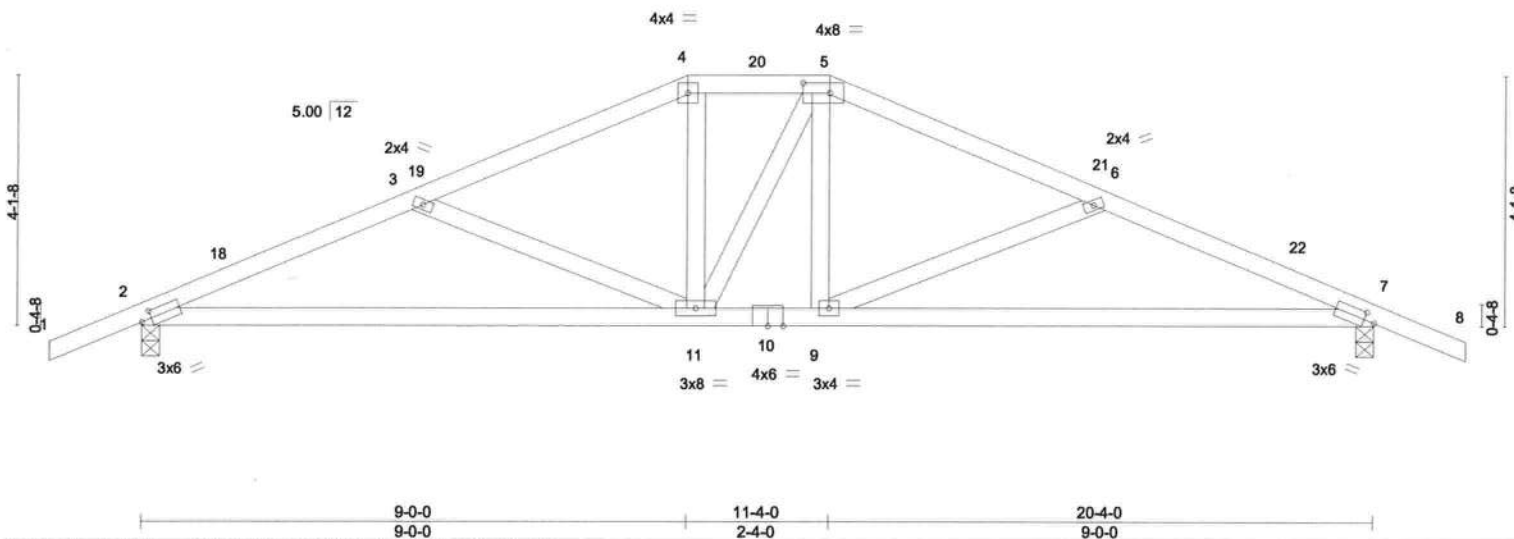


Plate Offsets (X,Y)--		[2:0-2-1,0-1-8], [5:0-5-4,0-2-0], [7:0-2-1,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40
TCDL 10.0	Lumber DOL	1.25	BC 0.70
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.14 9-17 >999 240
			Vert(CT) -0.31 9-17 >799 180
			Horz(CT) 0.04 7 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 99 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 4-6-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=-70(LC 13)
 Max Uplift 2=-216(LC 12), 7=-216(LC 13)
 Max Grav 2=903(LC 1), 7=903(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1587/409, 3-4=-1224/303, 4-5=-1084/308, 5-6=-1223/303, 6-7=-1587/409
 BOT CHORD 2-11=-344/1444, 9-11=-169/1083, 7-9=-326/1444
 WEBS 3-11=-403/197, 4-11=-44/297, 5-9=-43/297, 6-9=-404/198

- 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 9-0-0, Exterior(2E) 9-0-0 to 11-4-0, Exterior(2R) 11-4-0 to 15-6-15, Interior(1) 15-6-15 to 21-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=216, 7=216.



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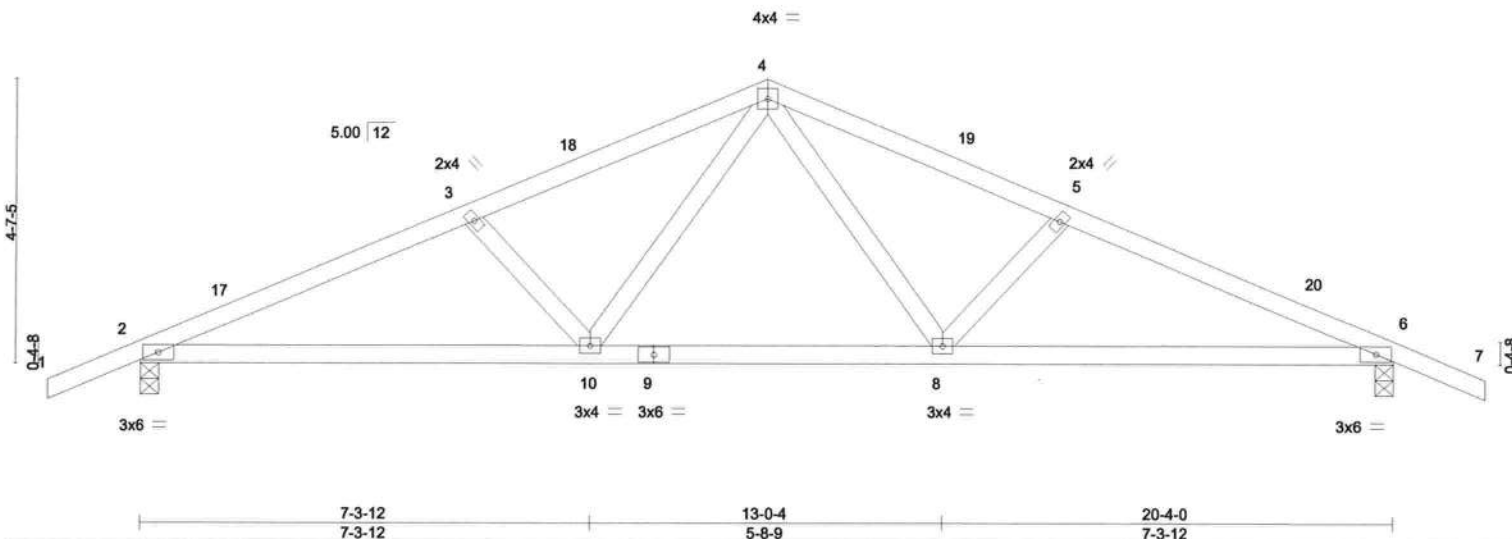
January 19,20:

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Scale = 1:37.4



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 0.29	Vert(LL)	-0.07	8-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.16	8-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.04	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 91 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 4-6-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=77(LC 16)
Max Uplift 2=-215(LC 12), 6=-215(LC 13)
Max Grav 2=903(LC 1), 6=903(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1573/442, 3-4=-1361/402, 4-5=-1361/402, 5-6=-1573/442
BOT CHORD 2-10=-329/1409, 8-10=-168/955, 6-8=-342/1409
WEBS 4-8=-119/454, 5-8=-328/178, 4-10=-118/454, 3-10=-328/178

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 10-2-0, Exterior(2R) 10-2-0 to 13-2-0, Interior(1) 13-2-0 to 21-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=215, 6=215.

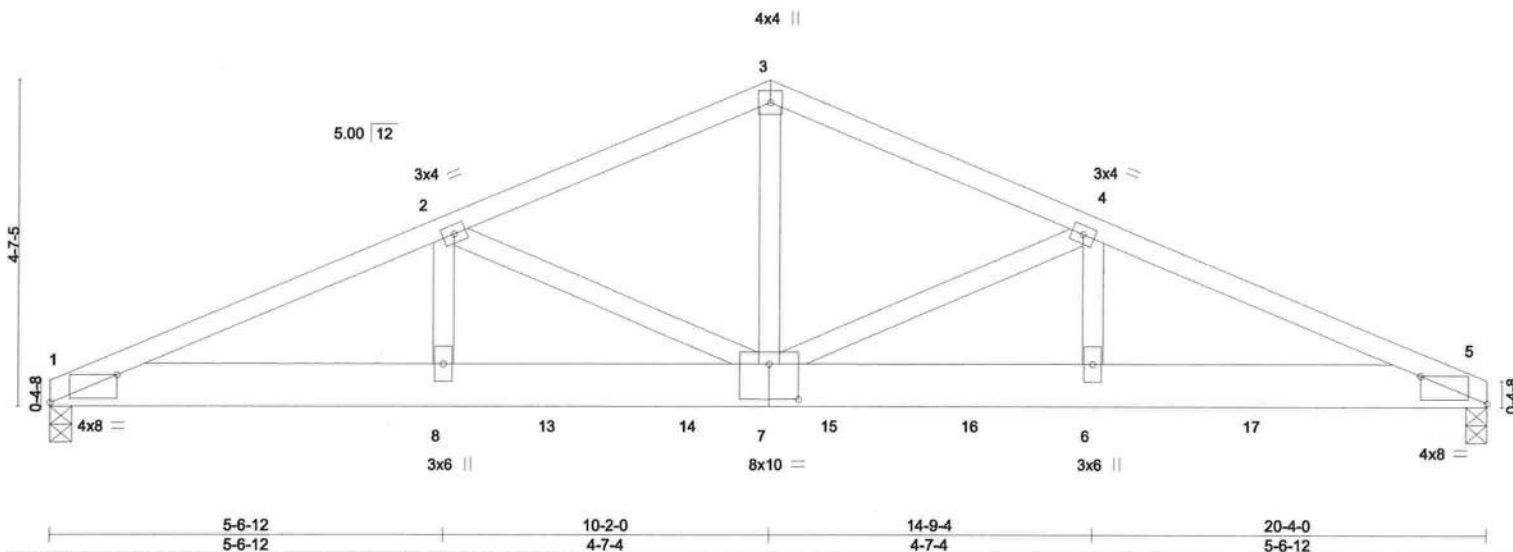


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Scale = 1:32.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.11	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.21				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.04				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 241 lb		FT = 20%	

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Horz 1=-66(LC 13)
 Max Uplift 1=-702(LC 8), 5=-928(LC 9)
 Max Grav 1=2839(LC 1), 5=3786(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-6867/1695, 2-3=-5373/1343, 3-4=-5375/1344, 4-5=-7437/1838
 BOT CHORD 1-8=-1575/6287, 7-8=-1575/6287, 6-7=-1643/6833, 5-6=-1643/6833
 WEBS 3-7=-930/3805, 4-7=-2152/602, 4-6=-322/1463, 2-7=-1545/452, 2-8=-208/1006

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - 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; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=702, 5=928.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1421 lb down and 369 lb up at 7-0-12, 596 lb down and 176 lb up at 9-0-12, 596 lb down and 175 lb up at 11-0-12, 596 lb down and 181 lb up at 13-0-12, 602 lb down and 157 lb up at 15-0-12, and 602 lb down and 157 lb up at 17-0-12, and 607 lb down and 158 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

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2564966	T24	Common Girder	1	2	EVANSTON COINT - AREA 30	T22511207
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 6=-602(B) 12=-607(B) 13=-1421(B) 14=-596(B) 15=-596(B) 16=-596(B) 17=-602(B)

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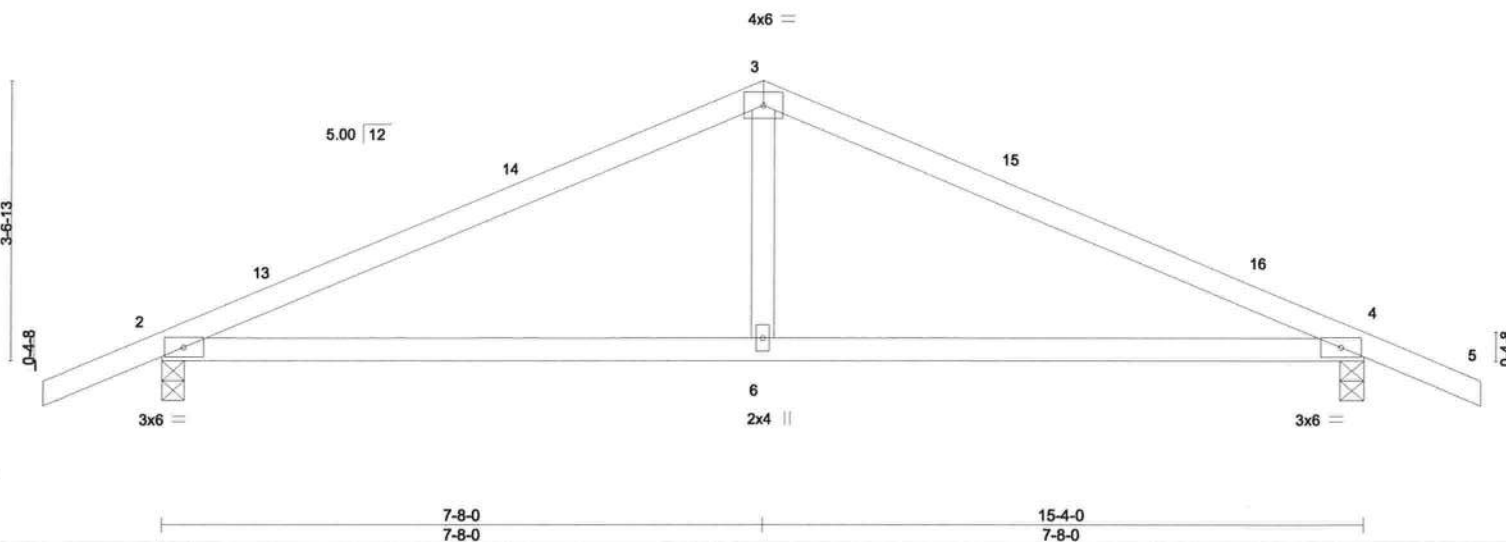
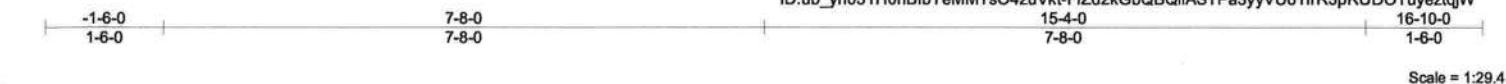
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ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component



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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 0.74	Vert(LL)	-0.10	6-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.20	6-9	>916	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 57 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=61(LC 12)
 Max Uplift 2=-171(LC 12), 4=-171(LC 13)
 Max Grav 2=703(LC 1), 4=703(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-964/325, 3-4=-964/325
 BOT CHORD 2-6=-188/817, 4-6=-188/817
 WEBS 3-6=0/356

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCp=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 7-8-0, Exterior(2R) 7-8-0 to 10-8-0, Interior(1) 10-8-0 to 16-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=171, 4=171.



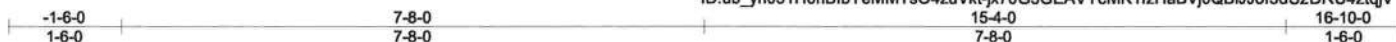
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Scale = 1:30.4

Plate Offsets (X,Y)- [2:0-3-8,Edge], [2:0-1-1,Edge], [10:0-3-8,Edge], [10:0-1-1,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 0.14	Vert(LL)	-0.00	11	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.01	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S						Weight: 73 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. All bearings 15-4-0.
 (lb) - Max Horz 2=56(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 7-8-0, Corner(3R) 7-8-0 to 10-8-0, Exterior(2N) 10-8-0 to 16-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.



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January 19,20:

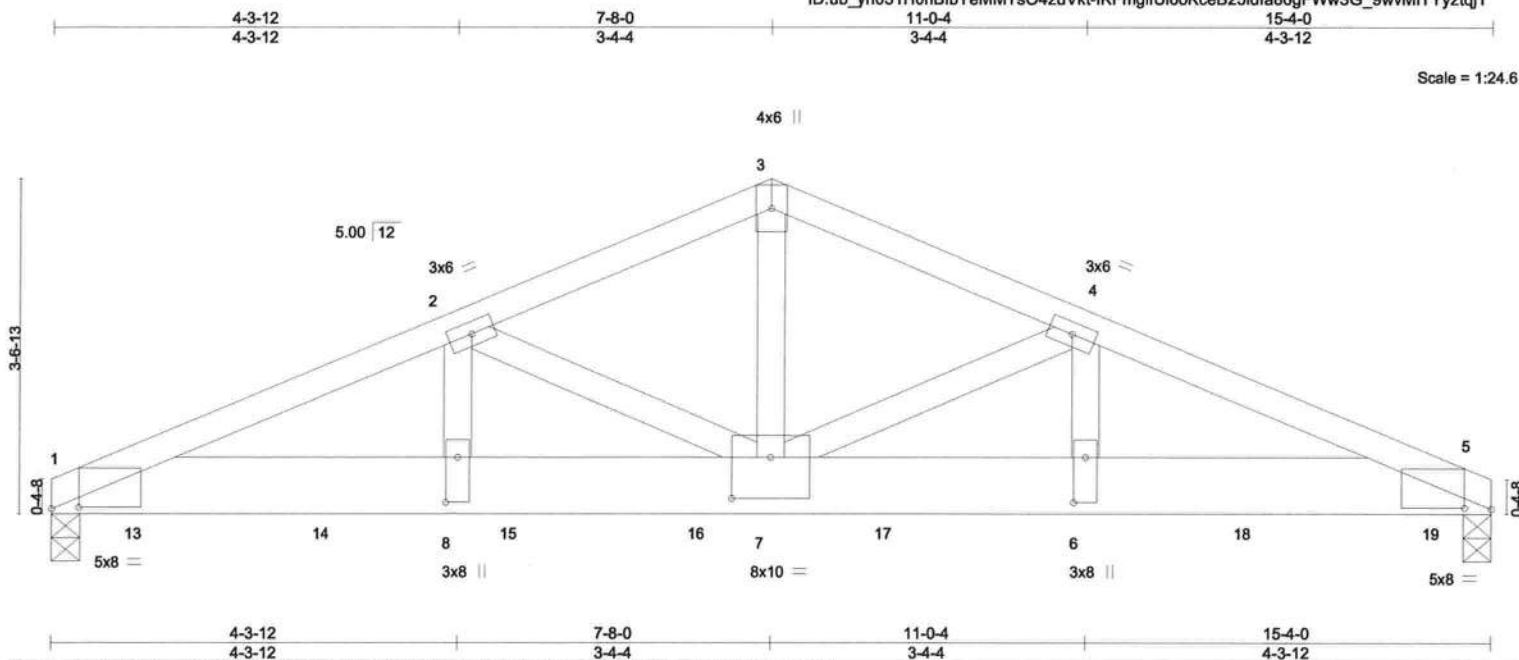


Plate Offsets (X,Y)– [1:0-3-6,0-0-3], [5:0-3-6,0-0-3], [6:0-5-12,0-1-8], [7:0-5-0,0-5-4], [8:0-5-12,0-1-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.10	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.18	7-8	>986	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TP12014	Matrix-MS							Weight: 180 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Horz 1=50(LC 31)
 Max Uplift 1=-1122(LC 8), 5=-950(LC 9)
 Max Grav 1=5129(LC 2), 5=4025(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-9068/1991, 2-3=-6451/1436, 3-4=-6450/1437, 4-5=-7855/1806
 BOT CHORD 1-8=-1844/8349, 7-8=-1844/8349, 6-7=-1622/7215, 5-6=-1622/7215
 WEBS 3-7=-1021/4718, 4-7=-1537/448, 4-6=-261/1119, 2-7=-2717/640, 2-8=-416/2114

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDD=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=1122, 5=950.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1268 lb down and 279 lb up at 0-11-4, 1266 lb down and 282 lb up at 2-11-4, 1266 lb down and 282 lb up at 4-11-4, 1266 lb down and 282 lb up at 6-11-4, 1266 lb down and 282 lb up at 8-11-4, 676 lb down and 199 lb up at 10-11-4, and 602 lb down and 157 lb up at 12-9-4, and 608 lb down and 151 lb up at 14-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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



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 Date:

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Continued on page 2

JOB	TRUSS	TRUSS TYPE	Qty	Ply	EVANSTON COURT - AREA 3B	T22511210
2564966	T26	Common Girder	1	2	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),
Jacksonville, FL - 32244,
8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:26:24 2021 Page 2
ID:ub_yh031H0hBibYeMMTsO4zuVkt-fKFmgllUi6oKceB25idfa86gFWw3G_9wvMIYYztqjT

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 1-5=-20
Concentrated Loads (lb)
Vert: 6=-648(B) 13=-1169(B) 14=-1167(B) 15=-1167(B) 16=-1167(B) 17=-1167(B) 18=-602(B) 19=-608(B)

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:26:25 2021 Page 1

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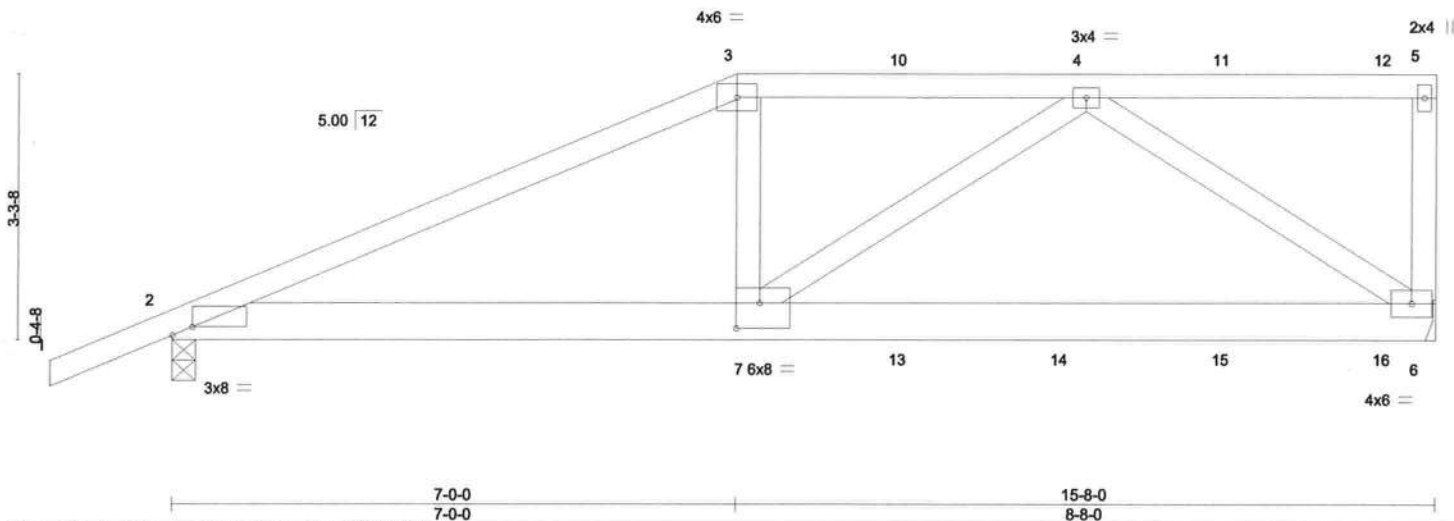


Plate Offsets (X,Y)=[2:0-3-0, Edge], [7:0-3-8, 0-3-12]

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 0.74	Vert(LL)	-0.10	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.21	6-7	>880	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(CT)	0.03	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 85 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 6=Mechanical
 Max Horz 2=127(LC 23)
 Max Uplift 2=-289(LC 8), 6=-348(LC 4)
 Max Grav 2=1138(LC 1), 6=1441(LC 1)

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

TOP CHORD 2-3=-2174/468, 3-4=-1955/465, 5-6=-269/126
 BOT CHORD 2-7=-467/1938, 6-7=-413/1417
 WEBS 3-7=0/478, 4-7=-63/735, 4-6=-1657/501

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; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=289, 6=348.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 121 lb down and 95 lb up at 7-0-0, 121 lb down and 95 lb up at 9-0-12, 121 lb down and 89 lb up at 11-0-12, and 121 lb down and 95 lb up at 13-0-12, and 137 lb down and 92 lb up at 15-0-12 on top chord, and 354 lb down and 84 lb up at 7-0-0, 88 lb down at 9-0-12, 88 lb down at 11-0-12, and 88 lb down at 13-0-12, and 99 lb down at 15-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-5=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 3=-121(F) 7=-354(F) 4=-121(F) 10=-121(F) 11=-121(F) 12=-137(F) 13=-67(F) 14=-67(F) 15=-67(F) 16=-73(F)



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January 19,20:

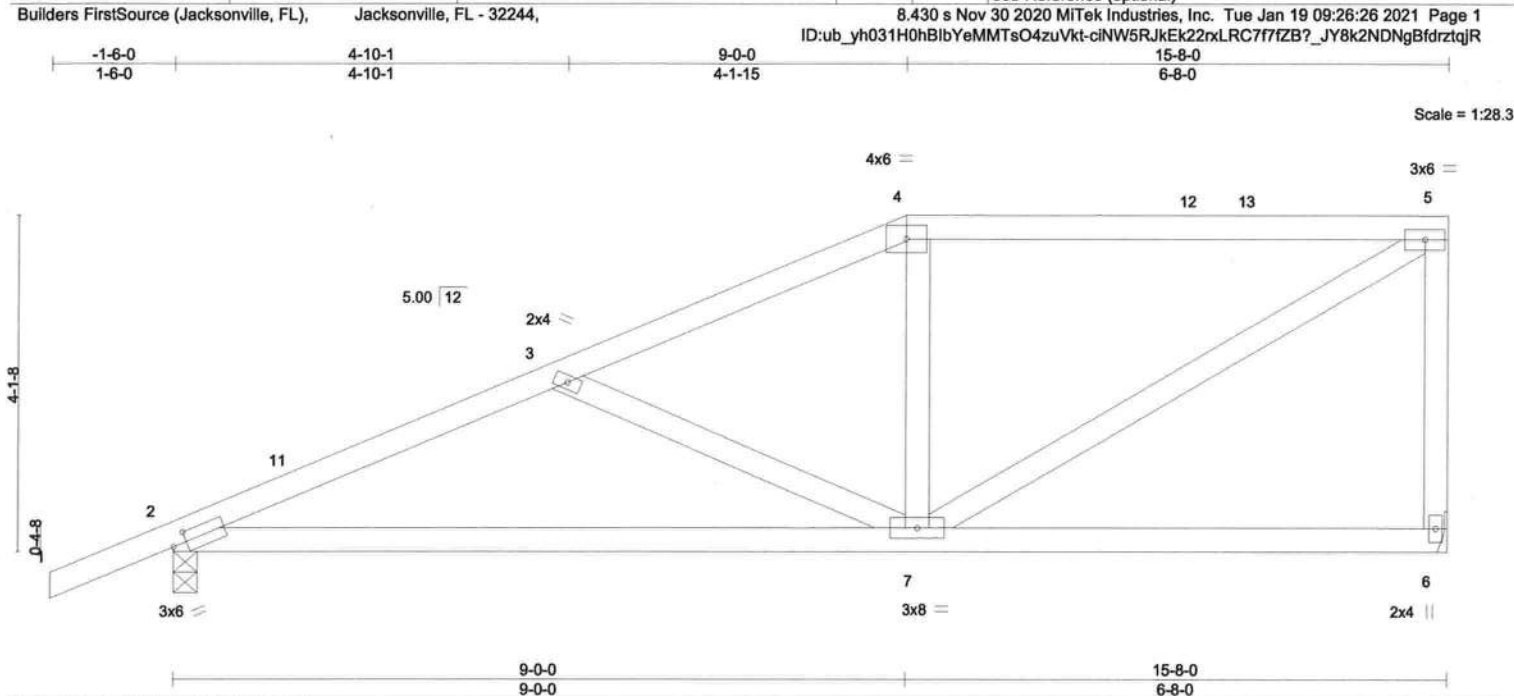


Plate Offsets (X,Y) [2:0-2-1,0-1-8]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.60	Vert(LL)	-0.13	7-10	>999	240	MT20 244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.27	7-10	>699	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.01	6	n/a	n/a	
BCDL 10.0	Code	FBC2020/TP12014	Matrix-MS						Weight: 78 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 5-3-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-3-8
 Max Horz 2=158(LC 12)
 Max Uplift 6=156(LC 8), 2=187(LC 12)
 Max Grav 6=616(LC 1), 2=715(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1095/298, 3-4=-760/186, 4-5=-653/202, 5-6=-567/214
 BOT CHORD 2-7=-373/988
 WEBS 3-7=-366/184, 5-7=-222/723

- 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 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 15-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 6=156, 2=187.



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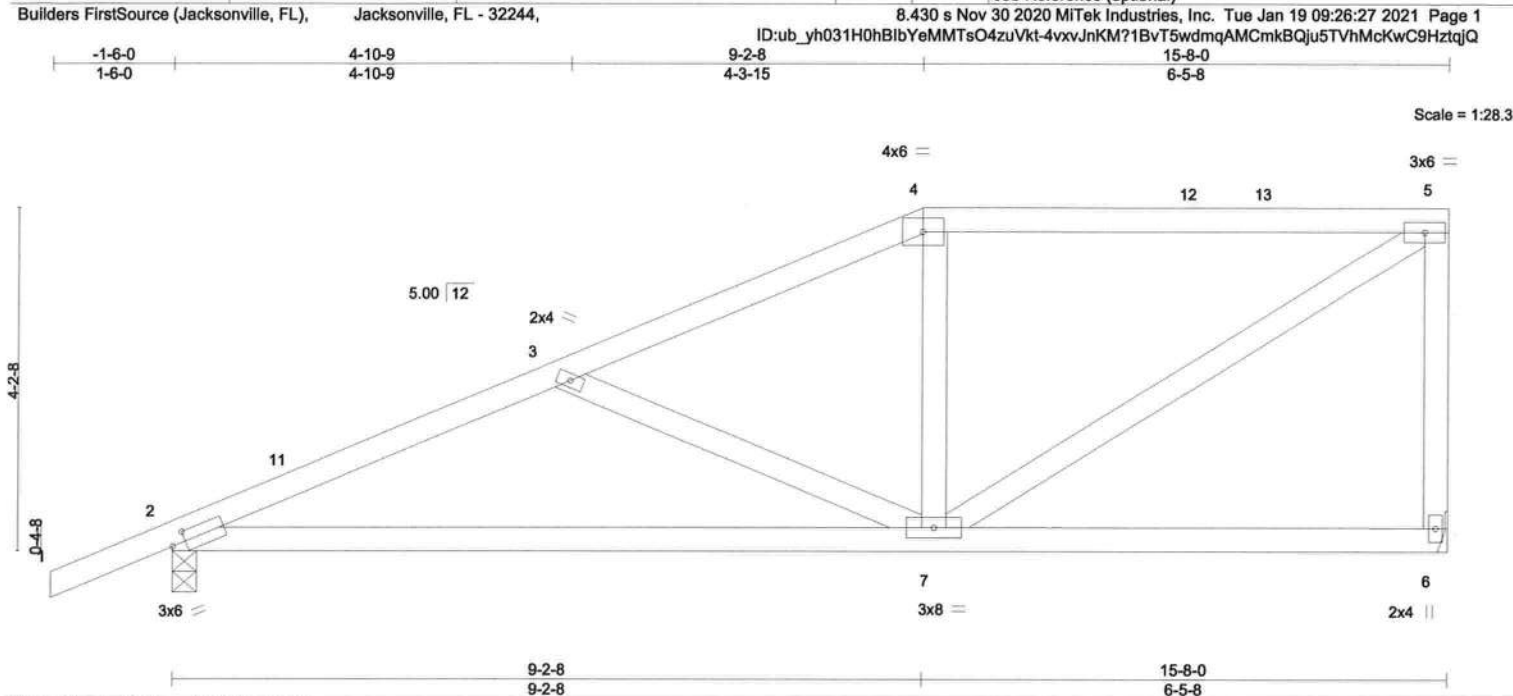


Plate Offsets (X,Y)– [2:0-2-1,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.56		Vert(LL) -0.14 7-10 >999 240		MT20	244/190
TCDL 10.0		Lumber DOL 1.25		BC 0.69		Vert(CT) -0.29 7-10 >635 180			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.27		Horz(CT) 0.01 6 n/a n/a			
BCDL 10.0		Code FBC2020/TP12014		Matrix-MS				Weight: 79 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 5-3-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-6-9 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-3-8
 Max Horz 2=161(LC 12)
 Max Uplift 6=155(LC 8), 2=187(LC 12)
 Max Grav 6=616(LC 1), 2=715(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1094/300, 3-4=-741/180, 4-5=-632/198, 5-6=-570/215
 BOT CHORD 2-7=-379/988
 WEBS 3-7=-386/194, 5-7=-221/714

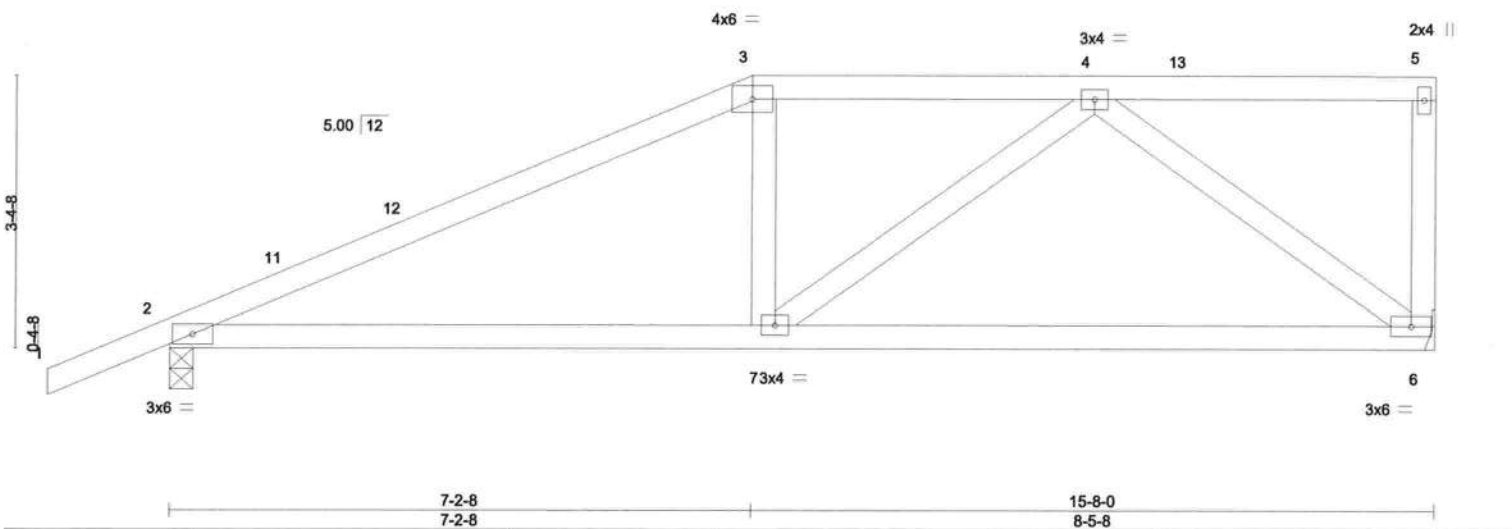
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-2-8, Exterior(2R) 9-2-8 to 13-5-7, Interior(1) 13-5-7 to 15-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=155, 2=187.



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Scale = 1:28.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	-0.11	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.22	6-7	>854	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 73 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size)	2=0-3-8, 6=Mechanical
Max Horz	2=130(LC 12)	
Max Uplift	2=-190(LC 12), 6=-161(LC 8)	
Max Grav	2=715(LC 1), 6=616(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-998/231, 3-4=-851/257
BOT CHORD	2-7=-260/850, 6-7=-196/605
WEBS	4-7=-82/340, 4-6=-729/249

- 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 7-2-8, Exterior(2R) 7-2-8 to 11-5-3, Interior(1) 11-5-3 to 15-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=190, 6=161.



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 Date:

January 19,20:

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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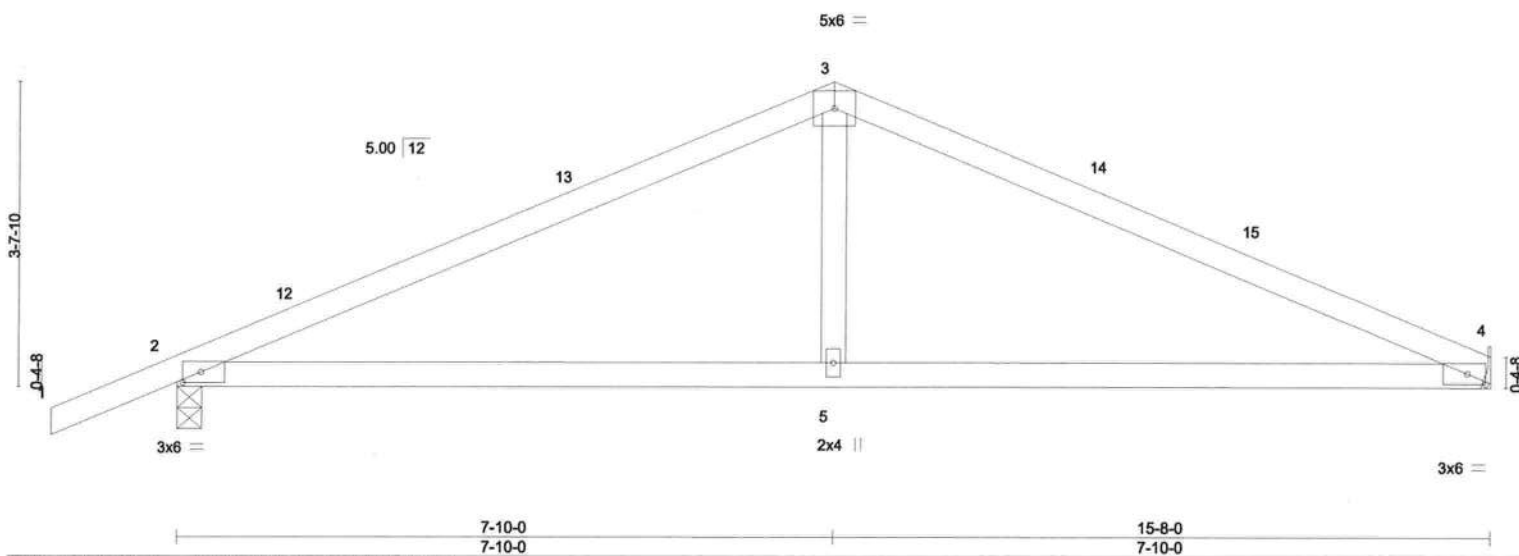


Plate Offsets (X,Y) -		[2:0-2-10,0-1-8], [4:0-2-10,0-1-8]		7-10-0		15-8-0		7-10-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.82	Vert(LL)	-0.13	5-8	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.24	5-8	>772	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	4	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 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
 Max Horz 2=71(LC 16)
 Max Uplift 4=-137(LC 13), 2=-174(LC 12)
 Max Grav 4=622(LC 1), 2=721(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1002/336, 3-4=-1001/345
 BOT CHORD 2-5=-236/851, 4-5=-236/851
 WEBS 3-5=-6/367

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpl=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 7-10-0, Exterior(2R) 7-10-0 to 10-10-0, Interior(1) 10-10-0 to 15-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=137, 2=174.



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Scale = 1:25.8

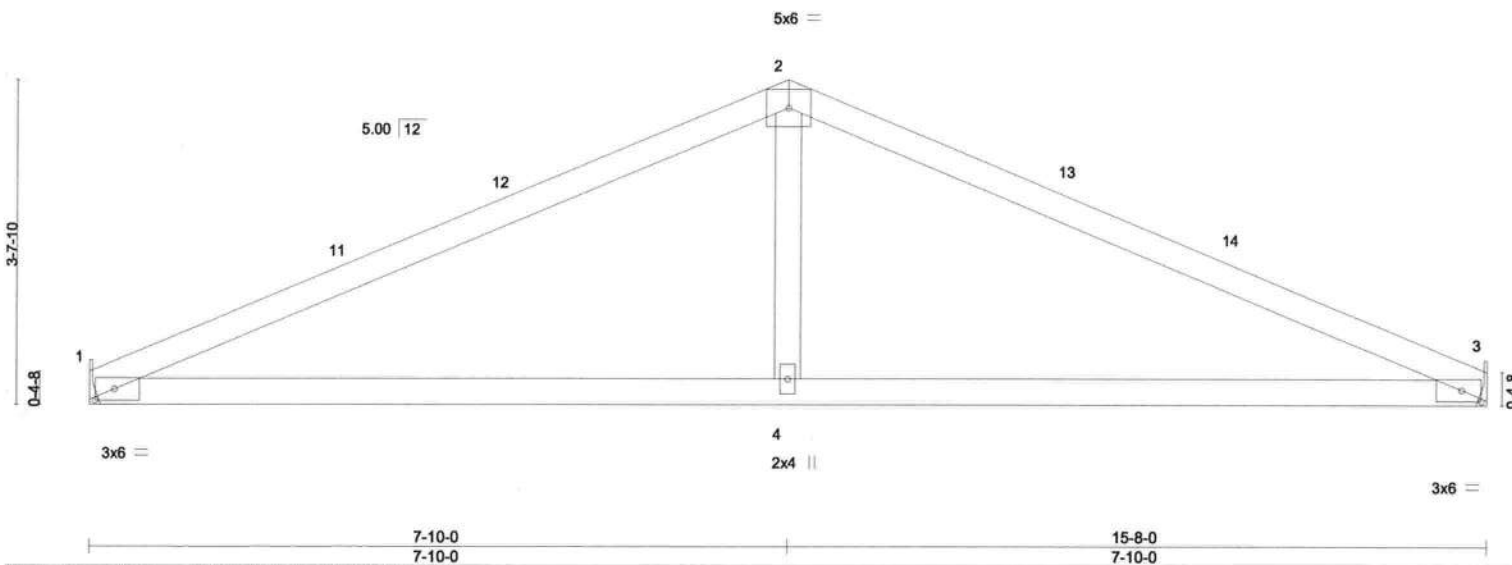


Plate Offsets (X,Y)=[1:0-2-10,0-1-8], [3:0-2-10,0-1-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.25	TC 0.82	Vert(LL)	-0.13	4-7	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.24	4-7	>779	180	GRIP
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	3	n/a	n/a	244/190
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 53 lb
									FT = 20%

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

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

REACTIONS. (size) 1=Mechanical, 3=Mechanical
 Max Horz 1=52(LC 12)
 Max Uplift 1=-138(LC 12), 3=-138(LC 13)
 Max Grav 1=627(LC 1), 3=627(LC 1)

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

TOP CHORD 1-2=-1016/353, 2-3=-1016/353
 BOT CHORD 1-4=-243/865, 3-4=-243/865
 WEBS 2-4=-9/369

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-10-0, Exterior(2R) 7-10-0 to 10-10-0, Interior(1) 10-10-0 to 15-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=138, 3=138.



Walter P. Finn PE No.22839
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 6904 Parke East Blvd. Tampa FL 33610
 Date:

January 19,20:

Scale = 1:28.3

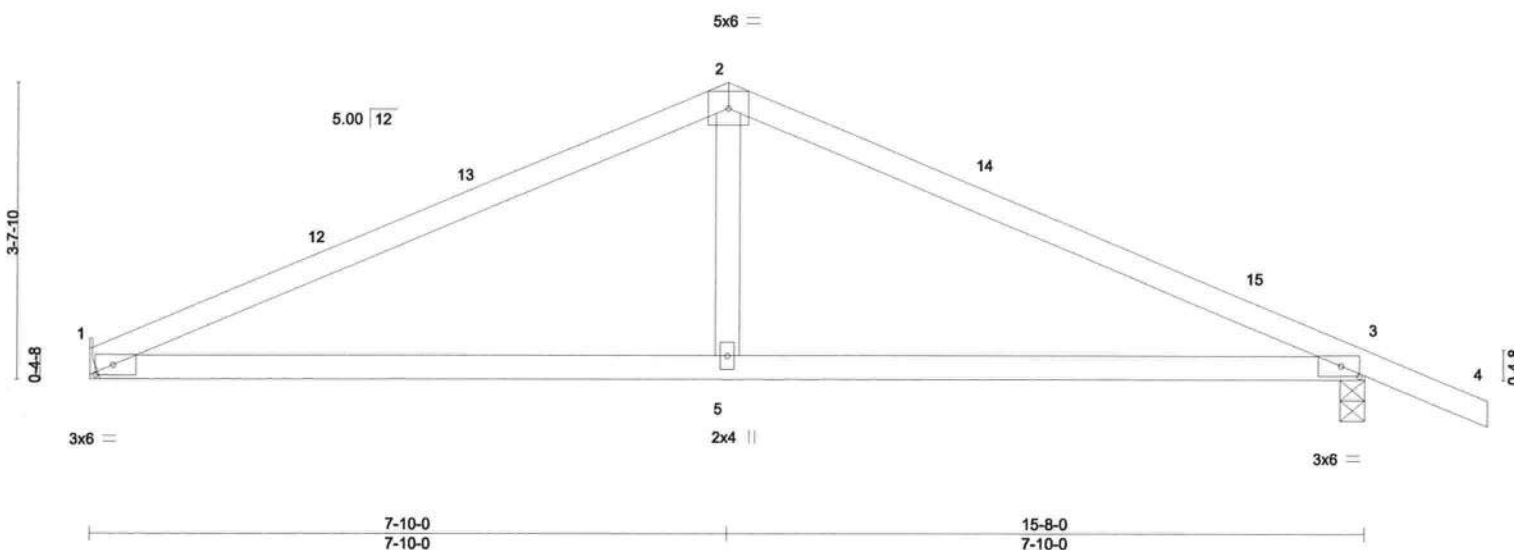


Plate Offsets (X,Y)~		[1:0-2-10,0-1-8], [3:0-2-10,0-1-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 20.0	Plate Grip DOL	1.25	TC 0.82	Vert(LL)	-0.13	5-8	>999	240	MT20	244/190	
TCDL 10.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.24	5-8	>772	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	3	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 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 3=0-3-8
 Max Horz 1=-71(LC 13)
 Max Uplift 1=-137(LC 12), 3=-174(LC 13)
 Max Grav 1=622(LC 1), 3=721(LC 1)

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

TOP CHORD 1-2=-1001/346, 2-3=-1002/336
 BOT CHORD 1-5=-208/851, 3-5=-208/851
 WEBS 2-5=-6/367

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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-10-0, Exterior(2R) 7-10-0 to 10-10-0, Interior(1) 10-10-0 to 17-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=137, 3=174.



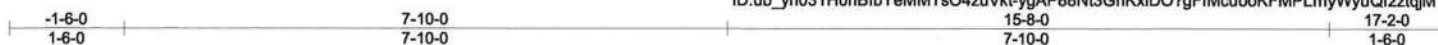
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 Date:

January 19,20:

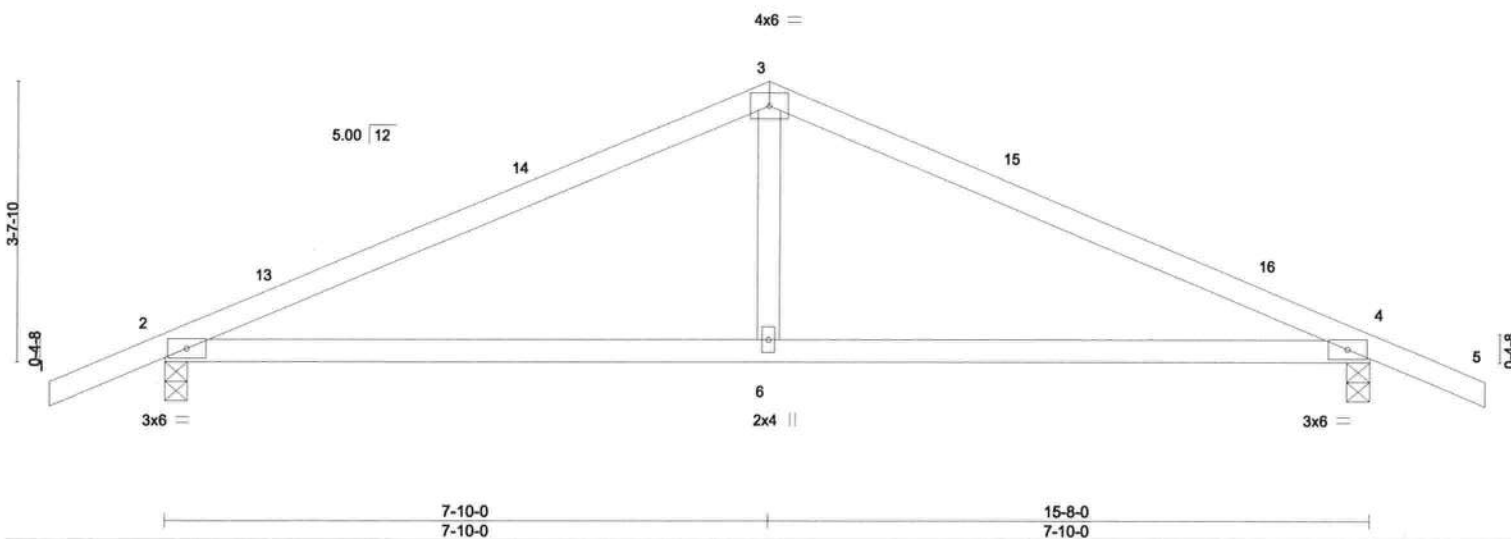
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:26:31 2021 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.79	Vert(LL)	-0.11	6-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.22	6-9	>859	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 58 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=62(LC 12)
 Max Uplift 2=-174(LC 12), 4=-174(LC 13)
 Max Grav 2=717(LC 1), 4=717(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-987/328, 3-4=-987/328
 BOT CHORD 2-6=-190/837, 4-6=-190/837
 WEBS 3-6=0/365

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 7-10-0, Exterior(2R) 7-10-0 to 10-10-0, Interior(1) 10-10-0 to 17-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=174, 4=174.



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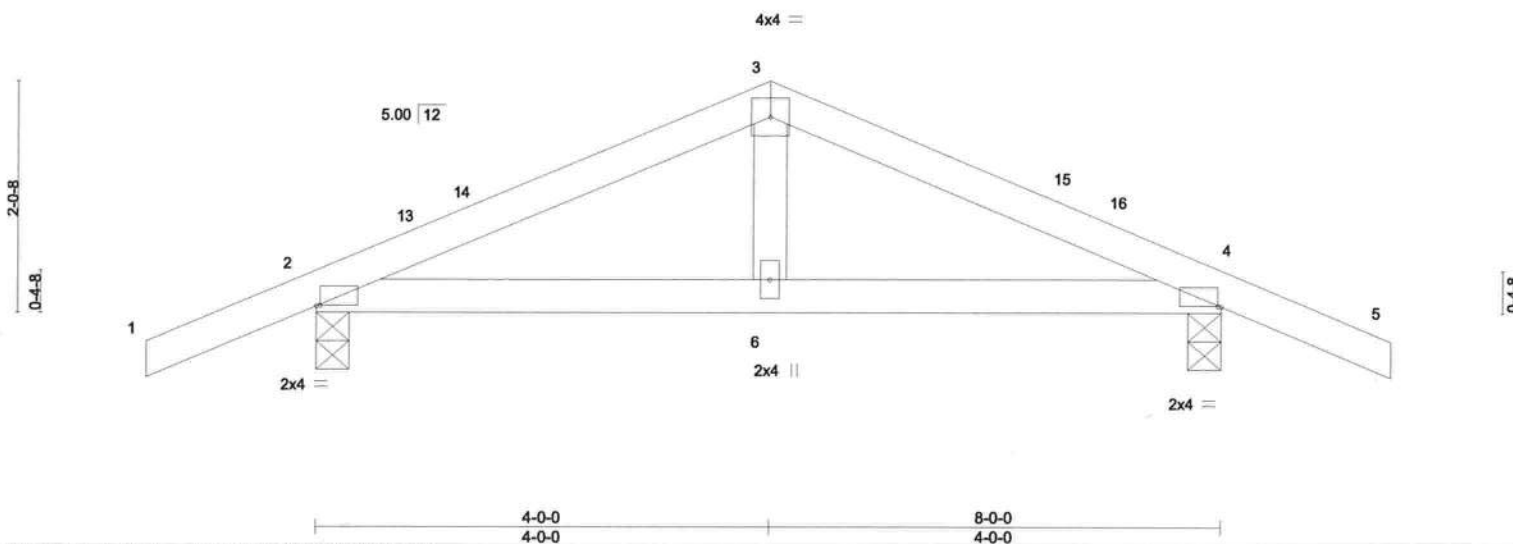


Plate Offsets (X,Y)-- [2:0-0-6,0-0-1], [4:0-0-6,0-0-1]

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)	-0.01	6-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.02	6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-MS							
									Weight: 32 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=36(LC 12)
 Max Uplift 2=-107(LC 12), 4=-107(LC 13)
 Max Grav 2=410(LC 1), 4=410(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-443/230, 3-4=-443/230
 BOT CHORD 2-6=-112/373, 4-6=-112/373

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 9-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=107, 4=107.



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JOB	TRUSS	TRUSS TYPE	CITY	PLY	EVANSTON CONT - AREA 30	T22511220
2564966	T35G	Common Supported Gable	1	1	Job Reference (optional)	

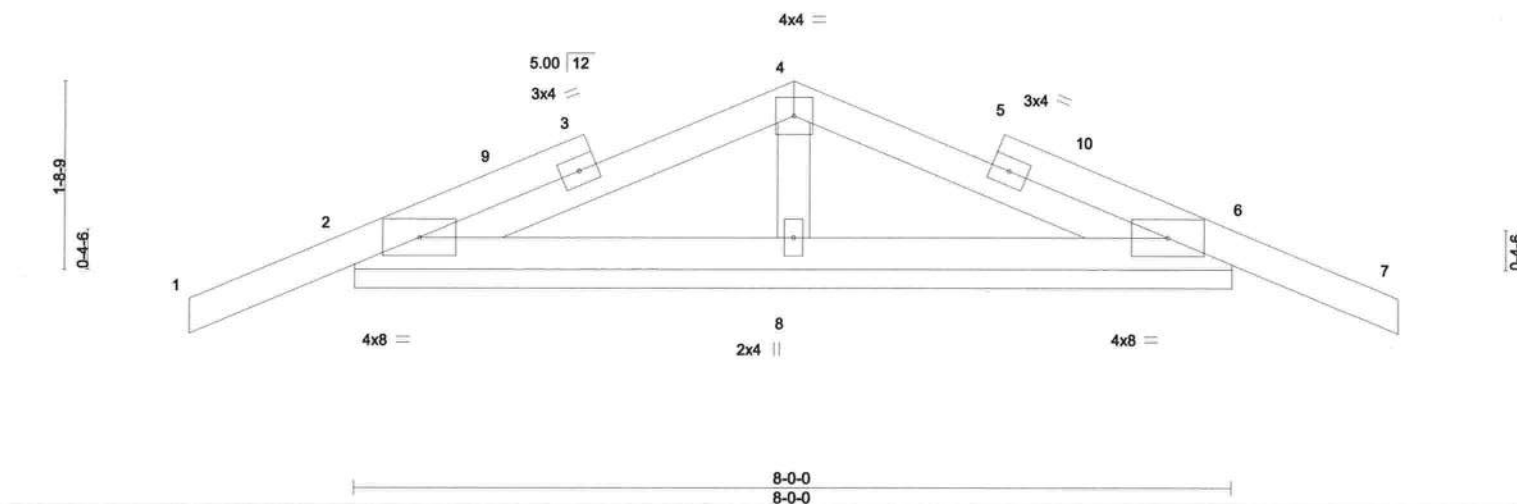
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8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:26:32 2021 Page 1

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-1-6-0	4-0-0	8-0-0	9-6-0
1-6-0	4-0-0	4-0-0	1-6-0

Scale = 1:21.0



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 0.17	Vert(LL)	0.00	6	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.14	Vert(CT)	0.00	7	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	6	n/a	n/a	
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S						
								Weight: 36 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 8-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=8-0-0, 6=8-0-0, 8=8-0-0
Max Horz 2=-31(LC 13)
Max Uplift 2=-74(LC 8), 6=-79(LC 13), 8=-69(LC 12)
Max Grav 2=231(LC 23), 6=231(LC 24), 8=384(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-8=-285/245

- 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) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 4-0-0, Corner(3R) 4-0-0 to 7-0-0, Exterior(2N) 7-0-0 to 9-6-0 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) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 8.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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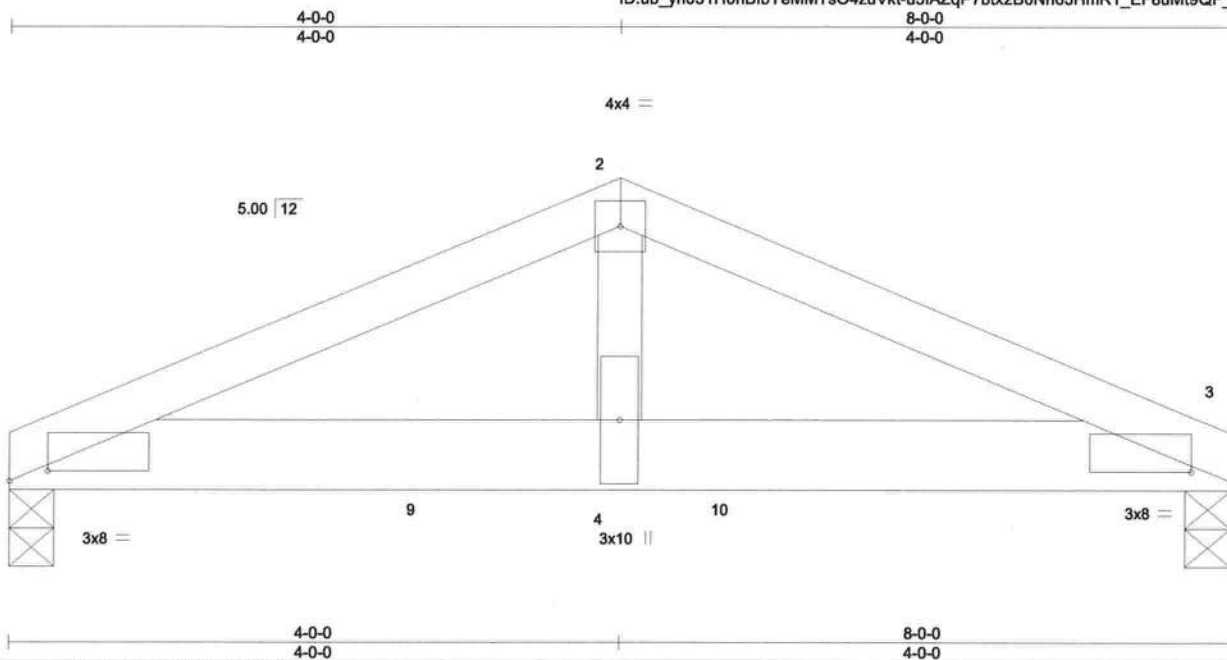


Plate Offsets (X,Y)=[1:0-3-0,0-0-12], [3:0-3-0,0-0-12]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.41	Vert(LL)	-0.04	4-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.89	Vert(CT)	-0.08	4-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	0.02	3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 34 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 3=0-3-8
 Max Horz 1=26(LC 27)
 Max Uplift 1=-365(LC 8), 3=-349(LC 9)
 Max Grav 1=1562(LC 1), 3=1494(LC 1)

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

TOP CHORD 1-2=-2339/542, 2-3=-2342/542
 BOT CHORD 1-4=-478/2152, 3-4=-478/2152
 WEBS 2-4=-329/1511

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=365, 3=349.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 605 lb down and 155 lb up at 0-9-4, 602 lb down and 157 lb up at 2-9-4, and 602 lb down and 157 lb up at 4-9-4, and 607 lb down and 158 lb up at 6-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 1-3=-20
 Concentrated Loads (lb)
 Vert: 6=-605(B) 8=-607(B) 9=-602(B) 10=-602(B)



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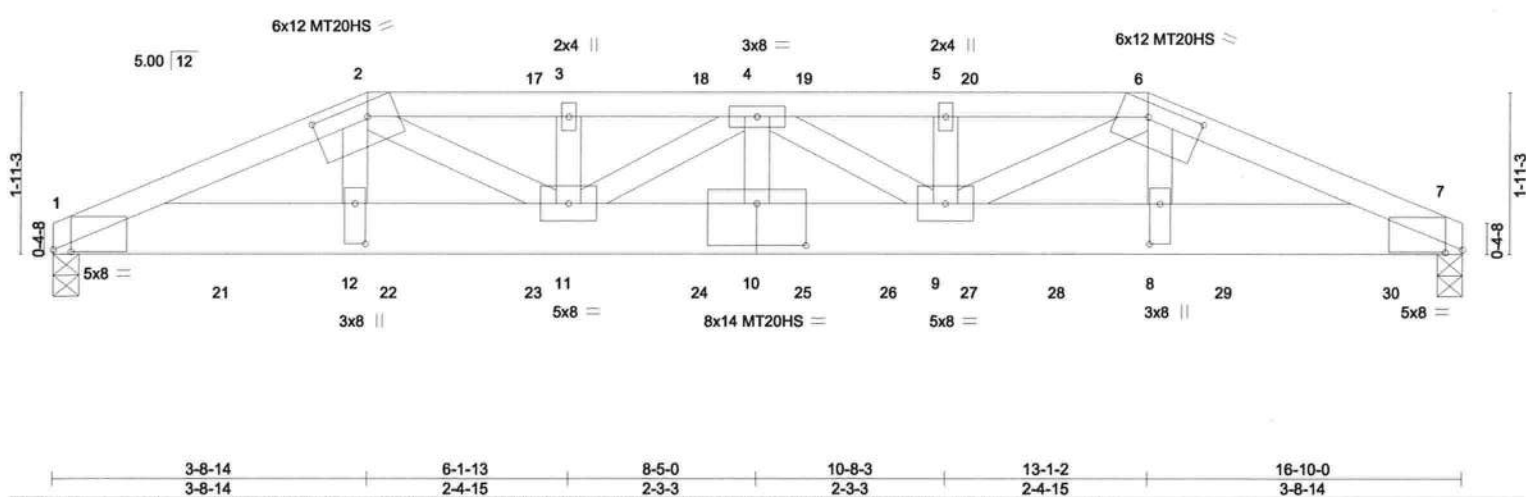


Plate Offsets (X,Y)=[1:0-2-6,0-0-5], [2:0-7-12,0-2-0], [6:0-7-12,0-2-0], [7:0-2-6,0-0-5], [8:0-5-12,0-1-8], [10:0-7-0,0-6-0], [12:0-5-12,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		I/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.23 10	>846	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.44 10	>449	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.06 7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 200 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-3-2 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 1=0-3-8, 7=0-3-8 (req. 0-3-10)
 Max Horz 1=-24(LC 28)
 Max Uplift 1=-1202(LC 8), 7=-1350(LC 9)
 Max Grav 1=5436(LC 2), 7=6147(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-12098/2671, 2-3=-14187/3158, 3-4=-14187/3158, 4-5=-14028/3125, 5-6=-14028/3125, 6-7=-11996/2649
BOT CHORD 1-12=-2444/11129, 11-12=-2395/10889, 10-11=-3563/16119, 9-10=-3563/16119, 8-9=-2363/10798, 7-8=-2411/11038
WEBS 2-12=-502/2459, 2-11=-868/3900, 4-11=-2320/546, 4-10=-478/2334, 4-9=-2510/585, 6-9=-851/3820, 6-8=-502/2456

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-11 2x4 - 1 row at 0-3-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 6 = 16%, joint 2 = 16%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - WARNING:** Required bearing size at joint(s) 7 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=1202, 7=1350.

WALTER P. FINN

LICENSE

No 22839

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Walter P. Finn PE No.22839

MiTek USA, Inc. FL Cert 6634

6904 Parke East Blvd. Tampa FL 33610

Date:

2564966	T37	Hip Girder	1	2	EVANSTON CONT - AREA 38	T22511222
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NOTES-

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 50 lb up at 3-8-14, 40 lb down and 50 lb up at 5-9-10, 40 lb down and 47 lb up at 7-9-10, 40 lb down and 47 lb up at 9-0-6, and 40 lb down and 50 lb up at 11-0-6, and 46 lb down and 50 lb up at 13-1-2 on top chord, and 1266 lb down and 282 lb up at 2-0-12, 86 lb down at 3-8-14, 1266 lb down and 282 lb up at 4-0-12, 29 lb down at 5-9-10, 1266 lb down and 282 lb up at 6-0-12, 29 lb down at 7-9-10, 1266 lb down and 282 lb up at 8-0-12, 29 lb down at 9-0-6, 1266 lb down and 282 lb up at 10-0-12, 29 lb down at 11-0-6, 1264 lb down and 281 lb up at 12-0-12, 86 lb down at 13-0-6, and 1264 lb down and 281 lb up at 14-0-12, and 1268 lb down and 277 lb up at 16-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-6=-60, 6-7=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 6=-28(F) 12=-43(F) 2=-28(F) 8=-43(F) 17=-28(F) 18=-28(F) 19=-28(F) 20=-28(F) 21=-1167(B) 22=-1167(B) 23=-1188(F=-21, B=-1167) 24=-1188(F=-21, B=-1167) 25=-21(F) 26=-1167(B) 27=-21(F) 28=-1164(B) 29=-1164(B) 30=-1168(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:26:38 2021 Page 1
ID:ub_yh031H0hBibYeMMTsO4zuVkt-F053cYTGPQZLHnGkveb85h4z9iIYL_7Y5H28ztqjF

2-6-3 4-10-10 7-3-1 9-7-7 11-11-14 14-4-5 16-10-8
2-6-3 2-4-7 2-4-7 2-4-7 2-4-7 2-4-7 2-6-3

Scale = 1:28.5

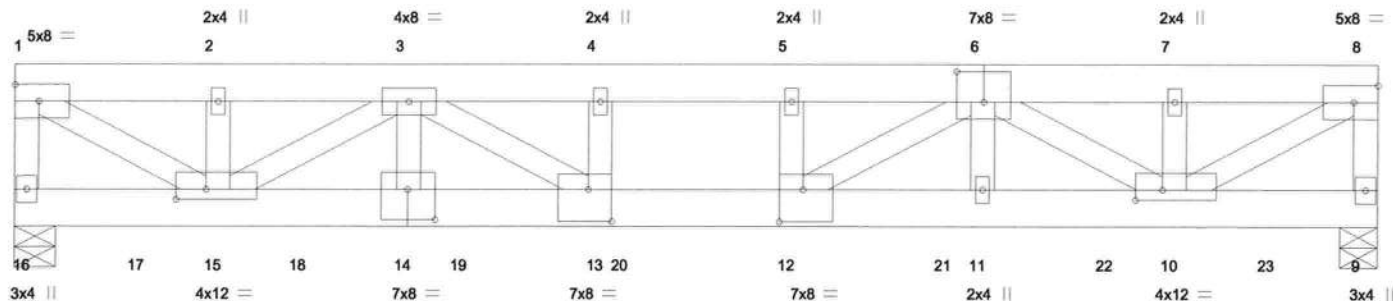


Plate Offsets (X,Y)=[6:0-4-0,0-4-8], [10:0-4-0,0-1-8], [12:0-3-8,0-4-12], [13:0-3-8,0-4-12], [14:0-4-0,0-4-8], [15:0-4-8,0-1-8]

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 0.47	Vert(LL)	-0.14	12-13	>999	360	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.39	Vert(CT)	-0.23	12-13	>871	240	
BCLL 0.0	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.04	9	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 338 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
1-15,3-15,3-13,6-12,6-10,8-10: 2x4 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) 16=0-6-0, 9=0-5-8
Max Grav 16=8885(LC 1), 9=5887(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-4798/0, 1-2=-7155/0, 2-3=-7155/0, 3-4=-15017/0, 4-5=-15017/0, 5-6=-15017/0,
6-7=-7643/0, 7-8=-7643/0, 8-9=-5121/0
BOT CHORD 15-16=0/251, 14-15=0/12294, 13-14=0/12287, 12-13=0/15017, 11-12=0/12885,
10-11=0/12876, 9-10=0/278
WEBS 1-15=0/8237, 3-15=-6131/0, 3-14=0/1281, 3-13=0/3454, 4-13=-283/0, 6-12=0/2737,
6-11=0/1667, 6-10=-6250/0, 8-10=0/8788

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-13 2x4 - 2 rows staggered at 0-4-0 oc.
 - 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.
 - Unbalanced floor live loads have been considered for this design.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3535 lb down at 0-1-12, 1000 lb down at 1-6-12, 1000 lb down at 3-6-12, 1000 lb down at 5-6-12, 1216 lb down at 7-6-12, 1216 lb down at 9-6-12, 1216 lb down at 11-6-12, and 1216 lb down at 13-6-12, and 1216 lb down at 15-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-8=-110, 9-16=-20

Concentrated Loads (lb)

Vert: 16=-3535(B) 12=-1216(F) 17=-1000(F) 18=-1000(F) 19=-1000(F) 20=-1216(F) 21=-1216(F) 22=-1216(F) 23=-1216(F)



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Date:

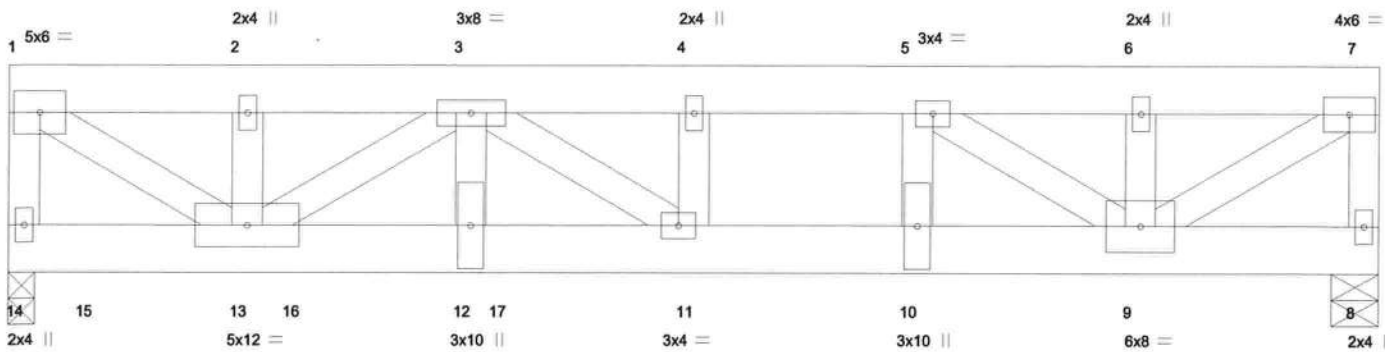
January 19,20:

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8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Jan 19 09:26:39 2021 Page 1
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2-3-11 4-5-9 6-7-8 8-9-7 10-11-5 13-3-0
2-3-11 2-1-15 2-1-15 2-1-15 2-1-15 2-3-11

Scale = 1:22.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.07 11 >999 360	MT20		244/190	
TCDL	15.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.11 11-12 >999 240				
BCLL	0.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.02 8 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 268 lb FT = 20%			

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

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

REACTIONS. (size) 14=0-3-0, 8=0-5-8
Max Grav 14=4227(LC 1), 8=3459(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-3447/0, 1-2=-4651/0, 2-3=-4651/0, 3-4=-7761/0, 4-5=-7761/0, 5-6=-4337/0, 6-7=-4337/0, 7-8=-3255/0
BOT CHORD 12-13=0/7507, 11-12=0/7507, 10-11=0/7761, 9-10=0/7761
WEBS 1-13=0/5484, 3-13=-3508/0, 3-12=0/1373, 3-11=0/521, 4-11=0/457, 5-10=0/1627, 5-9=-4213/0, 6-9=0/321, 7-9=0/5141

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-12 2x4 - 2 rows staggered at 0-7-0 oc, member 4-11 2x4 - 2 rows staggered at 0-7-0 oc, member 5-10 2x4 - 2 rows staggered at 0-7-0 oc, member 6-9 2x4 - 2 rows staggered at 0-7-0 oc.
 - 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.
 - Unbalanced floor live loads have been considered for this design.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1003 lb down at 0-9-12, 1000 lb down at 2-9-12, 1000 lb down at 4-9-12, 1000 lb down at 6-9-12, and 1000 lb down at 8-9-12, and 1000 lb down at 10-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-7=-110, 8-14=-20
Concentrated Loads (lb)
Vert: 11=-1000(F) 10=-1000(F) 9=-1000(F) 15=-1003(F) 16=-1000(F) 17=-1000(F)



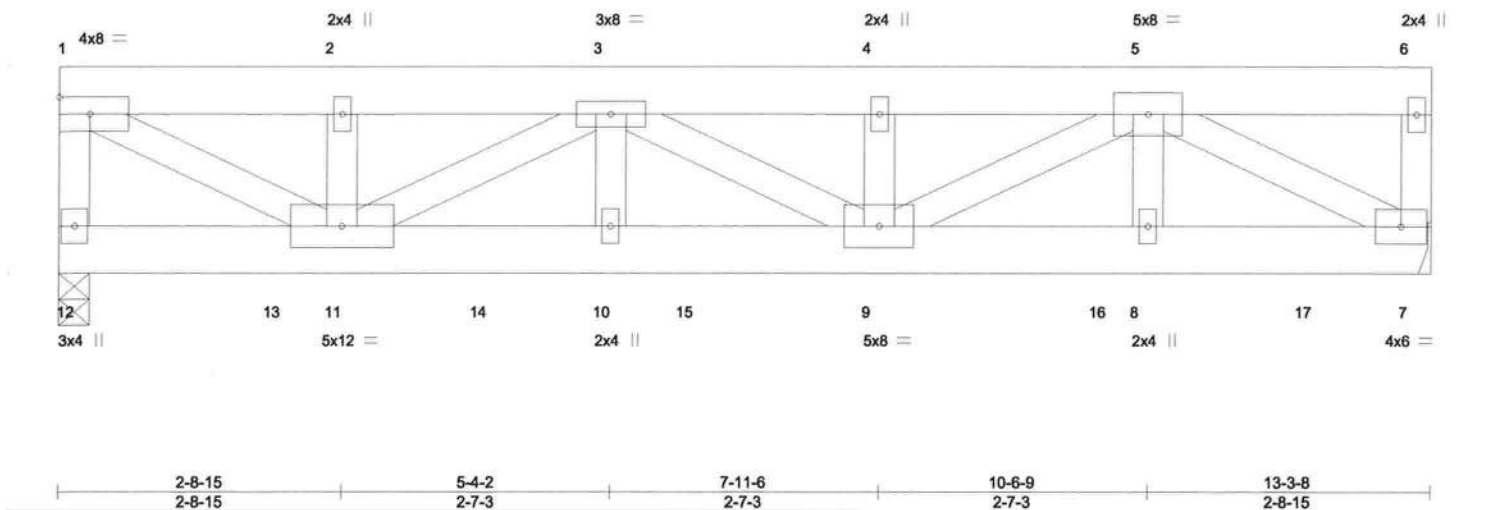
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Date:

January 19,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Scale = 1:22.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.43	Vert(LL)	-0.08	9-10	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.37	Vert(CT)	-0.12	9-10	>999	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.73	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 181 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP M 26
 WEBS 2x4 SP No.3 *Except*
 1-11,3-11,3-9,5-9,5-7: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-3-8, 7=Mechanical
 Max Grav 12=3186(LC 1), 7=3548(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-2903/0, 1-2=-4643/0, 2-3=-4643/0, 3-4=-7075/0, 4-5=-7075/0
 BOT CHORD 10-11=0/7172, 9-10=0/7172, 8-9=0/4771, 7-8=0/4771
 WEBS 1-11=0/5205, 3-11=-2940/0, 3-10=0/1209, 5-9=0/2679, 5-8=0/1113, 5-7=-5344/0

- NOTES-**
- 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.
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 841 lb down at 2-1-12, 841 lb down at 4-1-12, 841 lb down at 6-1-12, 841 lb down at 8-1-12, and 841 lb down at 10-1-12, and 841 lb down at 12-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 1-6=-110, 7-12=-20
 Concentrated Loads (lb)
 Vert: 9=-841(F) 13=-841(F) 14=-841(F) 15=-841(F) 16=-841(F) 17=-841(F)

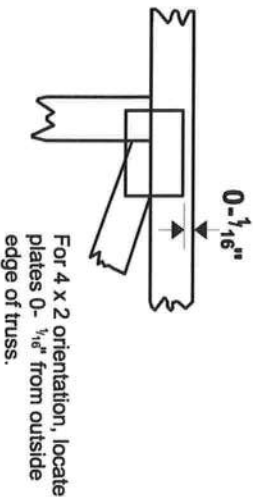
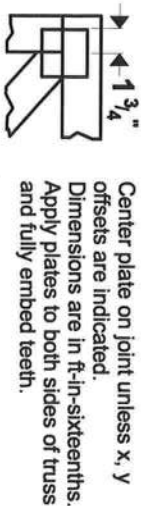


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 Date:

January 19,20:

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

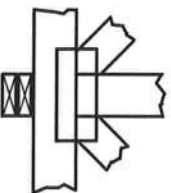
4 X 4

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

LATERAL BRACING LOCATION



BEARING

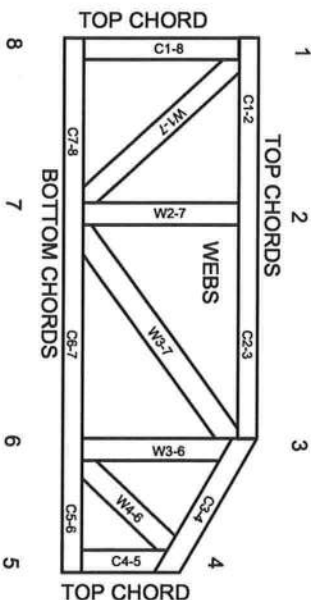


Industry Standards:

ANSI/TP1: 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

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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 purfins 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.