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

RE: 3000644 - IC CONST. - DALTON RES.

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Dalton Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 512 SW Upstage Glen, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

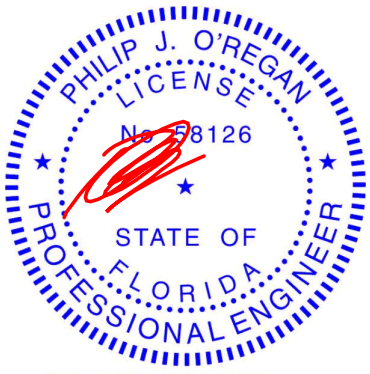
Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 92 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	T26659339	CJ01	1/27/22	23	T26659361	HJ05	1/27/22
2	T26659340	CJ01A	1/27/22	24	T26659362	HJ06	1/27/22
3	T26659341	CJ02	1/27/22	25	T26659363	HJ09	1/27/22
4	T26659342	CJ02A	1/27/22	26	T26659364	HJ10	1/27/22
5	T26659343	CJ03	1/27/22	27	T26659365	PB01	1/27/22
6	T26659344	CJ03A	1/27/22	28	T26659366	PB02	1/27/22
7	T26659345	CJ03B	1/27/22	29	T26659367	PB03	1/27/22
8	T26659346	CJ04	1/27/22	30	T26659368	PB04	1/27/22
9	T26659347	CJ04B	1/27/22	31	T26659369	PB05	1/27/22
10	T26659348	CJ05	1/27/22	32	T26659370	PB06	1/27/22
11	T26659349	EJ01	1/27/22	33	T26659371	T01G	1/27/22
12	T26659350	EJ02	1/27/22	34	T26659372	T02	1/27/22
13	T26659351	EJ03	1/27/22	35	T26659373	T02G	1/27/22
14	T26659352	EJ04	1/27/22	36	T26659374	T03	1/27/22
15	T26659353	EJ05	1/27/22	37	T26659375	T04	1/27/22
16	T26659354	EJ06	1/27/22	38	T26659376	T05	1/27/22
17	T26659355	EJ07	1/27/22	39	T26659377	T06	1/27/22
18	T26659356	EJ08	1/27/22	40	T26659378	T07	1/27/22
19	T26659357	EJ09	1/27/22	41	T26659379	T08	1/27/22
20	T26659358	EJ10	1/27/22	42	T26659380	T09	1/27/22
21	T26659359	EJ11	1/27/22	43	T26659381	T10	1/27/22
22	T26659360	HJ01	1/27/22	44	T26659382	T11	1/27/22

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

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



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 27,2022

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.

RE: 3000644 - IC CONST. - DALTON RES.

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Dalton Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 512 SW Upstage Glen, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
45	T26659383	T12	1/27/22
46	T26659384	T13	1/27/22
47	T26659385	T14	1/27/22
48	T26659386	T15	1/27/22
49	T26659387	T16	1/27/22
50	T26659388	T17	1/27/22
51	T26659389	T18	1/27/22
52	T26659390	T19	1/27/22
53	T26659391	T20	1/27/22
54	T26659392	T21	1/27/22
55	T26659393	T22	1/27/22
56	T26659394	T23	1/27/22
57	T26659395	T24	1/27/22
58	T26659396	T25	1/27/22
59	T26659397	T26	1/27/22
60	T26659398	T27	1/27/22
61	T26659399	T28	1/27/22
62	T26659400	T29	1/27/22
63	T26659401	T30	1/27/22
64	T26659402	T31	1/27/22
65	T26659403	T32	1/27/22
66	T26659404	T33	1/27/22
67	T26659405	T33D	1/27/22
68	T26659406	T34	1/27/22
69	T26659407	T34D	1/27/22
70	T26659408	T35	1/27/22
71	T26659409	T35D	1/27/22
72	T26659410	T36	1/27/22
73	T26659411	T37	1/27/22
74	T26659412	T38	1/27/22
75	T26659413	T39	1/27/22
76	T26659414	T40	1/27/22
77	T26659415	T41	1/27/22
78	T26659416	T42	1/27/22
79	T26659417	T43	1/27/22
80	T26659418	T44	1/27/22
81	T26659419	T45	1/27/22
82	T26659420	T46	1/27/22
83	T26659421	T47	1/27/22
84	T26659422	T48	1/27/22
85	T26659423	T49	1/27/22
86	T26659424	T50	1/27/22
87	T26659425	T51	1/27/22
88	T26659426	T52	1/27/22
89	T26659427	T53	1/27/22
90	T26659428	T54	1/27/22
91	T26659429	T55	1/27/22
92	T26659430	T55G	1/27/22

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	CJ01	Jack-Open	7	1	T26659339
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:52 2022 Page 1
ID:fGIai9?qNSljAv9NJPFv3izruuC-H71oQQVrex8uSdJUNqDIYoVahofq5WtkrJ32kYzrTtb

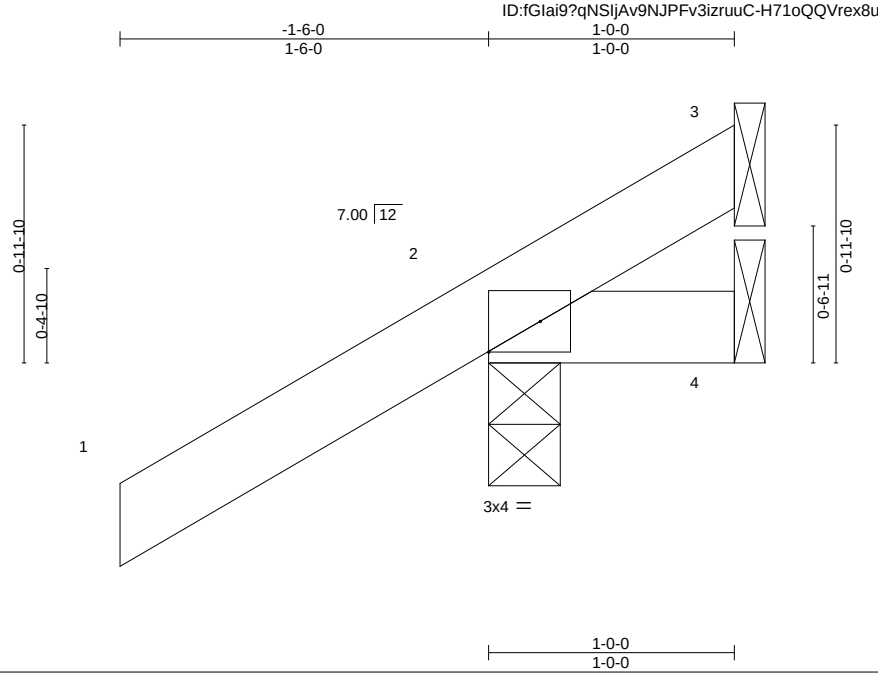


Plate Offsets (X,Y)-- [2:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 6 lb	FT = 20%

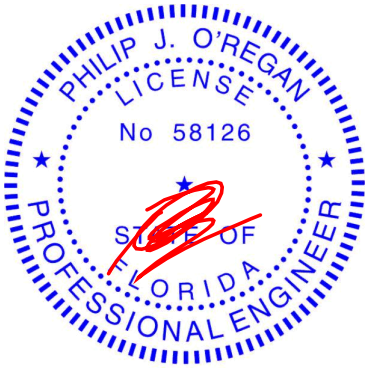
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=67(LC 12)
Max Uplift 3=-6(LC 1), 2=-114(LC 12), 4=-19(LC 1)
Max Grav 3=10(LC 16), 2=179(LC 1), 4=29(LC 16)

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=22ft; Cat. II; Exp C; 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, 4 except (jt=lb) 2=114.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659340
3000644	CJ01A	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:53 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-IKbAemWTPFGl3nuhxXkX4?2i4C_Cqz7u4zocG?zrTta

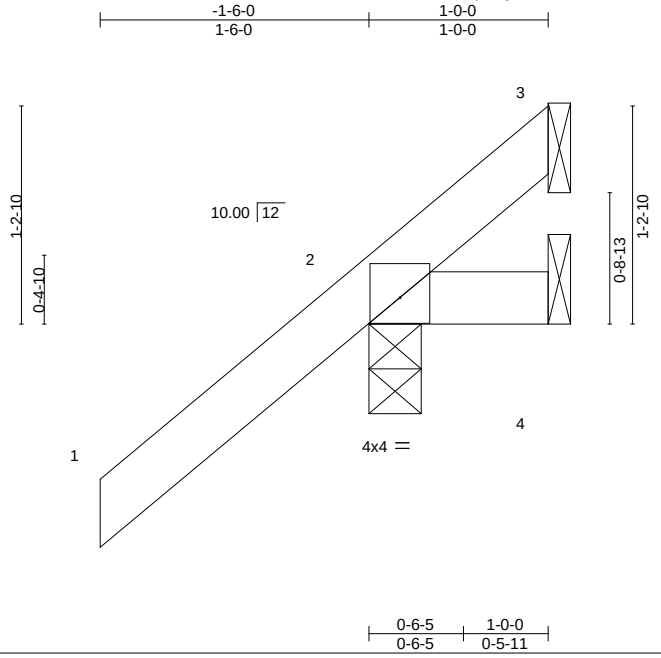


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%

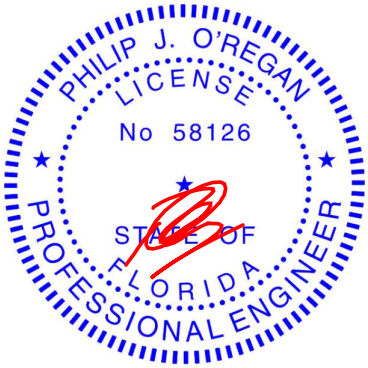
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=96(LC 12)
Max Uplift 3=-4(LC 1), 2=-123(LC 12), 4=-21(LC 19)
Max Grav 3=12(LC 8), 2=179(LC 1), 4=39(LC 16)

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=22ft; Cat. II; Exp C; 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, 4 except (jt=lb) 2=123.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	CJ02	Jack-Open	3	1	T26659341
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:53 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-IKbAemWTPFGl3nuhxXkX4?2lUC?3qz7u4zocG?zrTta

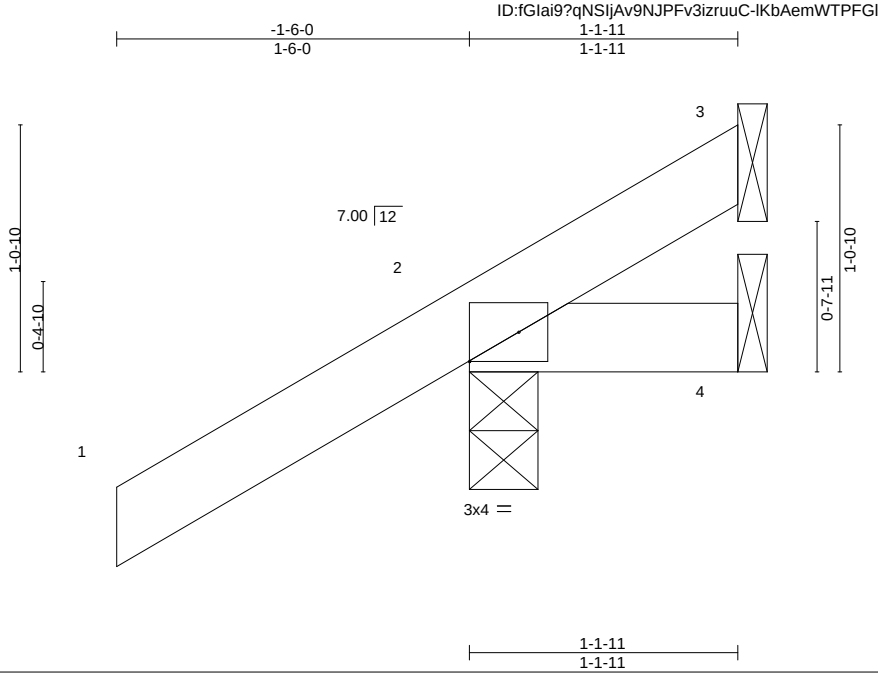


Plate Offsets (X,Y)-- [2:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 6 lb	FT = 20%

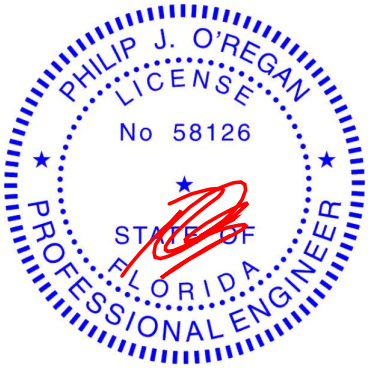
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-1-11 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=71(LC 12)
Max Uplift 3=-4(LC 12), 2=-109(LC 12), 4=-13(LC 1)
Max Grav 3=10(LC 8), 2=177(LC 1), 4=26(LC 16)

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=22ft; Cat. II; Exp C; 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, 4 except (jt=lb) 2=109.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	CJ02A	Jack-Open	1	1	T26659342
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:54 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-EW9Zr6W59YOchxTtUEGmdDawGcKGZQF1IcY9oRzrTtZ

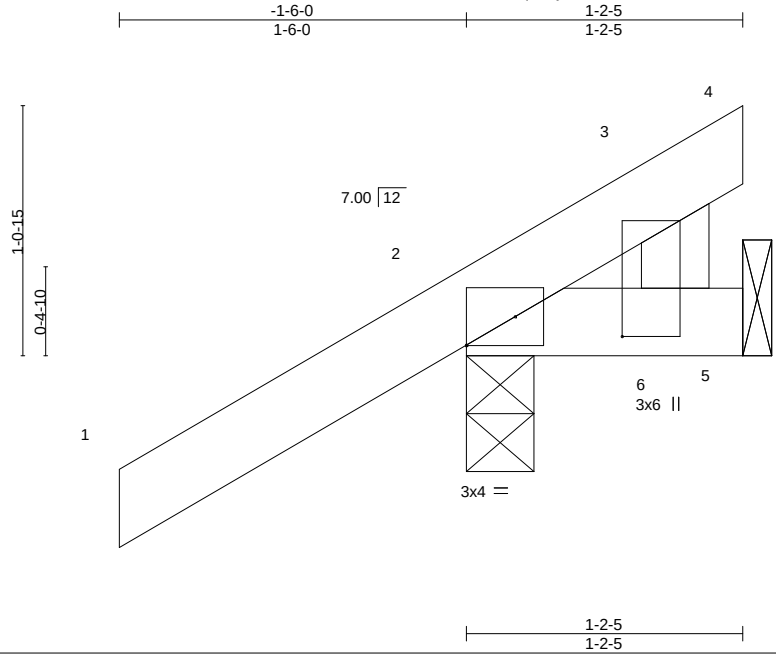


Plate Offsets (X,Y)-- [2:Edge,0-1-8], [6:0-0-7,0-8-1]

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	0.23	Vert(LL)	0.00	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%

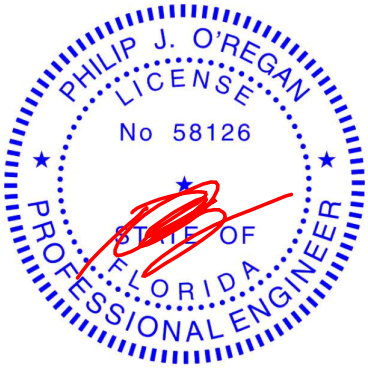
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-2-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical, 5=Mechanical
Max Horz 2=72(LC 12)
Max Uplift 2=-107(LC 12), 5=-17(LC 1), 5=-17(LC 1)
Max Grav 2=175(LC 1), 5=27(LC 16)

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=22ft; Cat. II; Exp C; 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) 5 except (jt=lb) 2=107.

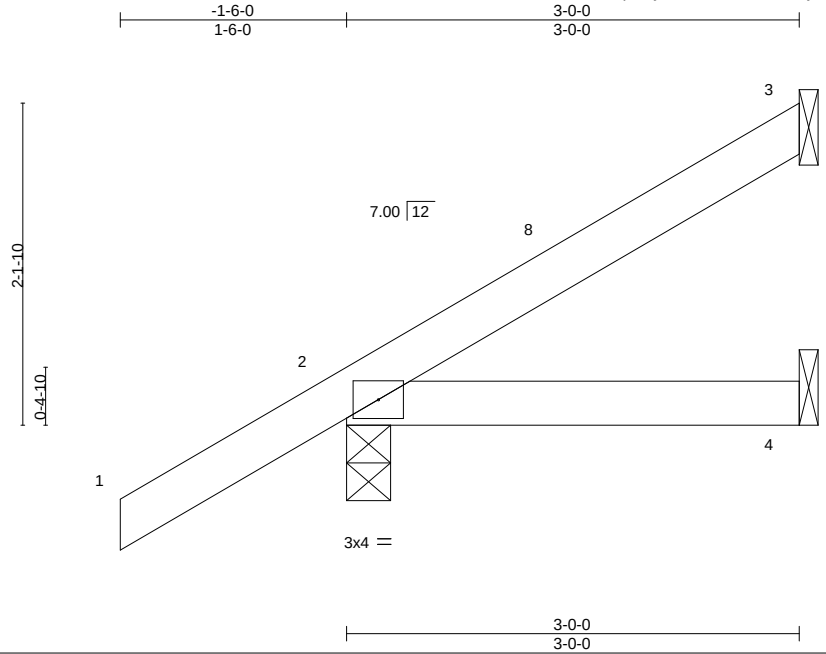


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659343
3000644	CJ03	Jack-Open	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:55 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-iijx3SXjwsWTJ5232yn?AQ75L?fvItdBXGHiKtzrTtY



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	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%

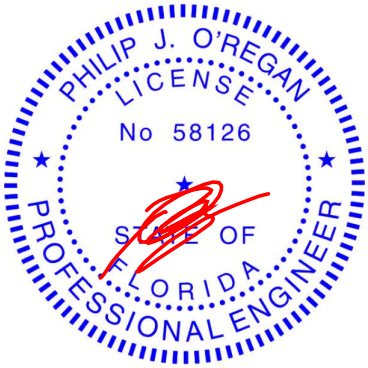
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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=125(LC 12)
Max Uplift 3=-63(LC 12), 2=-97(LC 12)
Max Grav 3=70(LC 19), 2=210(LC 1), 4=50(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; 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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659344
3000644	CJ03A	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:55 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-iijx3SXjwsWTJ5232yn?AQ73X?eSItdBXGHiKtzrTtY

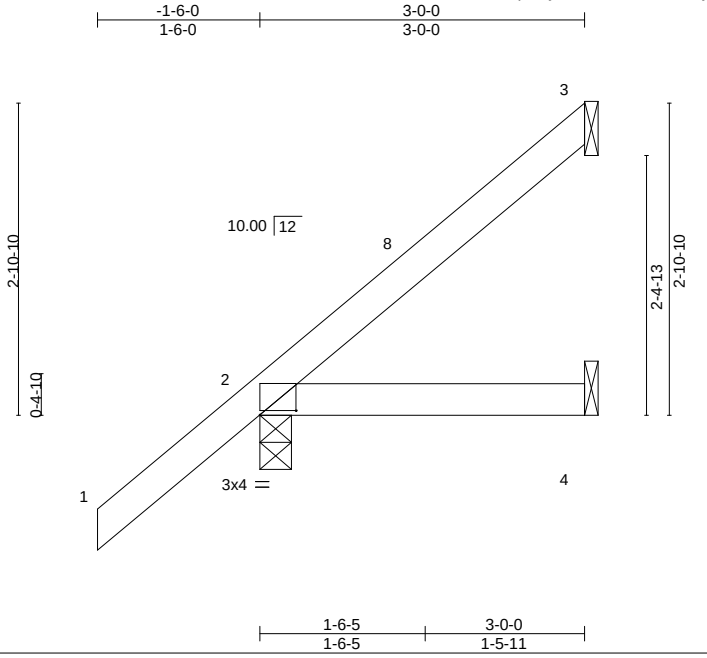


Plate Offsets (X,Y)-- [2:0-4-0,0-0-8]

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	0.33	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	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: 14 lb	FT = 20%

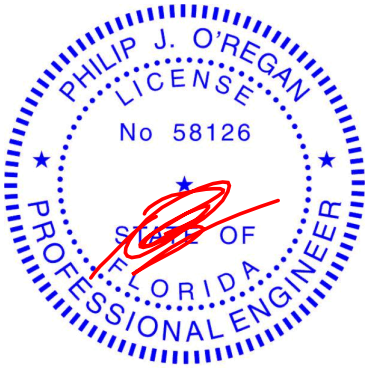
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=179(LC 12)
Max Uplift 3=-82(LC 12), 2=-76(LC 12), 4=-1(LC 12)
Max Grav 3=75(LC 19), 2=210(LC 1), 4=51(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=22ft; Cat. II; Exp C; 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, 4.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659345
3000644	CJ03B	Jack-Open	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:56 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-AvHJGoYMhAeKwFcGcfIEidgGyP0v1KlKmw1GtJzrTtX

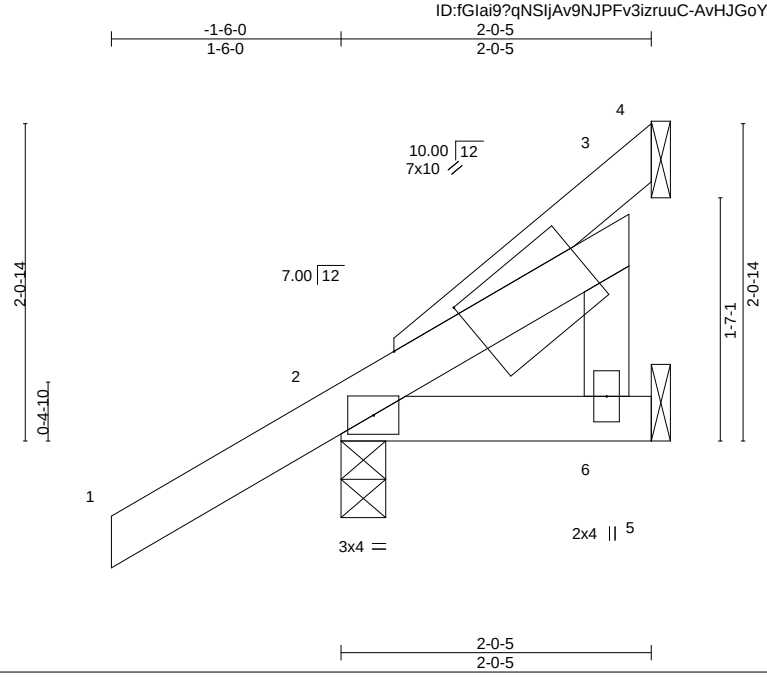


Plate Offsets (X,Y)-- [3:0-5-13,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 14 lb	FT = 20%

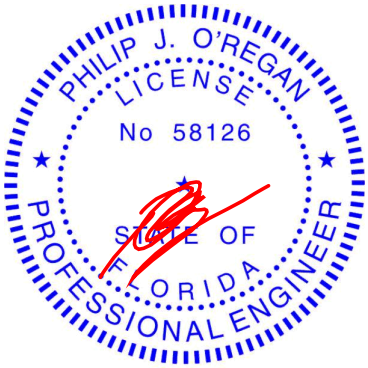
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=Mechanical, 4=Mechanical
Max Horz 2=89(LC 12)
Max Uplift 2=-98(LC 12), 6=-16(LC 12)
Max Grav 2=180(LC 1), 6=50(LC 3)

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

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

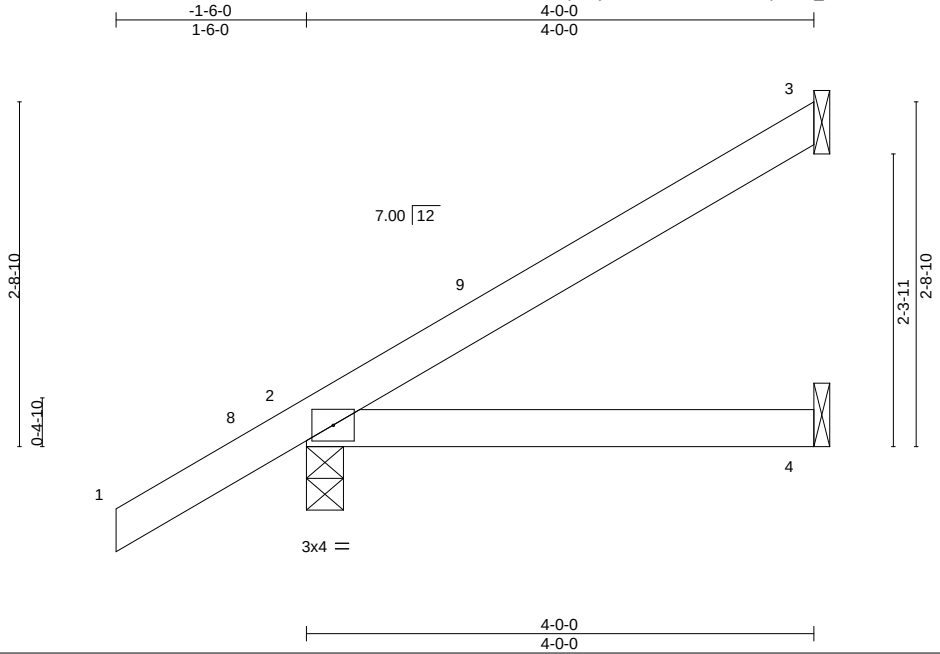


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659346
3000644	CJ04	Jack-Open	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:57 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-e5qhU7Z_STmBYOBSANpTFrCRxpKUmn7T_ampPmzrTtW



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	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: 16 lb	FT = 20%

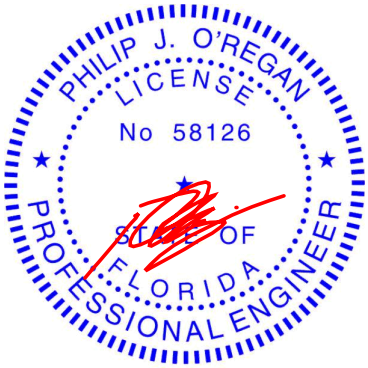
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 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=155(LC 12)
Max Uplift 3=-90(LC 12), 2=-102(LC 12), 4=-4(LC 12)
Max Grav 3=101(LC 19), 2=242(LC 1), 4=70(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=22ft; Cat. II; Exp C; 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 3-11-4 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, 4 except (jt=lb) 2=102.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	CJ04B	Jack-Open	3	1	T26659347
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:58 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-6HO3hTZcDnu2AYmej4Kin2lbeDhHVDxdDEWMxCzrTtV

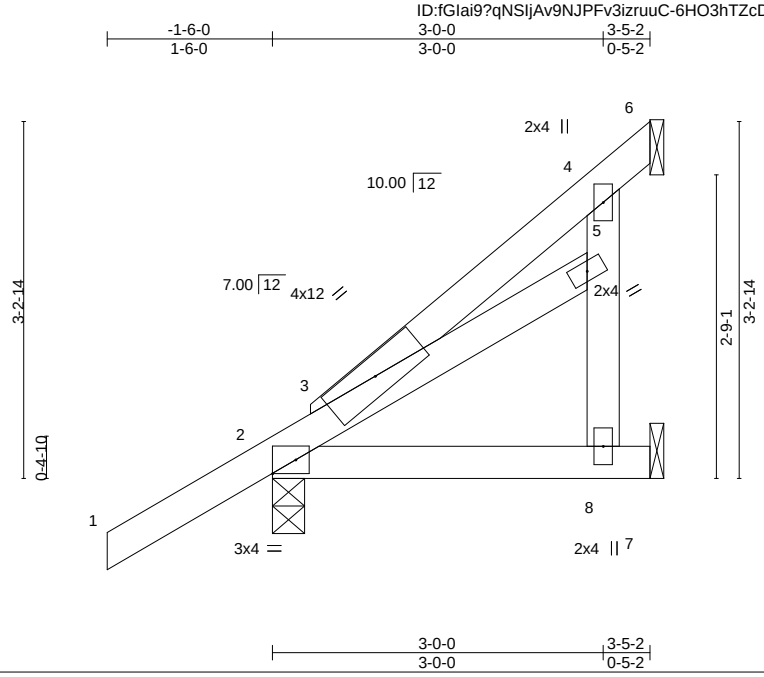


Plate Offsets (X,Y)-- [2:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.01	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.01	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 22 lb	FT = 20%

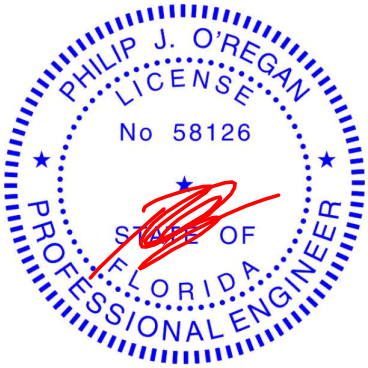
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-3-8, 7=Mechanical
Max Horz 2=179(LC 12)
Max Uplift 2=-68(LC 12), 7=-143(LC 12)
Max Grav 6=50(LC 16), 2=224(LC 1), 7=129(LC 19)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 0-5-0, Interior(1) 0-5-0 to 3-4-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=143.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

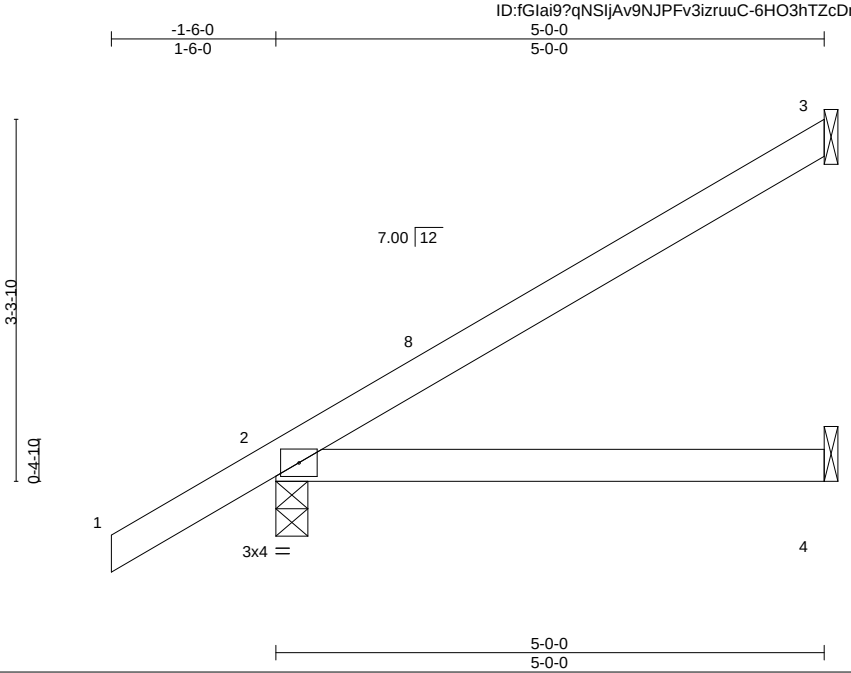


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	CJ05	Jack-Open	6	1	T26659348
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:58 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-6HO3hTZcDnu2AYmej4Kin2laLDfPVEMdDEWMxCzrTtV



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL	7.0	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: 19 lb	FT = 20%

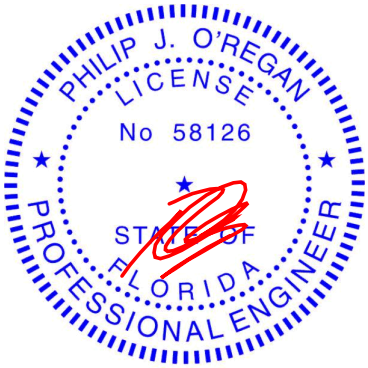
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=184(LC 12)
Max Uplift 3=-117(LC 12), 2=-108(LC 12), 4=-7(LC 12)
Max Grav 3=130(LC 19), 2=276(LC 1), 4=89(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; 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) 4 except (jt=lb) 3=117, 2=108.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	EJ01	Jack-Partial	9	1	T26659349
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:03:59 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-aUySupaE_50vniLrHorxKGIk4dyaEgHmSuFwTezrTtU

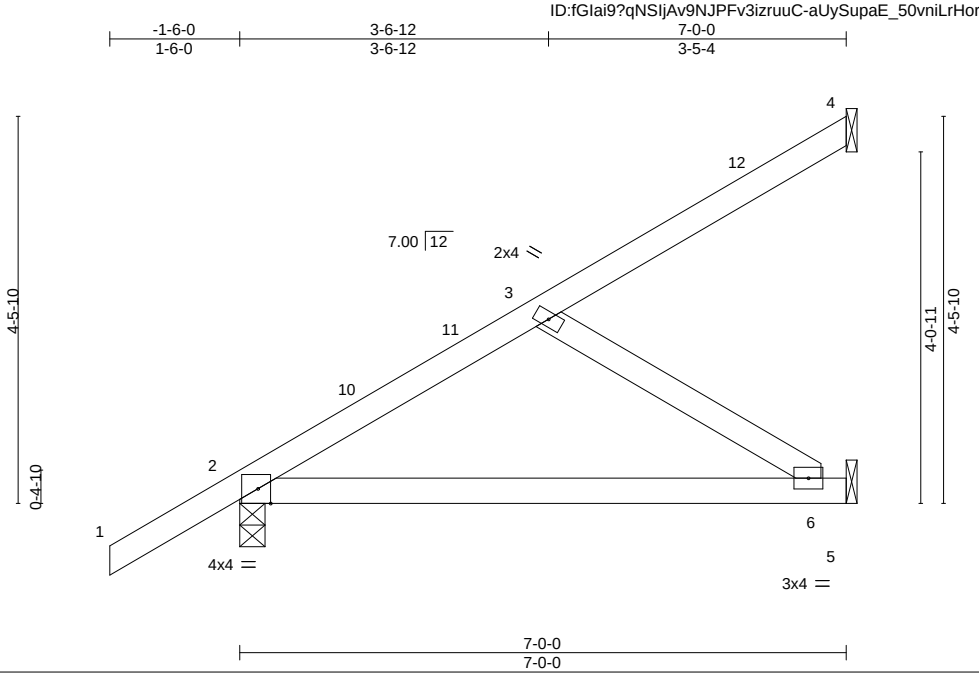


Plate Offsets (X,Y)-- [2:0-1-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.08	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.15	6-9	>544	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 31 lb	FT = 20%

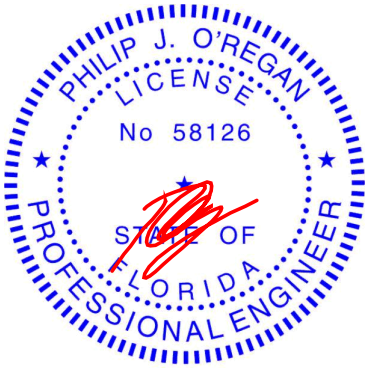
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=235(LC 12)
Max Uplift 4=-69(LC 12), 2=-128(LC 12), 5=-93(LC 12)
Max Grav 4=83(LC 19), 2=346(LC 1), 5=194(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-273/255

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; 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) 4, 5 except (jt=lb) 2=128.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	EJ02	Jack-Partial	3	1	T26659350
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:00 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-2gWq69bslO8mPsw1rVMAtTqxu0LIz5qwhY?T05zrTtT

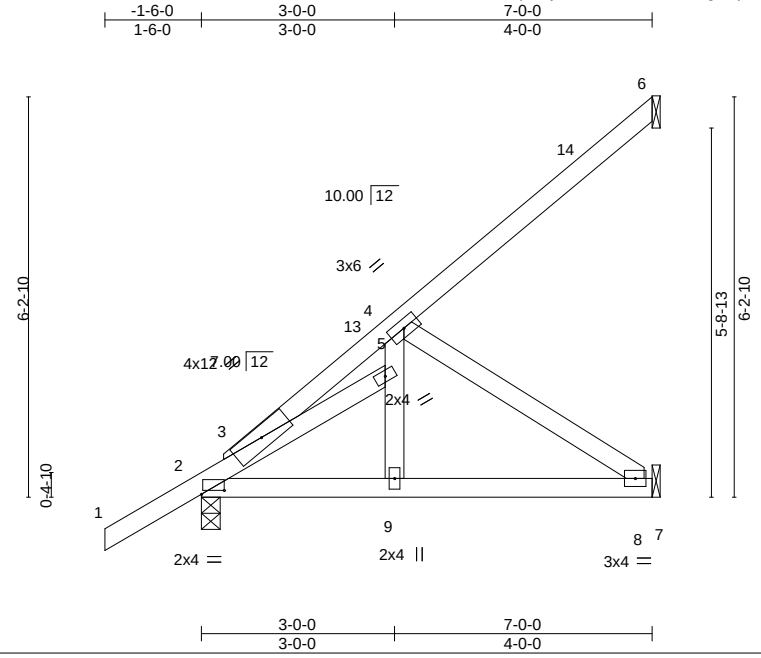


Plate Offsets (X,Y)-- [2:0-4-4,0-0-12]

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	0.22	Vert(LL)	-0.01	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.02	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 41 lb	FT = 20%

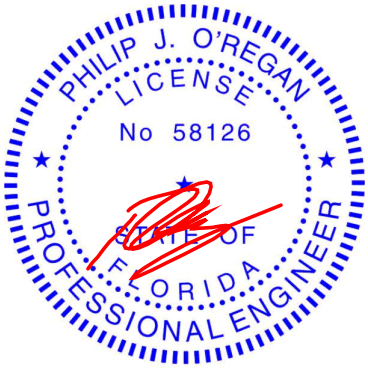
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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) 6=Mechanical, 2=0-3-8, 8=Mechanical
Max Horz 2=318(LC 12)
Max Uplift 6=-103(LC 12), 2=-69(LC 12), 8=-117(LC 12)
Max Grav 6=108(LC 19), 2=345(LC 1), 8=189(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-272/0, 2-3=0/278
BOT CHORD 2-9=-223/257, 8-9=-227/253
WEBS 4-8=-303/271

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 0-5-0, Interior(1) 0-5-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=103, 8=117.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	EJ03	Jack-Open	2	1	T26659351
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:01 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-Ws4CJVcUWiGc10VDPDuPPhN7CQfdiZM3vCk1YXzrTtS

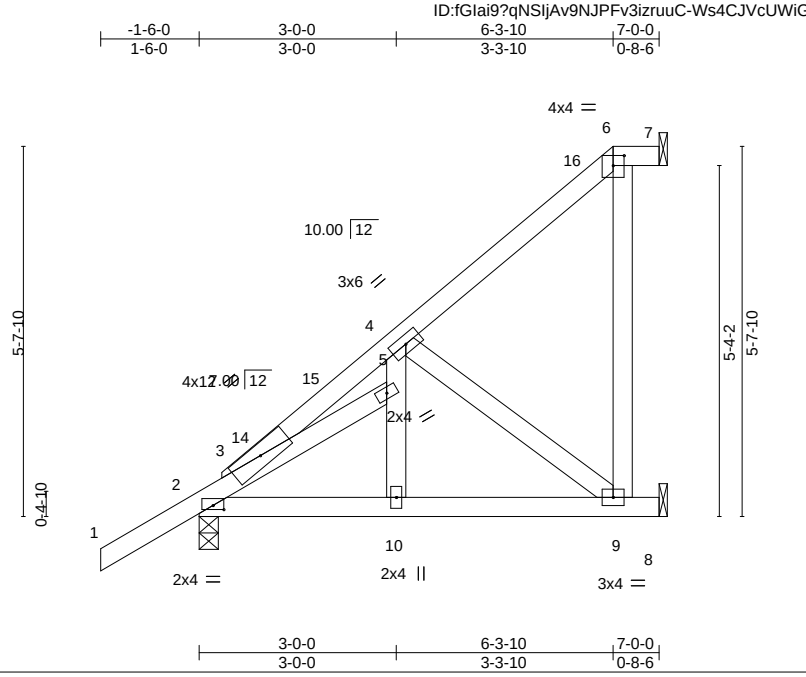


Plate Offsets (X,Y)-- [2:0-2-0,0-0-12], [6:0-2-0,0-1-13]

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	0.19	Vert(LL)	0.03	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.03	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 48 lb	FT = 20%

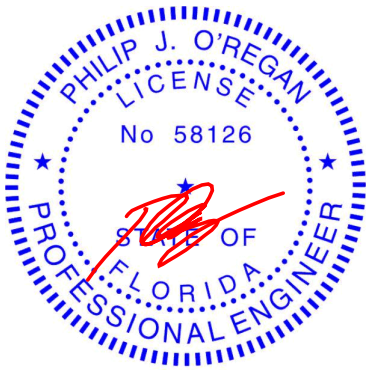
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 7=Mechanical, 2=0-3-8, 8=Mechanical
Max Horz 2=302(LC 12)
Max Uplift 7=-13(LC 9), 2=-84(LC 12), 8=-196(LC 12)
Max Grav 7=45(LC 3), 2=347(LC 1), 8=235(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-283/0, 2-3=0/289
BOT CHORD 2-10=-230/263, 9-10=-233/259
WEBS 4-9=-319/285

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 0-5-0, Interior(1) 0-5-0 to 6-3-10, Exterior(2E) 6-3-10 to 6-11-4 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) 7, 2 except (jt=lb) 8=196.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	EJ04	Jack-Open Girder	2	1	T26659352
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:02 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-?3eaXrd6H0PTeA4PywPeyuvH1qt7R?QD8sUa4zzrTtR

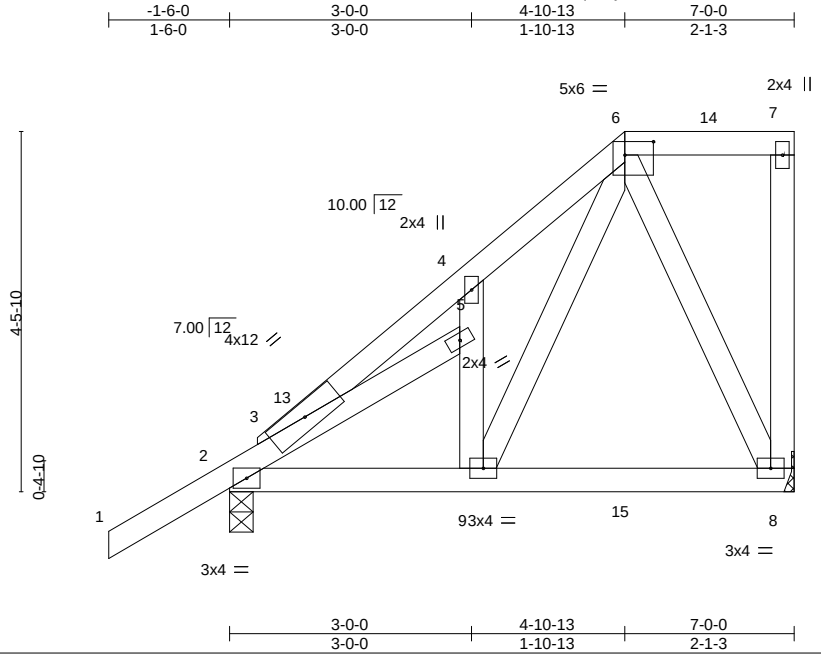


Plate Offsets (X,Y)-- [6:0-4-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.07	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.08	8-9	>983	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 52 lb	FT = 20%

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

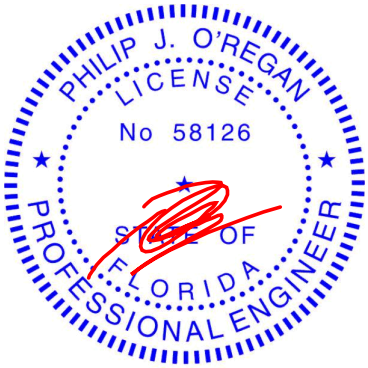
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-11-1 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=Mechanical
Max Horz 2=246(LC 8)
Max Uplift 2=-226(LC 8), 8=-420(LC 8)
Max Grav 2=472(LC 1), 8=565(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-526/241, 4-6=-555/374, 2-3=-217/535
BOT CHORD 2-9=-319/418
WEBS 6-8=-421/348, 6-9=-410/563

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=226, 8=420.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 156 lb down and 152 lb up at 4-10-13 on top chord, and 366 lb down and 302 lb up at 4-10-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 3-6=-54, 6-7=-54, 8-10=-20, 1-11=-54, 3-11=54
Concentrated Loads (lb)
Vert: 6=-109(F) 15=-339(F)



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	EJ05	Jack-Open	3	1	T26659353
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:02 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-?3eaXrd6H0PTeA4PywPeyuvAoqxzR1MD8sUa4zzrTtR

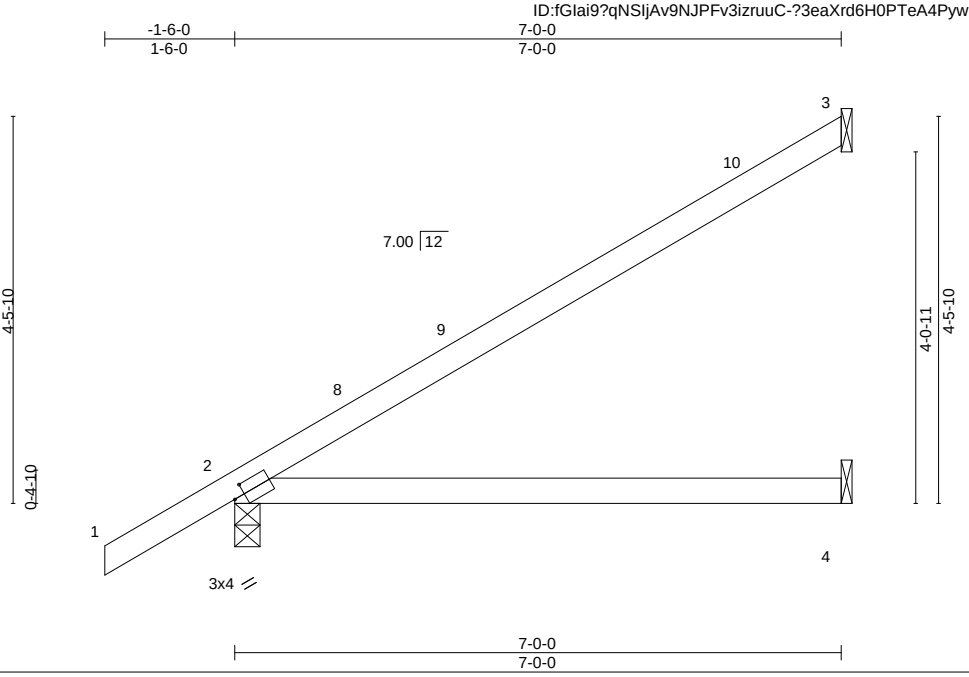


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.16	4-7	>526	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.22	4-7	>379	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 25 lb	FT = 20%

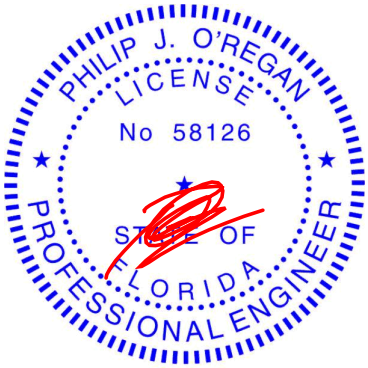
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=235(LC 12)
Max Uplift 3=-152(LC 12), 2=-128(LC 12), 4=-11(LC 12)
Max Grav 3=188(LC 19), 2=346(LC 1), 4=126(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; 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) 4 except (jt=lb) 3=152, 2=128.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659354
3000644	EJ06	Jack-Open	7	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:03 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-TFCykBdl2JXKGJfcWdwtU6SPPEGAATPMNWD7cQzrTtQ

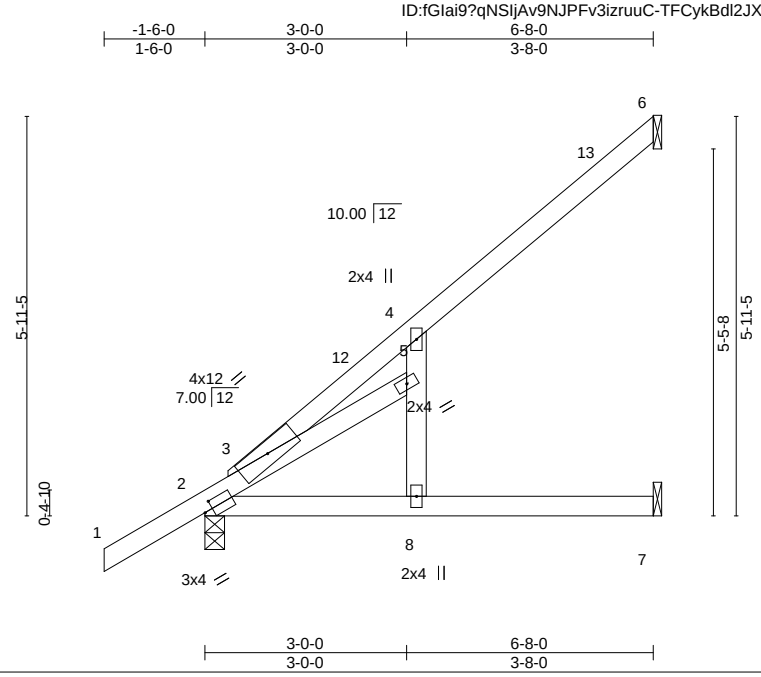


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	0.24	7-8	>325	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.22	7-8	>359	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 34 lb	FT = 20%

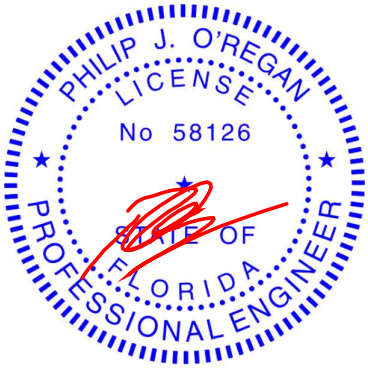
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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) 6=Mechanical, 2=0-3-8, 7=Mechanical
Max Horz 2=309(LC 12)
Max Uplift 6=-148(LC 12), 2=-68(LC 12), 7=-67(LC 12)
Max Grav 6=160(LC 19), 2=335(LC 1), 7=119(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-298/164, 2-3=-152/330

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 0-5-0, Interior(1) 0-5-0 to 6-7-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7 except (jt=lb) 6=148.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

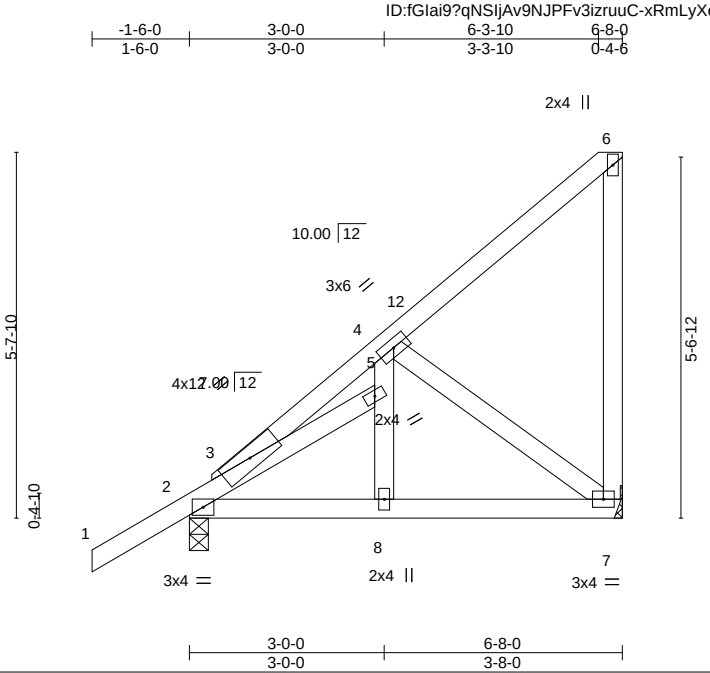


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	EJ07	Half Hip	1	1	T26659355
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:04 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-xRmLyXeNpdfBuTEo4LR61J?ePekevwFVbAzh9szrTtP



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	0.19	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 47 lb	FT = 20%

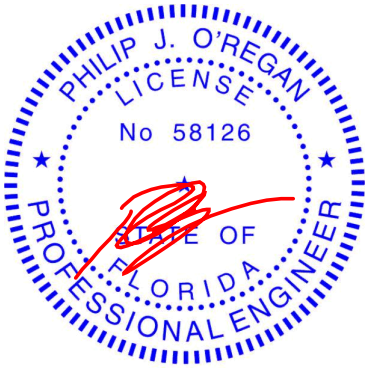
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 7=Mechanical
Max Horz 2=313(LC 12)
Max Uplift 2=-62(LC 12), 7=-227(LC 12)
Max Grav 2=332(LC 1), 7=276(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/251
WEBS 4-7=-283/244

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 0-5-0, Interior(1) 0-5-0 to 6-6-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=227.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	EJ08	Jack-Open Girder	1	1	T26659356
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:05 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-PeJj9tf?axn2Vdp_e2yLaXXpo1yNeMXfqqiEhIzrTtO

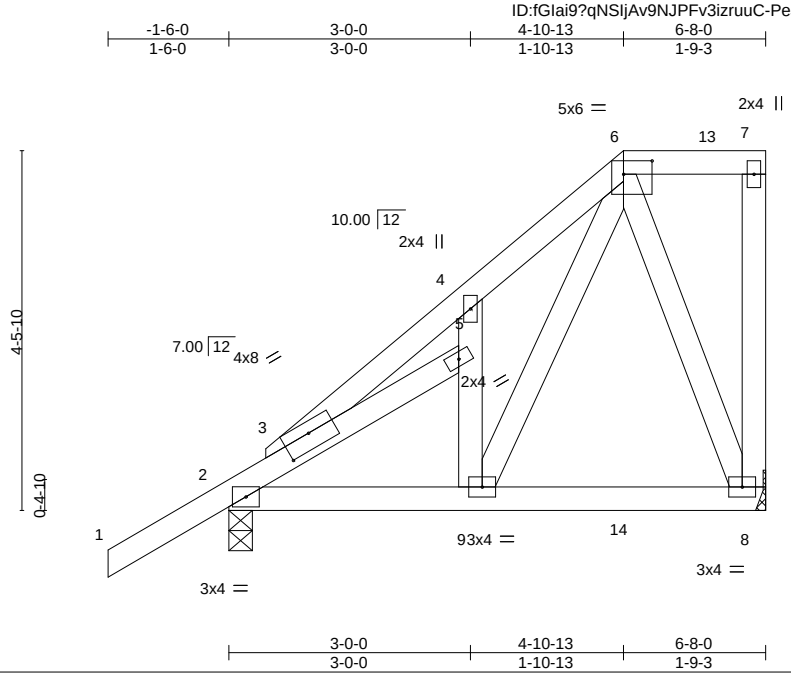


Plate Offsets (X,Y)-- [3:0-4-0,0-2-6], [6:0-4-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.05	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.05	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 51 lb	FT = 20%

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

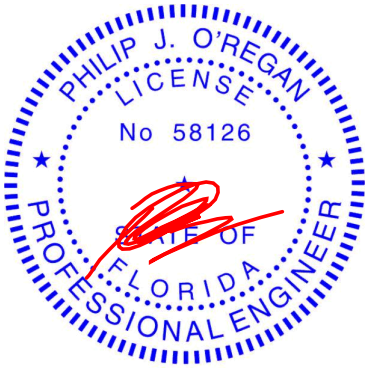
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=Mechanical
Max Horz 2=246(LC 27)
Max Uplift 2=-215(LC 8), 8=-470(LC 8)
Max Grav 2=433(LC 1), 8=537(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-431/212, 4-6=-475/354, 2-3=-447/190
BOT CHORD 2-9=-297/348
WEBS 6-8=-389/377, 6-9=-389/492

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=215, 8=470.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 192 lb down and 223 lb up at 4-10-13 on top chord, and 298 lb down and 271 lb up at 4-10-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 3-6=-54, 6-7=-54, 8-10=-20, 1-3=-54
Concentrated Loads (lb)
Vert: 6=-132(F) 14=-274(F)



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	EJ09	Jack-Open	1	1	T26659357
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:05 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-PeJj9tf?axn2Vdp_e2yLaXXlN10peO5fqqiEhIzrTtO

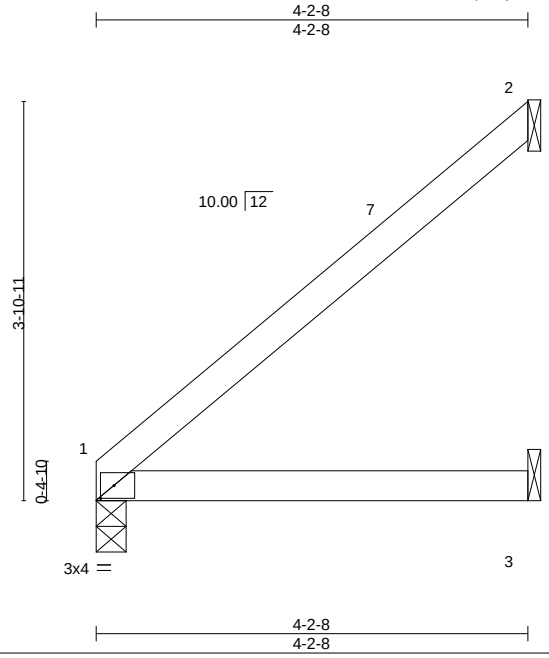


Plate Offsets (X,Y)-- [1:0-1-9,0-1-8]

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	0.43	Vert(LL)	0.04	3-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.03	3-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 15 lb	FT = 20%

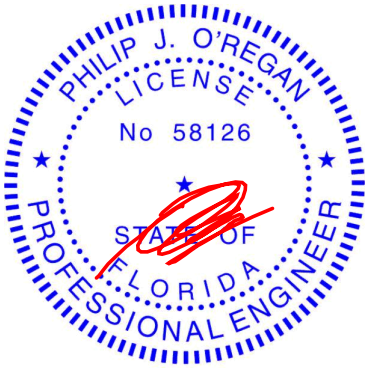
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=175(LC 12)
Max Uplift 2=-132(LC 12), 3=-18(LC 12)
Max Grav 1=153(LC 1), 2=121(LC 19), 3=77(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=22ft; Cat. II; Exp C; 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 4-1-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=132.

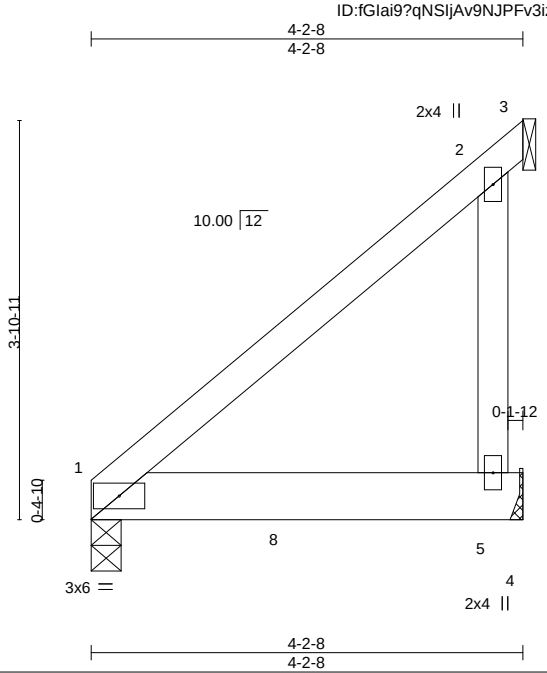


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659358
3000644	EJ10	Jack-Open Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:06 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-tqt5MCgdLEvv7nNBBmTa6k4_RROENqfo3USoDkzrTtN



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	-0.01	5-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.02	5-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

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

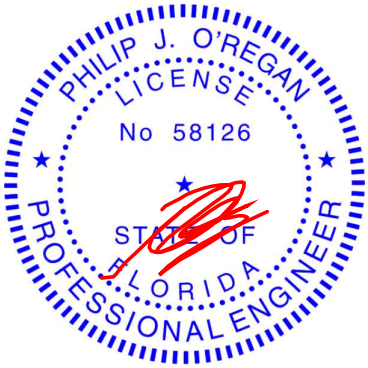
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 3=Mechanical, 5=Mechanical
Max Horz 1=175(LC 23)
Max Uplift 3=-253(LC 29), 5=-338(LC 8)
Max Grav 1=219(LC 1), 3=217(LC 8), 5=662(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-395/364

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) 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) 3=253, 5=338.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 170 lb down at 1-10-12, and 177 lb down at 3-10-12 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=-54, 1-4=-20
Concentrated Loads (lb)
Vert: 5=-177(F) 8=-170(F)



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	EJ11	Jack-Open	3	1	T26659359
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:07 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-L0RTaYgF6Y1mlxyNlT?pfyd8HrlW6IHyI8BLmBzrTtM

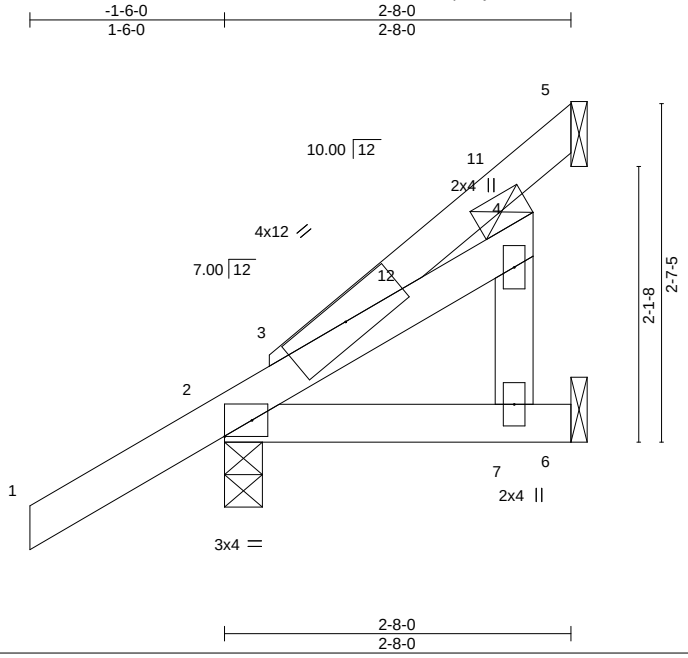


Plate Offsets (X,Y)-- [2:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.01	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 17 lb	FT = 20%

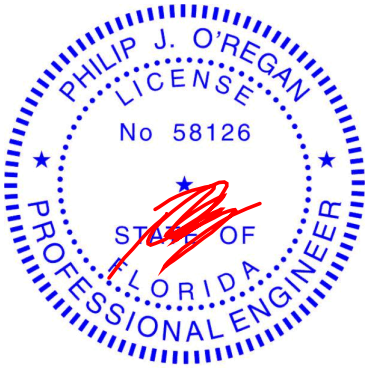
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 4

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=220(LC 12)
Max Uplift 5=-98(LC 12), 2=-98(LC 12), 6=-54(LC 12)
Max Grav 5=104(LC 19), 2=321(LC 1), 6=115(LC 19)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; 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 2-7-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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) 5, 2, 6.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659360
3000644	HJ01	Jack-Open	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:07 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-L0RTaYgF6Y1mlxyNlT?pfyd66rls6IbyI8BLmBzrTtM

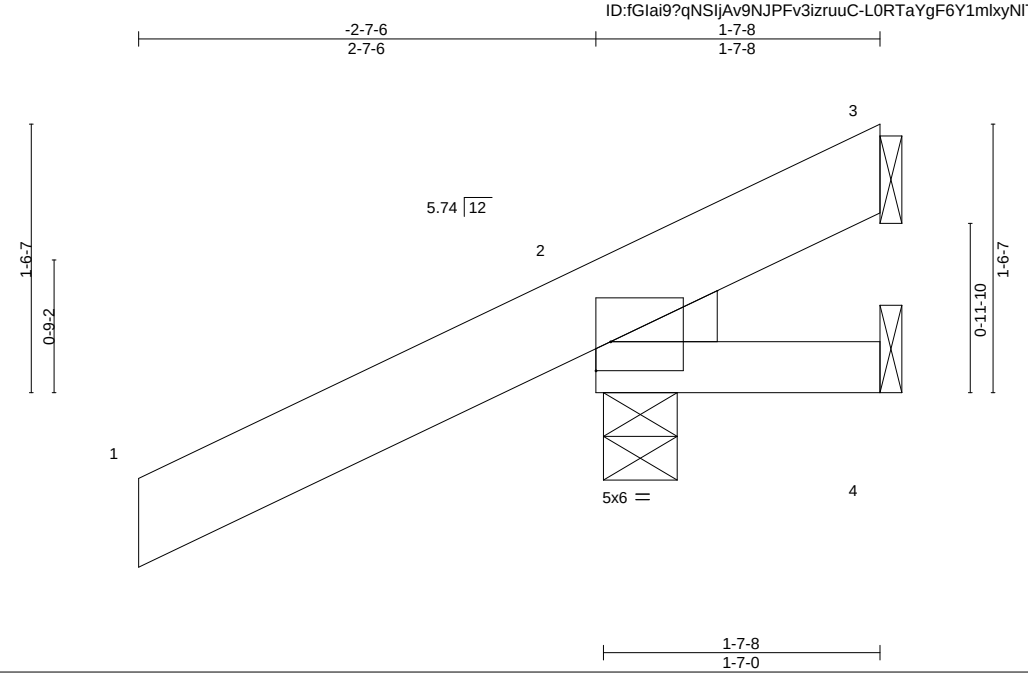


Plate Offsets (X,Y)-- [2:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 15 lb	FT = 20%

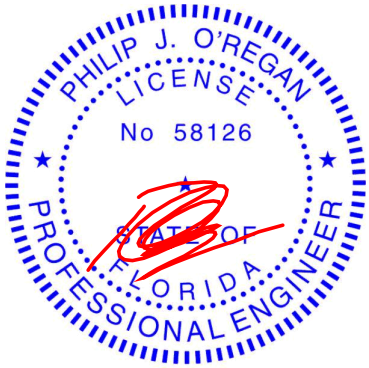
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-1, 4=Mechanical
Max Horz 2=93(LC 12)
Max Uplift 3=-38(LC 1), 2=-186(LC 12), 4=-17(LC 1)
Max Grav 3=37(LC 8), 2=315(LC 1), 4=25(LC 16)

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=186.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

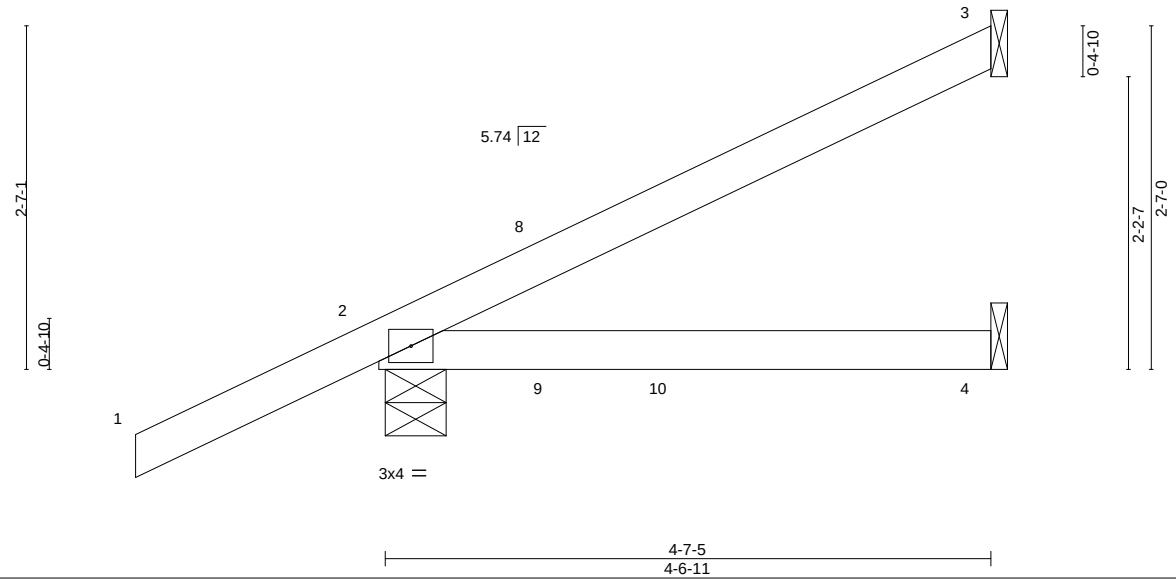
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	HJ05	Diagonal Hip Girder	1	1	T26659361 Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:08 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-pC?rnuhtsr9dM5XZJBW2B99JWF3Crlr5WoxuIdzrTtL

-1-10-0 / 1-10-0 — 4-7-5 / 4-7-5

Scale = 1:17.3



4-7-5 / 4-6-11

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	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.04	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 18 lb	FT = 20%

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

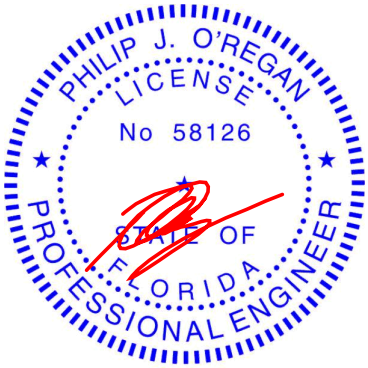
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=148(LC 26)
Max Uplift 3=-98(LC 8), 2=-157(LC 8), 4=-7(LC 8)
Max Grav 3=100(LC 1), 2=287(LC 1), 4=80(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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=157.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 92 lb up at 1-3-15 on top chord, and 28 lb down and 48 lb up at 1-3-15, and 29 lb down and 24 lb up at 2-2-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	HJ06	Jack-Open Girder	1	1	T26659362
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:09 2022 Page 1
ID:fGIai9?qNSljAv9NJPFv3izruuC-HPZE?EiVd9HU_E6mtu1HkNiStfNkaB1ElSgSq3zrTtK

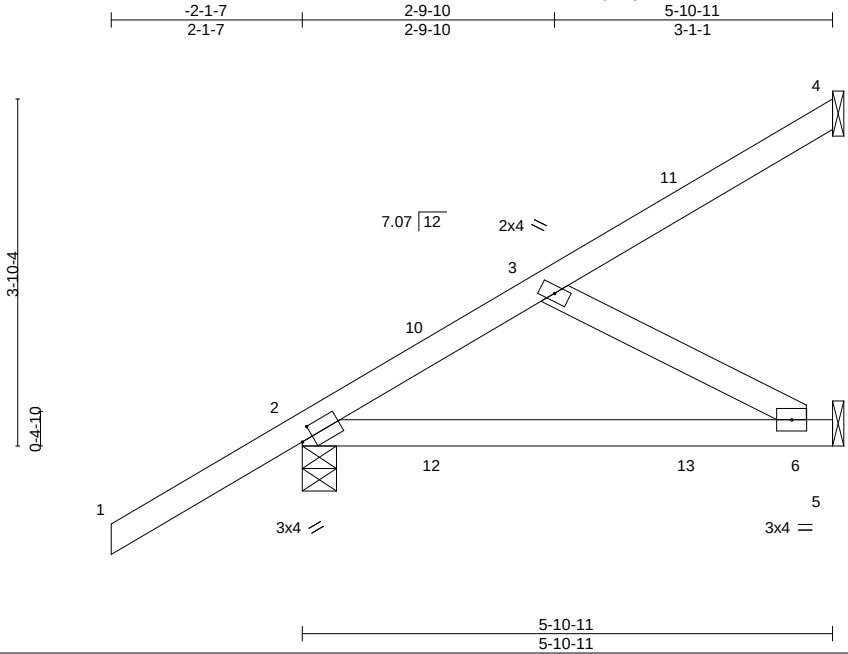


Plate Offsets (X,Y)-- [2:0-1-9,0-1-8]

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	0.34	Vert(LL)	-0.05	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.09	6-9	>811	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 28 lb	FT = 20%

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

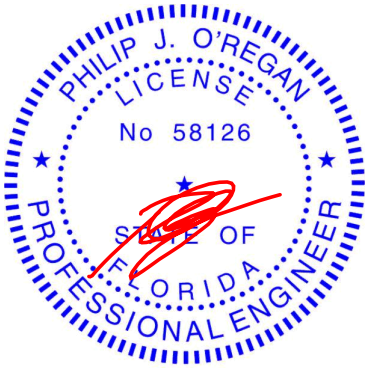
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=229(LC 26)
Max Uplift 4=-97(LC 8), 2=-206(LC 8), 5=-103(LC 8)
Max Grav 4=95(LC 32), 2=352(LC 1), 5=176(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-326/176

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=206, 5=103.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 89 lb up at 1-6-1, 93 lb down and 89 lb up at 1-6-1, and 119 lb down and 118 lb up at 4-4-0, and 119 lb down and 118 lb up at 4-4-0 on top chord, and 39 lb down and 48 lb up at 1-6-1, 39 lb down and 48 lb up at 1-6-1, and 31 lb down and 9 lb up at 4-4-0, and 31 lb down and 9 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-7=-20
Concentrated Loads (lb)
Vert: 13=-4(F=-2, B=-2)

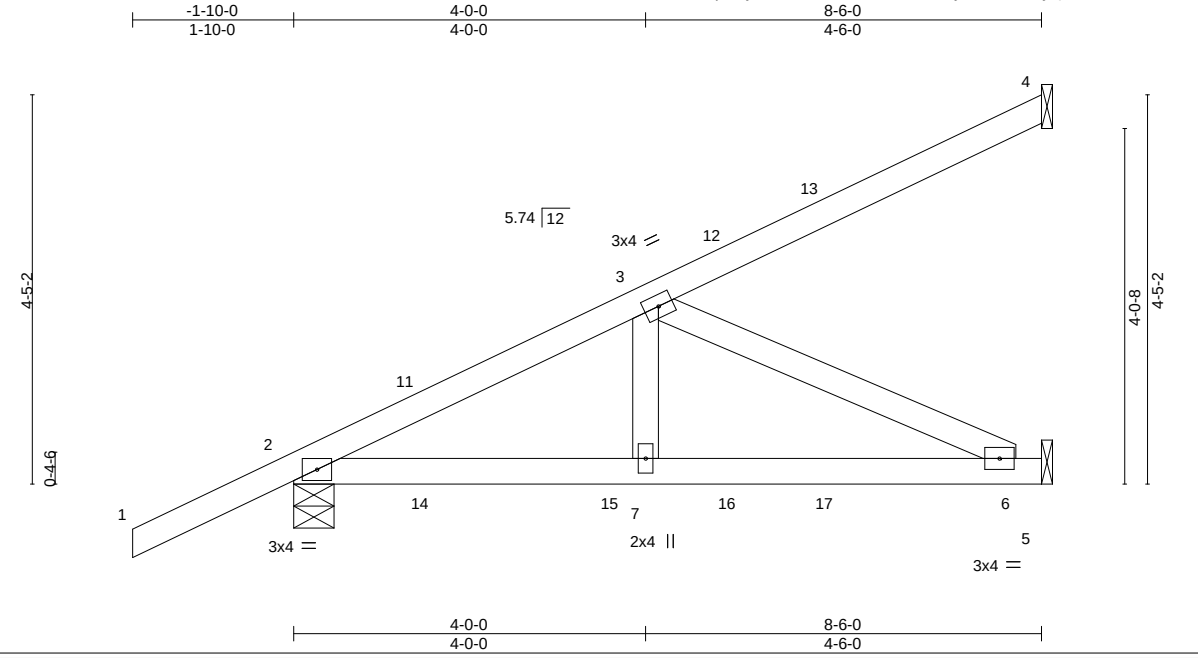


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659363
3000644	HJ09	Diagonal Hip Girder	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:10 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-mb7cCaj8OTPLcOhyQcYWHaFeo2iJJc?O_6Q?MWzrTtJ



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.07	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 39 lb	FT = 20%

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

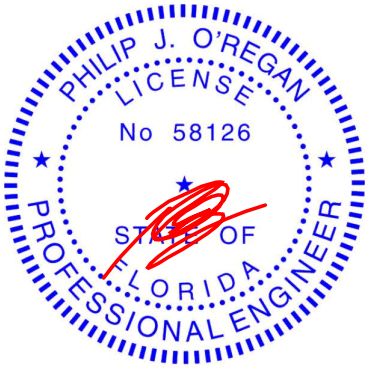
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-3-4 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical
Max Horz 2=243(LC 8)
Max Uplift 4=-217(LC 8), 2=-256(LC 8), 5=-247(LC 8)
Max Grav 4=210(LC 32), 2=416(LC 19), 5=336(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-557/302
BOT CHORD 2-7=-421/450, 6-7=-421/450
WEBS 3-6=-497/465

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=217, 2=256, 5=247.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 71 lb up at 1-6-0, 143 lb down and 94 lb up at 4-11-14, and 105 lb down and 59 lb up at 6-1-3, and 160 lb down and 159 lb up at 8-5-4 on top chord, and 23 lb down and 45 lb up at 1-6-0, 52 lb down and 25 lb up at 3-7-14, 37 lb down and 16 lb up at 4-11-14, and 91 lb down and 160 lb up at 6-1-3, and 91 lb down and 28 lb up at 8-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 4=-116(F) 6=-67(F) 11=71(F) 12=-2(F) 13=59(B) 15=-11(B) 16=-9(F) 17=-80(B)

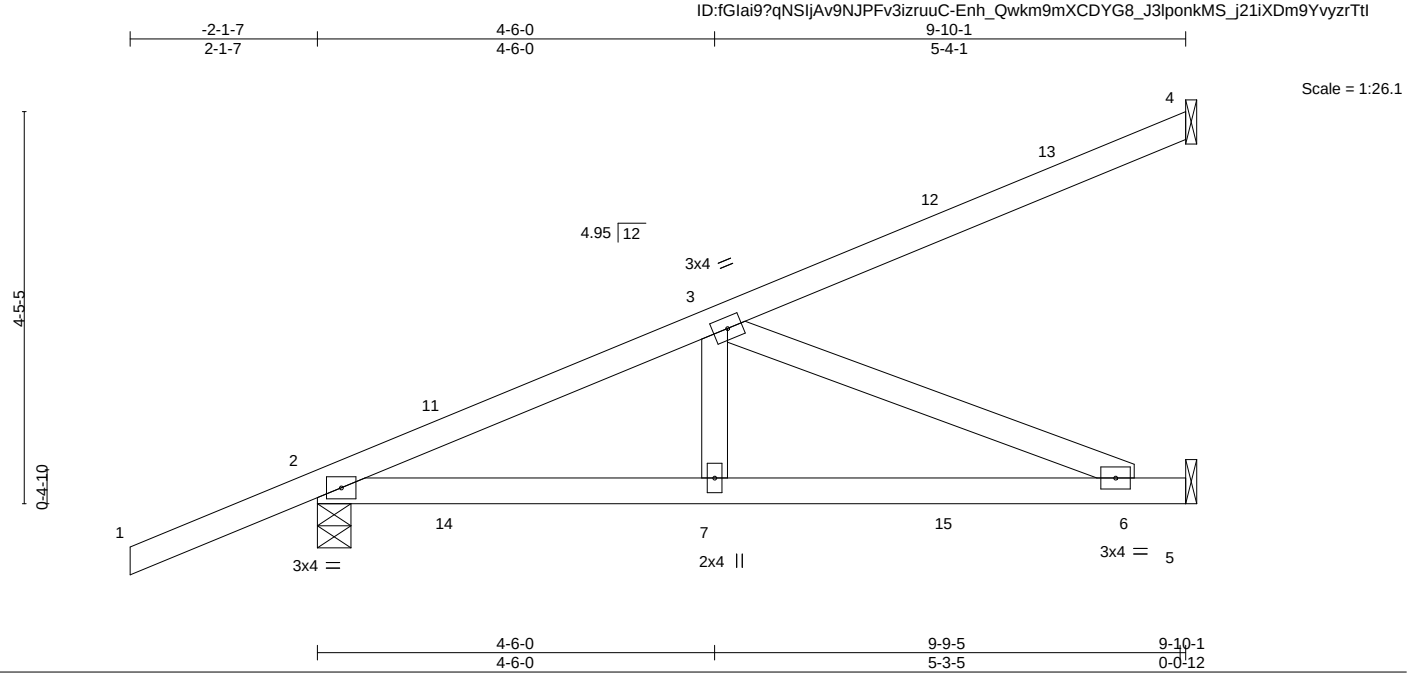


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	HJ10	Diagonal Hip Girder	3	1	T26659364 Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:11 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-Enh_Qwkm9mXCDYG8_J3lponkMS_j21iXDm9YvyzrTtI



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.09	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.14	6-7	>824	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 44 lb	FT = 20%

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

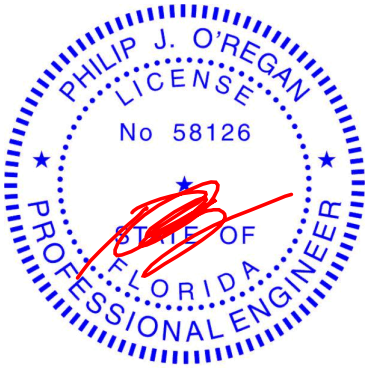
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-1-8 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=234(LC 8)
Max Uplift 4=-137(LC 8), 2=-319(LC 4), 5=-178(LC 8)
Max Grav 4=150(LC 1), 2=527(LC 1), 5=314(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-826/390
BOT CHORD 2-7=-492/667, 6-7=-492/667
WEBS 3-7=-32/301, 3-6=-720/531

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=137, 2=319, 5=178.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 76 lb up at 1-6-1, 89 lb down and 76 lb up at 1-6-1, 112 lb down and 62 lb up at 4-4-0, 112 lb down and 62 lb up at 4-4-0, and 146 lb down and 125 lb up at 7-1-15, and 146 lb down and 125 lb up at 7-1-15 on top chord, and 28 lb down and 46 lb up at 1-6-1, 28 lb down and 46 lb up at 1-6-1, 28 lb down and 8 lb up at 4-4-0, 28 lb down and 8 lb up at 4-4-0, and 50 lb down and 22 lb up at 7-1-15, and 50 lb down and 22 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-5(F=-3, B=-3) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

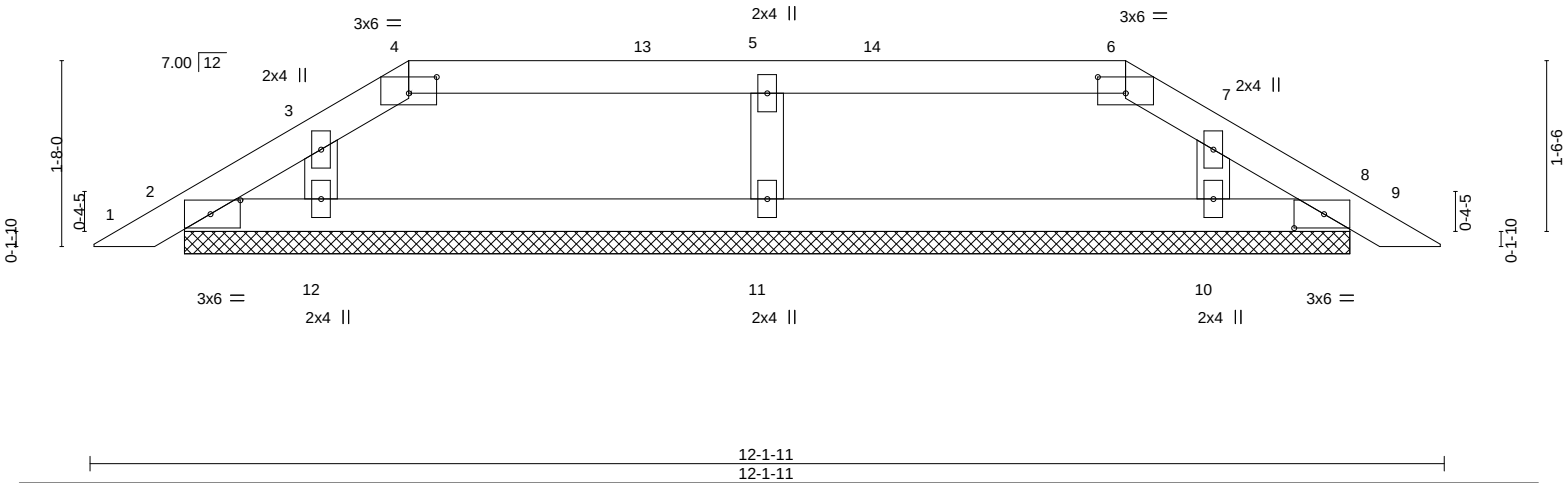
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	PB01	GABLE	2	1	T26659365
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:12 2022 Page 1
ID:fGIai9?qNSljAv9NJPFv3izruuC-i_EMdGkOw4f3rirKY0a_M?K0GsTVnZ2hRQv6ROzrTtH

2-10-5 | 9-3-7 | 12-1-11
2-10-5 | 6-5-2 | 2-10-5

Scale = 1:20.7



12-1-11
12-1-11

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

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	0.13	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	0.00	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 38 lb	FT = 20%

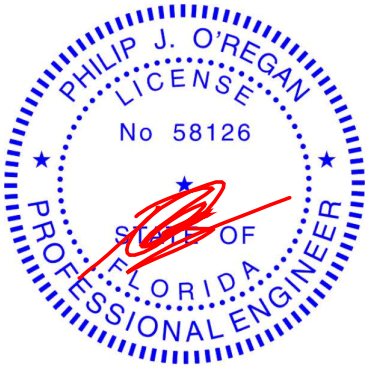
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 10-5-6.
(lb) - Max Horz 2=49(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 12, 10 except 11=-141(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 10 except 11=299(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-11 to 2-10-5, Exterior(2R) 2-10-5 to 7-1-3, Interior(1) 7-1-3 to 9-3-7, Exterior(2E) 9-3-7 to 11-10-0 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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 12, 10 except (jt=lb) 11=141.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

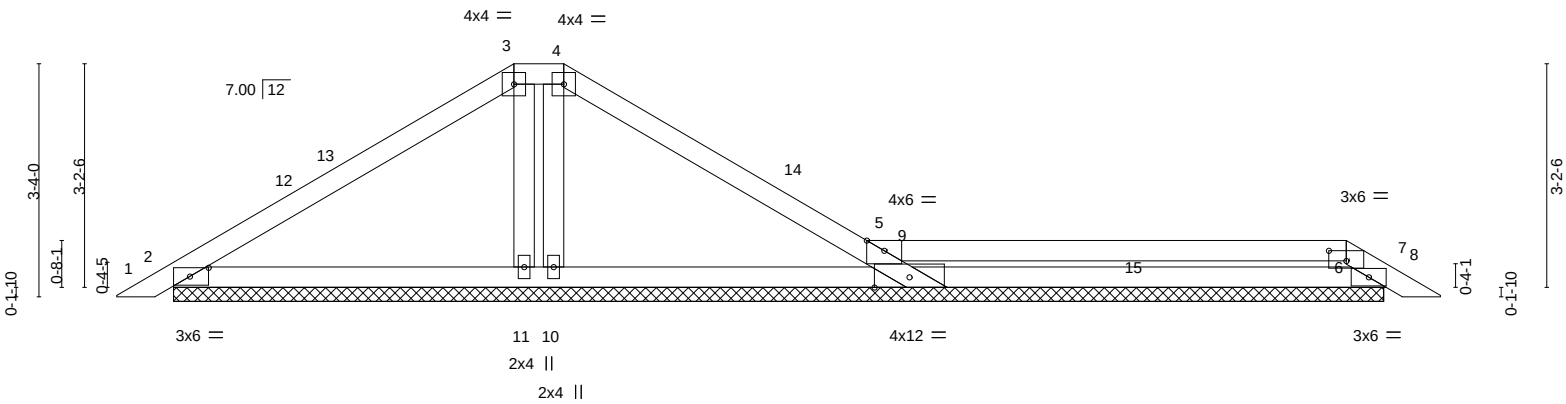
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	PB02	Piggyback	2	1	T26659366
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:13 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-AAokrcl0hOnwTsQX6k5DuDt6BGj8W0Kqg4efzqzrTtG

19-0-0
19-0-0

Scale = 1:33.0



19-0-0
19-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	0.01	8	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	0.02	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 66 lb	FT = 20%

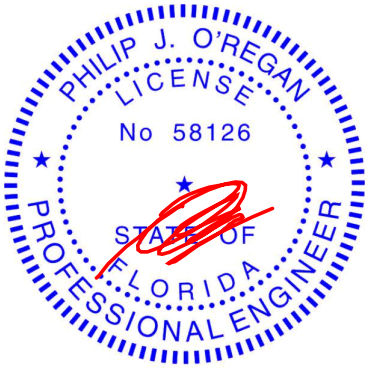
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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. All bearings 17-3-11.
(lb) - Max Horz 2=-103(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 9=-233(LC 13), 11=-189(LC 12), 10=-164(LC 8), 7=-136(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2 except 9=442(LC 1), 11=339(LC 23), 10=309(LC 24), 7=273(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-340/273, 6-7=-390/304
BOT CHORD 7-9=-271/340

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 5-8-9, Exterior(2E) 5-8-9 to 6-5-2, Exterior(2R) 6-5-2 to 9-5-2, Interior(1) 9-5-2 to 17-7-7, Exterior(2E) 17-7-7 to 18-8-5 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) Bearing at joint(s) 9, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=233, 11=189, 10=164, 7=136.
9) N/A
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

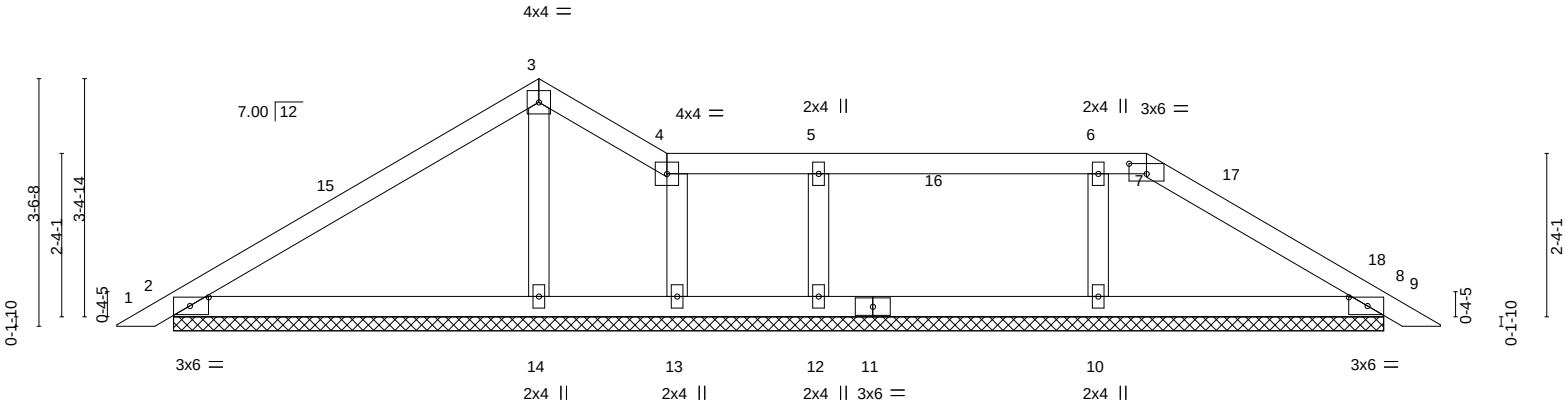
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	PB03	GABLE	2	1	T26659367
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:14 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-eMM72xmeShvm50?jfRdSRQPJ?f6VFTY_vkODVHzrTtF

6-0-14 | 14-9-2 | 19-0-0
6-0-14 | 8-8-5 | 4-2-14

Scale = 1:33.0



19-0-0
19-0-0

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

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	0.31	Vert(LL)	0.00	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	0.01	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 69 lb	FT = 20%

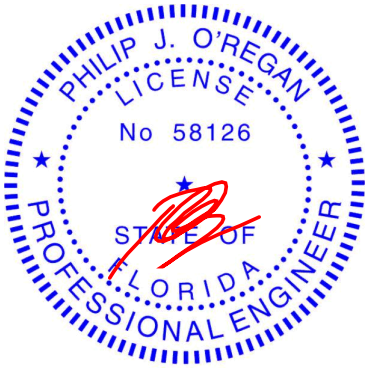
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 17-3-11.
(lb) - Max Horz 2=110(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 8 except 2=-108(LC 12), 14=-119(LC 12), 12=-151(LC 9), 10=-155(LC 13), 13=-104(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 13 except 14=357(LC 19), 12=257(LC 1), 10=321(LC 24)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 6-0-14, Exterior(2E) 6-0-14 to 7-10-13, Interior(1) 7-10-13 to 14-9-2, Exterior(2R) 14-9-2 to 17-9-2, Interior(1) 17-9-2 to 18-8-5 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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=108, 14=119, 12=151, 10=155, 13=104.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	PB04	GABLE	2	1	T26659368
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:15 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-6ZwVFHnGD?1di9ZvD98h_eyVO3Ta_vL77O7m2jzrTtE

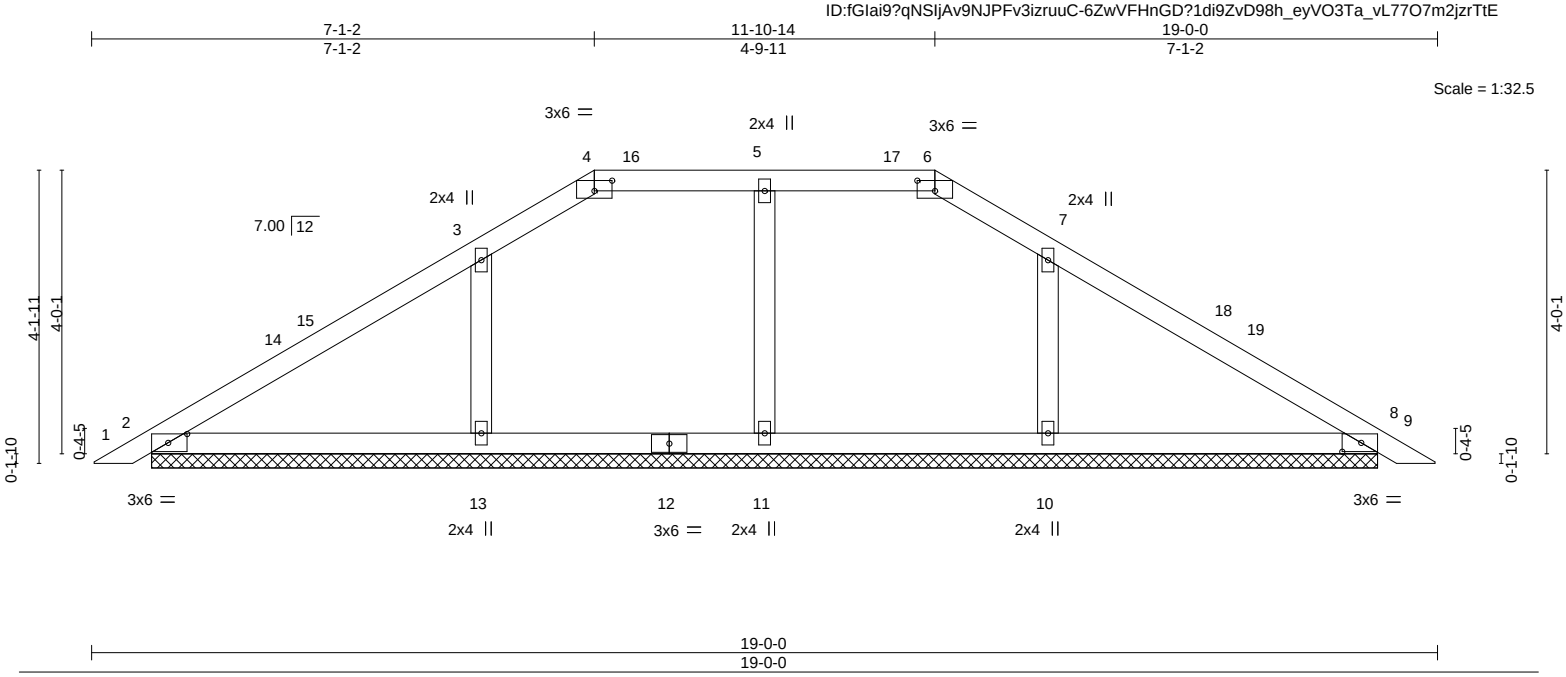


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [4:0-3-0,0-1-12], [6:0-3-0,0-1-12], [8:0-3-3,0-1-8]

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	0.21	Vert(LL)	0.01	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.01	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 70 lb	FT = 20%

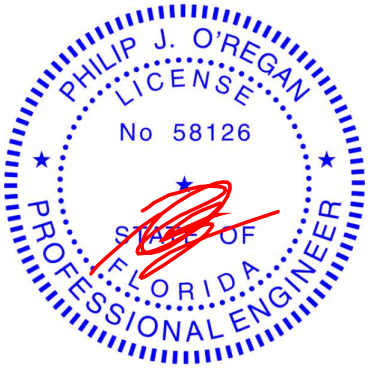
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 17-3-11.
(lb) - Max Horz 2=-129(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 11=-110(LC 9), 13=-254(LC 12), 10=-250(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 11, 8 except 13=396(LC 19), 10=392(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-13=-282/266, 7-10=-277/262

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 7-1-2, Exterior(2R) 7-1-2 to 11-4-1, Interior(1) 11-4-1 to 11-10-14, Exterior(2R) 11-10-14 to 16-1-12, Interior(1) 16-1-12 to 18-8-5 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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 11=110, 13=254, 10=250.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	PB05	GABLE	6	1	T26659369
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:16 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-alUtTdnu_J9UKJ86nsfwWrVgjTphjMSGM2tJa9zrTtD

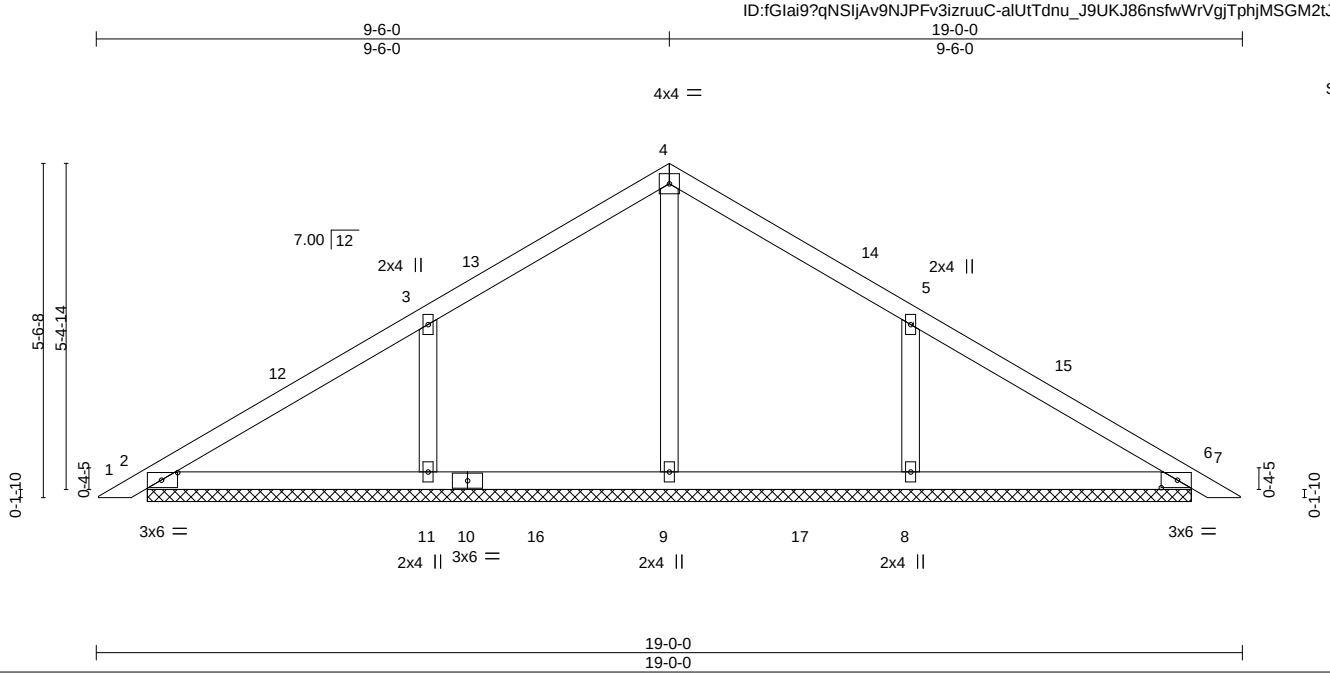


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [6:0-3-3,0-1-8]

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	0.23	Vert(LL)	0.01	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	0.01	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 73 lb	FT = 20%

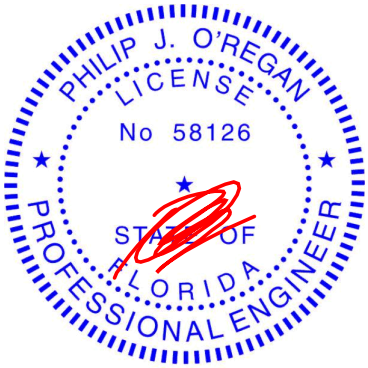
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 17-3-11.
(lb) - Max Horz 2=-174(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 11=-285(LC 12), 8=-284(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=316(LC 19), 11=513(LC 19), 8=513(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-321/299, 5-8=-321/298

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 9-6-0, Exterior(2R) 9-6-0 to 12-6-0, Interior(1) 12-6-0 to 18-8-5 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 4-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 11=285, 8=284.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659370
3000644	PB06	Piggyback	14	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:17 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-2x2FgzoXlcILyTjILaA9331ubtBBSq3Qbhct6czrTtC

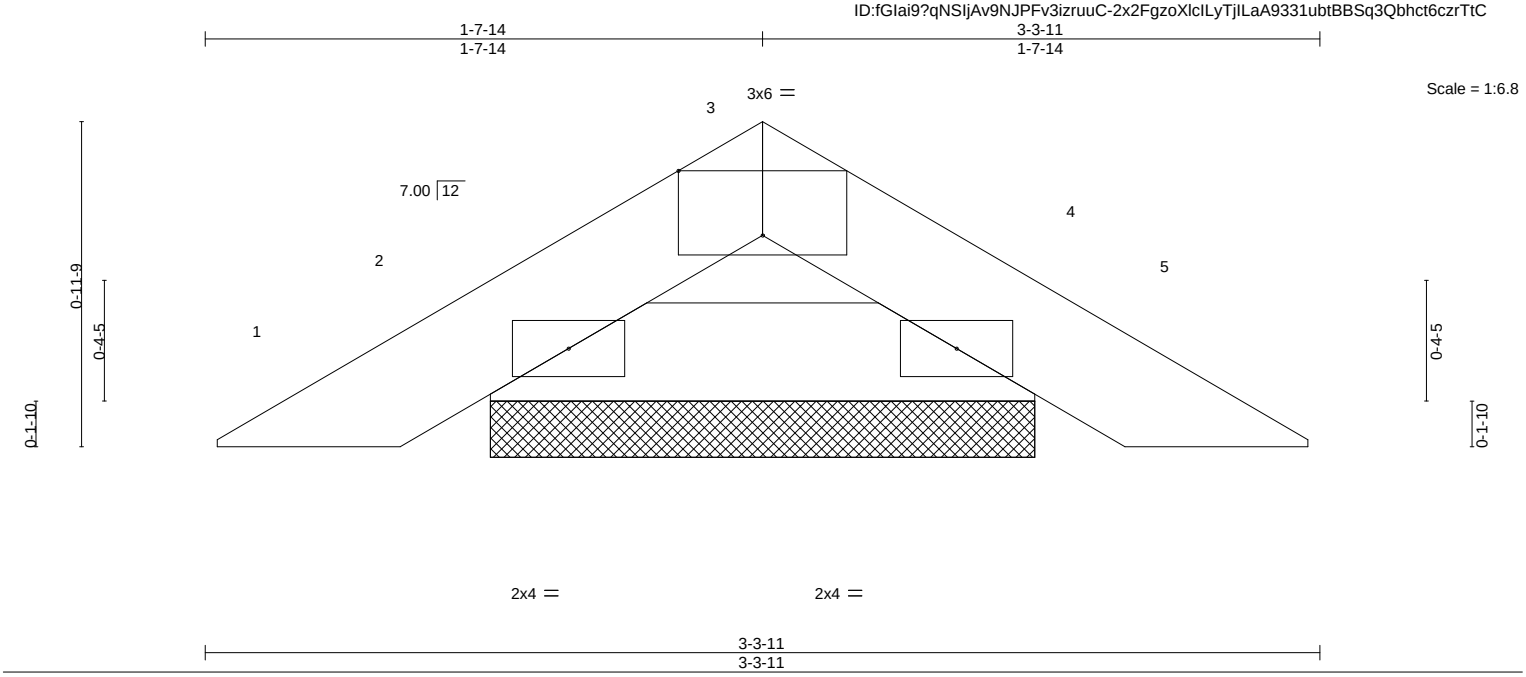


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

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	0.03	Vert(LL)	-0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 8 lb	FT = 20%

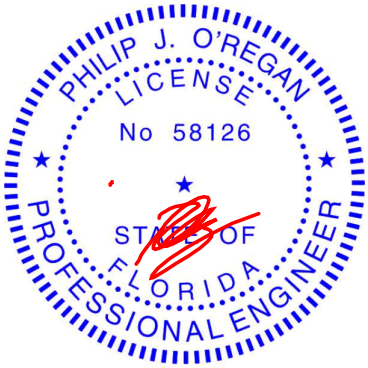
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=1-7-6, 4=1-7-6
Max Horz 2=26(LC 11)
Max Uplift 2=-45(LC 12), 4=-45(LC 13)
Max Grav 2=89(LC 1), 4=89(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T01G	Roof Special Supported Gable	1	1	T26659371
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:17 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-2x2FgzoXlcILyTjILaA9331m7t8USpeQbhct6czrTtC

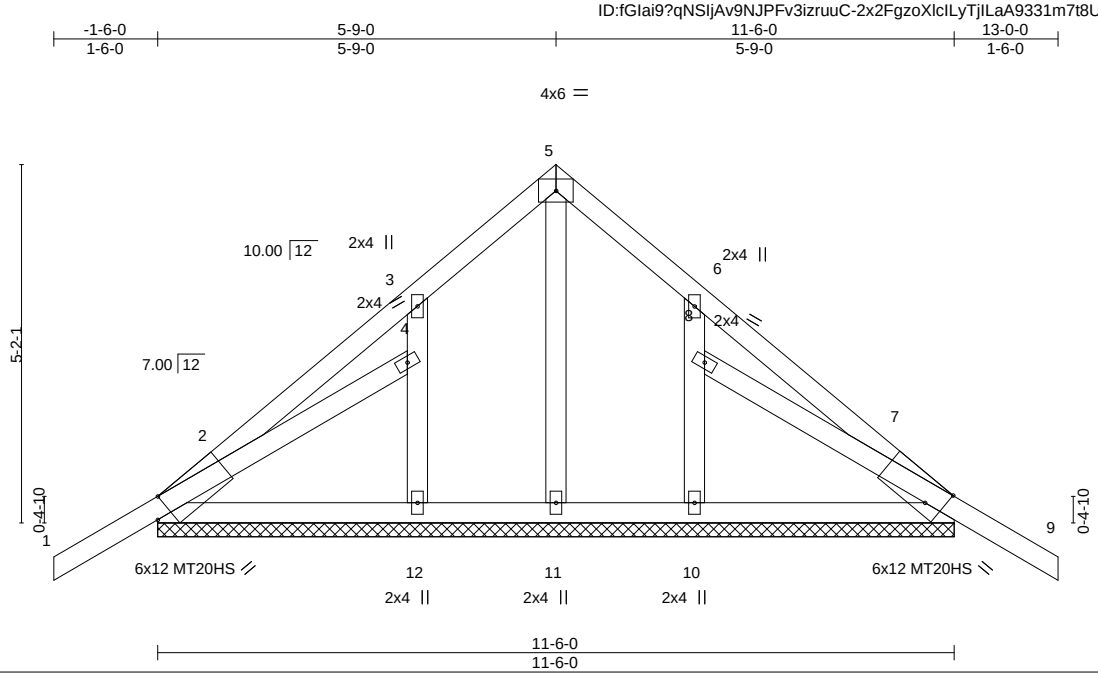


Plate Offsets (X,Y)-- [2:0-2-10,Edge], [5:0-0-1,0-0-0], [7:0-2-15,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.04	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.06	9	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 73 lb	FT = 20%

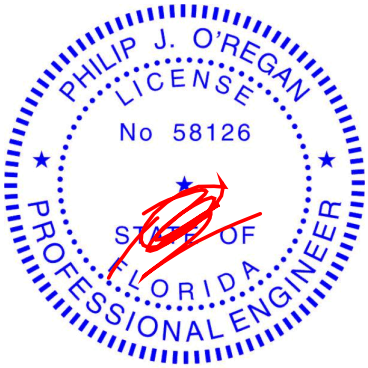
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 11-6-0.
(lb) - Max Horz 2=-183(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 7=-106(LC 13), 12=-179(LC 12), 10=-192(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 11, 12, 10 except 7=282(LC 1), 2=281(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-12=-232/271, 3-4=-217/290, 8-10=-233/272, 6-8=-217/291

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 0-9-0, Exterior(2N) 0-9-0 to 5-9-0, Corner(3R) 5-9-0 to 8-9-0, Exterior(2N) 8-9-0 to 13-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are MT20 plates unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=106, 12=179, 10=192.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T02	Roof Special	11	1	T26659372
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:18 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-X8cduJp9WwQCZdIUuHhObGaxwHRfB9JZqLMQe2zrTtB

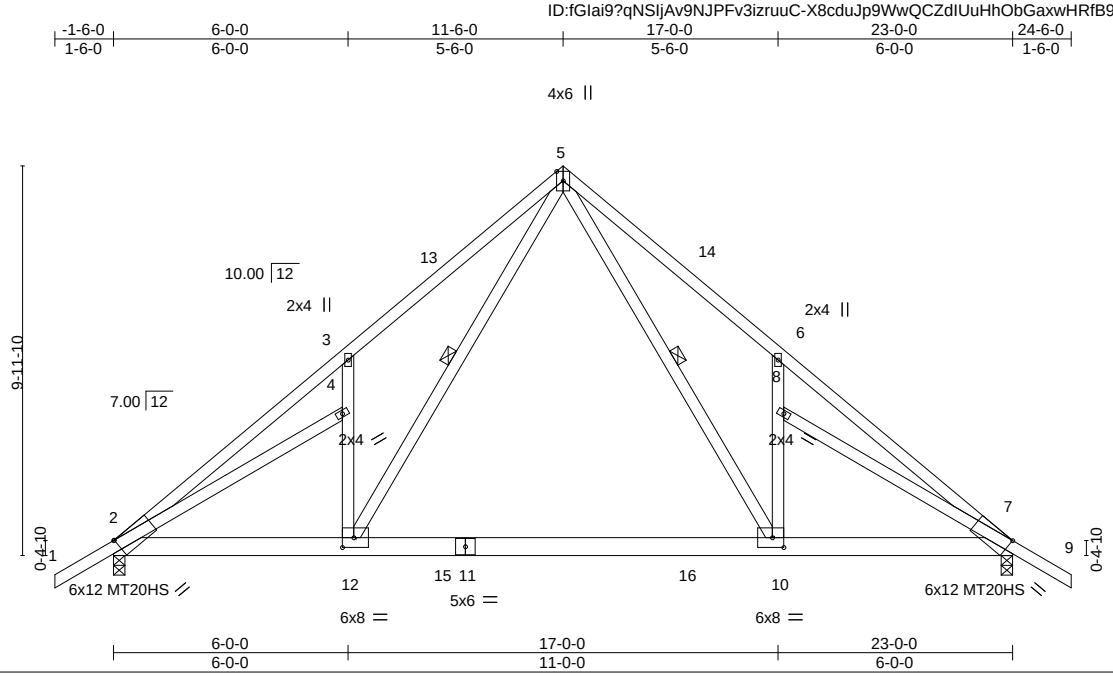


Plate Offsets (X,Y)-- [2:0-0-4,Edge], [7:0-0-0,Edge], [10:0-3-8,0-3-0], [12:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.23	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.42	10-12	>648	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 169 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

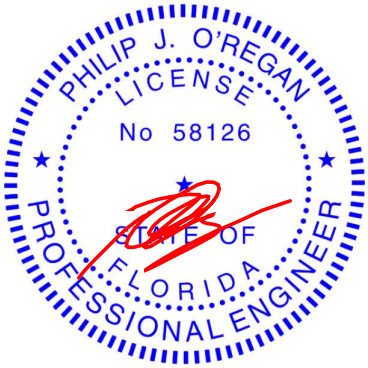
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-12, 5-10

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=339(LC 11)
Max Uplift 7=-528(LC 13), 2=-528(LC 12)
Max Grav 7=1419(LC 20), 2=1420(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1966/675, 3-5=-2071/1002, 5-6=-2073/1003, 6-7=-1965/675
BOT CHORD 2-12=-571/1682, 10-12=-201/953, 7-10=-428/1524
WEBS 4-12=-396/474, 3-4=-422/480, 5-12=-733/1436, 5-10=-734/1437, 8-10=-396/474, 6-8=-423/481

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 0-0-11, Interior(1) 0-0-11 to 11-6-0, Exterior(2R) 11-6-0 to 14-6-0, Interior(1) 14-6-0 to 24-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=528, 2=528.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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: 2-5=-54, 5-7=-54, 2-12=-20, 10-12=-80(F=-60), 7-10=-20, 1-2=-54, 7-9=-54



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T02G	GABLE	1	1	T26659373
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:20 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-TWjOJ?qP2XgwpxSt0ijshhfJP495f6xsHfrXjwzrTt9

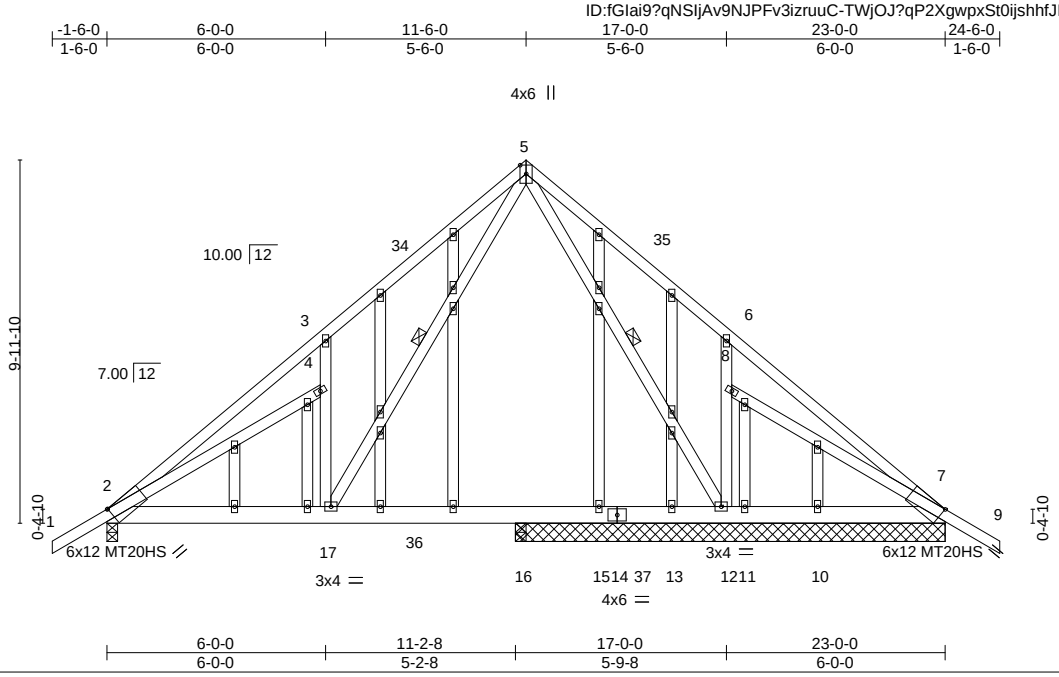


Plate Offsets (X,Y)-- [2:0-0-4,Edge], [7:0-0-0,Edge]

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	0.44	Vert(LL)	0.04	2-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.04	2-17	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 223 lb	FT = 20%

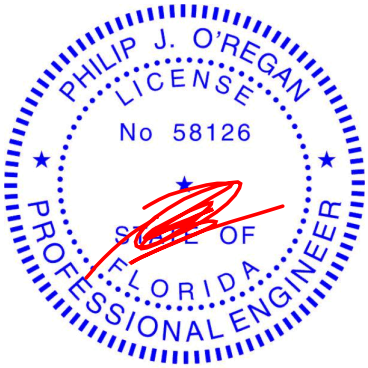
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-17, 5-12

REACTIONS. All bearings 11-9-8 except (jt=length) 2=0-3-8, 16=0-3-8.
(lb) - Max Horz 2=339(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 7, 15, 11, 10, 16 except 2=-275(LC 12), 12=-519(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 15, 13, 11, 10 except 7=252(LC 1), 2=723(LC 19), 12=701(LC 20), 16=287(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-693/226, 3-5=-806/561
BOT CHORD 2-17=-228/697, 16-17=-118/347, 15-16=-118/347, 13-15=-118/347, 12-13=-118/347, 11-12=-142/287, 10-11=-142/287, 7-10=-143/288
WEBS 4-17=-428/484, 3-4=-428/482, 5-17=-521/739, 5-12=-469/193, 8-12=-422/482, 6-8=-418/477

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 0-0-10, Interior(1) 0-0-10 to 11-6-0, Exterior(2R) 11-6-0 to 14-6-0, Interior(1) 14-6-0 to 24-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 15, 11, 10, 16 except (jt=lb) 2=275, 12=519.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T03	Roof Special	4	1	T26659374
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:21 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-xjHmWLr1pronQ413aPF5DvCSBUSOOW_?WJa4FNzrTt8

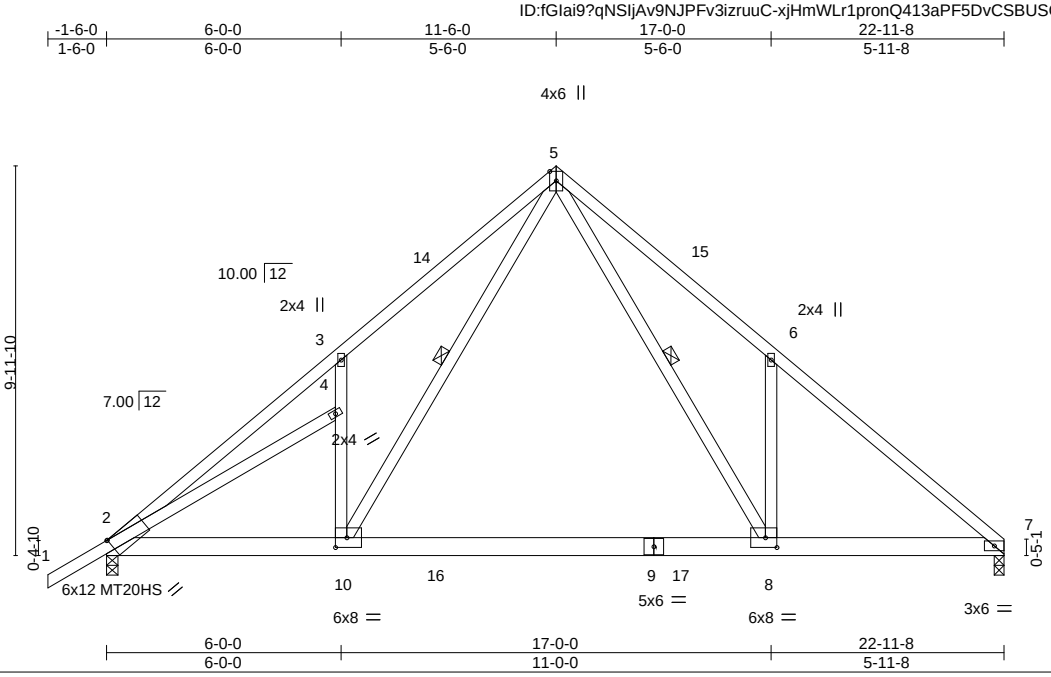


Plate Offsets (X,Y)-- [2:0-0-4,Edge], [8:0-3-8,0-3-0], [10:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.22	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.42	8-10	>653	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 157 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

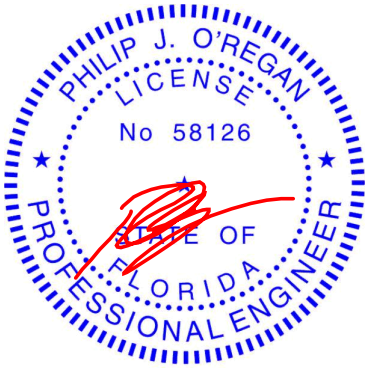
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-10, 5-8

REACTIONS. (size) 7=0-3-0, 2=0-3-8
Max Horz 2=329(LC 11)
Max Uplift 7=-471(LC 13), 2=-529(LC 12)
Max Grav 7=1336(LC 20), 2=1421(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1969/678, 3-5=-2073/1003, 5-6=-2088/1017, 6-7=-2003/699
BOT CHORD 2-10=-591/1669, 8-10=-222/941, 7-8=-448/1502
WEBS 4-10=-396/474, 3-4=-422/480, 5-10=-731/1434, 5-8=-749/1454, 6-8=-384/461

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 0-0-11, Interior(1) 0-0-11 to 11-6-0, Exterior(2R) 11-6-0 to 14-6-0, Interior(1) 14-6-0 to 22-11-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=471, 2=529.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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: 2-5=-54, 5-7=-54, 2-10=-20, 8-10=-80(F=-60), 8-11=-20, 1-2=-54



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659375
3000644	T04	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:22 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-Pvr8jhsfZ9we2EcF77mKm6kcLund7w79kzKenpzrTt7

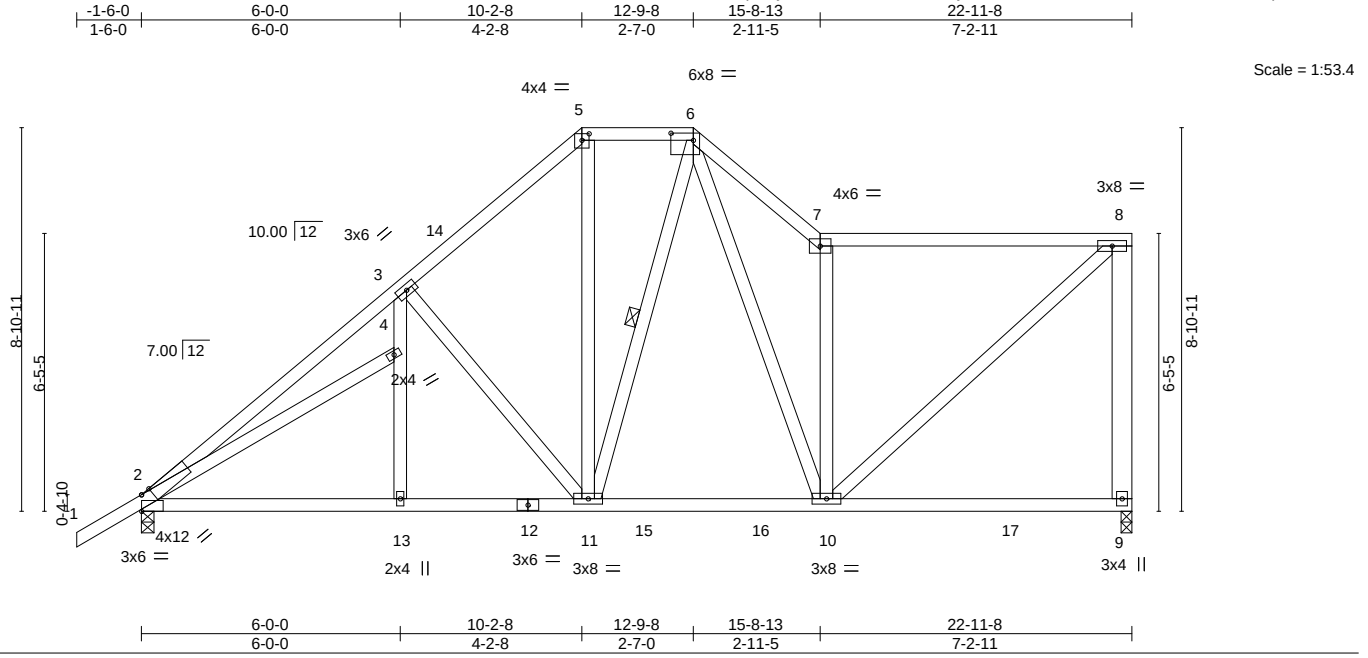


Plate Offsets (X,Y)-- [2:0-0-1,Edge], [2:0-2-10,Edge], [5:0-2-0,0-1-13], [6:0-6-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.08	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.14	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 178 lb	FT = 20%

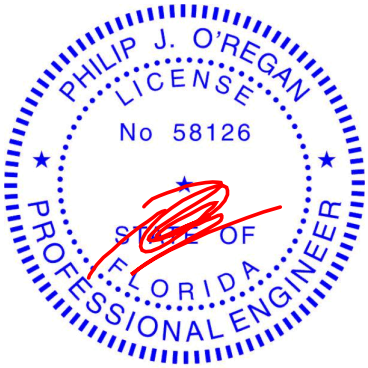
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-5 oc bracing.
WEBS 1 Row at midpt 6-11

REACTIONS. (size) 9=0-3-0, 2=0-3-8
Max Horz 2=400(LC 12)
Max Uplift 9=-340(LC 13), 2=-334(LC 12)
Max Grav 9=957(LC 2), 2=1019(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1159/349, 3-5=-878/383, 5-6=-620/355, 6-7=-1073/475, 7-8=-762/291, 8-9=-815/363
BOT CHORD 2-13=-471/949, 11-13=-470/942, 10-11=-243/604
WEBS 3-11=-467/335, 5-11=-144/389, 6-10=-261/533, 7-10=-885/497, 8-10=-375/980

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to -0-0-3, Interior(1) -0-0-3 to 10-2-8, Exterior(2E) 10-2-8 to 15-8-13, Interior(1) 15-8-13 to 22-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=340, 2=334.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

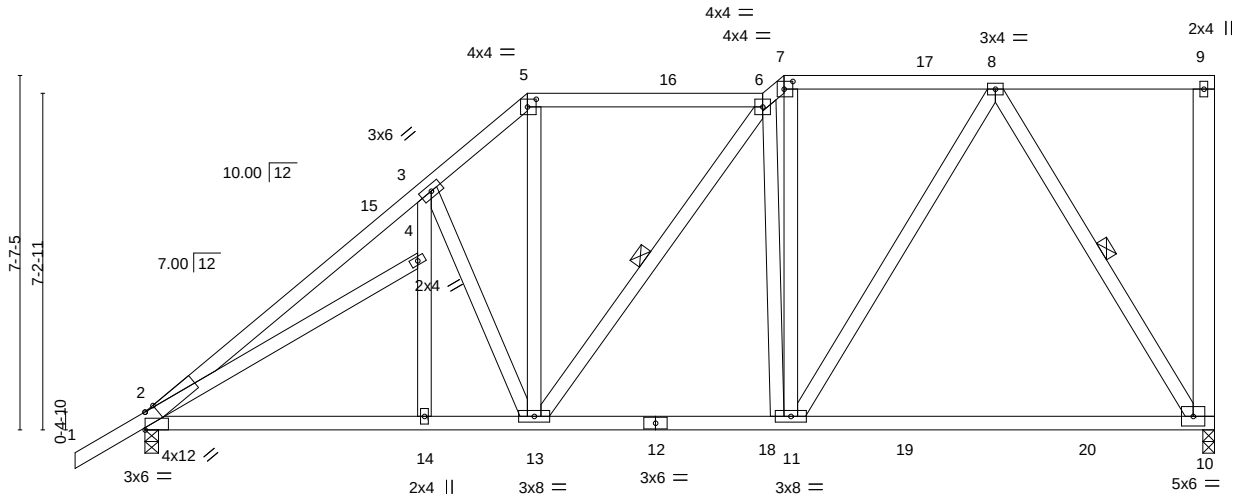
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T05	Roof Special	1	1	T26659376
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:23 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-t5PWx0tHKS2VgOBShqHZIKHrkI1lsQdIzd3BKFzrTt6

-1-6-0	6-0-0	8-2-8	13-3-2	13-8-10	18-3-1	22-11-8
1-6-0	6-0-0	2-2-8	5-0-10	0-5-8	4-6-7	4-8-7

Scale = 1:49.5



6-0-0	8-2-8	13-3-2	13-8-10	18-3-1	22-11-8
6-0-0	2-2-8	5-0-10	0-5-8	4-6-7	4-8-7

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.27	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.43	10-11	>630	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 184 lb	FT = 20%

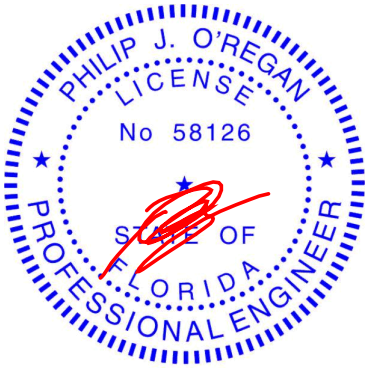
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
9-10: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-8 oc bracing.
WEBS 1 Row at midpt 6-13, 8-10

REACTIONS. (size) 10=0-3-0, 2=0-3-8
Max Horz 2=398(LC 12)
Max Uplift 10=-395(LC 9), 2=-310(LC 12)
Max Grav 10=963(LC 2), 2=994(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1171/321, 3-5=-982/403, 5-6=-720/324, 6-7=-905/356, 7-8=-753/292
BOT CHORD 2-14=-448/861, 13-14=-446/854, 11-13=-318/791, 10-11=-208/456
WEBS 3-13=-459/321, 5-13=-185/485, 8-10=-825/395, 7-11=-133/404, 8-11=-183/578, 6-11=-540/330

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to -0-0-3, Interior(1) -0-0-3 to 8-2-8, Exterior(2R) 8-2-8 to 11-2-8, Interior(1) 11-2-8 to 13-8-10, Exterior(2R) 13-8-10 to 16-8-10, Interior(1) 16-8-10 to 22-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=395, 2=310.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T06	Roof Special	1	1	T26659377
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:24 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-LHzu8Muw5mAMHYIeFYoorXqw8hSUbm2SCHpksizrTt5

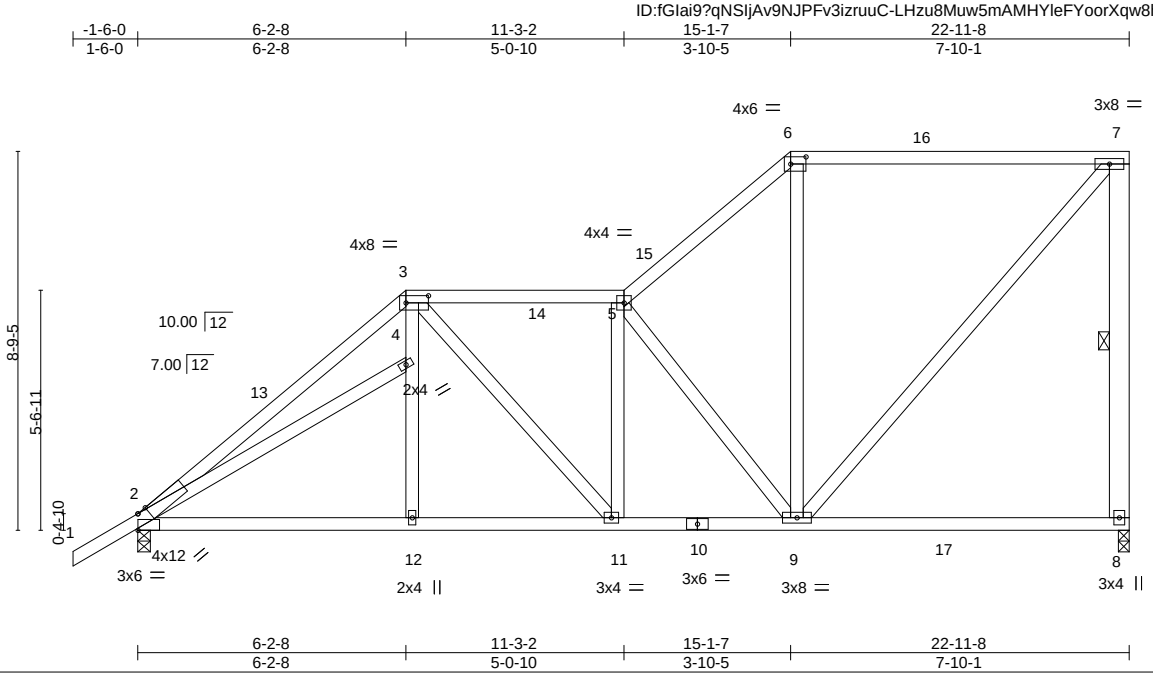


Plate Offsets (X,Y)-- [2:0-0-1,Edge], [2:0-2-10,Edge], [3:0-6-4,0-2-0], [6:0-4-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.14	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.23	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 168 lb	FT = 20%

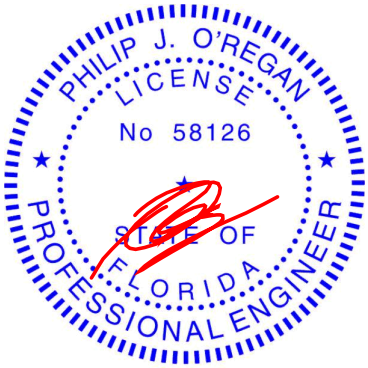
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
7-8: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-14 oc bracing.
WEBS 1 Row at midpt 7-8

REACTIONS. (size) 8=0-3-0, 2=0-3-8
Max Horz 2=465(LC 12)
Max Uplift 8=-351(LC 12), 2=-361(LC 12)
Max Grav 8=952(LC 2), 2=971(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1107/341, 3-5=-981/348, 5-6=-779/247, 6-7=-570/265, 7-8=-786/398
BOT CHORD 2-12=-537/821, 11-12=-536/815, 9-11=-511/983
WEBS 4-12=0/255, 5-9=-689/406, 7-9=-394/820

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to -0-0-3, Interior(1) -0-0-3 to 6-2-8, Exterior(2R) 6-2-8 to 9-2-8, Interior(1) 9-2-8 to 15-1-7, Exterior(2R) 15-1-7 to 18-1-7, Interior(1) 18-1-7 to 22-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=351, 2=361.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T07	Roof Special Girder	1	1	T26659378
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:25 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-pUXHMiuYs4IDviKqpFJ1NlM945mvKD7bRxYIO8zrTt4

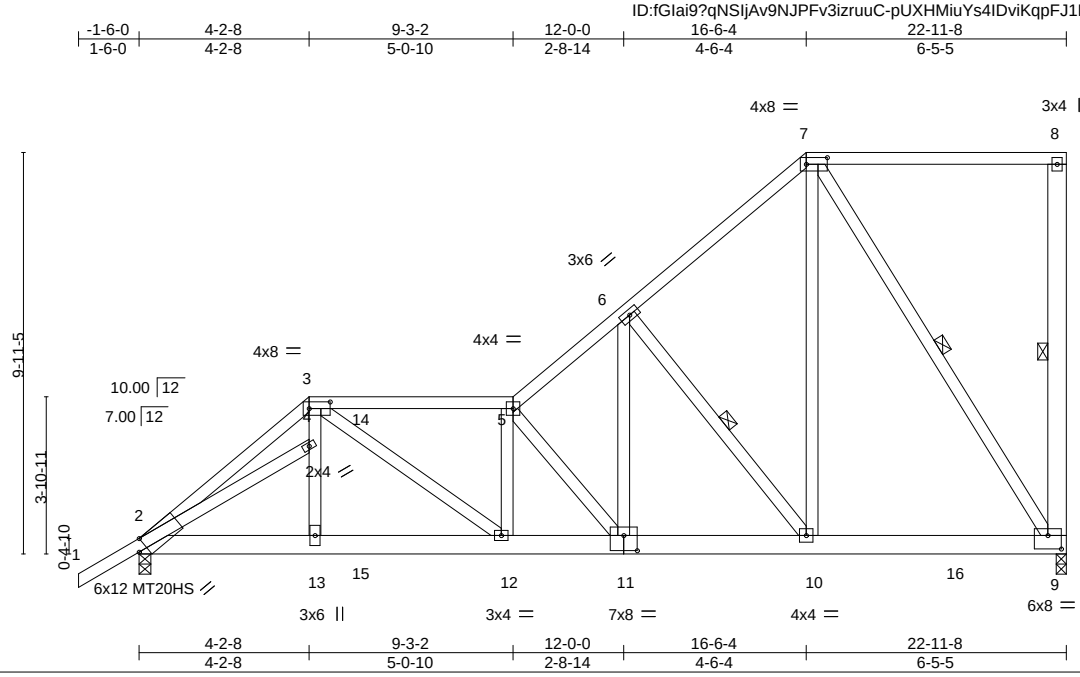


Plate Offsets (X,Y)-- [2:0-2-10,Edge], [3:0-6-4,0-2-0], [7:0-6-4,0-2-0], [9:0-4-0,0-4-0], [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	0.11	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.14	12-13	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 197 lb	FT = 20%

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

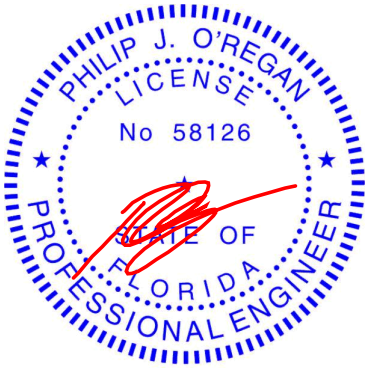
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-5 oc bracing.
WEBS 1 Row at midpt 8-9, 6-10, 7-9

REACTIONS. (size) 9=0-3-0, 2=0-3-8
Max Horz 2=524(LC 26)
Max Uplift 9=-555(LC 8), 2=-921(LC 8)
Max Grav 9=1073(LC 2), 2=1727(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2214/1188, 3-5=-2185/1046, 5-6=-1651/702, 6-7=-797/320
BOT CHORD 2-13=-1386/1943, 12-13=-1374/1920, 11-12=-1349/2266, 10-11=-800/1331, 9-10=-335/599
WEBS 4-13=-407/846, 3-4=-361/752, 3-12=-238/670, 5-12=-346/305, 5-11=-1522/893, 6-11=-650/1240, 6-10=-1191/753, 7-10=-550/1202, 7-9=-1085/607

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=555, 2=921.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 248 lb down and 236 lb up at 4-4-4, and 259 lb down and 279 lb up at 5-5-4 on top chord, and 221 lb down and 149 lb up at 4-2-8, and 642 lb down and 358 lb up at 5-5-4 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: 2-3=-54, 3-5=-54, 5-7=-54, 7-8=-54, 2-9=-20, 1-2=-54



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-47(F) 13=-133(F) 14=90(F) 15=-642(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T08	Half Hip Girder	1	1	T26659379
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:26 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-Ig5fZ2vAdNQ3Xsv1MzqGwyvPVVDV3rYlfbIrxazrTt3

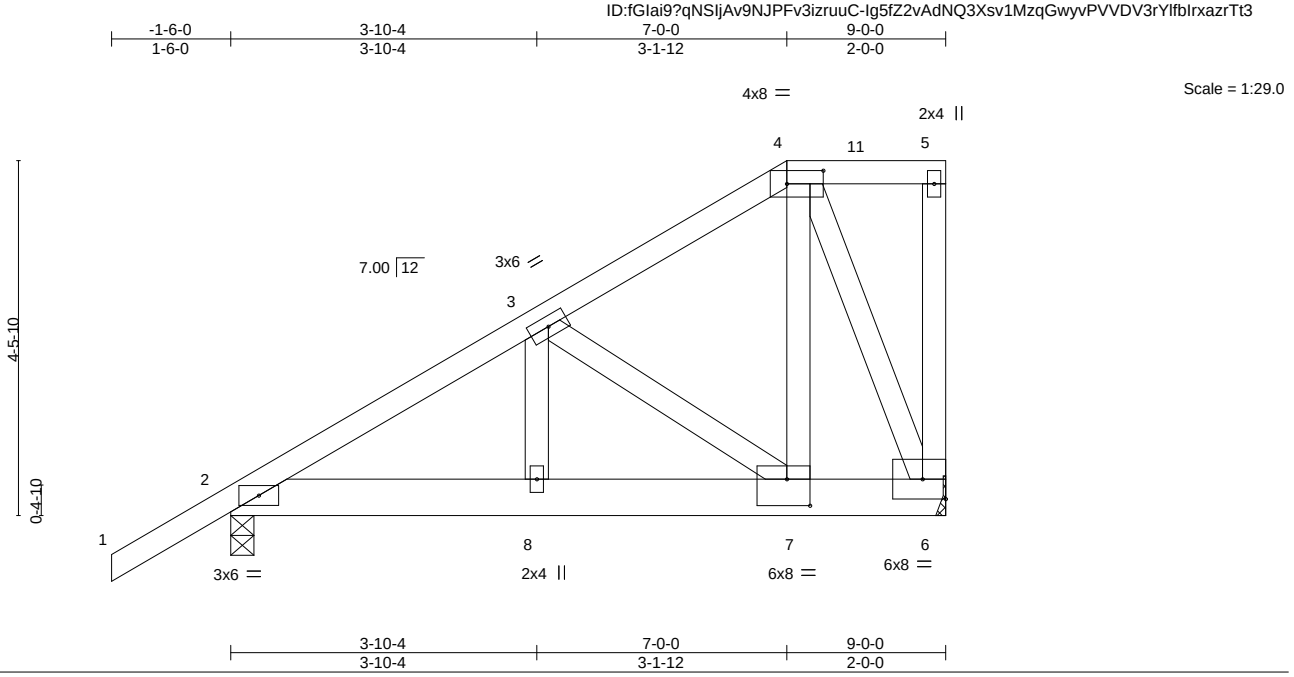


Plate Offsets (X,Y)-- [4:0-5-8,0-2-0], [7:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.01	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 64 lb	FT = 20%

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

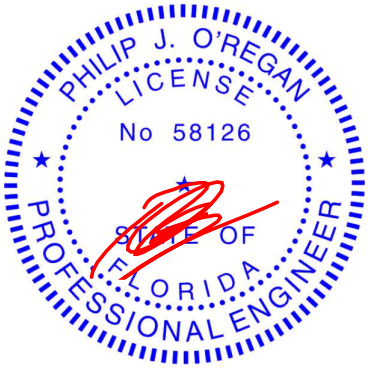
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=Mechanical
Max Horz 2=246(LC 8)
Max Uplift 2=-231(LC 8), 6=-436(LC 8)
Max Grav 2=501(LC 1), 6=678(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-596/231, 3-4=-335/155
BOT CHORD 2-8=-338/518, 7-8=-338/518, 6-7=-181/277
WEBS 3-7=-318/204, 4-7=-342/608, 4-6=-659/432

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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=231, 6=436.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 69 lb up at 7-0-0 on top chord, and 439 lb down and 319 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-54, 2-6=-20
Concentrated Loads (lb)
Vert: 7=-426(B) 4=-18(B)



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

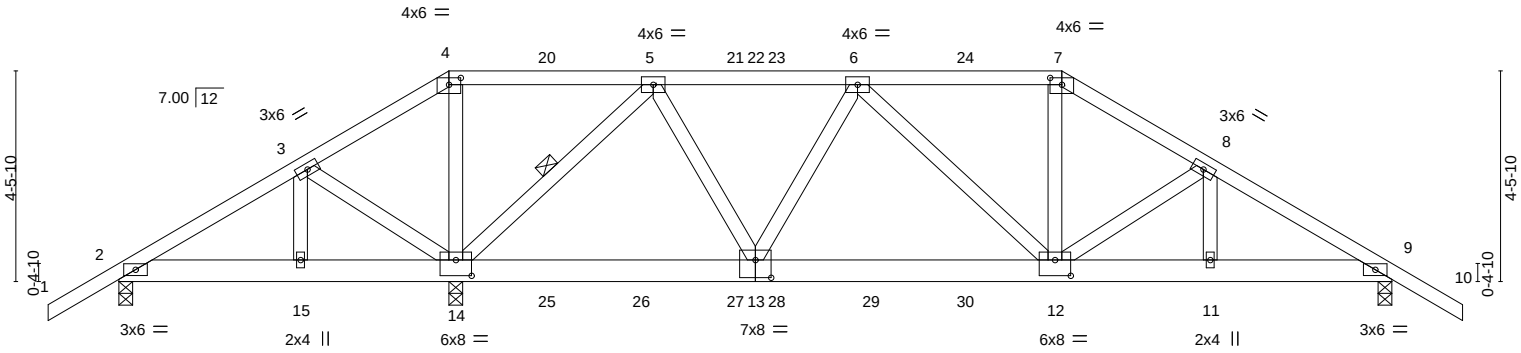
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T09	HIP GIRDER	1	1	T26659380
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:27 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-mse1nOwoOhYw80UDwgLVTASW2vStoEbuuF1PT0zrTt2

-1-6-0	3-10-4	7-0-0	11-4-0	15-8-0	20-0-0	23-1-12	27-0-0	28-6-0
1-6-0	3-10-4	3-1-12	4-4-0	4-4-0	4-4-0	3-1-12	3-10-4	1-6-0

Scale = 1:48.9



3-10-4	7-0-0	7-1-12	13-6-0	20-0-0	23-1-12	27-0-0
3-10-4	3-1-12	0-1-12	6-4-4	6-6-0	3-1-12	3-10-4

Plate Offsets (X,Y)-- [4:0-3-0,0-1-12], [7:0-3-0,0-1-12], [12:0-4-0,0-4-0], [13:0-4-0,0-4-8], [14:0-4-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	0.10	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.13	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 169 lb	FT = 20%

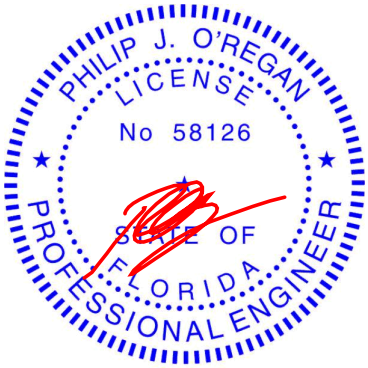
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-14

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 9=0-3-8
Max Horz 2=162(LC 7)
Max Uplift 2=-430(LC 27), 14=-1718(LC 5), 9=-791(LC 9)
Max Grav 2=319(LC 6), 14=2870(LC 1), 9=1307(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-493/873, 3-4=-536/973, 4-5=-444/827, 5-6=-1335/906, 6-7=-1712/1171, 7-8=-2000/1297, 8-9=-2136/1307
BOT CHORD 2-15=-771/583, 14-15=-771/583, 13-14=-480/755, 12-13=-947/1564, 11-12=-1020/1810, 9-11=-1020/1810
WEBS 3-14=-244/258, 4-14=-683/435, 5-14=-2111/1322, 5-13=-780/1337, 6-13=-501/391, 7-12=-395/721, 8-12=-319/272

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; 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=430, 14=1718, 9=791.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 91 lb down and 69 lb up at 7-0-0, 91 lb down and 66 lb up at 9-0-12, 91 lb down and 66 lb up at 11-0-12, 91 lb down and 59 lb up at 13-0-12, 91 lb down and 59 lb up at 13-11-4, 91 lb down and 66 lb up at 15-11-4, and 91 lb down and 66 lb up at 17-11-4, and 225 lb down and 213 lb up at 20-0-0 on top chord, and 292 lb down and 206 lb up at 7-0-0, 165 lb down and 113 lb up at 9-0-12, 165 lb down and 113 lb up at 11-0-12, 165 lb down and 113 lb up at 13-0-12, 165 lb down and 113 lb up at 13-11-4, 165 lb down and 113 lb up at 15-11-4, and 165 lb down and 113 lb up at 17-11-4, and 439 lb down and 319 lb up at 19-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

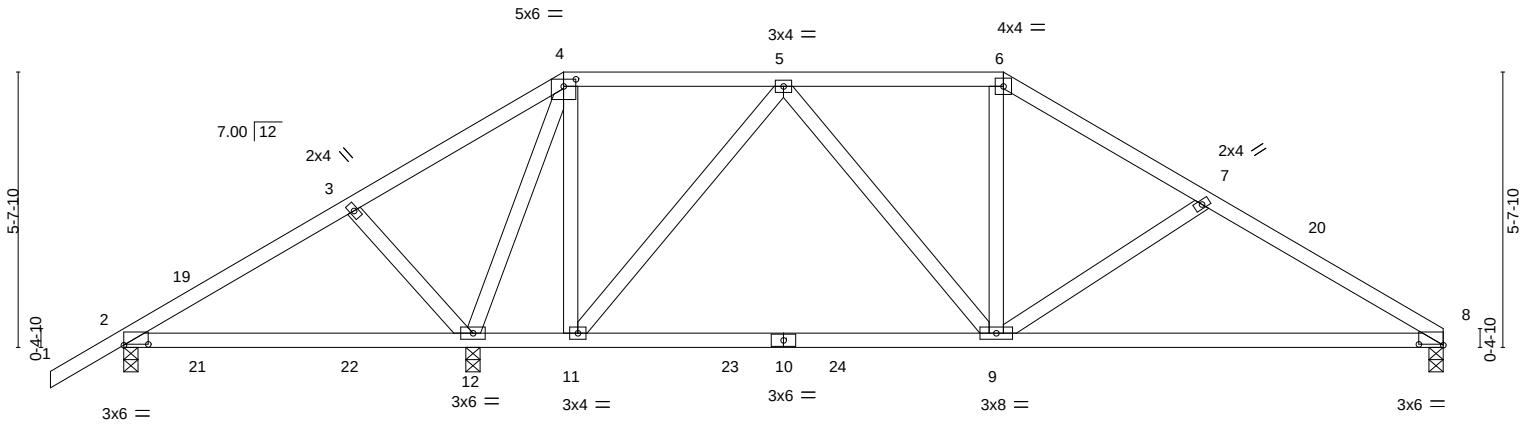
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-7=-54, 7-10=-54, 2-9=-20
   Concentrated Loads (lb)
   Vert: 4=-18(B) 7=-92(B) 14=-269(B) 5=-18(B) 6=-18(B) 12=-426(B) 20=-18(B) 21=-18(B) 23=-18(B) 24=-18(B) 25=-156(B) 26=-156(B) 27=-156(B) 28=-156(B) 29=-156(B) 30=-156(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T10	Hip	1	1	T26659381
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:28 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-E3CP_kxQ9?gnm93PUNtk?N_iSJlqXfA17vny?TzrTt1

-1-6-0	4-8-8	9-0-0	13-6-0	18-0-0	22-0-12	27-0-0
1-6-0	4-8-8	4-3-8	4-6-0	4-6-0	4-0-12	4-11-4

Scale = 1:47.1



7-1-12	9-0-0	18-0-0	27-0-0
7-1-12	1-10-4	9-0-0	9-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.11	12-18	>803	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.26	9-11	>921	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 143 lb	FT = 20%

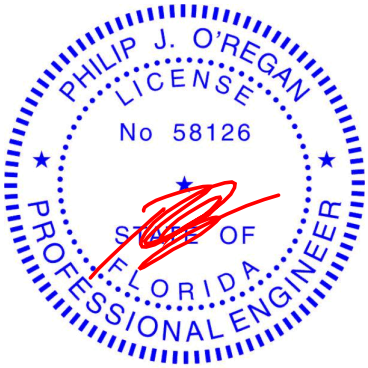
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 8=0-3-8, 2=0-3-8, 12=0-3-8
Max Horz 2=190(LC 9)
Max Uplift 8=-311(LC 13), 2=-107(LC 12), 12=-478(LC 12)
Max Grav 8=770(LC 20), 2=263(LC 23), 12=1243(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-65/277, 5-6=-734/383, 6-7=-901/388, 7-8=-1101/493
BOT CHORD 9-11=-183/550, 8-9=-347/940
WEBS 3-12=-291/252, 4-12=-991/312, 4-11=-189/671, 5-11=-586/303, 5-9=-103/371, 6-9=-38/275, 7-9=-354/279

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=22ft; Cat. II; Exp C; 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 13-6-0, Interior(1) 13-6-0 to 18-0-0, Exterior(2R) 18-0-0 to 22-2-6, Interior(1) 22-2-6 to 27-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=311, 2=107, 12=478.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

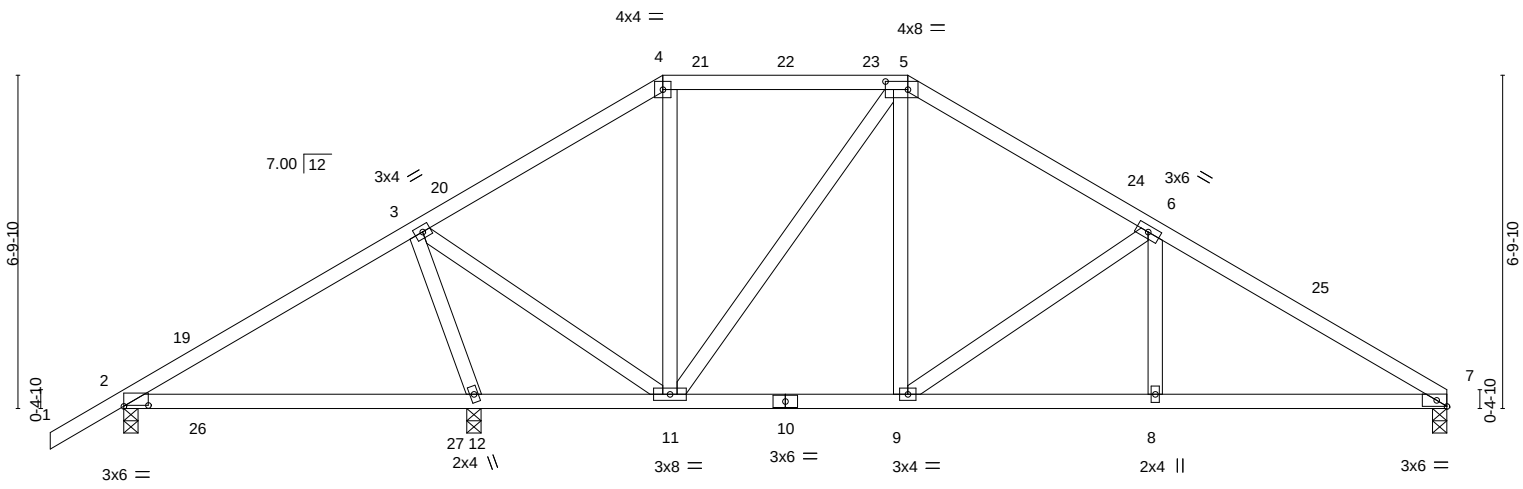
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T11	Hip	1	1	T26659382
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:29 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-iFmnB4x2wIoeOJec25OzYbXtkiBJG8qBLZWVXvzrTt0

-1-6-0 | 5-11-10 | 11-0-0 | 16-0-0 | 21-0-9 | 27-0-0
1-6-0 | 5-11-10 | 5-0-6 | 5-0-0 | 5-0-9 | 5-11-7

Scale = 1:47.0



7-1-12 | 11-0-0 | 16-0-0 | 21-0-9 | 27-0-0
7-1-12 | 3-10-4 | 5-0-0 | 5-0-9 | 5-11-7

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [5:0-5-8,0-2-0], [7:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.13	12-18	>651	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.13	12-18	>684	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 146 lb	FT = 20%

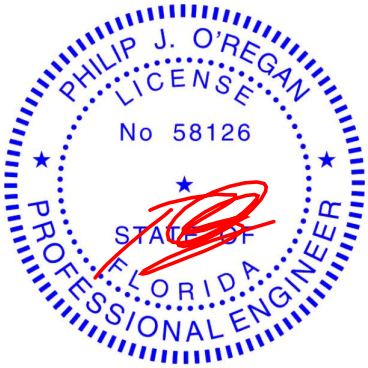
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 7=0-3-8, 2=0-3-8, 12=0-3-8
Max Horz 2=228(LC 9)
Max Uplift 7=-321(LC 13), 2=-152(LC 12), 12=-412(LC 12)
Max Grav 7=721(LC 1), 2=351(LC 23), 12=1034(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-472/263, 4-5=-336/256, 5-6=-705/366, 6-7=-1113/485
BOT CHORD 11-12=-303/235, 9-11=-87/548, 8-9=-323/906, 7-8=-323/906
WEBS 3-12=-938/452, 3-11=-198/700, 5-11=-381/197, 5-9=-153/382, 6-9=-508/337

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=22ft; Cat. II; Exp C; 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 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 27-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=321, 2=152, 12=412.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T12	Hip	1	1	T26659383
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:30 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-ARKAPQyghcwV?TDobovC4o4?76Ve?YGKaDG34LzrTt?

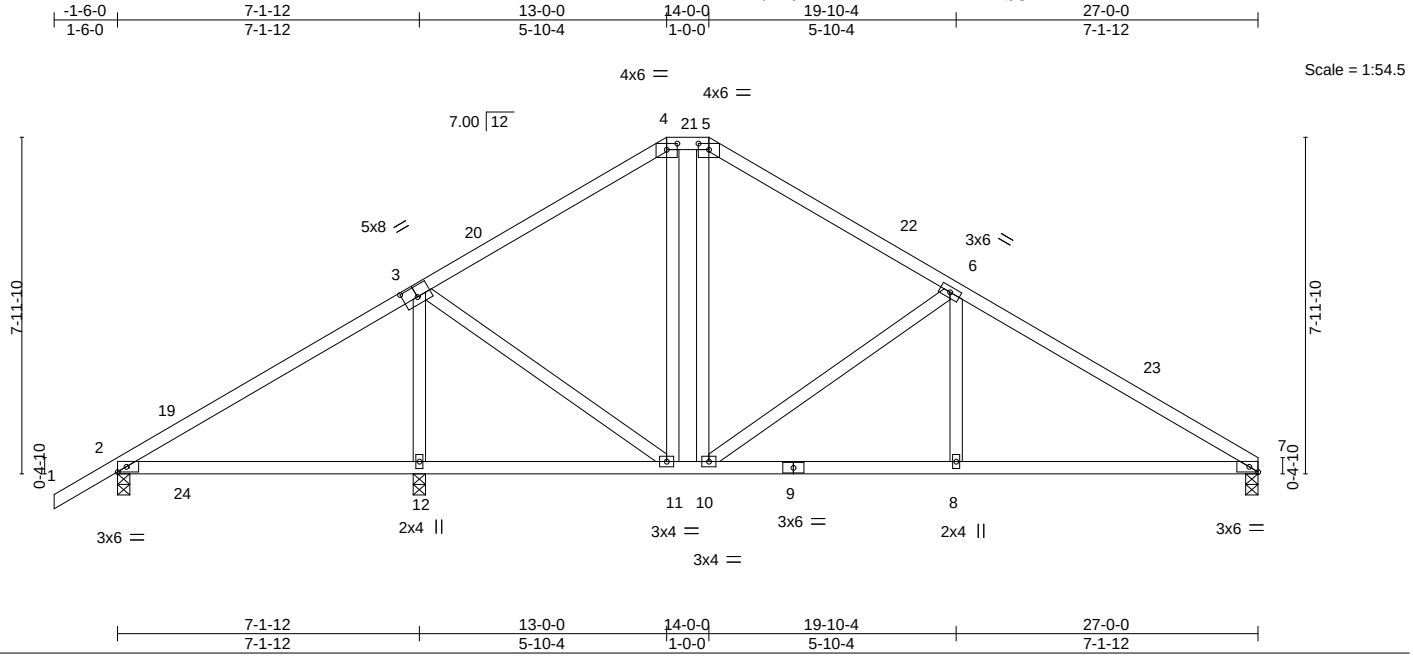


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-3-0,0-1-12], [5:0-3-0,0-1-12], [7:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	0.16	12-18	>539	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	0.13	12-18	>648	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 144 lb	FT = 20%

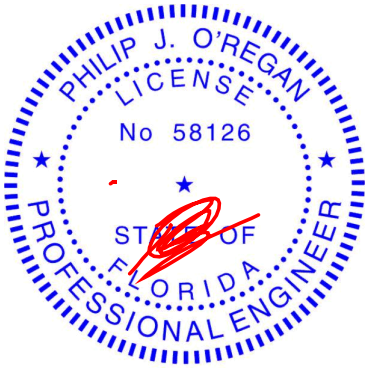
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-6 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8, 12=0-3-8
Max Horz 2=266(LC 9)
Max Uplift 7=-328(LC 13), 2=-142(LC 12), 12=-415(LC 12)
Max Grav 7=735(LC 1), 2=354(LC 1), 12=990(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-585/354, 4-5=-423/342, 5-6=-586/325, 6-7=-1099/476
BOT CHORD 10-11=-41/423, 8-10=-297/882, 7-8=-297/882
WEBS 3-12=-835/424, 3-11=-71/437, 6-10=-633/419, 6-8=-7/306

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=22ft; Cat. II; Exp C; 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(2E) 13-0-0 to 14-0-0, Exterior(2R) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 27-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=328, 2=142, 12=415.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T13	Common	1	1	T26659384
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:31 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-eeuYcmzJSw2Mddo_9WQRd0c91Wrfk?nUpt?ccozrTt_

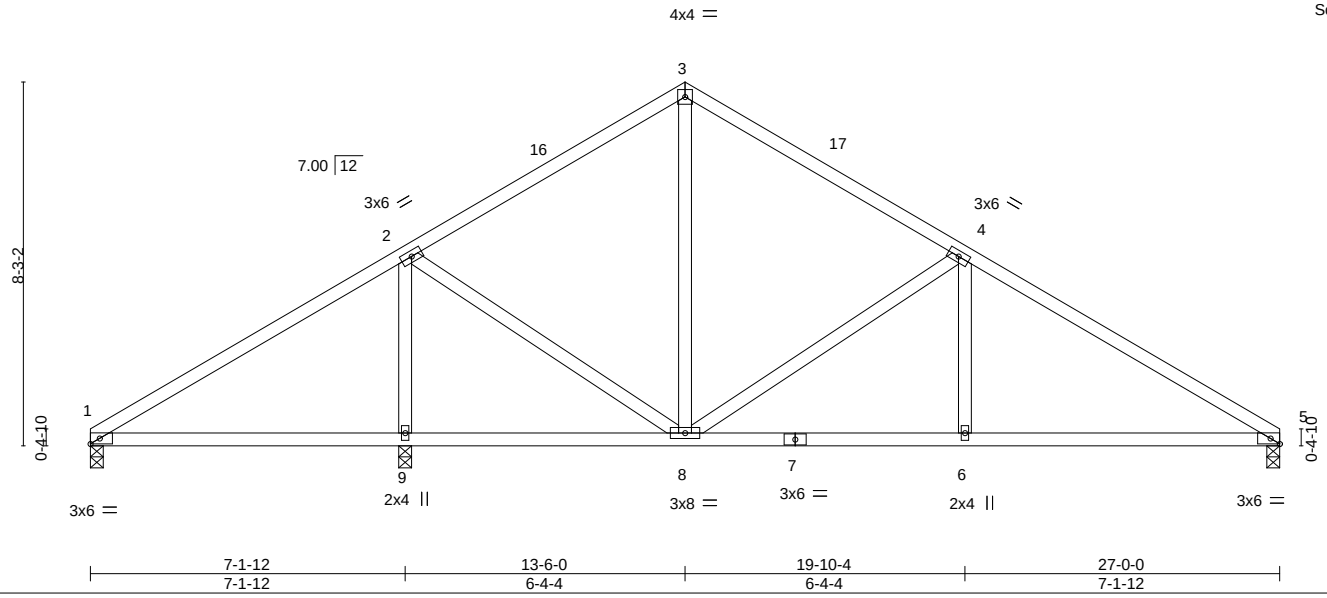


Plate Offsets (X,Y)-- [5:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.22	9-12	>395	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	0.19	9-12	>455	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 132 lb	FT = 20%

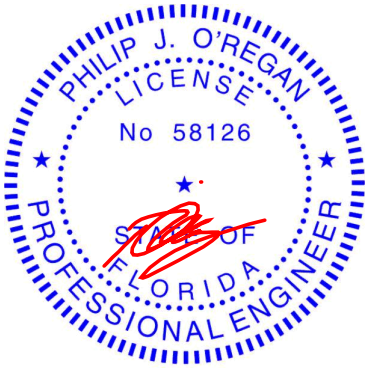
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8, 9=0-3-8
Max Horz 1=256(LC 9)
Max Uplift 1=-99(LC 9), 5=-312(LC 13), 9=-421(LC 12)
Max Grav 1=245(LC 23), 5=715(LC 1), 9=1075(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-541/327, 3-4=-540/306, 4-5=-1056/446
BOT CHORD 6-8=-272/845, 5-6=-272/845
WEBS 3-8=-129/252, 4-8=-627/422, 4-6=0/294, 2-8=-97/500, 2-9=-890/424

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=22ft; Cat. II; Exp C; 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 13-6-0, Exterior(2R) 13-6-0 to 16-6-0, Interior(1) 16-6-0 to 27-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=312, 9=421.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T14	Roof Special Girder	1	1	T26659385
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:33 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-a00I1R?Z_XJ4sxyNHxSviRiUuKXACzJnGBUjfgzrTsy

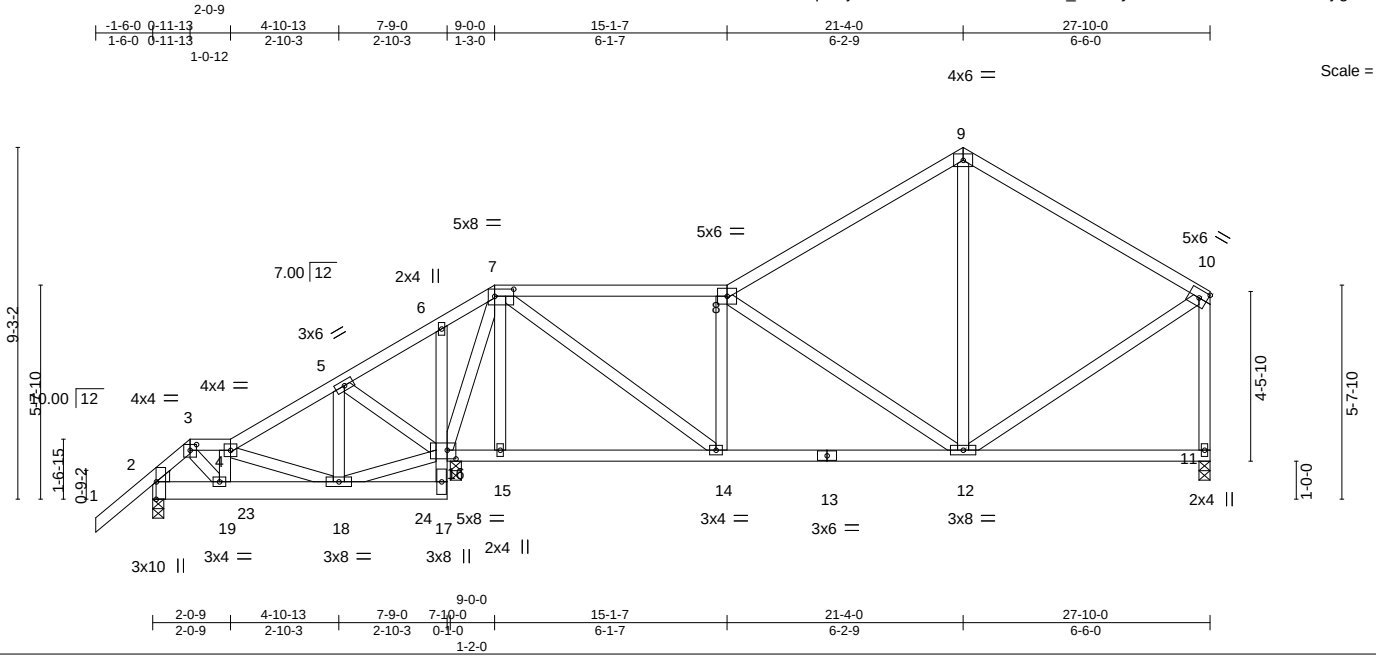


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [3:0-2-0,0-1-13], [7:0-6-0,0-2-4], [16:0-2-12,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.04	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.09	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	-0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 192 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-17: 2x6 SP No.2, 6-17: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

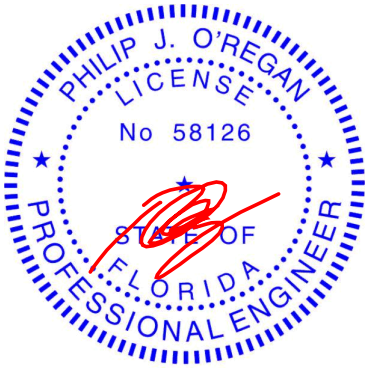
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 11=0-3-8
Max Horz 2=380(LC 34)
Max Uplift 2=-47(LC 4), 16=-1046(LC 8), 11=-252(LC 34)
Max Grav 2=264(LC 19), 16=1821(LC 1), 11=692(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-281/188, 5-6=-254/383, 6-7=-202/380, 7-8=-683/276, 8-9=-535/239, 9-10=-535/243, 10-11=-636/267
BOT CHORD 16-17=-344/542, 12-14=-359/695
WEBS 5-18=-102/294, 5-16=-411/247, 7-16=-1016/448, 7-14=-322/807, 8-14=-353/226, 8-12=-389/255, 10-12=-170/439

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 16=1046, 11=252.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 102 lb down and 104 lb up at 0-11-13 on top chord, and 24 lb down and 30 lb up at 0-11-13, and 658 lb down and 456 lb up at 7-0-12 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



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-54, 4-7=-54, 7-8=-54, 8-9=-54, 9-10=-54, 17-20=-20, 11-16=-20

Concentrated Loads (lb)

Vert: 3=22(F) 24=-658(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T15	Roof Special	1	1	T26659386
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:34 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-3DagFn?BlrRxU4WZqe_8FeEdDjqSxI5wVrEGC7zrTsx

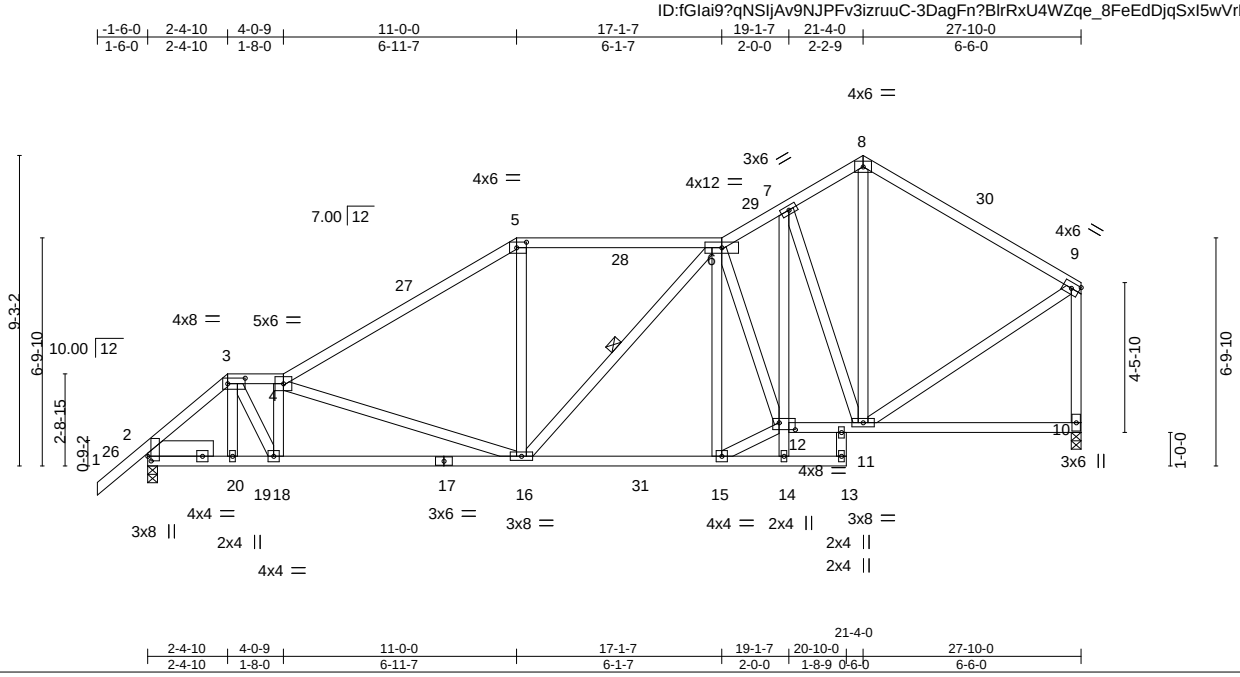


Plate Offsets (X,Y)-- [2:0-1-11,0-1-3], [3:0-6-4,0-2-0], [5:0-3-8,0-2-0], [12:0-5-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.10	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.20	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 212 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 7-14: 2x4 SP No.3
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-2-9 oc bracing. Except: 10-0-0 oc bracing: 12-14
WEBS	1 Row at midpt 6-16

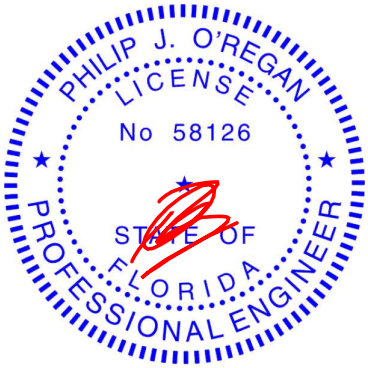
REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=380(LC 12)
Max Uplift 2=-493(LC 12), 10=-416(LC 12)
Max Grav 2=1195(LC 2), 10=1159(LC 2)

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

TOP CHORD	2-3=-1318/519, 3-4=-1604/660, 4-5=-1465/565, 5-6=-1209/578, 6-7=-1280/541, 7-8=-873/396, 8-9=-942/394, 9-10=-1061/433
BOT CHORD	2-19=-646/1053, 18-19=-644/1041, 16-18=-908/1721, 15-16=-519/1198, 7-12=-487/1065, 11-12=-445/1076
WEBS	3-18=-453/1234, 4-18=-787/433, 4-16=-549/331, 5-16=-20/420, 6-15=-475/287, 12-15=-549/1310, 6-12=-414/251, 7-11=-966/496, 8-11=-252/688, 9-11=-321/873

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=22ft; Cat. II; Exp C; 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 2-4-10, Exterior(2E) 2-4-10 to 4-0-9, Interior(1) 4-0-9 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 21-4-0, Exterior(2R) 21-4-0 to 24-4-0, Interior(1) 24-4-0 to 27-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=493, 10=416.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T16	Roof Special	1	1	T26659387
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:36 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-?bhRfT1RGShfjOgyy30cK3Kz9XYhPEODy9jNG?zrTsv

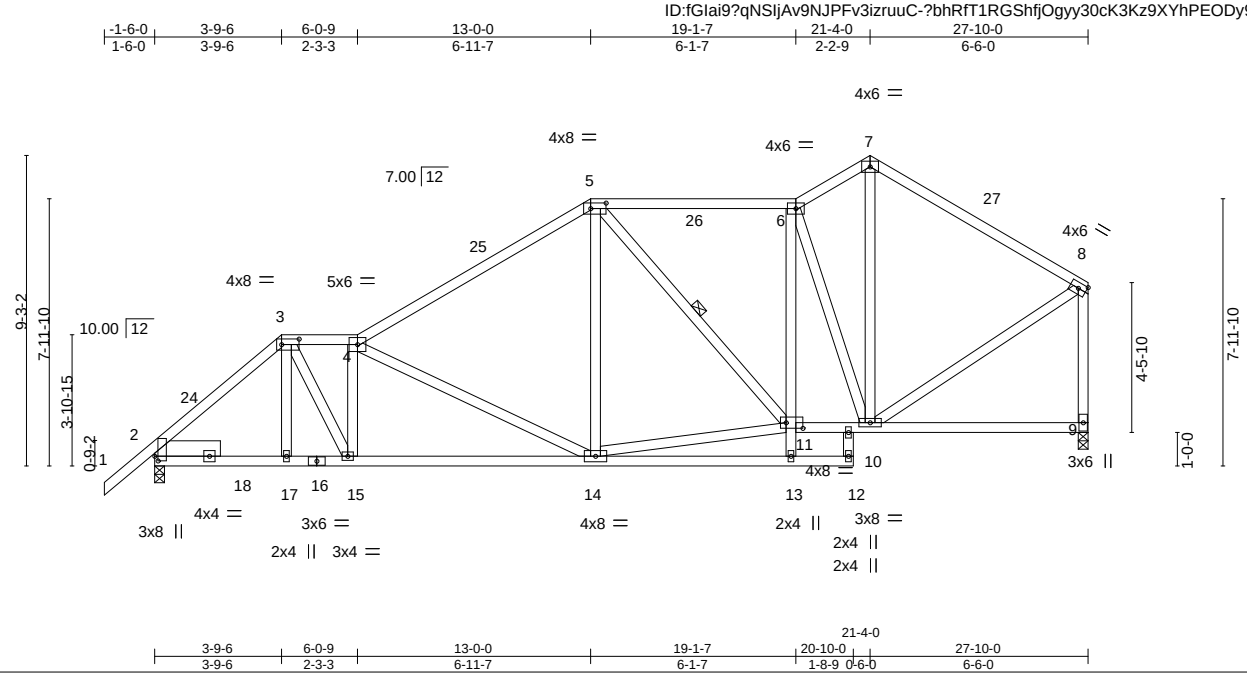


Plate Offsets (X,Y)-- [2:0-1-11,0-1-3], [3:0-6-4,0-2-0], [5:0-5-8,0-2-0], [11:0-6-0,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.07	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.16	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 208 lb	FT = 20%

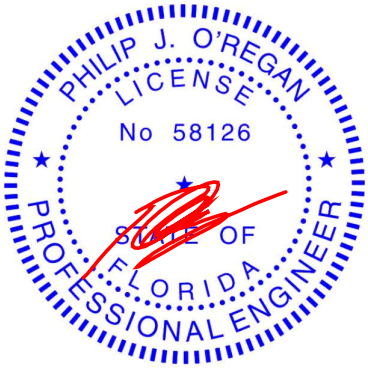
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-13: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-10 oc bracing. Except:
10-0-0 oc bracing: 11-13
WEBS 1 Row at midpt 5-11

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=380(LC 12)
Max Uplift 2=-493(LC 12), 9=-416(LC 12)
Max Grav 2=1118(LC 1), 9=1049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1267/542, 3-4=-1360/643, 4-5=-1207/529, 5-6=-953/484, 6-7=-781/398, 7-8=-864/394, 8-9=-991/432
BOT CHORD 2-17=-632/908, 15-17=-631/904, 14-15=-820/1386, 6-11=-122/262, 10-11=-439/948
WEBS 3-15=-347/903, 4-15=-631/337, 4-14=-479/355, 5-14=-40/327, 11-14=-486/892, 6-10=-843/490, 7-10=-252/554, 8-10=-320/776

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=22ft; Cat. II; Exp C; 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 3-9-6, Exterior(2E) 3-9-6 to 6-0-9, Interior(1) 6-0-9 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 21-4-0, Exterior(2R) 21-4-0 to 24-4-0, Interior(1) 24-4-0 to 27-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=493, 9=416.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T17	Roof Special	1	1	T26659388
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:37 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-ToFptp231mpWLYF8WmXstHs9AxvM8niMBpSxoRzrTsu

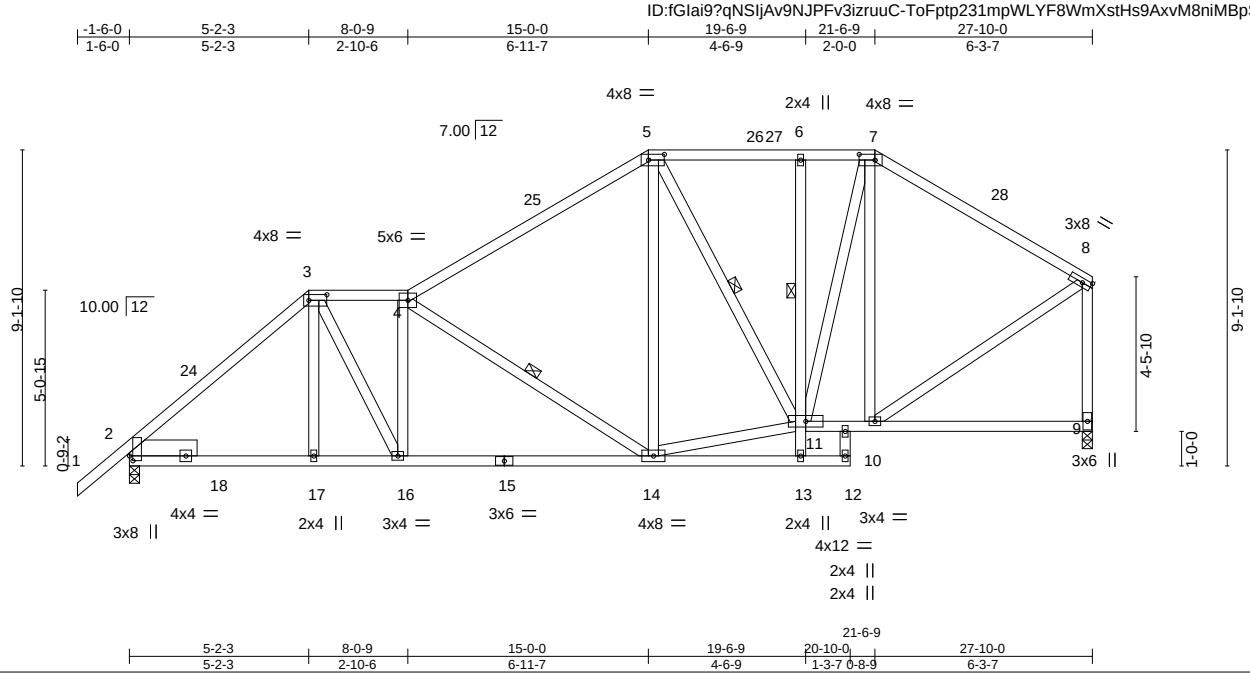


Plate Offsets (X,Y)-- [2:0-1-11,0-1-3], [3:0-6-4,0-2-0], [5:0-5-8,0-2-0], [7:0-5-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.08	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.17	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 216 lb	FT = 20%

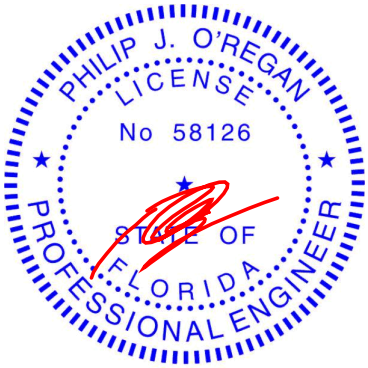
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-13: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=378(LC 12)
Max Uplift 2=-447(LC 12), 9=-326(LC 12)
Max Grav 2=1115(LC 1), 9=1043(LC 1)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-6 oc bracing. Except:
1 Row at midpt 6-11
10-0-0 oc bracing: 11-13
WEBS 1 Row at midpt 4-14, 5-11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1276/481, 3-4=-1245/541, 4-5=-1052/443, 5-6=-777/422, 6-7=-776/422, 7-8=-856/364, 8-9=-986/418
BOT CHORD 2-17=-682/900, 16-17=-552/900, 14-16=-649/1260, 10-11=-229/662
WEBS 3-16=-221/699, 4-16=-477/231, 4-14=-526/386, 5-14=-109/339, 11-14=-319/792, 7-11=-269/498, 7-10=-285/180, 8-10=-263/773

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=22ft; Cat. II; Exp C; 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 5-2-3, Exterior(2E) 5-2-3 to 8-0-9, Interior(1) 8-0-9 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 21-6-9, Exterior(2R) 21-6-9 to 24-6-9, Interior(1) 24-6-9 to 27-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=447, 9=326.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659389
3000644	T18	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:38 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-x_pB492io3xMziqK3U25PUPKOLCKtDqWQTCULuzrTst

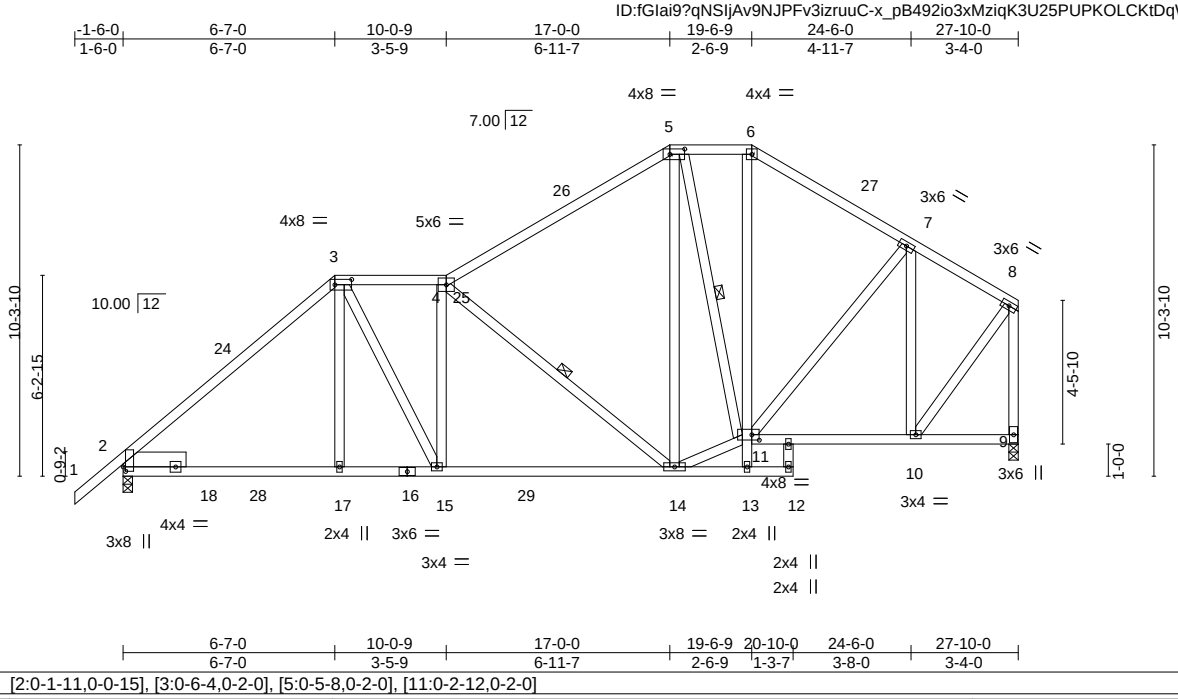


Plate Offsets (X,Y)-- [2:0-1-11,0-0-15], [3:0-6-4,0-2-0], [5:0-5-8,0-2-0], [11:0-2-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.11	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.20	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 219 lb	FT = 20%

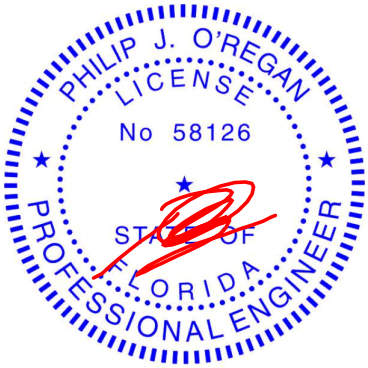
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-13: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-14 oc bracing. Except: 10-0-0 oc bracing: 11-13
WEBS 1 Row at midpt 4-14, 5-11

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=403(LC 12)
Max Uplift 2=-456(LC 12), 9=-360(LC 12)
Max Grav 2=1230(LC 19), 9=1151(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1404/487, 3-4=-1280/526, 4-5=-978/413, 5-6=-765/415, 6-7=-942/430, 7-8=-673/257, 8-9=-1114/408
BOT CHORD 2-17=-958/1093, 15-17=-551/1098, 14-15=-598/1340, 6-11=-173/378, 10-11=-191/561
WEBS 3-15=-142/565, 4-15=-329/171, 4-14=-698/416, 5-14=-114/315, 11-14=-281/956, 7-11=-132/350, 7-10=-573/283, 8-10=-315/926

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=22ft; Cat. II; Exp C; 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 6-7-0, Exterior(2R) 6-7-0 to 9-7-0, Interior(1) 9-7-0 to 17-0-0, Exterior(2E) 17-0-0 to 19-6-9, Exterior(2R) 19-6-9 to 22-6-9, Interior(1) 22-6-9 to 27-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=456, 9=360.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T19	Piggyback Base	1	1	T26659390
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:39 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-PANZIV3KZN3DasPXdBZKyiybzkVHcg7ff7x1tKzrTss

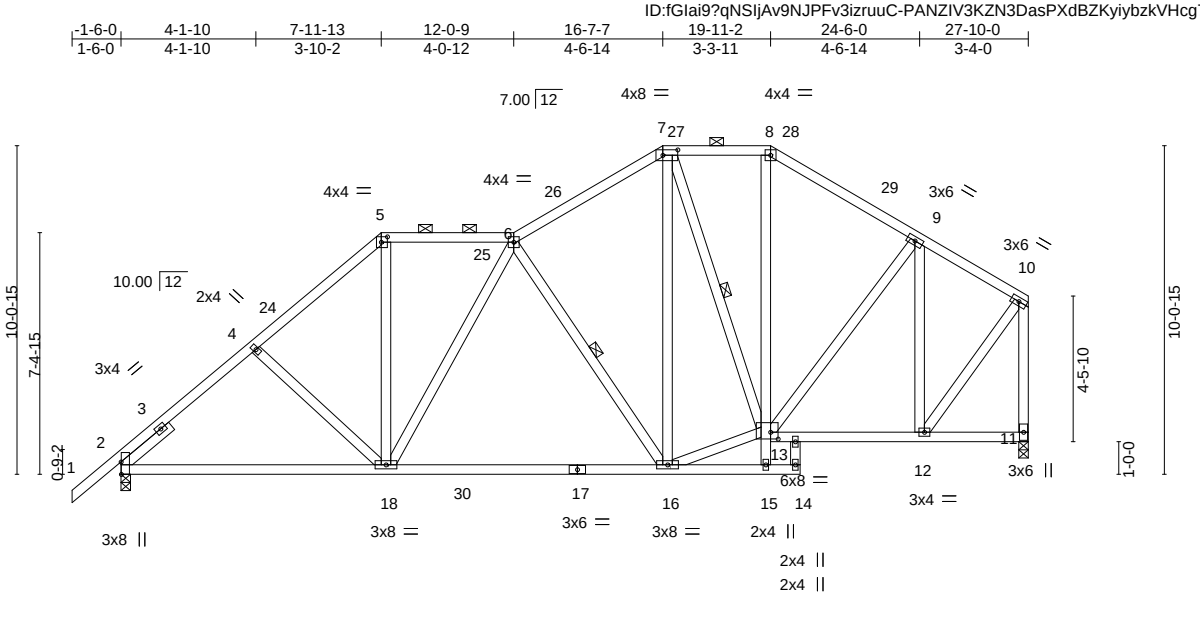


Plate Offsets (X,Y)-- [2:0-4-9,Edge], [5:0-2-4,0-2-0], [7:0-5-8,0-2-0], [13:0-2-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.21	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.34	16-18	>971	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 219 lb	FT = 20%

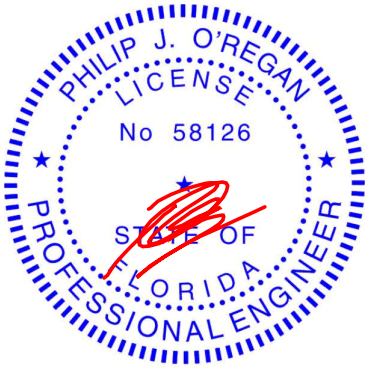
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-15: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-6 max.): 5-6, 7-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
10-0-0 oc bracing: 13-15
WEBS 1 Row at midpt 6-16, 7-13

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=398(LC 12)
Max Uplift 2=-455(LC 12), 11=-355(LC 12)
Max Grav 2=1202(LC 2), 11=1143(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1379/517, 4-5=-1279/509, 5-6=-961/464, 6-7=-979/449, 7-8=-754/416, 8-9=-924/431, 9-10=-666/261, 10-11=-1102/414
BOT CHORD 2-18=-635/1121, 16-18=-498/1086, 8-13=-125/313, 12-13=-192/553
WEBS 5-18=-167/611, 6-18=-275/130, 6-16=-525/395, 7-16=-196/464, 13-16=-275/921, 9-13=-141/347, 9-12=-569/282, 10-12=-316/911

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=22ft; Cat. II; Exp C; 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 7-11-13, Exterior(2R) 7-11-13 to 10-11-13, Interior(1) 10-11-13 to 16-7-7, Exterior(2R) 16-7-7 to 19-7-7, Interior(1) 19-7-7 to 19-11-2, Exterior(2R) 19-11-2 to 22-11-2, Interior(1) 22-11-2 to 27-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=455, 11=355.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T20	Piggyback Base	1	1	T26659391
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:41 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-MZVKjA5a5_Jxq9Zvlcco171xOYCv3ZRy6QQ8xDzrTsq

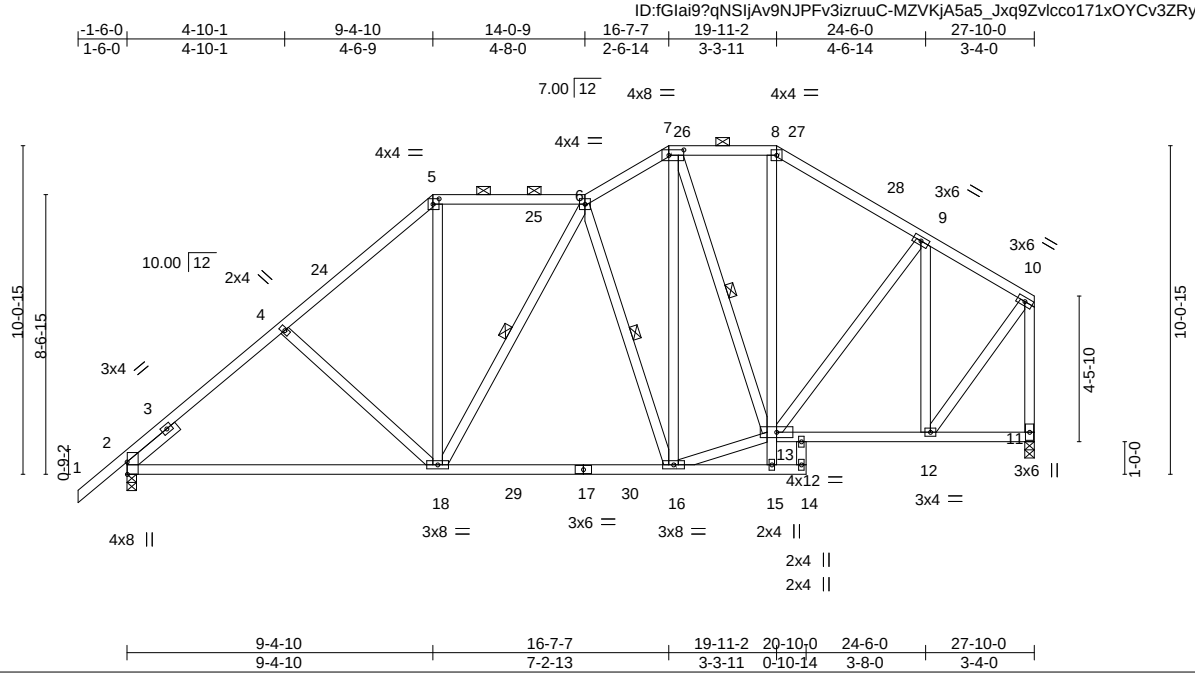


Plate Offsets (X,Y)-- [2:0-4-9,Edge], [5:0-2-4,0-2-0], [7:0-5-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.13	18-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.26	18-22	>999	180		
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-MS							Weight: 224 lb	FT = 20%

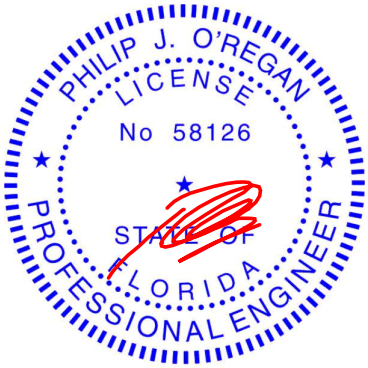
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-15: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-10 max.): 5-6, 7-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
10-0-0 oc bracing: 13-15
WEBS 1 Row at midpt 6-18, 6-16, 7-13

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=398(LC 12)
Max Uplift 2=-455(LC 12), 11=-355(LC 12)
Max Grav 2=1199(LC 2), 11=1145(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1344/516, 4-5=-1226/503, 5-6=-897/470, 6-7=-947/472, 7-8=-756/418, 8-9=-926/431, 9-10=-668/261, 10-11=-1105/414
BOT CHORD 2-18=-623/1094, 16-18=-404/958, 8-13=-114/292, 12-13=-192/554
WEBS 4-18=-256/284, 5-18=-137/536, 6-16=-530/406, 7-16=-262/481, 13-16=-279/882, 9-13=-141/348, 9-12=-569/282, 10-12=-315/913

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=22ft; Cat. II; Exp C; 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 9-4-10, Exterior(2R) 9-4-10 to 12-4-10, Interior(1) 12-4-10 to 16-7-7, Exterior(2R) 16-7-7 to 19-7-7, Interior(1) 19-7-7 to 19-11-2, Exterior(2R) 19-11-2 to 22-11-2, Interior(1) 22-11-2 to 27-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=455, 11=355.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659392
3000644	T21	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:42 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-ql3iwW6CsIRoRJ85IK71aKa4nyb7o1s5L4AhUfzrTsp

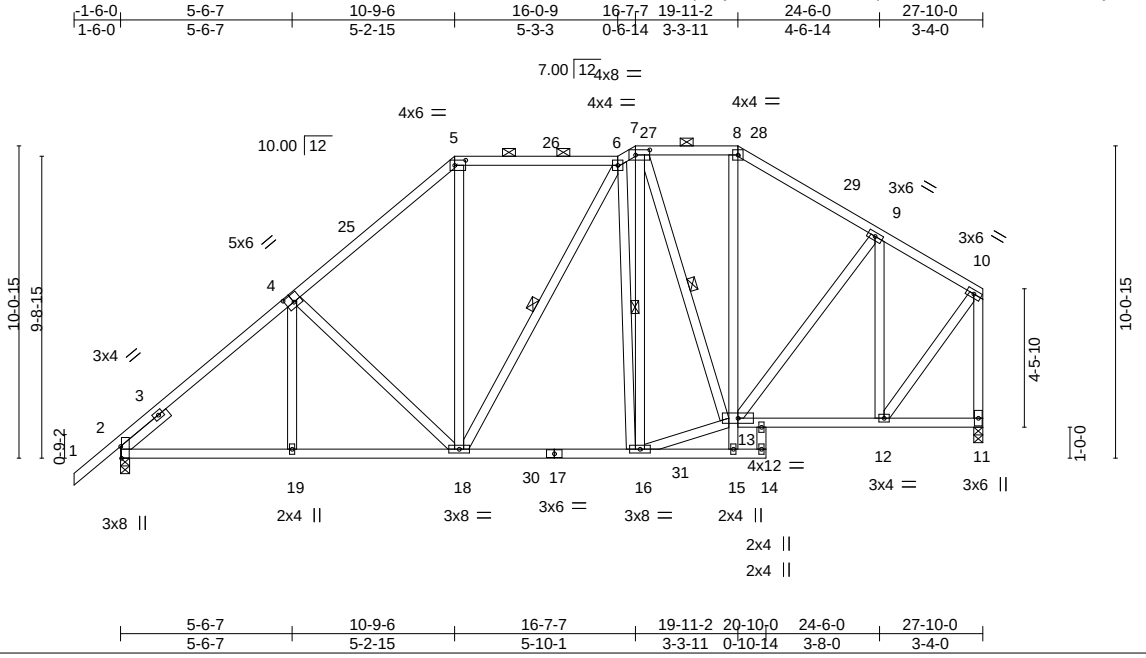


Plate Offsets (X,Y)-- [2:0-4-9,Edge], [4:0-3-0,0-3-0], [5:0-4-4,0-2-0], [7:0-5-8,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.08	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.13	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 238 lb	FT = 20%

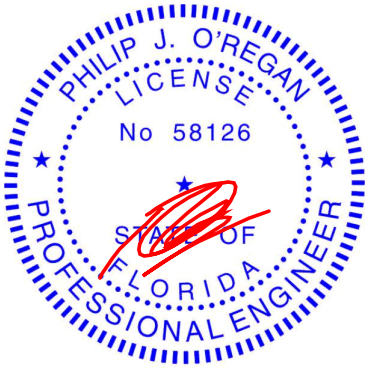
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-15: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-9 max.): 5-6, 7-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
10-0-0 oc bracing: 13-15
WEBS 1 Row at midpt 6-18, 6-16, 7-13

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=391(LC 12)
Max Uplift 2=-393(LC 12), 11=-328(LC 13)
Max Grav 2=1193(LC 2), 11=1143(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1380/466, 4-5=-1133/487, 5-6=-817/447, 6-7=-881/481, 7-8=-754/419, 8-9=-924/426, 9-10=-667/258, 10-11=-1103/409
BOT CHORD 2-19=-527/1100, 18-19=-527/1101, 16-18=-270/828, 8-13=-85/303, 12-13=-191/553
WEBS 4-18=-400/336, 5-18=-120/438, 6-16=-491/307, 7-16=-198/426, 13-16=-246/865, 9-13=-166/346, 9-12=-569/282, 10-12=-315/912

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=22ft; Cat. II; Exp C; 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 10-9-6, Exterior(2R) 10-9-6 to 13-9-6, Interior(1) 13-9-6 to 16-7-7, Exterior(2R) 16-7-7 to 19-7-7, Interior(1) 19-7-7 to 19-11-2, Exterior(2R) 19-11-2 to 22-11-2, Interior(1) 22-11-2 to 27-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=393, 11=328.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

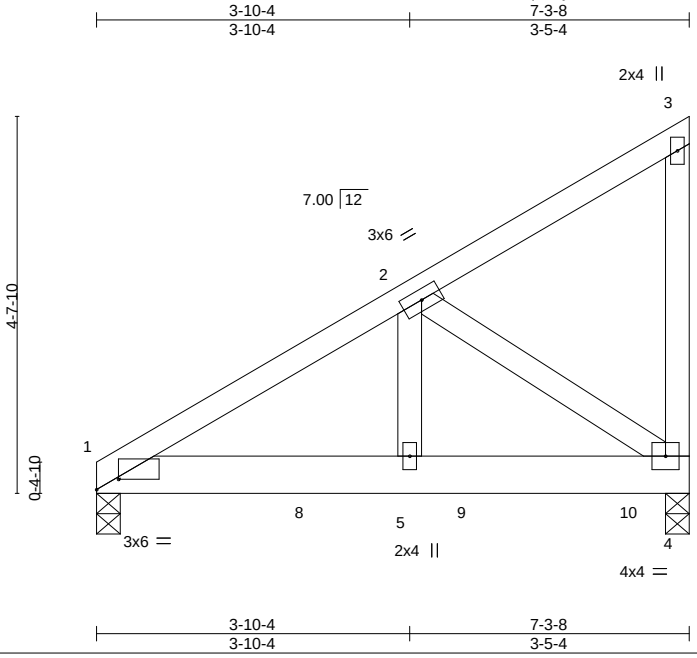


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659393
3000644	T22	Monopitch Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:43 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-Ixc47s6qdcZf3TiIs1eG6Y6JaMzMXW1FZkvF05zrTso



Scale = 1:28.3

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	-0.02	5-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.03	5-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 44 lb	FT = 20%

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

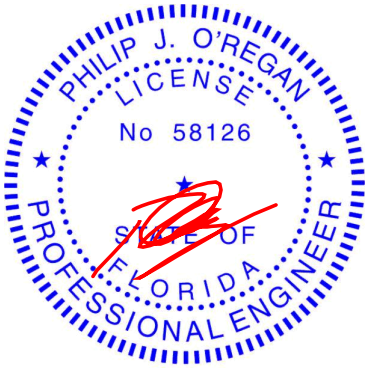
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 4=0-3-8
Max Horz 1=212(LC 8)
Max Uplift 1=-344(LC 8), 4=-673(LC 8)
Max Grav 1=905(LC 1), 4=626(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-874/368
BOT CHORD 1-5=-460/743, 4-5=-460/743
WEBS 2-5=-377/698, 2-4=-892/546

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=344, 4=673.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 372 lb down and 134 lb up at 0-7-4, 318 lb down and 153 lb up at 2-7-4, and 286 lb down and 209 lb up at 4-7-4, and 286 lb down and 560 lb up at 6-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 1-4=-20
Concentrated Loads (lb)
Vert: 7=-372(F) 8=-318(F) 9=-286(F) 10=-27(F)



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

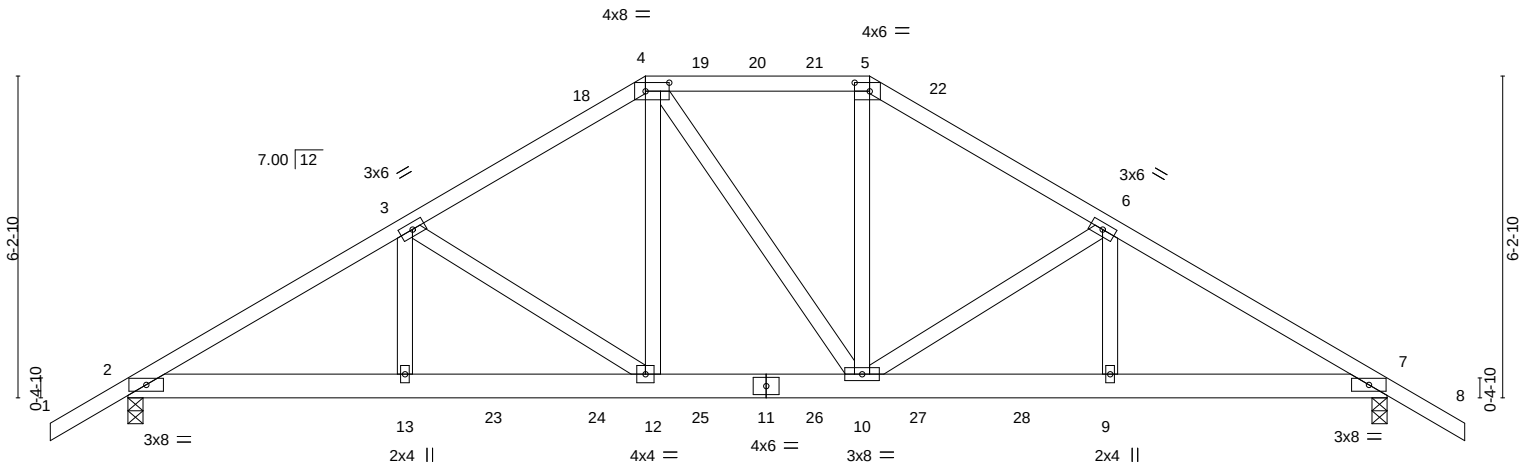
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659394
3000644	T23	Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:44 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-m8ASLC7SOvhWhdHUQl9VfIfMAlK4GwqOoOfoYXzrTsn

-1-6-0	5-4-4	10-0-0	14-4-0	18-11-12	24-4-0	25-10-0
1-6-0	5-4-4	4-7-12	4-4-0	4-7-12	5-4-4	1-6-0

Scale = 1:44.5



5-4-4	10-0-0	14-4-0	18-11-12	24-4-0
5-4-4	4-7-12	4-4-0	4-7-12	5-4-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.19	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.21	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 154 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

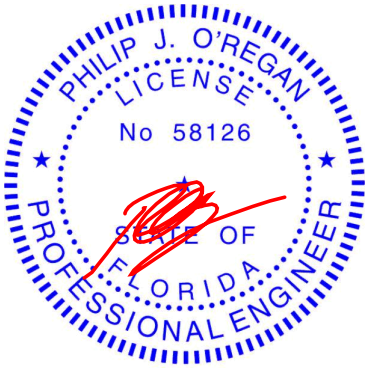
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-7-1 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-219(LC 25)
Max Uplift 2=-1332(LC 8), 7=-1334(LC 9)
Max Grav 2=1988(LC 1), 7=1990(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3529/2425, 3-4=-2798/2026, 4-5=-2393/1832, 5-6=-2811/2035, 6-7=-3529/2425
BOT CHORD 2-13=-2107/3027, 12-13=-2107/3027, 10-12=-1637/2399, 9-10=-1960/2994, 7-9=-1960/2994
WEBS 3-13=-311/522, 3-12=-781/583, 4-12=-796/1098, 5-10=-796/1094, 6-10=-768/575, 6-9=-303/509

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1332, 7=1334.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 31 lb down and 39 lb up at 9-0-12, 114 lb down and 103 lb up at 11-0-12, 114 lb down and 92 lb up at 12-2-0, and 114 lb down and 103 lb up at 13-3-4, and 31 lb down and 39 lb up at 15-3-4 on top chord, and 545 lb down and 440 lb up at 7-0-12, 196 lb down and 216 lb up at 9-0-12, 161 lb down and 137 lb up at 11-0-12, 161 lb down and 137 lb up at 12-2-0, 161 lb down and 137 lb up at 13-3-4, and 196 lb down and 216 lb up at 15-3-4, and 545 lb down and 440 lb up at 17-3-4 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



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 5-8=-54, 2-7=-20

Concentrated Loads (lb)

Vert: 11=-144(F) 18=-12(F) 19=-33(F) 20=-33(F) 21=-33(F) 22=-12(F) 23=-545(F) 24=-185(F) 25=-144(F) 26=-144(F) 27=-185(F) 28=-545(F)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T24	Common	2	1	T26659395
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:45 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-EKkrYY859DpNJnsg_SgkBzBbj9Zq?OzY12OM4_zrTsm

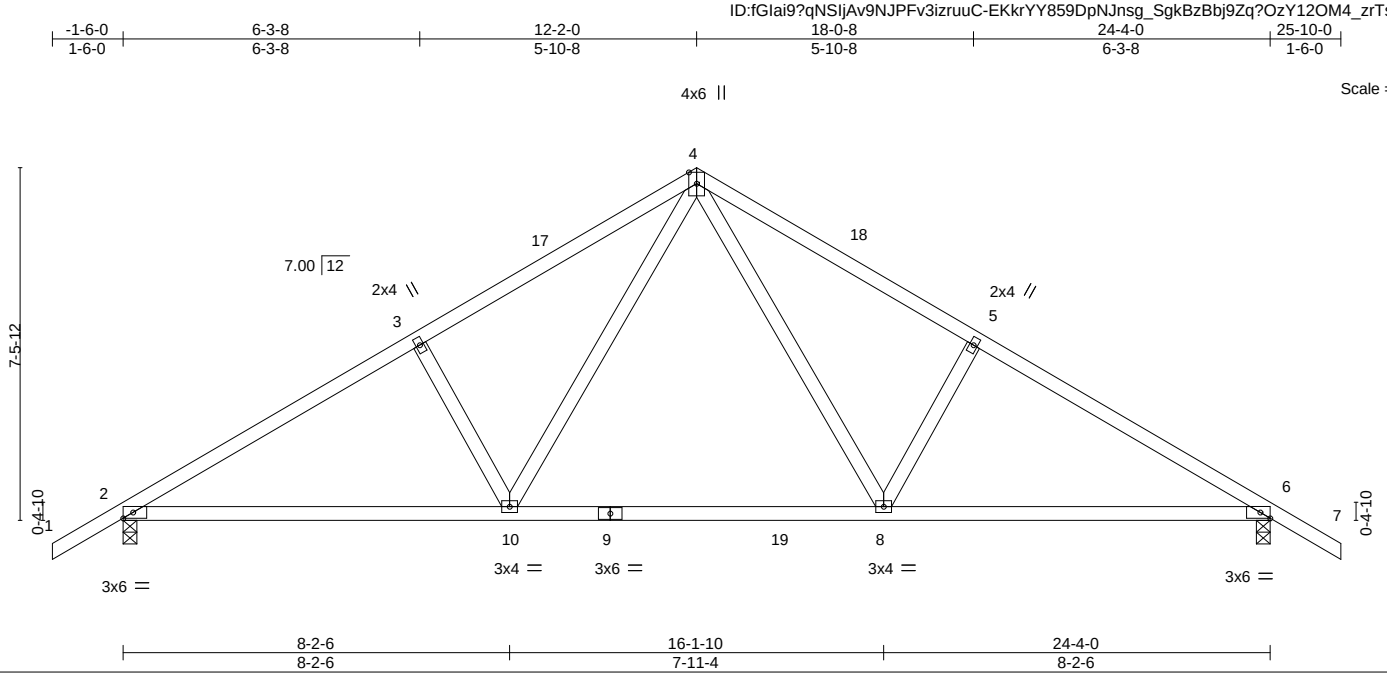


Plate Offsets (X,Y)-- [6:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.15	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.22	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 119 lb	FT = 20%

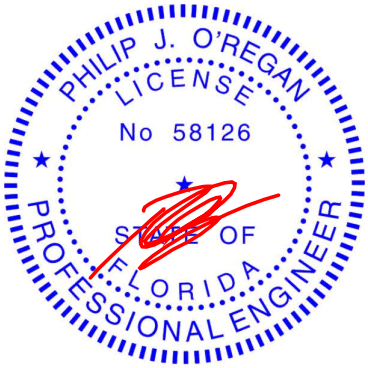
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=259(LC 11)
Max Uplift 2=-406(LC 12), 6=-406(LC 13)
Max Grav 2=1135(LC 19), 6=1135(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1580/529, 3-4=-1478/567, 4-5=-1478/567, 5-6=-1579/529
BOT CHORD 2-10=-494/1498, 8-10=-189/954, 6-8=-335/1303
WEBS 4-8=-298/755, 5-8=-376/341, 4-10=-298/756, 3-10=-376/341

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=22ft; Cat. II; Exp C; 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 12-2-0, Exterior(2R) 12-2-0 to 15-2-0, Interior(1) 15-2-0 to 25-10-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=406, 6=406.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T25	Common	1	1	T26659396
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:46 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-iWIDmu9jwXxEwwRtX9BzkAklDZvnkrzhGi8vdQzrTsl

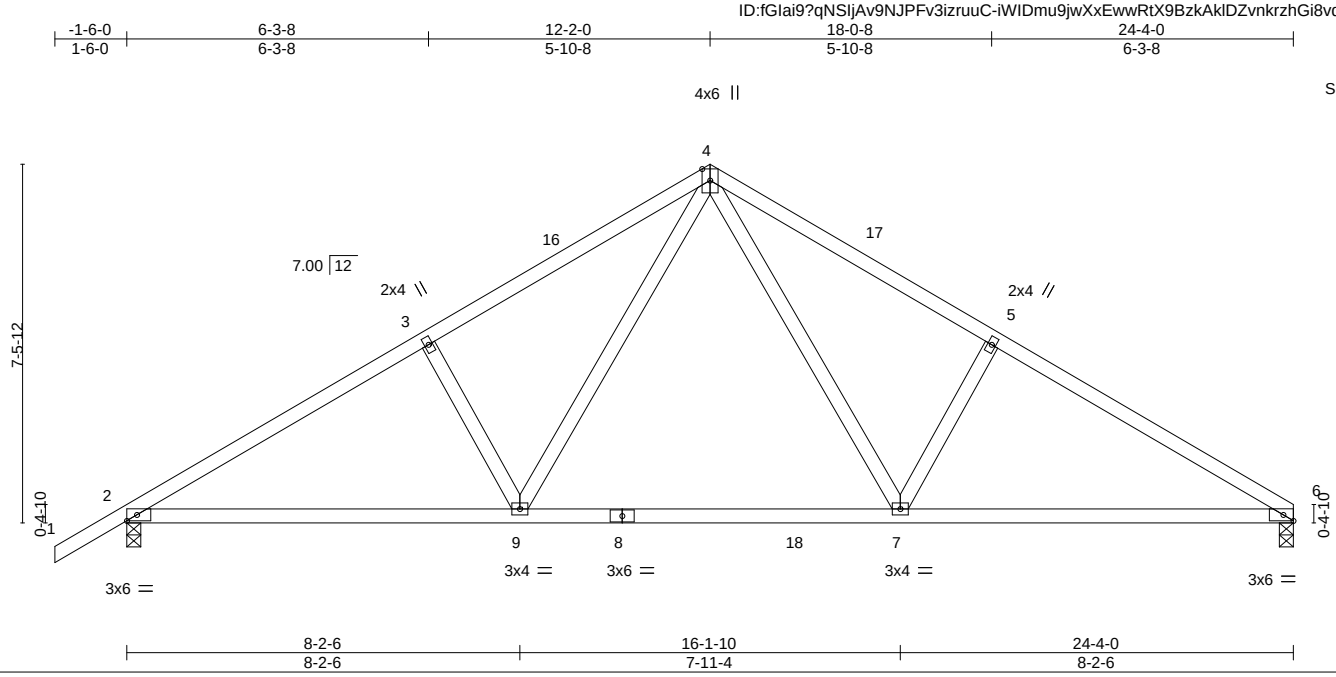


Plate Offsets (X,Y)-- [6:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.15	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.22	7-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 116 lb	FT = 20%

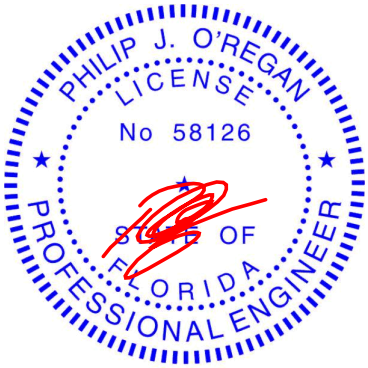
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-0-15 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=249(LC 11)
Max Uplift 6=-352(LC 13), 2=-407(LC 12)
Max Grav 6=1054(LC 20), 2=1136(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1582/531, 3-4=-1480/569, 4-5=-1491/579, 5-6=-1593/541
BOT CHORD 2-9=-514/1485, 7-9=-209/942, 6-7=-379/1325
WEBS 4-7=-310/769, 5-7=-383/347, 4-9=-298/755, 3-9=-376/341

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=22ft; Cat. II; Exp C; 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 12-2-0, Exterior(2R) 12-2-0 to 15-2-0, Interior(1) 15-2-0 to 24-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=352, 2=407.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T26	Roof Special	2	1	T26659397
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:47 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-AjsbzE9Lhq35Y4035tiCHOHvRzCuTDrqUMtS9szrTsk

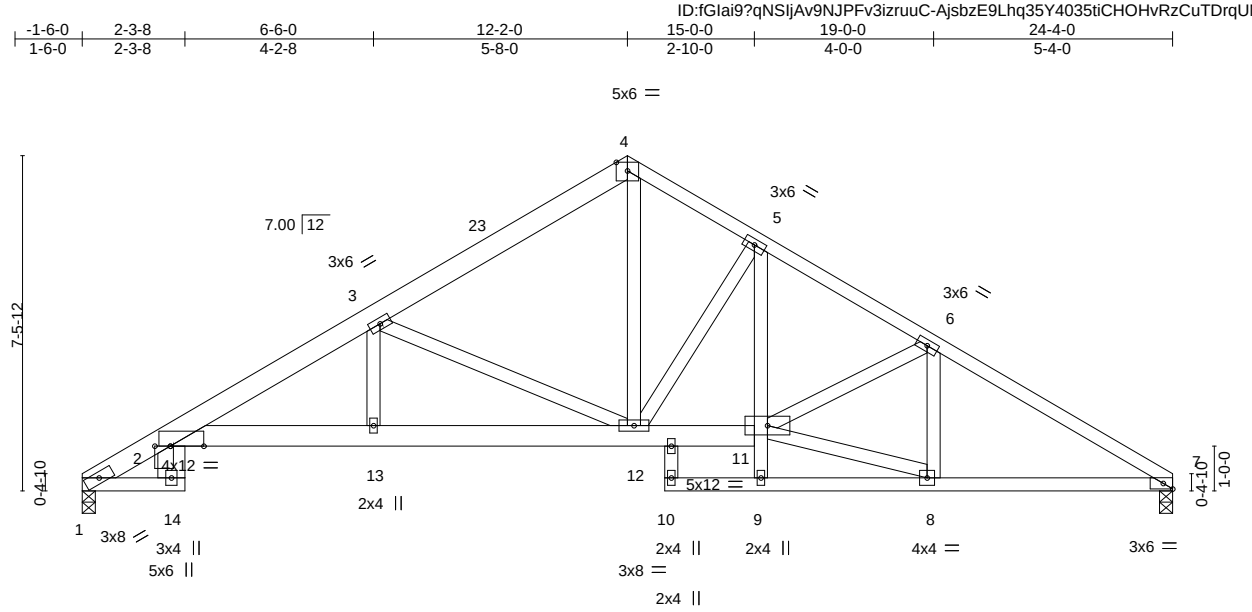


Plate Offsets (X,Y)-- [2:0-0-0,0-4-3], [2:0-8-15,0-0-0], [7:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.17	2-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.26	2-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.17	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 160 lb	FT = 20%

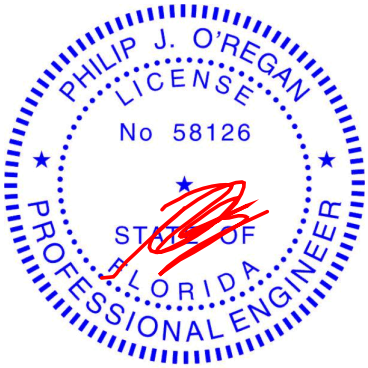
LUMBER-
TOP CHORD 2x6 SP M 26 *Except*
4-7: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-14: 2x8 SP 2400F 2.0E, 2-11: 2x6 SP No.2, 5-9: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
10-0-0 oc bracing: 9-11

REACTIONS. (size) 1=0-3-8, 7=0-3-8
Max Horz 1=231(LC 9)
Max Uplift 1=-342(LC 12), 7=-343(LC 13)
Max Grav 1=918(LC 1), 7=920(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-633/304, 2-3=-1976/745, 3-4=-1181/455, 4-5=-1138/484, 5-6=-1518/548, 6-7=-1514/538
BOT CHORD 2-14=-111/265, 2-13=-726/1820, 12-13=-726/1820, 11-12=-310/1259, 5-11=-160/491, 7-8=-380/1255
WEBS 3-13=-58/363, 3-12=-992/560, 4-12=-332/912, 8-11=-367/1235, 6-8=-270/122, 5-12=-586/301

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=22ft; Cat. II; Exp C; 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 12-2-0, Exterior(2R) 12-2-0 to 15-1-12, Interior(1) 15-1-12 to 24-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=342, 7=343.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659398
3000644	T27	Roof Special Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:49 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-75_LOvBbDSKpnOASDIlgMpM8hmuAx4G7ygMZElzrTsi

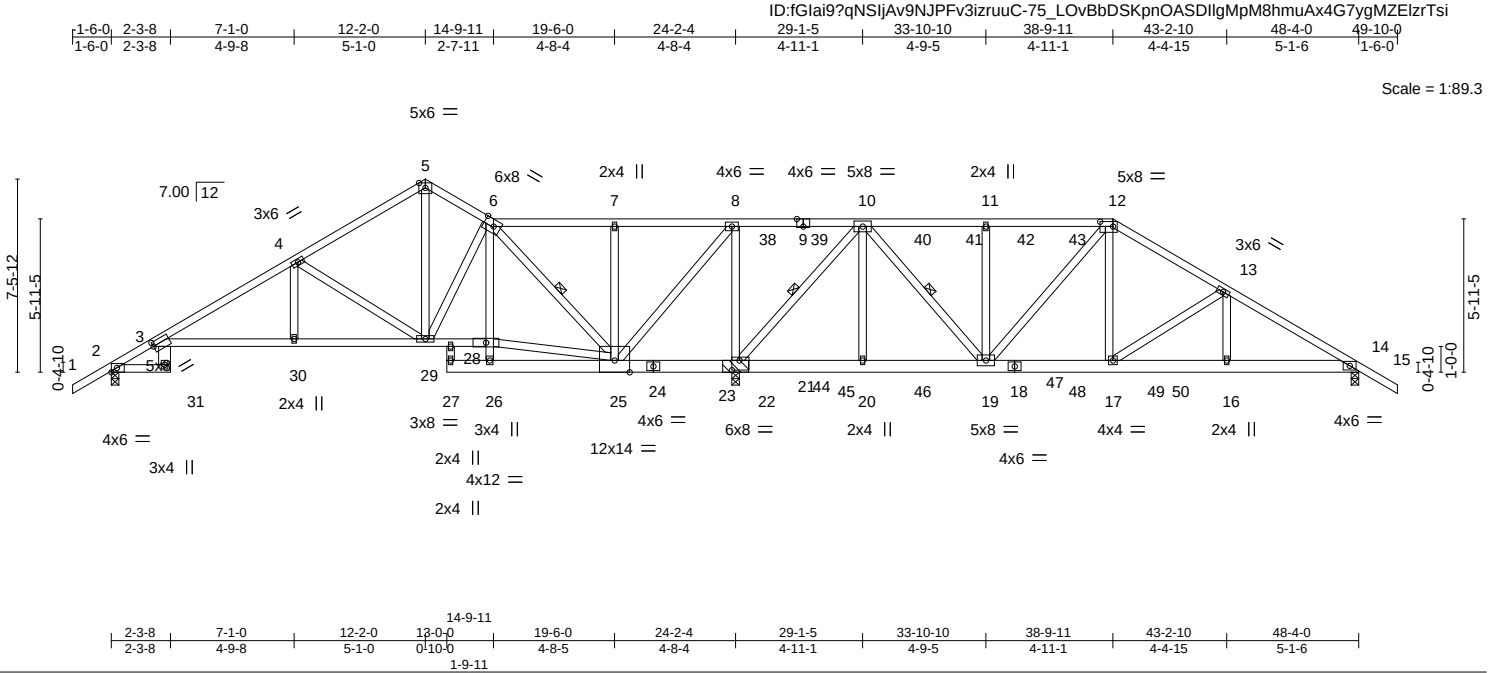


Plate Offsets (X,Y)-- [3:0-0-1,0-2-0], [6:0-4-12,Edge], [9:0-3-0,Edge], [12:0-6-0,0-2-4], [22:0-3-8,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	0.33	3-30	>878	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.43	3-30	>670	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.23	22	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 338 lb	FT = 20%

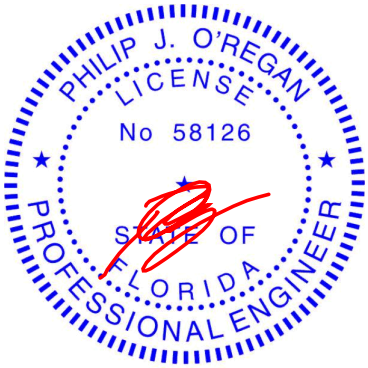
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-5: 2x4 SP M 31
BOT CHORD 2x6 SP No.2 *Except*
2-31,3-28,6-26: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-1 oc bracing. Except:
10-0-0 oc bracing: 26-28
WEBS 1 Row at midpt 10-22, 10-19, 6-25

REACTIONS. (size) 2=0-3-8, 22=(0-3-8 + bearing block) (req. 0-4-11), 14=0-3-8
Max Horz 2=260(LC 26)
Max Uplift 2=-267(LC 27), 22=-2219(LC 9), 14=-1178(LC 9)
Max Grav 2=486(LC 15), 22=3954(LC 1), 14=1405(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-34=-411/317, 3-4=-601/430, 4-5=-281/402, 5-6=-231/388, 6-7=-686/1497, 7-8=-686/1496, 8-10=-1058/2457, 10-11=-1492/1943, 11-12=-1492/1943, 12-13=-1735/1968, 13-14=-2393/2182
BOT CHORD 3-30=-306/615, 29-30=-307/616, 28-29=-728/598, 22-25=-2383/1238, 20-22=-1792/1420, 19-20=-1792/1420, 17-19=-1627/1534, 16-17=-1806/2015, 14-16=-1806/2015
WEBS 4-30=-34/276, 4-29=-706/440, 5-29=-507/301, 6-29=-522/1029, 25-28=-682/541, 8-25=-576/1606, 8-22=-1593/728, 10-22=-2775/1877, 10-20=-160/350, 10-19=-1087/1787, 11-19=-474/496, 12-19=-831/398, 12-17=-819/1039, 13-17=-712/557, 13-16=-305/465, 6-25=-1087/426

NOTES-
1) 2x6 SP No.2 bearing block 12" long at jt. 22 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=267, 22=2219, 14=1178.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 159 lb down and 148 lb up at 25-3-4, 159 lb down and 148 lb up at 27-3-4, 159 lb down and 148 lb up at 29-3-4, 159 lb down and 148 lb up at 31-3-4, 159 lb down and 148 lb up at 33-3-4, and 159 lb down and 148 lb up at 35-3-4, and 159 lb down and 148 lb up at 37-3-4 on top chord, and 94 lb down and 87 lb up at 25-3-4, 94 lb down and 87 lb up at 27-3-4, 94 lb down and 87 lb up at 29-3-4, 94 lb down and 87 lb up at 31-3-4, 94 lb down and 87 lb up at 33-3-4, 94 lb down and 87 lb up at 35-3-4, 94 lb down and 87 lb up at 37-3-4, and 236 lb down and 247 lb up at 39-3-4, and 517 lb down and 490 lb up at 41-3-4 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=-54, 3-5=-54, 5-6=-54, 6-12=-54, 12-15=-54, 31-33=-20, 3-28=-20, 26-27=-20, 14-26=-20
   Concentrated Loads (lb)
   Vert: 20=-84(F) 10=-77(F) 18=-84(F) 38=-77(F) 39=-77(F) 40=-77(F) 41=-77(F) 42=-77(F) 43=-77(F) 44=-84(F) 45=-84(F) 46=-84(F) 47=-84(F) 48=-84(F) 49=-212(F) 50=-517(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659399
3000644	T28	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:51 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-3U56pbDsk3aW1iKqKjn8RERTJacgP0ZQP_rgIdzrTsg

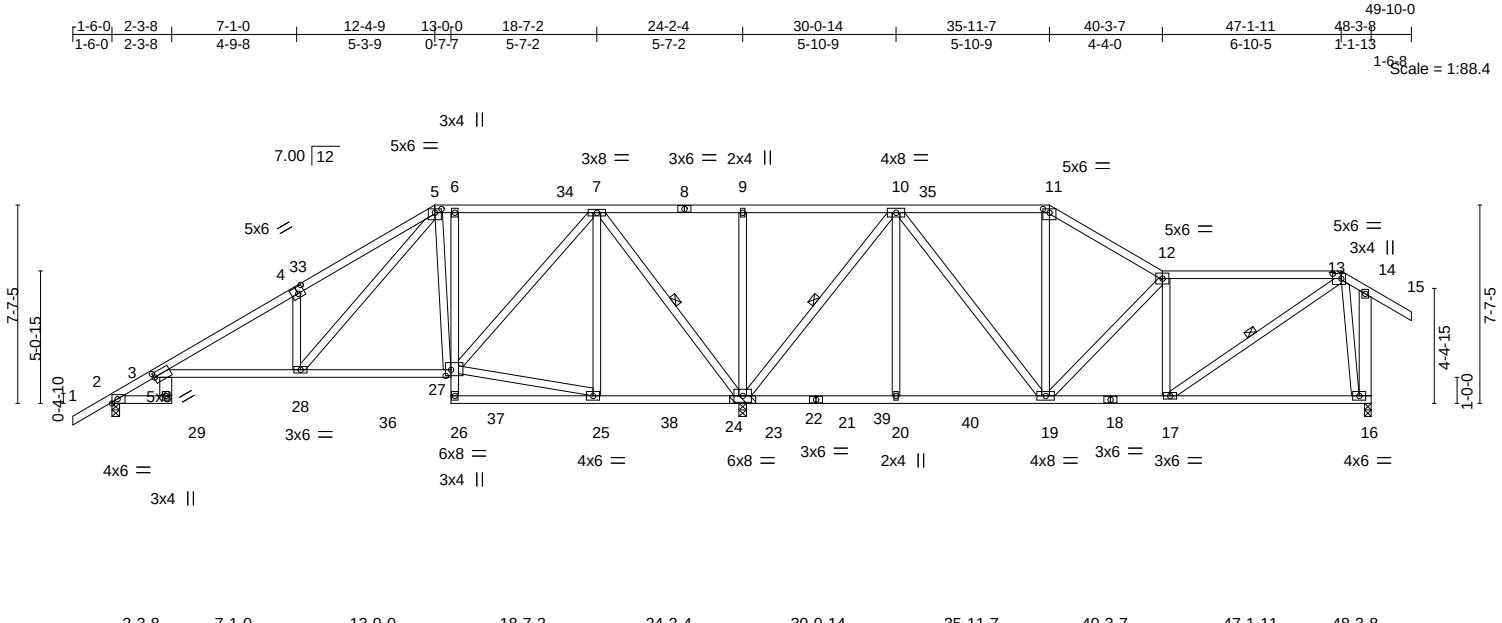


Plate Offsets (X,Y)-- [3:0-0-5,0-2-0], [4:0-3-0,0-3-0], [5:0-3-0,0-1-12], [11:0-3-0,0-1-12], [13:0-4-0,0-2-4], [27:0-2-8,0-2-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	0.28	3-28	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.44	3-28	>665	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.21	23	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 338 lb	FT = 20%

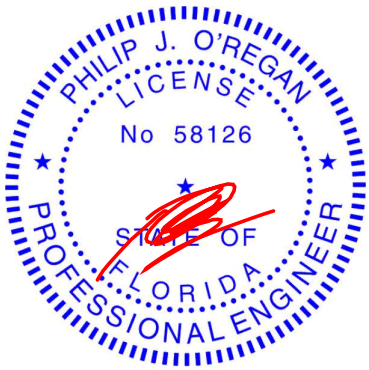
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-29: 2x6 SP No.2, 6-26: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
14-16: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing.
WEBS 1 Row at midpt 7-23, 10-23, 13-17

REACTIONS. (size) 2=0-3-8, 23=(0-3-8 + bearing block) (req. 0-3-14), 16=0-3-0
Max Horz 2=339(LC 11)
Max Uplift 2=-149(LC 12), 23=-1224(LC 9), 16=-341(LC 8)
Max Grav 2=430(LC 20), 23=3283(LC 2), 16=606(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-31=-426/215, 3-4=-392/203, 4-5=-401/324, 5-6=-139/548, 6-7=-136/549, 7-9=-800/2303, 9-10=-800/2303, 10-11=-237/592, 11-12=-267/702, 12-13=-380/498, 14-16=-258/155
BOT CHORD 3-28=-139/296, 27-28=-389/284, 6-27=-276/203, 23-25=-1177/586, 20-23=-1198/638, 19-20=-1198/638, 17-19=-355/382
WEBS 4-28=-459/382, 5-28=-507/1026, 5-27=-783/391, 25-27=-1153/582, 7-27=-418/1096, 7-25=-70/444, 7-23=-1759/684, 9-23=-310/238, 10-23=-1803/682, 10-20=0/332, 10-19=-448/1125, 11-19=-438/249, 12-19=-464/248, 12-17=-115/424, 13-17=-429/345, 13-16=-484/288

NOTES-
1) 2x4 SP No.2 bearing block 12" long at jt. 23 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 12-4-9, Exterior(2R) 12-4-9 to 17-2-8, Interior(1) 17-2-8 to 35-11-7, Exterior(2E) 35-11-7 to 40-3-7, Interior(1) 40-3-7 to 47-1-11, Exterior(2E) 47-1-11 to 49-10-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=149, 23=1224, 16=341.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

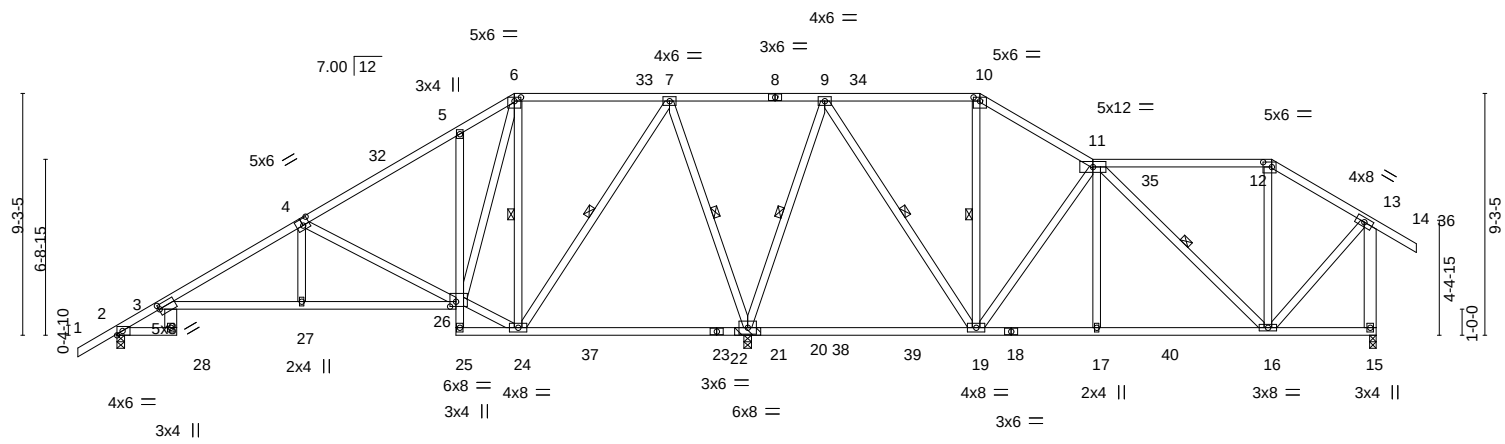
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659400
3000644	T29	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:53 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-?tDsEHE6GgqEG?TDS7pcWfXrxOGXtxTjtIKnNWzrTse

1-6-0	2-3-8	7-1-0	13-0-0	15-2-14	21-2-5	27-1-11	33-1-2	37-5-2	44-3-7	48-3-8	49-10-0
1-6-0	2-3-8	4-9-8	5-11-0	2-2-14	5-11-7	5-11-7	5-11-7	4-4-0	6-10-5	4-0-1	1-6-8

Scale = 1:88.4



2-3-8	7-1-0	13-0-0	15-2-14	24-2-4	33-1-2	37-5-2	44-3-7	48-3-8
2-3-8	4-9-8	5-11-0	2-2-14	8-11-6	8-10-14	4-4-0	6-10-5	4-0-1

Plate Offsets (X,Y)-- [3:0-0-5,0-2-0], [4:0-3-0,0-3-0], [6:0-3-0,0-1-12], [10:0-3-0,0-1-12], [12:0-4-0,0-2-4], [26:0-2-12,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	0.28	3-27	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.38	3-27	>757	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.18	21	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 343 lb	FT = 20%

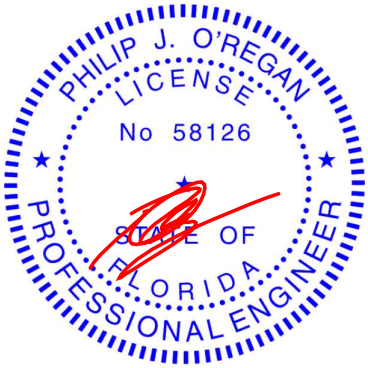
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-28: 2x6 SP No.2, 5-25: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
13-15: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-1-11 oc bracing.
WEBS 1 Row at midpt 6-24, 7-24, 7-21, 9-21, 9-19, 10-19, 11-16

REACTIONS. (size) 2=0-3-8, 21=(0-3-8 + bearing block) (req. 0-3-15), 15=0-3-0
Max Horz 2=331(LC 12)
Max Uplift 2=-91(LC 13), 21=-1172(LC 12), 15=-352(LC 8)
Max Grav 2=394(LC 23), 21=3360(LC 2), 15=635(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-30=-338/160, 3-4=-289/171, 4-5=-340/743, 5-6=-187/667, 6-7=-217/677, 7-9=-804/2044, 9-10=-361/824, 10-11=-460/969, 12-13=-338/256, 13-15=-611/359
BOT CHORD 5-26=-262/264, 21-24=-1487/735, 19-21=-1542/786, 17-19=-510/422, 16-17=-508/422
WEBS 4-27=-13/314, 4-26=-791/418, 24-26=-596/444, 6-26=-268/402, 6-24=-789/420, 7-24=-660/1616, 7-21=-1548/723, 9-21=-1546/659, 9-19=-490/1447, 10-19=-569/321, 11-19=-547/341, 11-16=-389/642, 13-16=-235/377

NOTES-
1) 2x4 SP No.2 bearing block 12" long at jt. 21 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 15-2-14, Exterior(2R) 15-2-14 to 20-0-13, Interior(1) 20-0-13 to 33-1-2, Exterior(2E) 33-1-2 to 37-5-2, Interior(1) 37-5-2 to 44-3-7, Exterior(2R) 44-3-7 to 49-1-6, Interior(1) 49-1-6 to 49-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 21=1172, 15=352.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

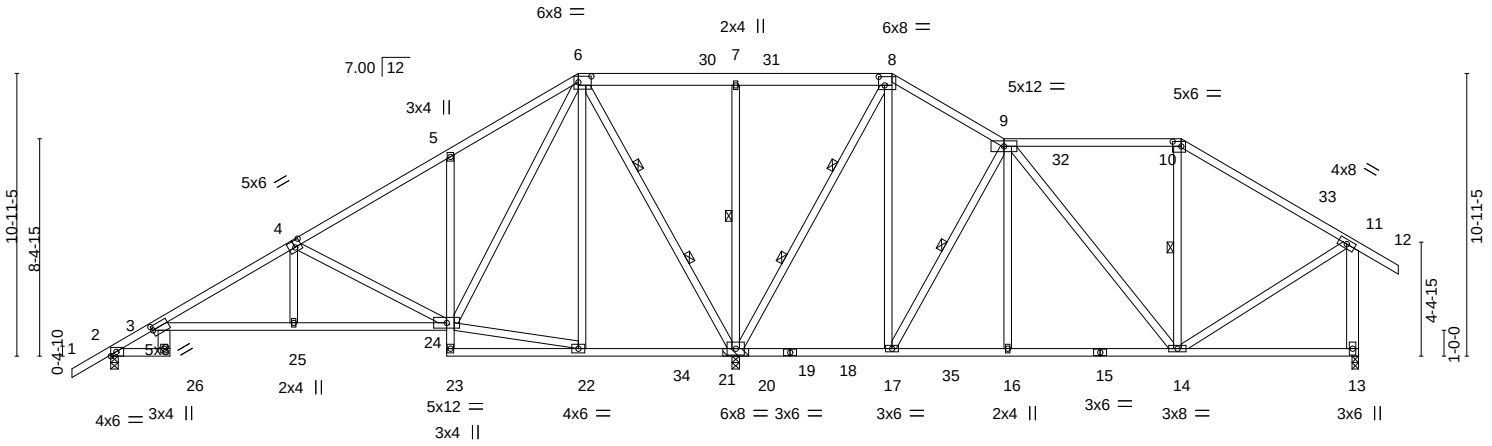
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T30	Roof Special	1	1	T26659401
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:55 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-xFLdfzGMoI4yVJdbZYs4b4cEPB2ZLnZ0KcptRPzrTsc

1-6-0	2-3-8	7-1-0	13-0-0	18-1-2	24-2-4	30-2-14	34-6-13	41-5-2	48-3-8	49-10-0
1-6-0	2-3-8	4-9-8	5-11-0	5-1-2	6-1-2	6-0-10	4-4-0	6-10-5	6-10-6	1-6-8

Scale = 1:89.2



2-3-8	7-1-0	13-0-0	18-1-2	24-2-4	30-2-14	34-6-13	41-5-2	48-3-8
2-3-8	4-9-8	5-11-0	5-1-2	6-1-2	6-0-10	4-4-0	6-10-5	6-10-6

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

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	0.65	Vert(LL)	0.22	3-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.30	3-25	>964	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.14	20	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 371 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-8: 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-26: 2x6 SP No.2, 5-23: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
6-20,8-20: 2x4 SP No.2, 11-13: 2x6 SP No.2

BRACING-

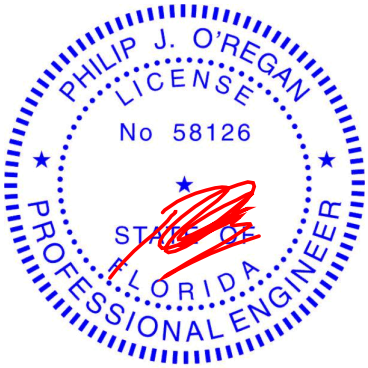
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-9 oc bracing.
WEBS 1 Row at midpt 7-20, 9-17, 10-14
2 Rows at 1/3 pts 6-20, 8-20

REACTIONS. (size) 2=0-3-8, 20=(0-3-8 + bearing block) (req. 0-4-4), 13=0-3-0
Max Horz 2=446(LC 11)
Max Uplift 2=-129(LC 8), 20=-1247(LC 12), 13=-437(LC 8)
Max Grav 2=411(LC 20), 20=3593(LC 19), 13=633(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-28=-474/337, 3-4=-368/331, 4-5=-415/961, 5-6=-305/898, 6-7=-637/2040, 7-8=-637/2039, 8-9=-472/1391, 9-10=-252/430, 10-11=-393/450, 11-13=-572/455
BOT CHORD 5-24=-353/344, 20-22=-937/561, 17-20=-1048/676, 16-17=-767/578, 14-16=-762/579
WEBS 4-25=-3/301, 4-24=-753/388, 22-24=-927/569, 6-24=-425/763, 6-22=-73/416, 6-20=-1967/777, 7-20=-384/317, 8-20=-1753/640, 8-17=-315/827, 9-17=-707/398, 9-16=0/312, 9-14=-423/962, 10-14=-358/232, 11-14=-326/320

NOTES-

1) 2x4 SP No.2 bearing block 12" long at jt. 20 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 22-11-2, Interior(1) 22-11-2 to 30-2-14, Exterior(2E) 30-2-14 to 34-6-13, Interior(1) 34-6-13 to 41-5-2, Exterior(2R) 41-5-2 to 46-3-1, Interior(1) 46-3-1 to 49-10-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 20=1247, 13=437.

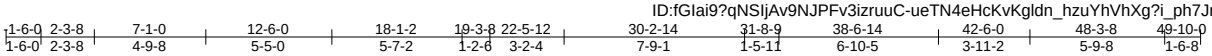


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

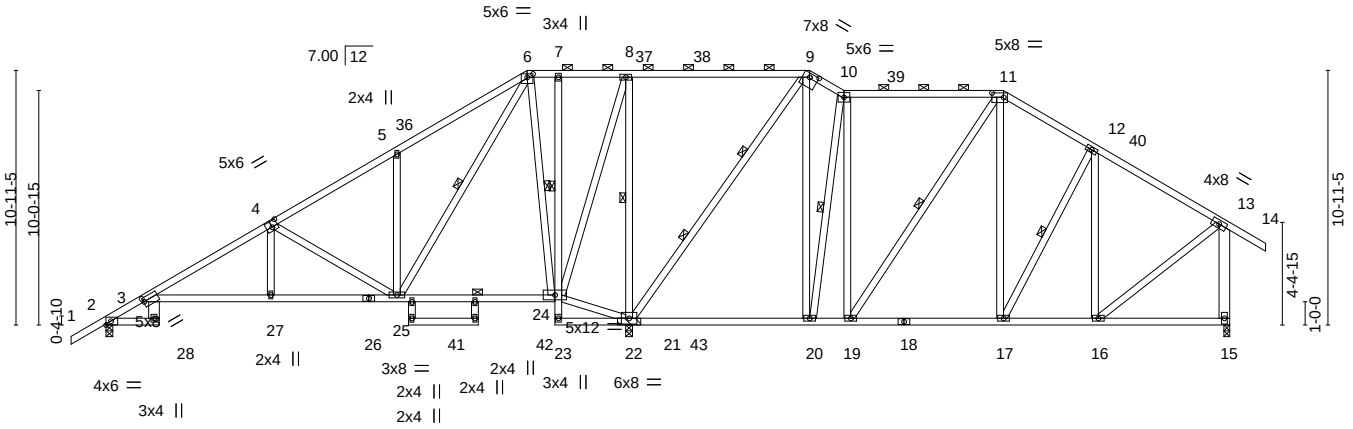
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659402
3000644	T31	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:04:57 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-ueTN4eHcKvKgldn_hzuYhVhXg?i_ph7JnwI_WHzrTsa



Scale = 1:99.0



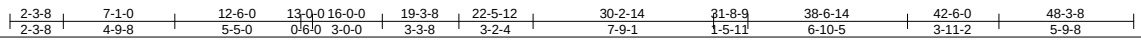


Plate Offsets (X,Y)-- [3:0-0-5,0-2-0], [4:0-3-0,0-3-0], [6:0-3-0,0-1-12], [9:0-4-8,0-2-0], [11:0-6-0,0-2-4]

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	0.85	Vert(LL)	0.21	3-27	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.30	3-27	>898	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.14	22	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 405 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-28: 2x6 SP No.2, 7-23,29-30: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
9-22: 2x4 SP No.2, 13-15: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9, 10-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 2-28,3-28,15-16.
1 Row at midpt 7-24
5-0-0 oc bracing: 24-25
WEBS 1 Row at midpt 6-25, 6-24, 8-22, 10-20, 11-19, 12-17
2 Rows at 1/3 pts 9-22

REACTIONS. (size) 2=0-3-8, 22=(0-3-8 + bearing block) (req. 0-4-0), 15=0-3-0
Max Horz 2=447(LC 11)
Max Uplift 2=-132(LC 8), 22=-1180(LC 12), 15=-428(LC 8)
Max Grav 2=400(LC 20), 22=3395(LC 19), 15=773(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-34=-473/340, 3-4=-355/354, 4-5=-421/918, 5-6=-310/865, 6-7=-416/1426, 7-8=-417/1430, 8-9=-534/1784, 9-10=-292/933, 10-11=-225/699, 11-12=-427/523, 12-13=-494/413, 13-15=-718/444
BOT CHORD 24-25=-1091/629, 20-22=-678/547, 19-20=-597/516, 17-19=-210/325, 16-17=-162/358
WEBS 4-27=-16/258, 4-25=-660/359, 5-25=-352/347, 6-25=-549/1071, 6-24=-1533/720, 22-24=-1594/888, 8-24=-389/1176, 8-22=-1246/623, 9-22=-1667/624, 9-20=-411/897, 10-20=-633/443, 11-19=-912/356, 11-17=-154/480, 12-17=-263/211, 13-16=-262/421, 10-19=-270/853

NOTES-
1) 2x4 SP No.2 bearing block 12" long at jt. 22 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 22-11-2, Interior(1) 22-11-2 to 30-2-14, Exterior(2E) 30-2-14 to 31-8-9, Interior(1) 31-8-9 to 38-6-14, Exterior(2R) 38-6-14 to 43-4-13, Interior(1) 43-4-13 to 49-10-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 3x6 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=132, 22=1180, 15=428.

Continued on page 2

PHILIP J. O'REGAN LICENSE No 58126 STATE OF FLORIDA PROFESSIONAL ENGINEER

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

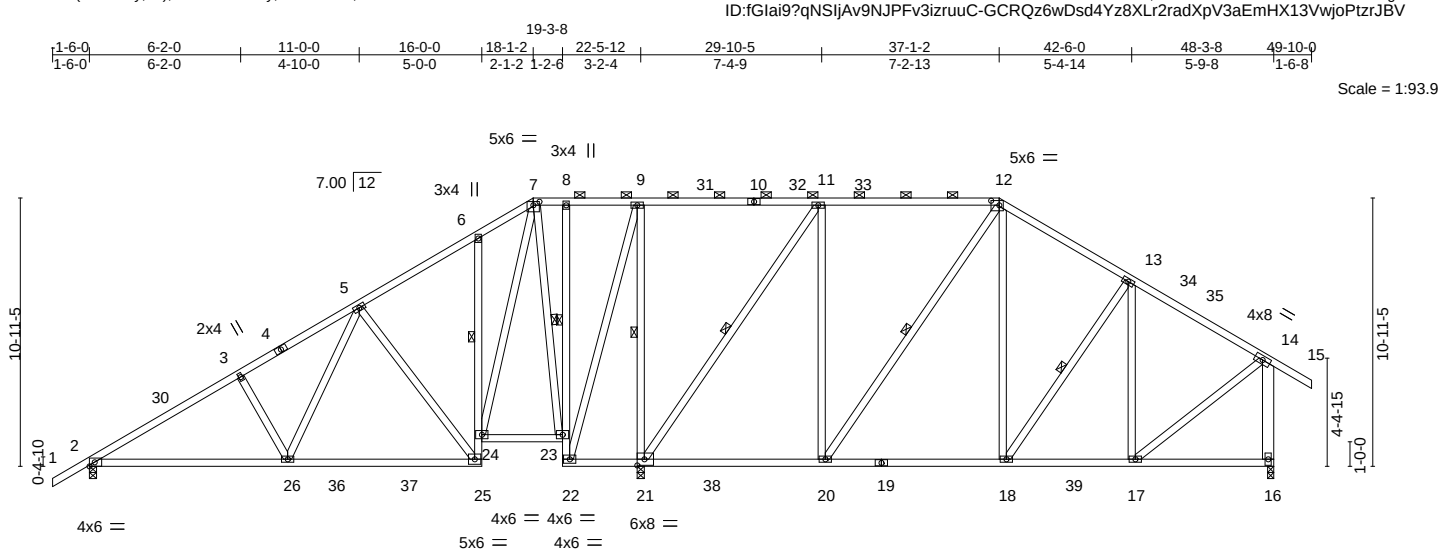
NOTES-

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T32	PIGGYBACK BASE	1	1	T26659403
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jan 27 14:13:34 2022 Page 1

ID:fGIai9?qNSIjAv9NJPFv3izruuC-GCRQz6wDsd4Yz8XLr2radXpV3aEmHX13VwjoPtzrJBV



8-1-0	16-0-0	19-3-8	22-5-12	29-10-5	37-1-2	42-6-0	48-3-8
8-1-0	7-11-0	3-3-8	3-2-4	7-4-9	7-2-13	5-4-14	5-9-8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.16	25-26	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.26	25-26	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	-0.04	16	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 383 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-25,8-22: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
11-21,12-20: 2x4 SP No.2, 14-16: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-12.
BOT CHORD Rigid ceiling directly applied or 5-3-12 oc bracing. Except:
1 Row at midpt 6-24, 8-23
WEBS 1 Row at midpt 7-23, 9-21, 11-21, 12-20, 13-18

REACTIONS. (lb/size) 2=738/0-3-8, 21=2106/0-3-8, 16=890/0-3-0
Max Horz 2=447(LC 11)
Max Uplift 2=-370(LC 12), 21=-846(LC 9), 16=-498(LC 13)
Max Grav 2=823(LC 19), 21=2375(LC 2), 16=1107(LC 20)

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

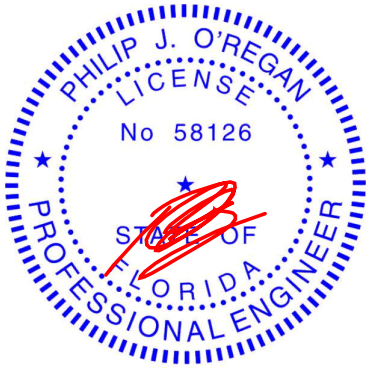
TOP CHORD 2-30=-1132/435, 3-30=-1080/448, 3-4=-1023/458, 4-5=-925/476, 5-6=-432/393, 6-7=-401/455, 7-8=-217/350, 8-9=-219/353, 9-31=-220/546, 10-31=-220/546, 10-32=-220/546, 11-32=-220/546, 11-33=-425/517, 12-33=-425/517, 12-13=-752/485, 13-34=-685/376, 34-35=-728/366, 14-35=-796/364, 14-16=-1017/511

BOT CHORD 2-26=-510/1055, 26-36=-275/614, 36-37=-275/614, 25-37=-275/614, 24-25=-288/667, 22-23=-1051/402, 21-22=-422/226, 21-38=-196/404, 20-38=-196/404, 19-20=-178/559, 18-19=-178/559, 18-39=-256/582, 17-39=-256/582

WEBS 3-26=-326/289, 5-26=-232/693, 5-25=-662/386, 7-24=-498/966, 7-23=-933/362, 9-22=-391/1067, 9-21=-1132/643, 11-21=-1194/408, 11-20=-33/679, 12-20=-403/100, 12-18=-75/416, 13-17=-263/194, 14-17=-261/704

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 24-11-2, Interior(1) 24-11-2 to 37-1-2, Exterior(2R) 37-1-2 to 43-11-2, Interior(1) 43-11-2 to 49-10-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 370 lb uplift at joint 2, 846 lb uplift at joint 21 and 498 lb uplift at joint 16.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T33	Piggyback Base	1	1	T26659404
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:00 2022 Page 1
ID:fGlai9?qNSIjAv9NJPFv3izruuC-ID8VigJVdqiFc4WZM6RFI7J9XChg02elUuXe6czrTsX

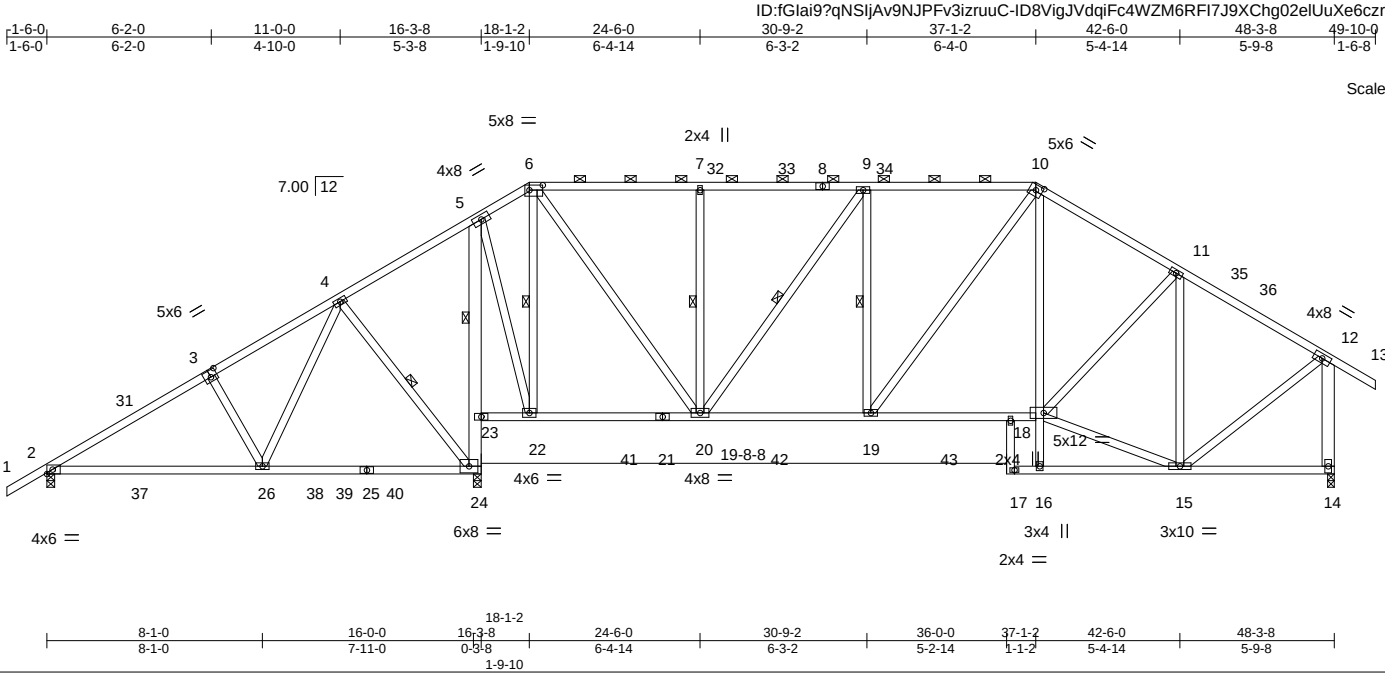


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-6-0,0-2-4], [10:0-3-0,0-2-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.22	24-26	>865	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.24	24-26	>794	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.04	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 368 lb	FT = 20%

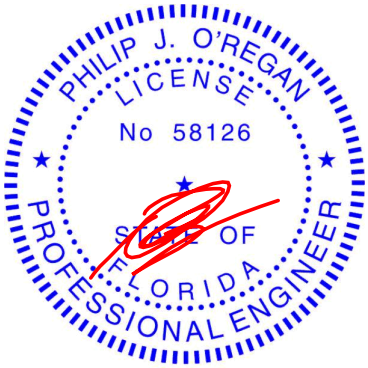
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-24: 2x6 SP No.2, 10-16: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
12-14: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-4 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 5-9-13 oc bracing. Except:
1 Row at midpt 5-23
10-0-0 oc bracing: 16-18
WEBS 1 Row at midpt 4-24, 6-22, 7-20, 9-20, 9-19

REACTIONS. (size) 2=0-3-8, 14=0-3-0, 24=0-3-8
Max Horz 2=447(LC 11)
Max Uplift 2=-309(LC 12), 14=-588(LC 13), 24=-919(LC 9)
Max Grav 2=695(LC 25), 14=1427(LC 26), 24=2076(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-831/940, 3-4=-714/965, 4-5=-329/390, 5-6=-460/439, 6-7=-1004/587, 7-9=-1004/587, 9-10=-1299/651, 10-11=-1428/659, 11-12=-1057/444, 12-14=-1339/600
BOT CHORD 2-26=-713/697, 24-26=-360/332, 23-24=-1517/601, 5-23=-1498/591, 20-22=-122/300, 19-20=-417/1299, 18-19=-334/1178, 10-18=-78/381
WEBS 3-26=-315/289, 4-26=-667/613, 4-24=-562/561, 5-22=-434/1179, 6-22=-933/458, 6-20=-418/1191, 7-20=-365/284, 9-20=-508/252, 10-19=-204/274, 15-18=-338/923, 11-18=-224/464, 11-15=-764/372, 12-15=-344/1053

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 24-11-2, Interior(1) 24-11-2 to 37-1-2, Exterior(2R) 37-1-2 to 43-11-2, Interior(1) 43-11-2 to 49-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=309, 14=588, 24=919.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

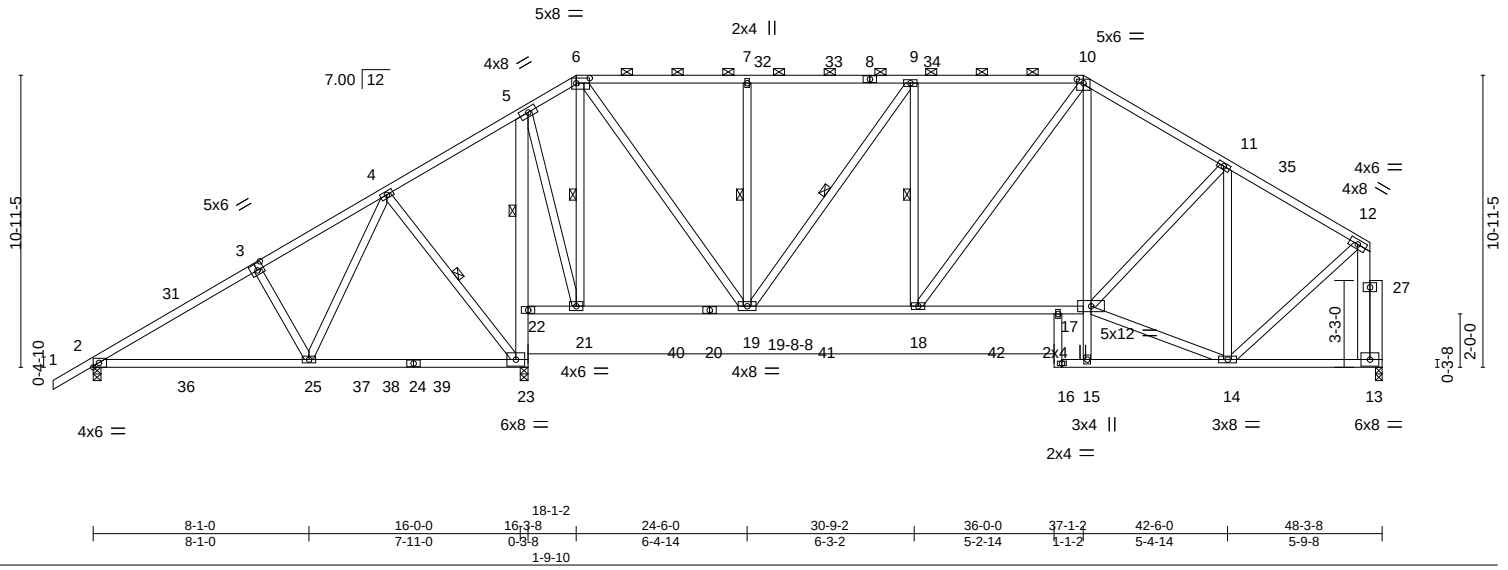
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T33D	Piggyback Base	1	1	T26659405
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:01 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-mPiuv0K7O8q6DE5lwpzUrLsKHc1vlVsuiYGCf2zrTsW

1-6-0	6-2-0	11-0-0	16-3-8	18-1-2	24-6-0	30-9-2	37-1-2	42-6-0	48-3-8	49-10-0
1-6-0	6-2-0	4-10-0	5-3-8	1-9-10	6-4-14	6-3-2	6-4-0	5-4-14	5-9-8	1-6-8

Scale = 1:86.3



8-1-0	16-0-0	16-3-8	24-6-0	30-9-2	36-0-0	37-1-2	42-6-0	48-3-8
8-1-0	7-11-0	0-3-8	6-4-14	6-3-2	5-2-14	1-1-2	5-4-14	5-9-8

18-1-2
1-9-10

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.22	23-25	>872	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.24	23-25	>795	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 372 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 5-23: 2x6 SP No.2, 10-15: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 12-13: 2x6 SP No.2
OTHERS	2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-8 max.): 6-10.
BOT CHORD	Rigid ceiling directly applied or 5-10-1 oc bracing. Except: 1 Row at midpt 5-22; 10-0-0 oc bracing: 15-17
WEBS	1 Row at midpt 4-23, 6-21, 7-19, 9-19, 9-18

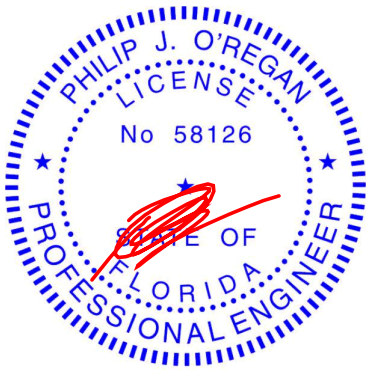
REACTIONS. (size) 2=0-3-8, 13=0-3-0, 23=0-3-8
Max Horz 2=440(LC 11)
Max Uplift 2=-297(LC 12), 13=-498(LC 13), 23=-930(LC 9)
Max Grav 2=696(LC 25), 13=1329(LC 26), 23=2066(LC 2)

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

TOP CHORD	2-3=-829/923, 3-4=-717/948, 4-5=-324/373, 5-6=-457/425, 6-7=-999/572, 7-9=-999/572, 9-10=-1288/637, 10-11=-1408/625, 11-12=-1015/390, 12-13=-1248/515
BOT CHORD	2-25=-723/697, 23-25=-369/332, 22-23=-1506/612, 5-22=-1489/602, 19-21=-128/301, 18-19=-426/1288, 17-18=-369/1160, 10-17=-67/365
WEBS	3-25=-315/289, 4-25=-668/613, 4-23=-562/562, 5-21=-444/1171, 6-21=-924/467, 6-19=-418/1181, 7-19=-365/284, 9-19=-498/259, 10-18=-202/284, 14-17=-357/895, 11-17=-230/476, 11-14=-781/400, 12-14=-351/998

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 24-11-2, Interior(1) 24-11-2 to 37-1-2, Exterior(2R) 37-1-2 to 43-11-2, Interior(1) 43-11-2 to 47-7-4 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=297, 13=498, 23=930.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659406
3000644	T34	Piggyback Base	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:03 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-ioqeKiMNwl4pTYE81E?ywmxfmQkODR7BAslJjxzrTsU

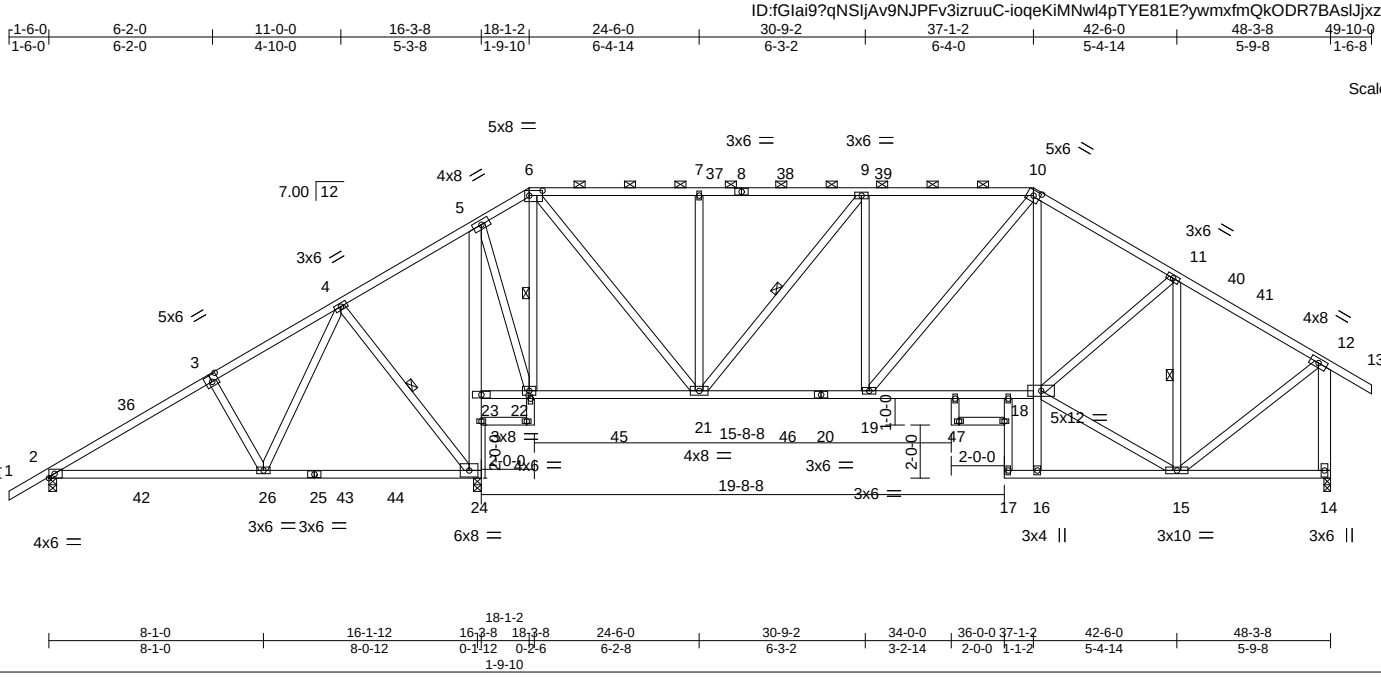

1-6-0 6-2-0 11-0-0 16-3-8 18-1-2 24-6-0 30-9-2 37-1-2 42-6-0 48-3-8 49-10-0
1-6-0 6-2-0 4-10-0 5-3-8 1-9-10 6-4-14 6-3-2 6-4-0 5-4-14 5-9-8 1-6-8
Scale = 1:86.8
7.00 12
10-11-5
0-4-10
4-4-15
3-0-0
2-0-0
1-0-0
15-8-8
19-8-8
5x8 3x6 3x6 5x6 4x8 3x6 5x6 3x6 4x8 5x12 3x8 4x8 3x6 3x6 4x6 3x6 3x6 6x8 3x4 3x10 3x6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 36 37 38 39 40 41 42 43 44 45 46 47

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-6-0,0-2-4], [10:0-3-0,0-2-5], [22:0-1-8,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.22	24-26	>862	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.24	24-26	>794	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 368 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-24: 2x6 SP No.2, 10-16,27-28,30-31: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
12-14: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-9 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 5-10-4 oc bracing. Except: 10-0-0 oc bracing: 16-18
WEBS 1 Row at midpt 4-24, 6-22, 9-21, 11-15

REACTIONS. (size) 2=0-3-8, 14=0-3-0, 24=0-3-8
Max Horz 2=447(LC 11)
Max Uplift 2=-325(LC 12), 14=-595(LC 13), 24=-922(LC 9)
Max Grav 2=700(LC 25), 14=1431(LC 26), 24=2060(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-858/979, 3-4=-735/1004, 4-5=-354/430, 5-6=-513/478, 6-7=-1134/639, 7-9=-1134/639, 9-10=-1470/709, 10-11=-1621/722, 11-12=-1061/450, 12-14=-1343/607
BOT CHORD 2-26=-724/701, 24-26=-371/336, 23-24=-1502/604, 5-23=-1490/595, 21-22=-133/341, 19-21=-467/1469, 18-19=-388/1343, 10-18=-103/465
WEBS 3-26=-315/289, 4-26=-667/612, 4-24=-561/561, 5-22=-436/1165, 6-22=-899/454, 6-21=-428/1239, 7-21=-364/284, 9-21=-532/253, 10-19=-211/274, 15-18=-373/1001, 11-18=-252/626, 11-15=-936/441, 12-15=-350/1056

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 24-11-2, Interior(1) 24-11-2 to 37-1-2, Exterior(2R) 37-1-2 to 43-11-2, Interior(1) 43-11-2 to 49-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=325, 14=595, 24=922.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659407
3000644	T34D	PIGGYBACK BASE	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:05 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-fAxOlONeRMLXirOW9f1Q?B0?GDPrhLZUd9EPoqzrTsS

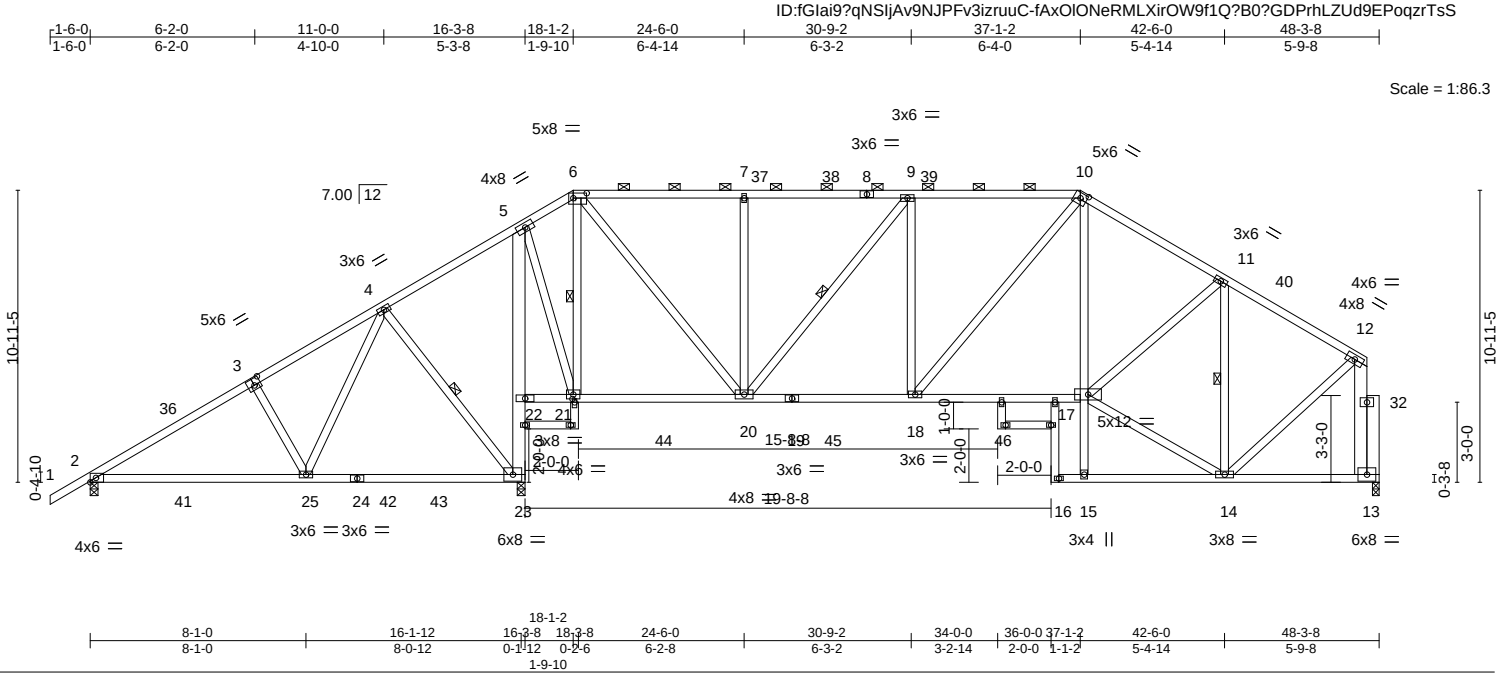


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-6-0,0-2-4], [10:0-3-0,0-2-5], [21:0-1-8,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.22	23-25	>868	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.24	23-25	>794	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 372 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 5-23: 2x6 SP No.2, 10-15,26-27,29-30: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 12-13: 2x6 SP No.2
OTHERS	2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-5-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-0 max.): 6-10.
BOT CHORD	Rigid ceiling directly applied or 5-10-11 oc bracing. Except: 10-0-0 oc bracing: 15-17
WEBS	1 Row at midpt 4-23, 6-21, 9-20, 11-14

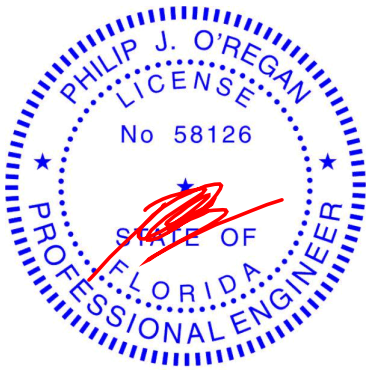
REACTIONS. (size) 2=0-3-8, 13=0-3-0, 23=0-3-8
Max Horz 2=440(LC 11)
Max Uplift 2=-313(LC 12), 13=-504(LC 13), 23=-935(LC 9)
Max Grav 2=701(LC 25), 13=1324(LC 26), 23=2046(LC 2)

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

TOP CHORD	2-3=-854/960, 3-4=-732/985, 4-5=-348/411, 5-6=-507/463, 6-7=-1122/624, 7-9=-1122/624, 9-10=-1446/693, 10-11=-1579/693, 11-12=-1011/395, 12-13=-1243/521
BOT CHORD	2-25=-729/701, 23-25=-375/336, 22-23=-1488/617, 5-22=-1476/608, 20-21=-138/340, 18-20=-477/1446, 17-18=-427/1308, 10-17=-97/433
WEBS	3-25=-315/289, 4-25=-668/612, 4-23=-561/562, 5-21=-447/1153, 6-21=-887/464, 6-20=-431/1221, 7-20=-364/284, 9-20=-515/263, 10-18=-207/291, 14-17=-393/959, 11-17=-261/622, 11-14=-934/472, 12-14=-356/993

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 24-11-2, Interior(1) 24-11-2 to 37-1-2, Exterior(2R) 37-1-2 to 43-11-2, Interior(1) 43-11-2 to 47-7-4 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=313, 13=504, 23=935.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659408
3000644	T35	Piggyback Base	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:07 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-bZ39A3Puz_bFx9YvG43u4c6Lm15K9Fon5TjWsizrTsQ

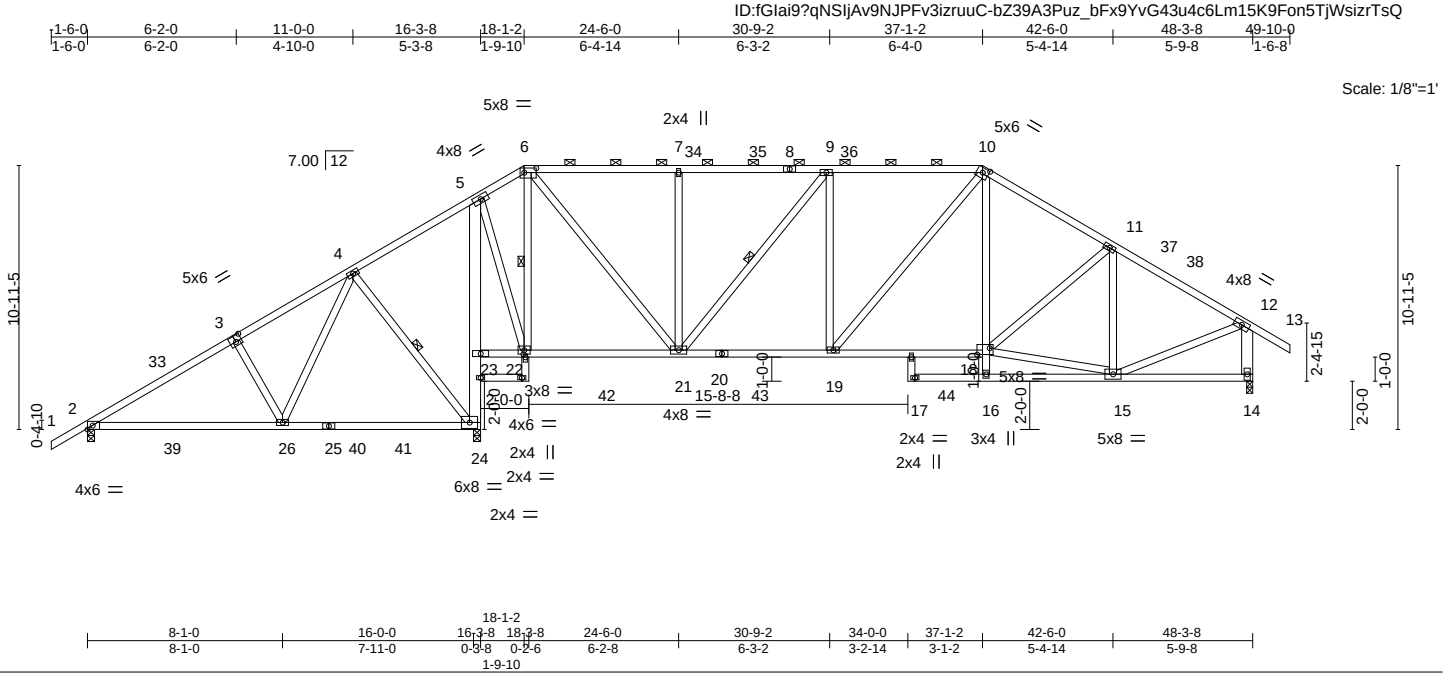


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-6-0,0-2-4], [10:0-3-0,0-2-5], [18:0-6-4,0-3-4], [22:0-1-8,0-1-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.22	24-26	>859	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	0.20	24-26	>976	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.03	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 351 lb	FT = 20%

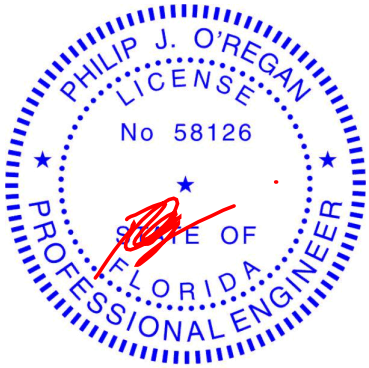
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-24: 2x6 SP No.2, 10-16,28-29: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
12-14: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-5 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 5-9-8 oc bracing. Except:
10-0-0 oc bracing: 16-18
WEBS 1 Row at midpt 4-24, 6-22, 9-21

REACTIONS. (size) 2=0-3-8, 14=0-3-0, 24=0-3-8
Max Horz 2=379(LC 9)
Max Uplift 2=-298(LC 12), 14=-597(LC 13), 24=-884(LC 9)
Max Grav 2=700(LC 25), 14=1480(LC 26), 24=2093(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-833/894, 3-4=-725/919, 4-5=-277/344, 5-6=-481/413, 6-7=-1171/608, 7-9=-1171/608, 9-10=-1532/712, 10-11=-1740/713, 11-12=-1461/578, 12-14=-1388/609
BOT CHORD 2-26=-721/699, 24-26=-369/334, 23-24=-1535/567, 5-23=-1523/557, 21-22=-121/350, 19-21=-430/1532, 18-19=-347/1445, 16-18=0/301, 10-18=-86/580
WEBS 3-26=-315/289, 4-26=-666/612, 4-24=-560/561, 5-22=-404/1193, 6-22=-926/423, 6-21=-440/1282, 7-21=-364/284, 9-21=-574/236, 9-19=-68/280, 11-15=-571/263, 12-15=-385/1255, 15-18=-383/1340, 11-18=-181/340

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 24-11-2, Interior(1) 24-11-2 to 37-1-2, Exterior(2R) 37-1-2 to 43-11-2, Interior(1) 43-11-2 to 49-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=298, 14=597, 24=884.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T35D	PIGGYBACK BASE	2	1	T26659409
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:09 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-XyBvblQ8VbrzBTiIOV6MA1BhGqnod9E4YnCdxbzrTsO

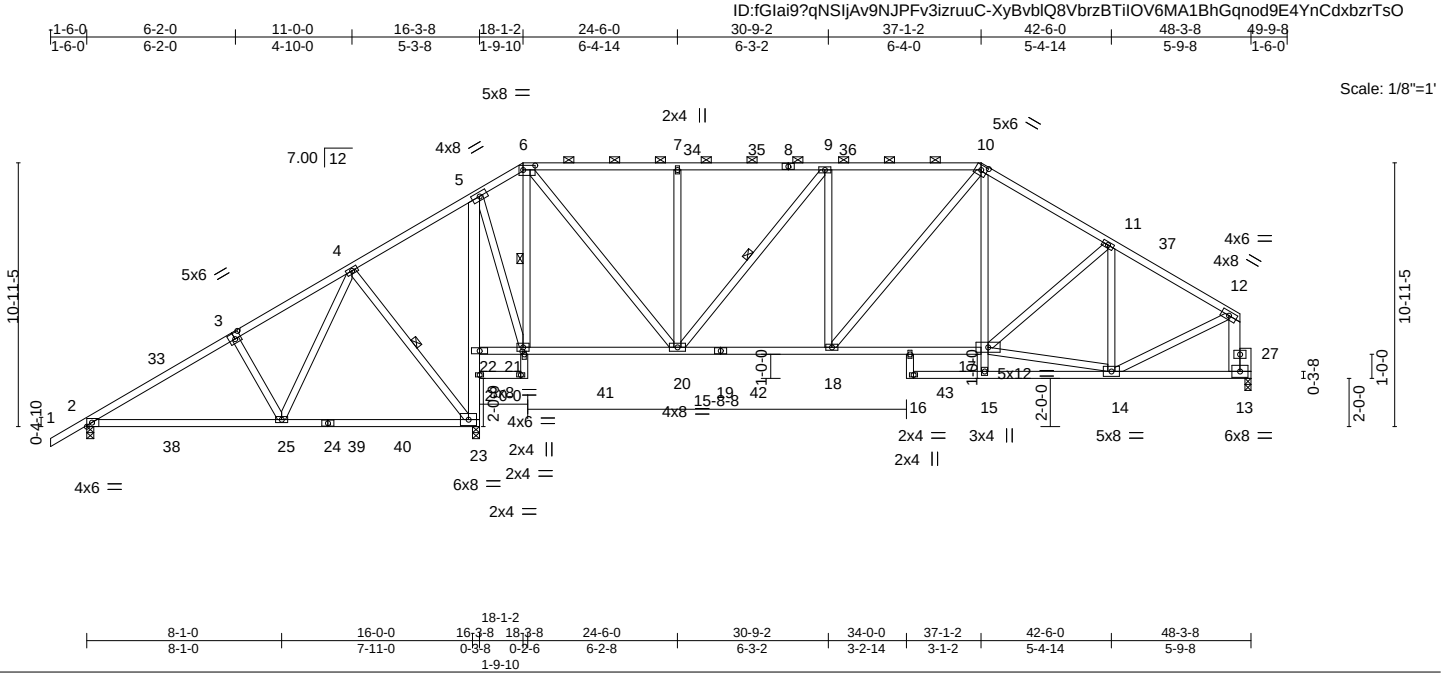


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-6-0,0-2-4], [10:0-3-0,0-2-5], [21:0-1-8,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.22	23-25	>865	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	0.20	23-25	>984	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 350 lb	FT = 20%

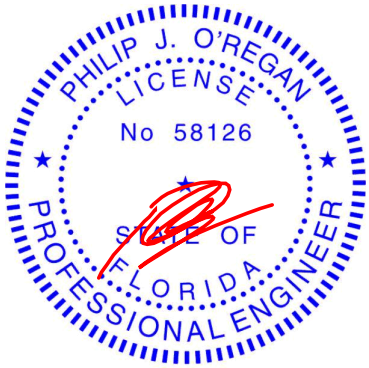
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-23: 2x6 SP No.2, 10-15,28-29: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
12-13: 2x6 SP No.2
OTHERS 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-9 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 5-9-13 oc bracing. Except:
10-0-0 oc bracing: 15-17
WEBS 1 Row at midpt 4-23, 6-21, 9-20

REACTIONS. (size) 2=0-3-8, 23=0-3-8, 13=0-3-0
Max Horz 2=397(LC 9)
Max Uplift 2=-285(LC 12), 23=-897(LC 9), 13=-506(LC 13)
Max Grav 2=701(LC 25), 23=2083(LC 2), 13=1383(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-835/875, 3-4=-727/900, 4-5=-270/325, 5-6=-478/399, 6-7=-1164/593, 7-9=-1164/593, 9-10=-1519/679, 10-11=-1696/677, 11-12=-1407/529, 12-13=-1301/526
BOT CHORD 2-25=-727/700, 23-25=-373/335, 22-23=-1525/579, 5-22=-1514/570, 20-21=-126/350, 18-20=-440/1518, 17-18=-379/1406, 15-17=0/301, 10-17=-71/538
WEBS 3-25=-315/290, 4-25=-667/612, 4-23=-560/561, 5-21=-414/1185, 6-21=-918/433, 6-20=-442/1271, 7-20=-364/284, 9-20=-563/246, 9-18=-74/273, 10-18=-230/271, 14-17=-399/1303, 11-17=-183/345, 11-14=-578/280, 12-14=-373/1132

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 24-11-2, Interior(1) 24-11-2 to 37-1-2, Exterior(2R) 37-1-2 to 43-11-2, Interior(1) 43-11-2 to 47-7-4 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=285, 23=897, 13=506.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

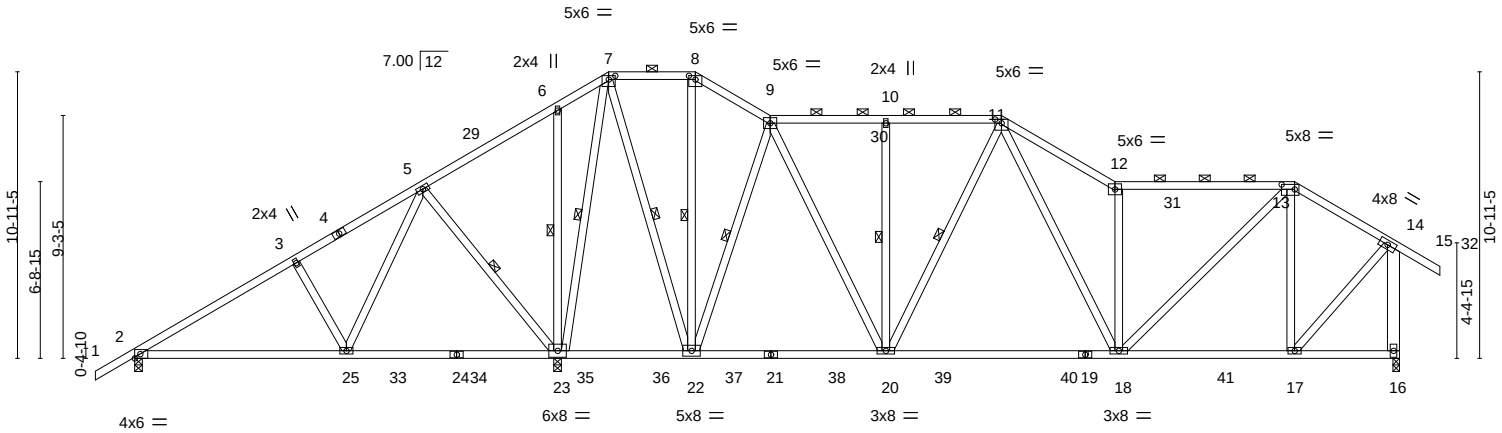
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T36	Piggyback Base	1	1	T26659410
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:10 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-?8lHo5RmGvzqocHUxCdbiEknxE38MZ9DnRyAT1zrTsN

1-6-0	6-2-0	11-0-0	16-1-12	18-1-2	21-4-14	24-3-2	28-8-2	33-1-2	37-5-2	44-3-7	48-3-8	49-10-0
1-6-0	6-2-0	4-10-0	5-1-12	1-11-6	3-3-11	2-10-5	4-5-0	4-5-0	4-4-0	6-10-5	4-0-1	1-6-8

Scale = 1:88.0



8-1-0	16-1-12	21-4-14	28-8-2	37-5-2	44-3-7	48-3-8
8-1-0	8-0-12	5-3-2	7-3-4	8-9-0	6-10-5	4-0-1

Plate Offsets (X,Y)-- [7:0-3-0,0-1-12], [8:0-3-0,0-1-12], [11:0-3-0,0-1-12], [13:0-6-0,0-2-4]

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	0.75	Vert(LL)	0.21	25-28	>925	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.40	18-20	>948	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.02	16	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 364 lb	FT = 20%

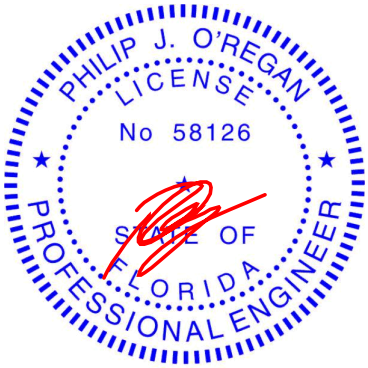
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
14-16: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-1 max.): 7-8, 9-11, 12-13.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-23, 6-23, 7-23, 7-22, 8-22, 9-22, 10-20, 11-20

REACTIONS. (size) 2=0-3-8, 23=0-3-8, 16=0-3-0
Max Horz 2=447(LC 11)
Max Uplift 2=-180(LC 12), 23=-867(LC 9), 16=-549(LC 13)
Max Grav 2=497(LC 23), 23=2526(LC 2), 16=1293(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-447/517, 3-5=-316/544, 5-6=-357/682, 6-7=-209/578, 7-8=-294/223, 8-9=-324/217, 9-10=-907/468, 10-11=-907/468, 11-12=-1589/768, 12-13=-1304/573, 13-14=-797/345, 14-16=-1242/557
BOT CHORD 2-25=-493/344, 23-25=-330/254, 22-23=-323/474, 20-22=-156/554, 18-20=-327/967, 17-18=-259/643
WEBS 3-25=-321/290, 5-25=-846/609, 5-23=-560/681, 6-23=-297/262, 7-23=-1643/591, 7-22=-527/1318, 9-22=-1051/580, 9-20=-331/825, 10-20=-266/228, 11-18=-396/808, 12-18=-1028/627, 13-18=-320/918, 13-17=-511/280, 14-17=-339/961

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2E) 18-1-2 to 24-3-2, Interior(1) 24-3-2 to 33-1-2, Exterior(2E) 33-1-2 to 37-5-2, Interior(1) 37-5-2 to 44-3-7, Exterior(2R) 44-3-7 to 49-1-6, Interior(1) 49-1-6 to 49-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=180, 23=867, 16=549.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

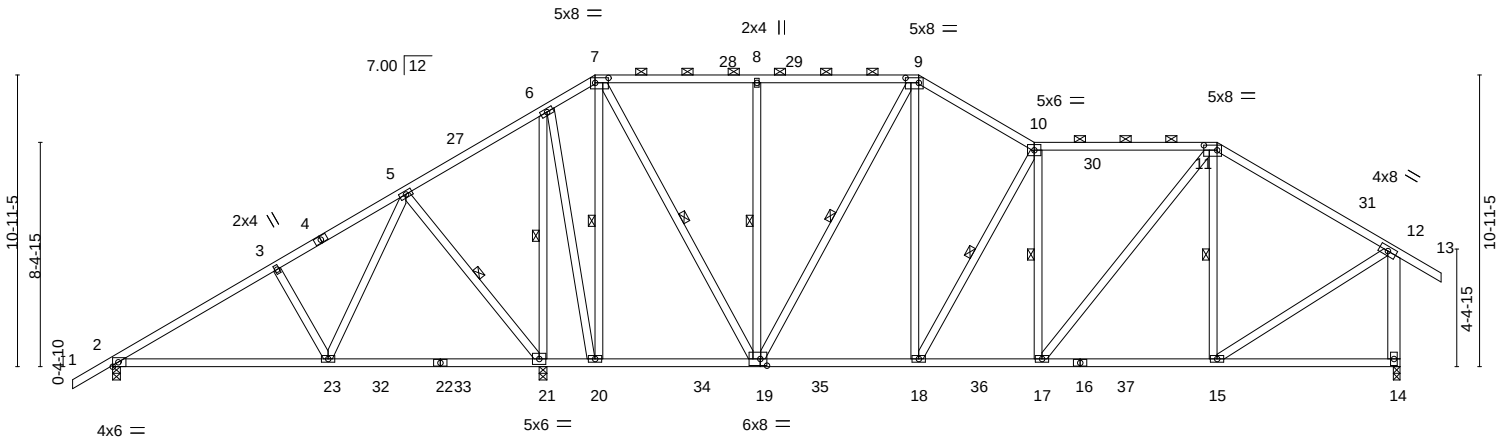
Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T37	ROOF SPECIAL	1	1	T26659411
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jan 27 14:18:01 2022 Page 1

ID:fGIai9?qNSIjAv9NJPFv3izruuC-ya3M?P9i_gjgVASf_d7ByqN6hDNFLKYMuyuQHvzrJ7K

1-6-0	6-2-0	11-0-0	16-1-12	18-1-2	24-2-0	30-2-14	34-6-13	41-5-2	48-3-8	49-10-0
1-6-0	6-2-0	4-10-0	5-1-12	1-11-6	6-0-14	6-0-14	4-4-0	6-10-5	6-10-6	1-6-8

Scale = 1:86.4



8-1-0	16-1-12	18-1-2	24-2-0	30-2-14	34-6-13	41-5-2	48-3-8
8-1-0	8-0-12	1-11-6	6-0-14	6-0-14	4-4-0	6-10-5	6-10-6

Plate Offsets (X,Y)-- [7:0-6-0,0-2-4], [9:0-6-0,0-2-4], [11:0-6-0,0-2-4], [19:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.12	21-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.18	21-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 366 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 12-14: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-3-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-2 max.): 7-9, 10-11.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21 9-7-3 oc bracing: 17-18.
WEBS	1 Row at midpt 5-21, 6-21, 7-20, 7-19, 8-19, 9-19, 10-18, 10-17, 11-15

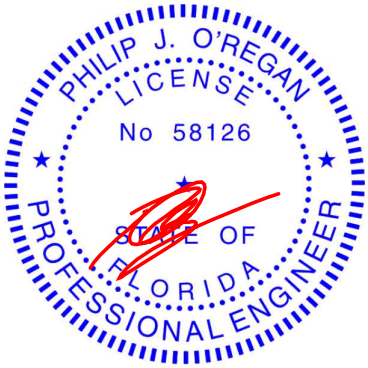
REACTIONS. (lb/size) 2=606/0-3-8, 21=1887/0-3-8, 14=1241/0-3-0
Max Horz 2=447(LC 11)
Max Uplift 2=-231(LC 12), 21=-702(LC 12), 14=-533(LC 13)
Max Grav 2=657(LC 19), 21=2176(LC 2), 14=1398(LC 26)

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

TOP CHORD	2-3=-730/224, 3-4=-621/232, 4-5=-523/250, 5-27=-102/271, 6-27=-90/336, 6-7=-275/279, 7-28=-751/442, 8-28=-751/442, 8-29=-747/439, 9-29=-747/439, 9-10=-1176/544, 10-30=-1283/565, 11-30=-1283/565, 11-31=-1040/457, 12-31=-1119/431, 12-14=-1295/549
BOT CHORD	2-23=-317/776, 23-32=-210/334, 22-32=-210/334, 22-33=-210/334, 21-33=-210/334, 20-21=-270/288, 19-35=-306/982, 18-35=-306/982, 18-36=-380/1287, 17-36=-380/1287, 16-17=-273/893, 16-37=-273/893, 15-37=-273/893
WEBS	3-23=-329/289, 5-23=-236/691, 5-21=-664/398, 6-21=-1496/596, 6-20=-327/1174, 7-20=-1060/346, 7-19=-418/1183, 8-19=-384/306, 9-19=-510/247, 9-18=-314/784, 10-18=-654/392, 10-17=-304/185, 11-17=-197/613, 11-15=-313/177, 12-15=-250/1010

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 22-11-2, Interior(1) 22-11-2 to 30-2-14, Exterior(2E) 30-2-14 to 34-6-13, Interior(1) 34-6-13 to 41-5-2, Exterior(2R) 41-5-2 to 46-3-1, Interior(1) 46-3-1 to 49-10-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 2, 702 lb uplift at joint 21 and 533 lb uplift at joint 14.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T38	Piggyback Base	1	1	T26659412
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:13 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-QjQQQ7UfZqLPg4?3dKAIKtMMaS8kZxYfTPAq4MzrTsK

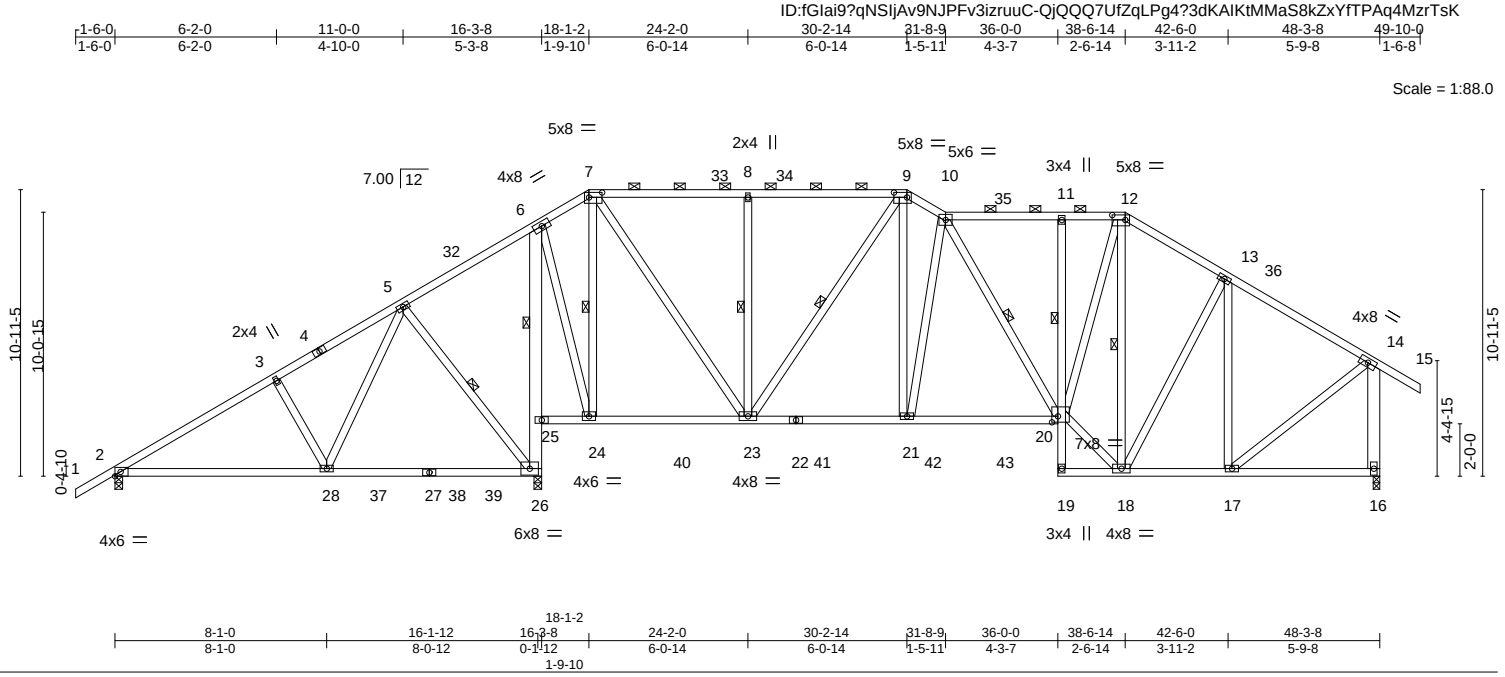


Plate Offsets (X,Y)-- [7:0-6-0,0-2-4], [9:0-6-0,0-2-4], [12:0-6-0,0-2-4], [20:0-2-12,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	0.21	26-28	>930	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.24	26-28	>788	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.05	16	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 395 lb	FT = 20%

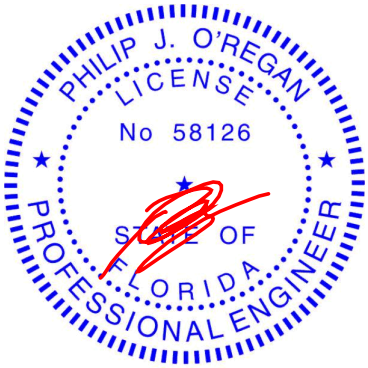
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-26: 2x6 SP No.2, 11-19: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
14-16: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-9 max.): 7-9, 10-12.
BOT CHORD Rigid ceiling directly applied or 5-6-10 oc bracing. Except:
1 Row at midpt 6-25, 11-20
WEBS 1 Row at midpt 5-26, 7-24, 8-23, 9-23, 10-20, 12-18

REACTIONS. (size) 2=0-3-8, 16=0-3-0, 26=0-3-8
Max Horz 2=447(LC 11)
Max Uplift 2=-308(LC 12), 16=-567(LC 13), 26=-911(LC 9)
Max Grav 2=685(LC 25), 16=1375(LC 26), 26=2081(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-808/1097, 3-5=-696/1125, 5-6=-328/382, 6-7=-473/476, 7-8=-937/617, 8-9=-937/617, 9-10=-1415/744, 10-11=-1269/655, 11-12=-1261/653, 12-13=-1093/613, 13-14=-1009/493, 14-16=-1283/579
BOT CHORD 2-28=-871/670, 26-28=-397/304, 25-26=-1524/594, 6-25=-1488/582, 23-24=-109/262, 21-23=-377/1229, 20-21=-421/1351, 17-18=-303/816
WEBS 3-28=-316/290, 5-28=-847/616, 5-26=-561/674, 6-24=-420/1166, 7-24=-947/445, 7-23=-412/1182, 8-23=-378/298, 9-23=-513/219, 9-21=-410/942, 10-21=-658/456, 18-20=-340/1168, 12-20=-441/1270, 12-18=-796/348, 14-17=-315/994, 13-17=-435/229

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-15, Interior(1) 3-3-15 to 18-1-2, Exterior(2R) 18-1-2 to 22-11-2, Interior(1) 22-11-2 to 30-2-14, Exterior(2E) 30-2-14 to 31-8-9, Interior(1) 31-8-9 to 38-6-14, Exterior(2R) 38-6-14 to 43-4-13, Interior(1) 43-4-13 to 49-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=308, 16=567, 26=911.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

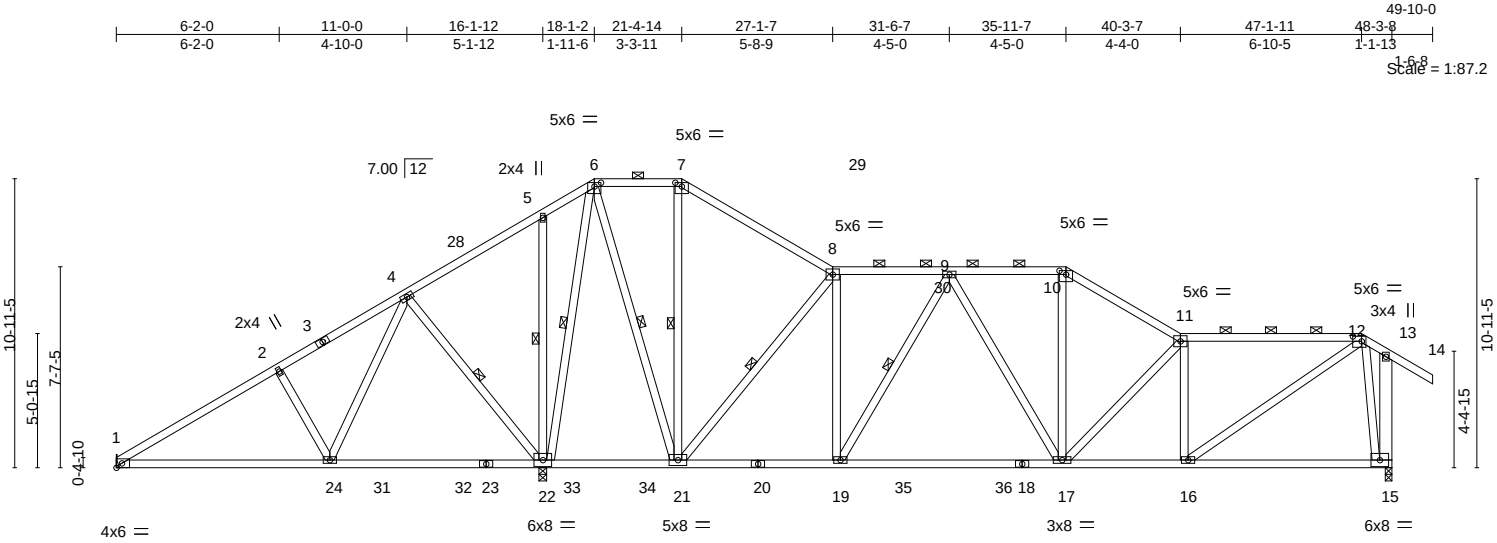


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659413
3000644	T39	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:15 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-M5YAroVv5Rb6vO9RkIDmPIRe7FoX1pxywjfx8EzrTsI



8-1-0	16-1-12	21-4-14	27-1-7	35-11-7	40-3-7	47-1-11	48-3-8
8-1-0	8-0-12	5-3-2	5-8-9	8-10-0	4-4-0	6-10-5	1-1-13

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

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	0.73	Vert(LL)	0.22	24-27	>879	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.40	17-19	>956	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03	15	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 345 lb	FT = 20%

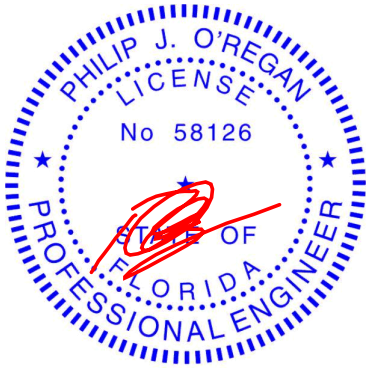
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
13-15: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-15 max.): 6-7, 8-10, 11-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-22, 5-22, 6-22, 6-21, 7-21, 8-21, 9-19

REACTIONS. (size) 1=Mechanical, 22=0-3-8, 15=0-3-0
Max Horz 1=428(LC 11)
Max Uplift 1=-118(LC 12), 22=-824(LC 13), 15=-539(LC 13)
Max Grav 1=388(LC 23), 22=2597(LC 2), 15=1214(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-410/519, 2-4=-279/547, 4-5=-368/785, 5-6=-219/698, 8-9=-893/404, 9-10=-1113/545, 10-11=-1330/568, 11-12=-1352/565, 13-15=-267/120
BOT CHORD 1-24=-492/315, 22-24=-423/269, 21-22=-394/478, 19-21=-273/880, 17-19=-401/1062, 16-17=-576/1371
WEBS 2-24=-331/298, 4-24=-855/620, 4-22=-563/684, 5-22=-301/266, 6-22=-1692/585, 6-21=-562/1326, 8-21=-1206/583, 8-19=-182/666, 9-19=-378/251, 10-17=-108/468, 11-17=-392/236, 11-16=-611/352, 12-16=-538/1394, 12-15=-995/539

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-15, Interior(1) 4-9-15 to 18-1-2, Exterior(2E) 18-1-2 to 21-4-14, Exterior(2R) 21-4-14 to 26-2-13, Interior(1) 26-2-13 to 35-11-7, Exterior(2E) 35-11-7 to 40-3-7, Interior(1) 40-3-7 to 47-1-11, Exterior(2E) 47-1-11 to 49-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=118, 22=824, 15=539.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

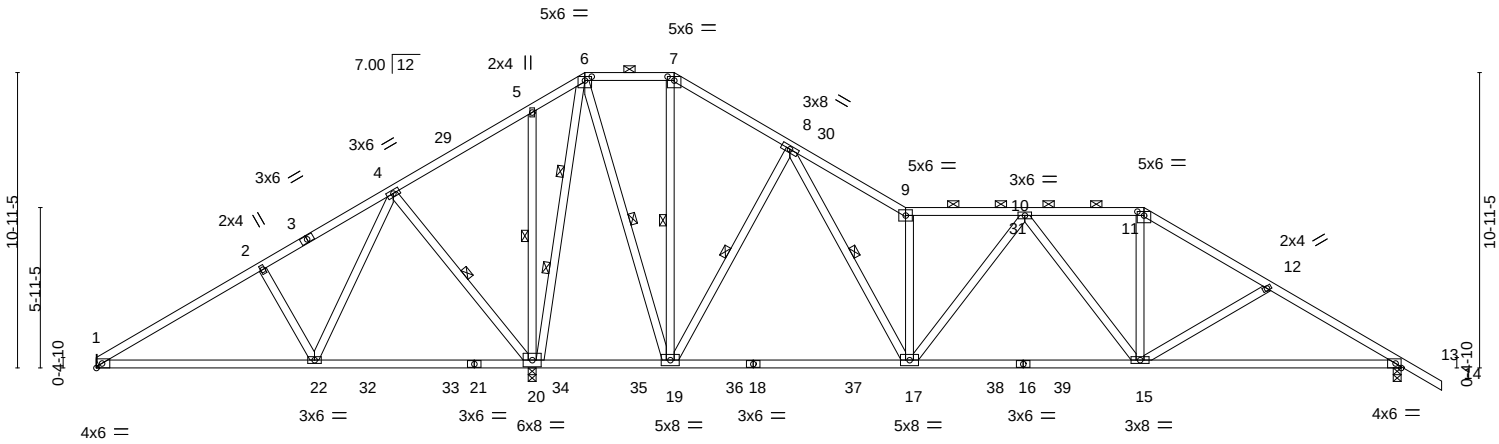
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T40	Piggyback Base	1	1	T26659414
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:16 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-qI6Z38WXsljzXXkeITk?yV_uHf7?mI469NPVhhzrTsH

6-2-0	11-0-0	16-1-12	18-1-2	21-4-14	25-8-5	29-11-12	34-4-11	38-9-11	43-4-5	48-4-0	49-10-0
6-2-0	4-10-0	5-1-12	1-11-6	3-3-11	4-3-7	4-3-7	4-5-0	4-5-0	4-6-10	4-11-11	1-6-0

Scale = 1:85.3



8-1-0	16-1-12	21-4-14	29-11-12	38-9-11	48-4-0
8-1-0	8-0-12	5-3-2	8-6-14	8-10-0	9-6-5

Plate Offsets (X,Y)-- [6:0-3-0,0-1-12], [7:0-3-0,0-1-12], [11:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.22	22-25	>881	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.44	17-19	>879	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 315 lb	FT = 20%

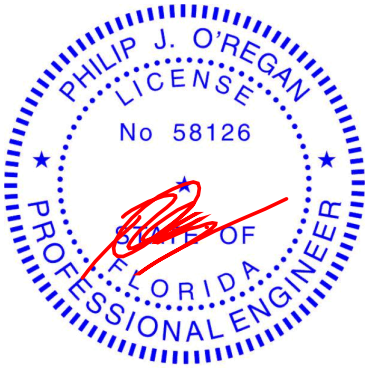
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-9 oc purlins, except 2-0-0 oc purlins (5-2-6 max.): 6-7, 9-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-20, 5-20, 6-19, 7-19, 8-19, 8-17
2 Rows at 1/3 pts 6-20

REACTIONS. (size) 1=Mechanical, 20=0-3-8, 13=0-3-8
Max Horz 1=-362(LC 8)
Max Uplift 1=-133(LC 9), 20=-853(LC 13), 13=-518(LC 13)
Max Grav 1=338(LC 23), 20=2804(LC 2), 13=1163(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-315/451, 2-4=-183/483, 4-5=-350/1025, 5-6=-201/957, 8-9=-1427/736, 9-10=-1181/562, 10-11=-1238/629, 11-12=-1481/660, 12-13=-1699/779
BOT CHORD 1-22=-423/421, 20-22=-632/534, 19-20=-519/553, 17-19=0/456, 15-17=-352/1293, 13-15=-551/1455
WEBS 2-22=-333/298, 4-22=-854/631, 4-20=-568/684, 5-20=-301/264, 6-20=-1942/614, 6-19=-562/1432, 8-19=-1012/623, 8-17=-698/1559, 9-17=-852/521, 10-17=-255/198, 11-15=-153/549, 12-15=-370/288

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-10-0, Interior(1) 4-10-0 to 18-1-2, Exterior(2E) 18-1-2 to 21-4-14, Exterior(2R) 21-4-14 to 26-2-14, Interior(1) 26-2-14 to 38-9-11, Exterior(2R) 38-9-11 to 43-6-1, Interior(1) 43-6-1 to 49-10-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) 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 (jt=lb) 1=133, 20=853, 13=518.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

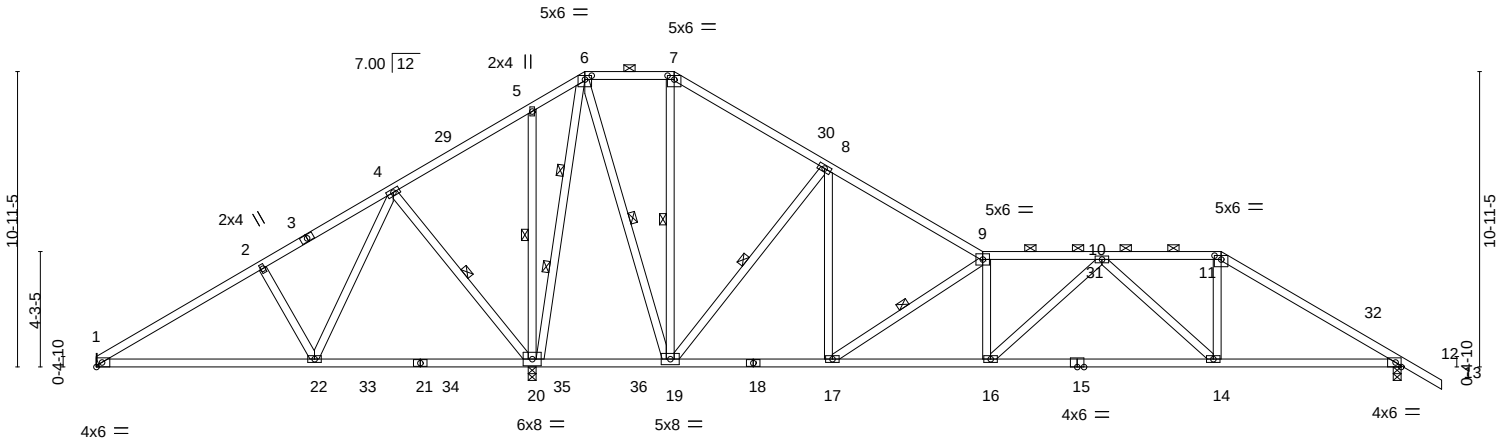
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T41	Piggyback Base	1	1	T26659415
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:18 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-mgEJUqXnNMzhmru0PumT1w3ByTpmECPOdhublZzrTsF

6-2-0	11-0-0	16-1-12	18-1-2	21-4-14	27-1-7	32-10-0	37-3-0	41-8-0	48-4-0	49-10-0
6-2-0	4-10-0	5-1-12	1-11-6	3-3-11	5-8-9	5-8-9	4-5-0	4-5-0	6-8-0	1-6-0

Scale = 1:85.3



8-1-0	16-1-12	21-4-14	27-1-7	32-10-0	41-8-0	48-4-0
8-1-0	8-0-12	5-3-2	5-8-9	5-8-9	8-10-0	6-8-0

Plate Offsets (X,Y)-- [6:0-3-0,0-1-12], [7:0-3-0,0-1-12], [11:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	0.22	22-25	>880	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.36	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 305 lb	FT = 20%

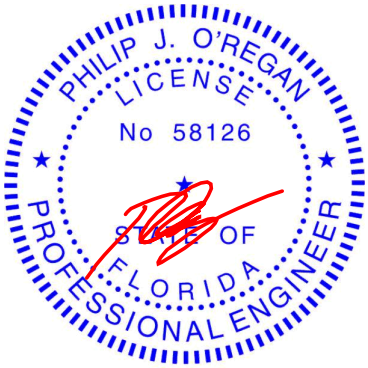
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins, except
2-0-0 oc purlins (4-5-14 max.): 6-7, 9-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-20, 5-20, 6-19, 7-19, 8-19, 9-17
2 Rows at 1/3 pts 6-20

REACTIONS. (size) 1=Mechanical, 20=0-3-8, 12=0-3-8
Max Horz 1=-362(LC 8)
Max Uplift 1=-189(LC 24), 20=-874(LC 13), 12=-511(LC 13)
Max Grav 1=306(LC 23), 20=2861(LC 2), 12=1087(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-251/582, 2-4=-128/614, 4-5=-358/1141, 5-6=-208/1072, 6-7=-88/260, 7-8=-110/307, 8-9=-743/382, 9-10=-1631/778, 10-11=-1343/678, 11-12=-1605/691
BOT CHORD 1-22=-497/444, 20-22=-727/559, 19-20=-603/559, 17-19=-11/561, 16-17=-542/1624, 14-16=-588/1593, 12-14=-437/1324
WEBS 2-22=-335/298, 4-22=-855/628, 4-20=-565/684, 5-20=-302/265, 6-20=-1967/636, 6-19=-582/1405, 7-19=-333/163, 8-19=-1150/644, 8-17=-340/972, 9-17=-1295/647, 9-16=-96/255, 10-14=-367/200, 11-14=-116/541

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-10-0, Interior(1) 4-10-0 to 18-1-2, Exterior(2E) 18-1-2 to 21-4-14, Exterior(2R) 21-4-14 to 26-2-14, Interior(1) 26-2-14 to 41-8-0, Exterior(2R) 41-8-0 to 46-6-0, Interior(1) 46-6-0 to 49-10-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=189, 20=874, 12=511.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

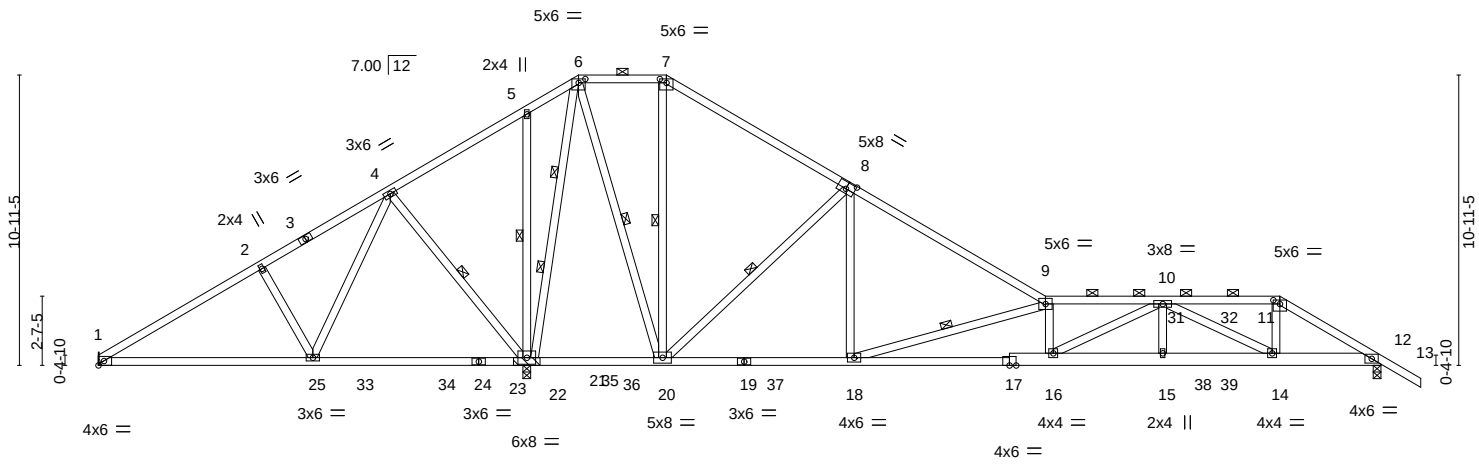
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T42	Piggyback Base Girder	1	1	T26659416
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:19 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-EtohhAYQ8g5YO?TDzbHia8cIvs7CzdrYrLd9H0zrTsE

6-2-0	11-0-0	16-1-12	18-1-2	21-4-14	28-4-0	35-8-5	40-1-5	44-6-4	48-4-0	49-10-0
6-2-0	4-10-0	5-1-12	1-11-6	3-3-11	6-11-2	7-4-5	4-5-0	4-5-0	3-9-12	1-6-0

Scale = 1:86.8



8-1-0	16-1-12	21-4-14	28-4-0	35-8-5	40-1-5	44-6-4	48-4-0
8-1-0	8-0-12	5-3-2	6-11-2	7-4-5	4-5-0	4-5-0	3-9-12

Plate Offsets (X,Y)-- [6:0-3-0,0-1-12], [7:0-3-0,0-1-12], [8:0-4-0,0-3-0], [11:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	0.26	16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.40	16-18	>958	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	-0.03	22	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 313 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 12-17: 2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 6-22: 2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-1-4 oc purlins, except 2-0-0 oc purlins (3-7-11 max.): 6-7, 9-11.
BOT CHORD	Rigid ceiling directly applied or 4-8-9 oc bracing.
WEBS	1 Row at midpt 4-22, 5-22, 6-20, 7-20, 8-20, 9-18 2 Rows at 1/3 pts 6-22

REACTIONS. (size) 1=Mechanical, 22=(0-3-8 + bearing block) (req. 0-4-1), 12=0-3-8
Max Horz 1=-362(LC 4)
Max Uplift 1=-544(LC 20), 22=-1284(LC 9), 12=-712(LC 9)
Max Grav 1=272(LC 9), 22=3433(LC 2), 12=1253(LC 34)

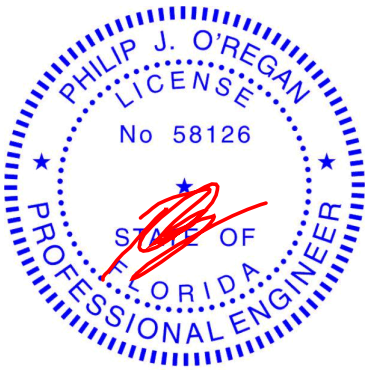
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-598/1273, 2-4=-570/1305, 4-5=-663/1820, 5-6=-566/1749, 6-7=-215/629, 7-8=-258/762, 8-9=-624/304, 9-10=-2514/1256, 10-11=-1776/1076, 11-12=-2021/1174
BOT CHORD	1-25=-1184/825, 22-25=-1425/945, 20-22=-1167/872, 18-20=-11/407, 16-18=-1100/2465, 15-16=-1362/2541, 14-15=-1362/2541, 12-14=-902/1688
WEBS	2-25=-343/303, 4-25=-354/641, 4-22=-567/403, 5-22=-307/270, 6-22=-2559/1045, 6-20=-777/1753, 7-20=-595/267, 8-20=-1342/748, 8-18=-337/974, 9-18=-2239/1258, 9-16=-241/347, 10-16=-489/747, 10-15=-92/292, 10-14=-975/494, 11-14=-329/769

NOTES-

1) 2x4 SP No.2 bearing block 12" long at jt. 22 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=544, 22=1284, 12=712.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 102 lb down and 93 lb up at 40-5-8, and 102 lb down and 93 lb up at 42-5-8, and 150 lb down and 191 lb up at 44-6-4 on top chord, and 92 lb down and 67 lb up at 40-5-8, and 92 lb down and 67 lb up at 42-5-8, and 135 lb down and 83 lb up at 44-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-54, 6-7=-54, 7-9=-54, 9-11=-54, 11-13=-54, 12-26=-20
   Concentrated Loads (lb)
   Vert: 11=-42(B) 14=-101(B) 31=-35(B) 32=-35(B) 38=-87(B) 39=-87(B)

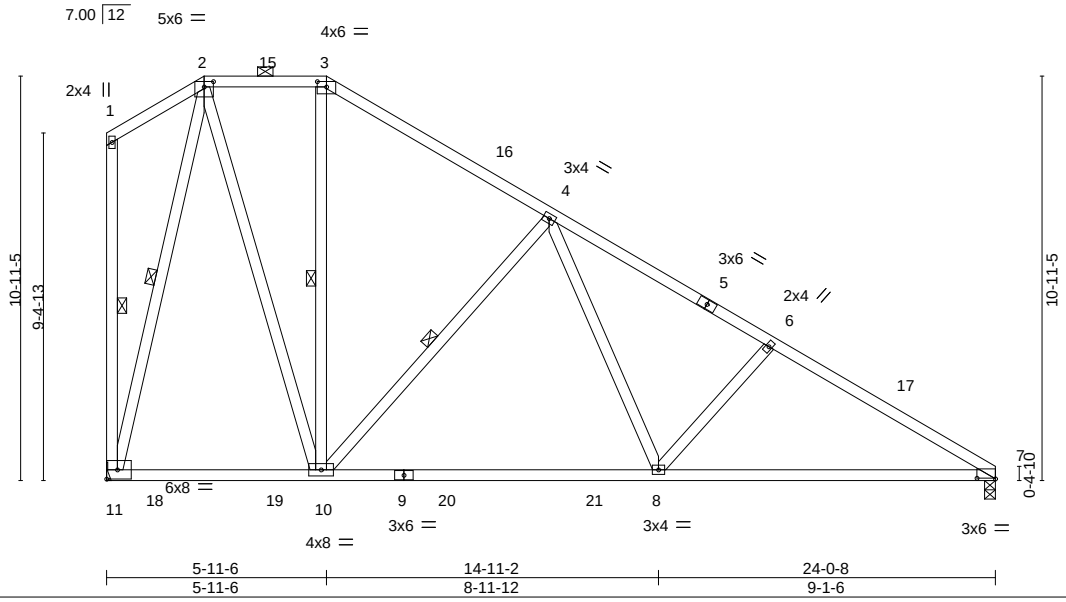
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T43	Piggyback Base	1	1	T26659417
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:20 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-i3L3uWZ2vzDP?91PXIox6L8Z9GTGi4bh4?NiqSzrTsD

2-7-10	5-11-6	11-11-10	17-10-15	24-0-8
2-7-10	3-3-11	6-0-4	5-11-5	6-1-9

Scale = 1:62.3



5-11-6	14-11-2	24-0-8
5-11-6	8-11-12	9-1-6

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.23	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.36	8-10	>805	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 169 lb	FT = 20%

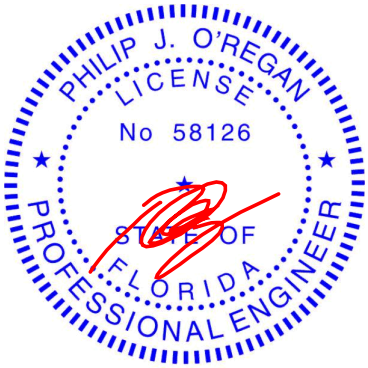
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 11=Mechanical, 7=0-3-8
Max Horz 11=-494(LC 13)
Max Uplift 11=-454(LC 13), 7=-324(LC 13)
Max Grav 11=1053(LC 20), 7=1075(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-465/258, 3-4=-589/221, 4-6=-1441/454, 6-7=-1619/486
BOT CHORD 10-11=-117/409, 8-10=-32/850, 7-8=-323/1350
WEBS 2-10=-406/917, 4-10=-792/473, 4-8=-215/718, 6-8=-361/320, 2-11=-949/437

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 5-11-6, Exterior(2R) 5-11-6 to 10-2-4, Interior(1) 10-2-4 to 24-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) 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 (jt=lb) 11=454, 7=324.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659418
3000644	T44	Piggyback Base	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:21 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-BFvS6saggHMGdJcb50JAfZhlygpXRXvrJf6GMuzrTsC

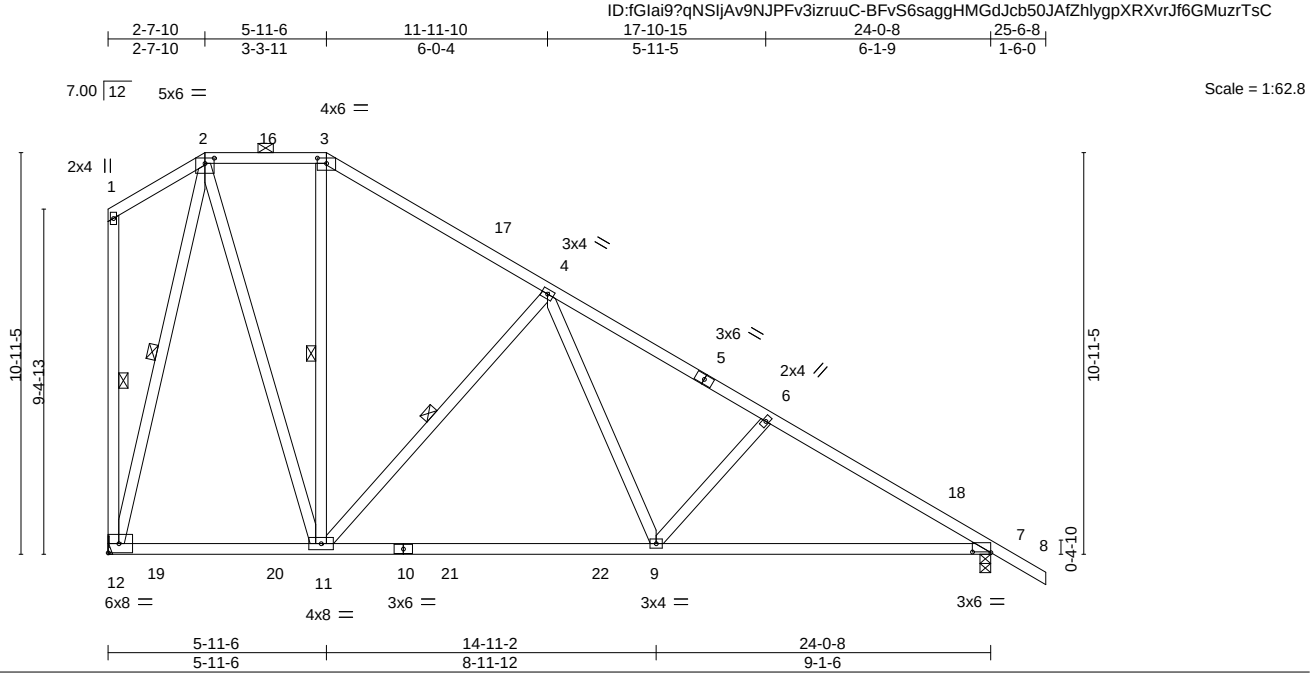


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-3-0,0-1-12], [7:0-6-0,0-0-3]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.23	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.36	9-11	>800	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 171 lb	FT = 20%

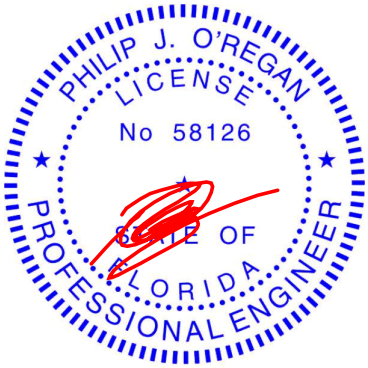
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-11, 4-11, 1-12, 2-12

REACTIONS. (size) 12=Mechanical, 7=0-3-8
Max Horz 12=-532(LC 13)
Max Uplift 12=-452(LC 13), 7=-379(LC 13)
Max Grav 12=1051(LC 20), 7=1157(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-464/257, 3-4=-588/220, 4-6=-1432/444, 6-7=-1608/475
BOT CHORD 11-12=-127/438, 9-11=0/848, 7-9=-273/1330
WEBS 2-11=-403/915, 4-11=-789/468, 4-9=-205/709, 6-9=-353/312, 2-12=-947/435

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 5-11-6, Exterior(2R) 5-11-6 to 10-2-4, Interior(1) 10-2-4 to 25-6-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) 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 (jt=lb) 12=452, 7=379.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T45	Piggyback Base	2	1	T26659419
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:22 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-fSTqJCbIRbU7FSBnejrPBmEvg4AqA?S_XJspuKzrTsB

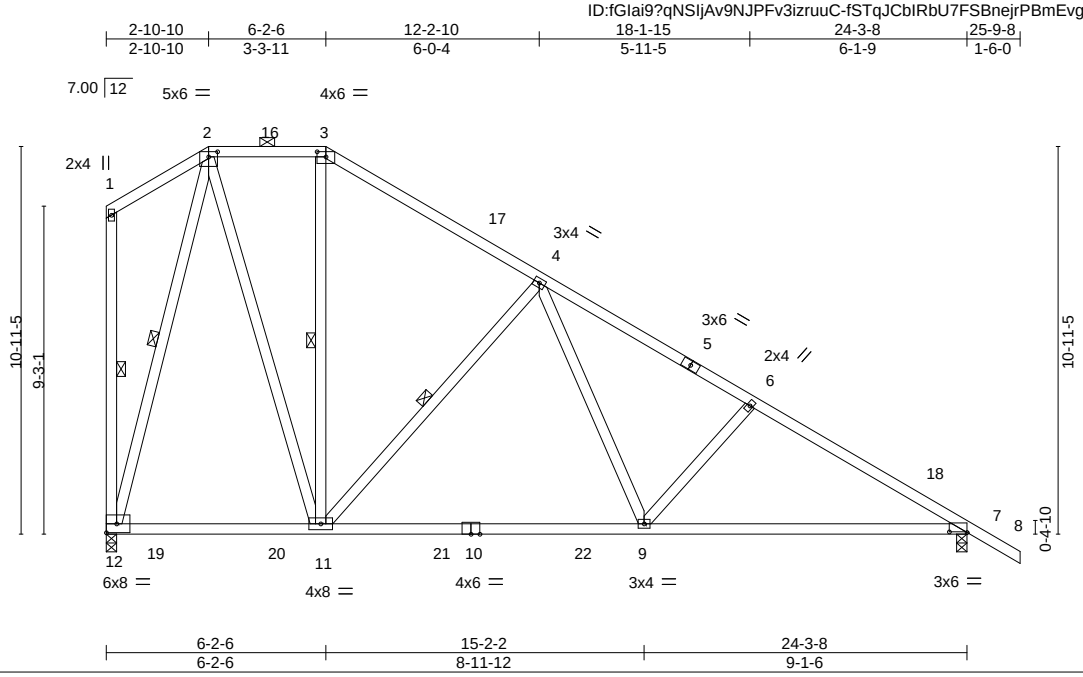


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-3-0,0-1-12], [7:0-6-0,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.22	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.35	9-11	>820	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 172 lb	FT = 20%

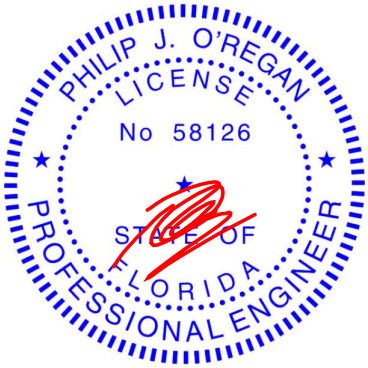
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-11, 4-11, 1-12, 2-12

REACTIONS. (size) 12=0-3-8, 7=0-3-8
Max Horz 12=-528(LC 13)
Max Uplift 12=-449(LC 13), 7=-385(LC 13)
Max Grav 12=1059(LC 20), 7=1166(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-482/268, 3-4=-609/233, 4-6=-1450/456, 6-7=-1626/487
BOT CHORD 11-12=-120/451, 9-11=-8/865, 7-9=-283/1346
WEBS 2-11=-396/908, 4-11=-787/468, 4-9=-205/705, 6-9=-353/312, 2-12=-951/433

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 6-2-6, Exterior(2R) 6-2-6 to 10-5-4, Interior(1) 10-5-4 to 25-9-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=449, 7=385.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

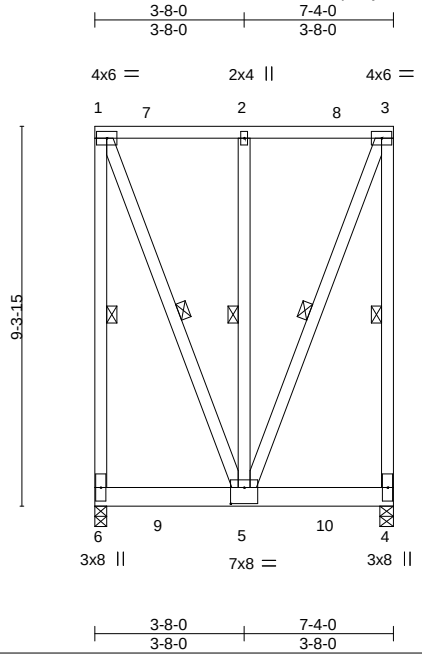


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T46	Flat Girder	1	1	T26659420
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:23 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-7e1CXXbwCuc_scm_CRMek_m1NUXavZz8mzbMQnzrTsA



Scale = 1:56.6

Plate Offsets (X,Y)-- [5:0-4-0,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.06	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 94 lb	FT = 20%

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

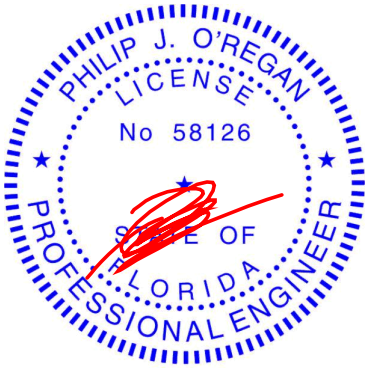
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4, 1-5, 2-5, 3-5

REACTIONS. (size) 6=0-3-8, 4=0-4-0
Max Uplift 6=-825(LC 4), 4=-807(LC 4)
Max Grav 6=1741(LC 2), 4=1705(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1238/612, 1-2=-464/218, 2-3=-464/218, 3-4=-1238/612
WEBS 1-5=-587/1251, 3-5=-587/1251

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=825, 4=807.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 999 lb down and 474 lb up at 1-7-4, and 998 lb down and 472 lb up at 3-7-4, and 998 lb down and 472 lb up at 5-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-862(F) 9=-864(F) 10=-862(F)

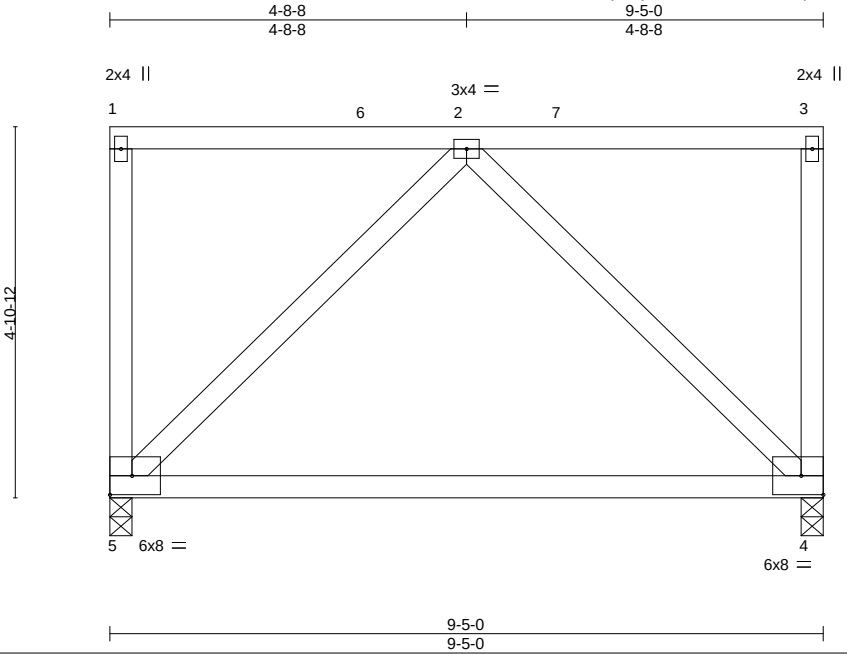


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T47	Flat	1	1	T26659421
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:24 2022 Page 1
ID:fGIai9?qNSljAv9NJPFv3izruuC-bqbaktcYzCkrUmLAm8ttHBJCdtsse56H?dLwzDzrTs9



Scale = 1:30.4

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	0.61	Vert(LL)	-0.26	4-5	>425	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.51	4-5	>213	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 59 lb	FT = 20%

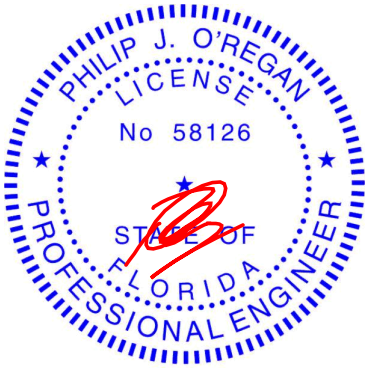
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 5=0-3-8, 4=0-3-8
Max Uplift 5=-166(LC 8), 4=-166(LC 8)
Max Grav 5=338(LC 1), 4=338(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-298/163
WEBS 2-5=-201/416, 2-4=-201/416

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=166, 4=166.

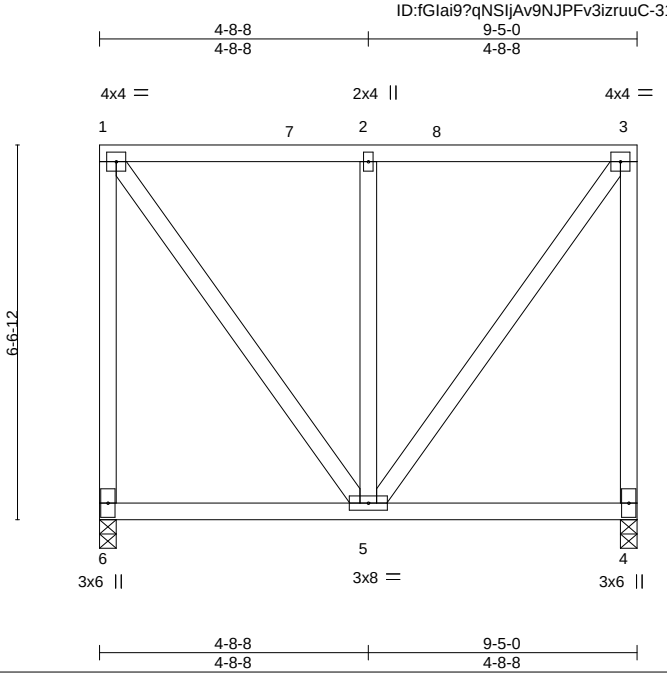


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T48	Flat	1	1	T26659422
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:25 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-319yyDdAkWsi6wwMKsO6pPrQUHMcNV_QEH4TVfzrTs8



Scale = 1:40.4

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	0.41	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.02	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 77 lb	FT = 20%

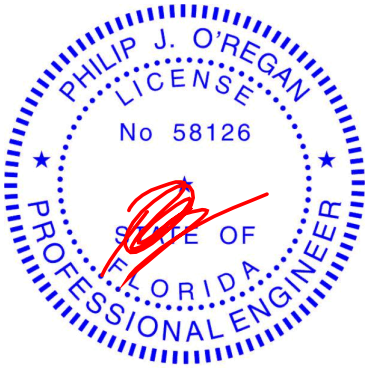
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Uplift 6=-166(LC 8), 4=-166(LC 8)
Max Grav 6=338(LC 1), 4=338(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-298/474, 3-4=-298/474
WEBS 1-5=-339/245, 2-5=-292/590, 3-5=-339/245

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=166, 4=166.

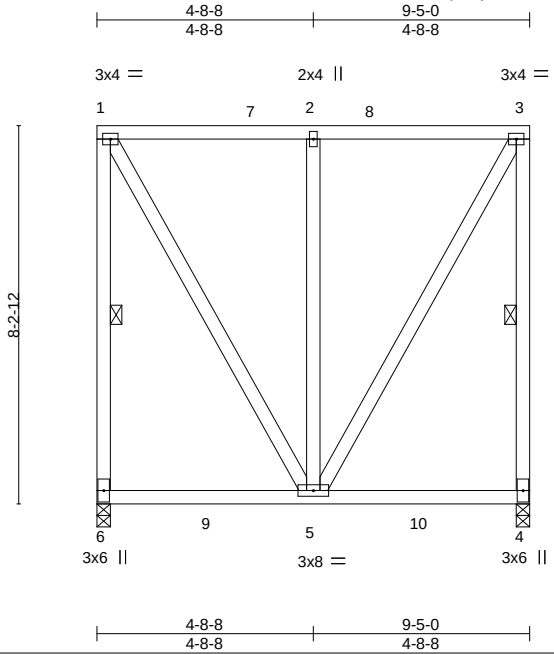


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T49	Flat	1	1	T26659423
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:26 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-XDjL9ZepVp_Zj4VZtZvLMcObJhhB6wKaSxq016zrTs7



Scale = 1:50.1

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	0.41	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 88 lb	FT = 20%

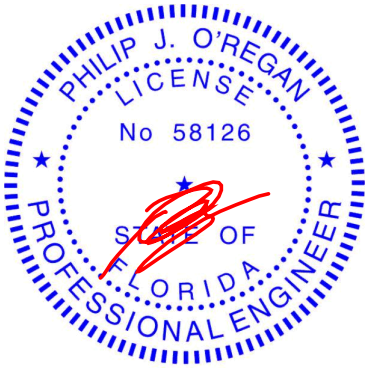
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Uplift 6=-166(LC 8), 4=-166(LC 8)
Max Grav 6=395(LC 2), 4=395(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-306/474, 3-4=-306/474
WEBS 1-5=-317/258, 2-5=-293/593, 3-5=-317/258

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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 100 lb uplift at joint(s) except (jt=lb) 6=166, 4=166.

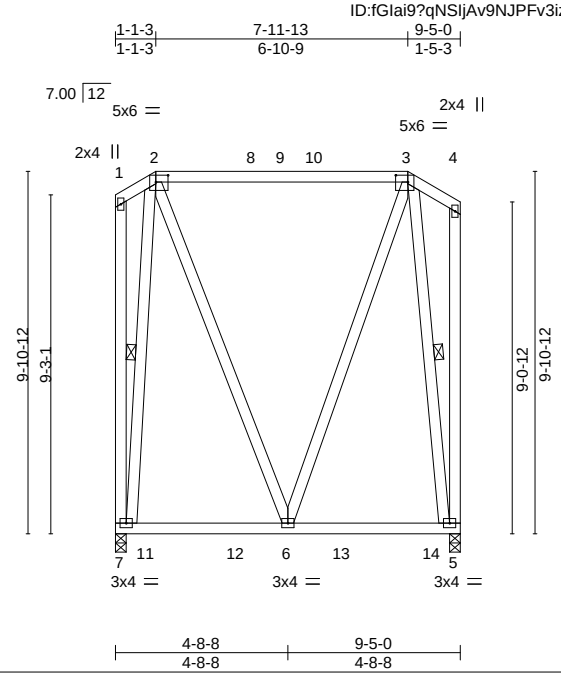


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T50	Hip	1	1	T26659424
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:26 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-XDjL9ZepVp_Zj4VZtZvLMcOajhgj6?CaSxq016zrTs7



Scale = 1:62.9

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

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	0.51	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 112 lb	FT = 20%

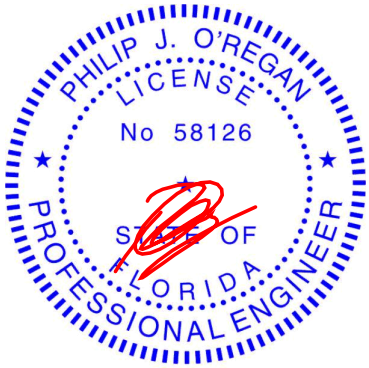
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-7, 3-5

REACTIONS. (size) 7=0-3-8, 5=0-3-8
Max Horz 7=-24(LC 8)
Max Uplift 7=-139(LC 8), 5=-120(LC 13)
Max Grav 7=398(LC 2), 5=397(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-396/275, 3-5=-360/220

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=22ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-1-3, Exterior(2R) 1-1-3 to 5-4-2, Interior(1) 5-4-2 to 7-11-13, Exterior(2E) 7-11-13 to 9-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=139, 5=120.

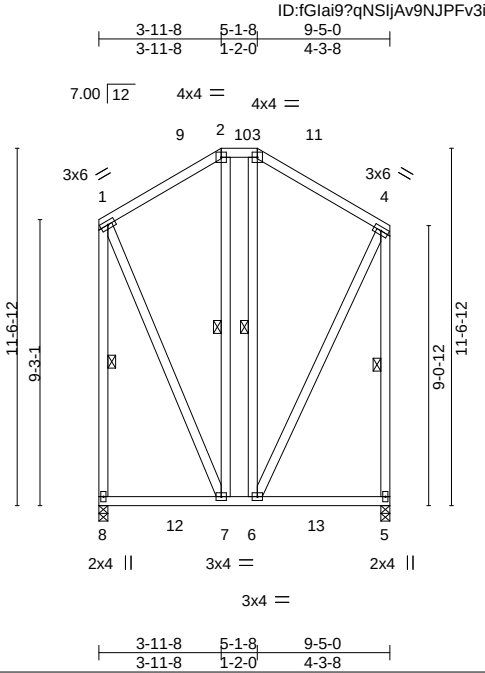


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T51	Hip	1	1	T26659425
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:27 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-?PHjMveRG76QLE4lRGQauqxpB51_rDDjhaZaZYzrTs6



Scale = 1:74.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 117 lb	FT = 20%

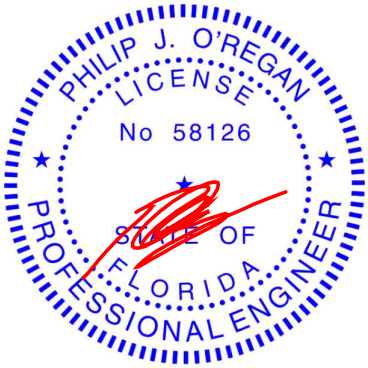
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-7, 3-6, 1-8, 4-5

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Horz 8=-79(LC 8)
Max Uplift 8=-157(LC 13), 5=-138(LC 12)
Max Grav 8=422(LC 20), 5=420(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-352/205, 4-5=-337/187
WEBS 1-7=-110/262

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=22ft; Cat. II; Exp C; 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 3-11-8, Exterior(2E) 3-11-8 to 9-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=157, 5=138.

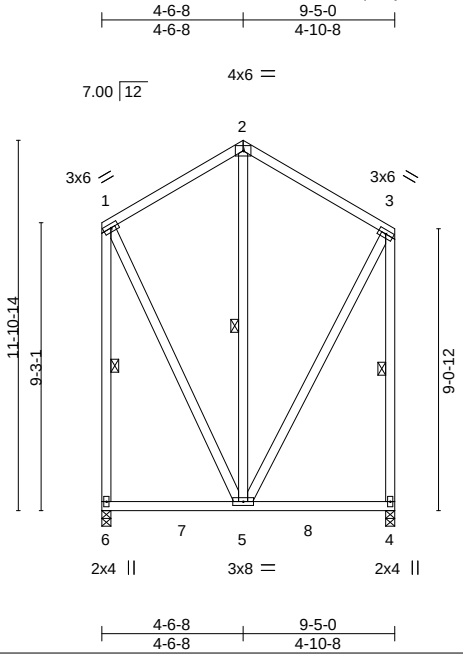


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659426
3000644	T52	Common	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:28 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-Tbq5aFf31REGzNfx?_ypR1TzlVNUauWtwEJ76_zrTs5



Scale = 1:74.1

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	0.28	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.04	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 102 lb	FT = 20%

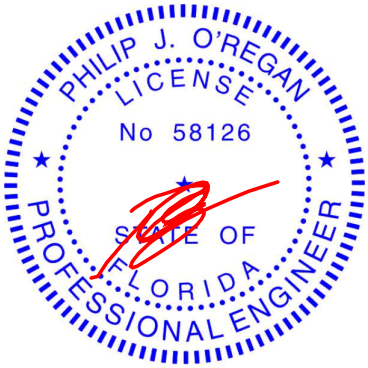
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-5, 1-6, 3-4

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Horz 6=-89(LC 8)
Max Uplift 6=-166(LC 13), 4=-147(LC 12)
Max Grav 6=452(LC 20), 4=449(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-368/233, 3-4=-355/211
WEBS 1-5=-104/271, 3-5=-82/252

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=22ft; Cat. II; Exp C; 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 4-6-8, Exterior(2R) 4-6-8 to 7-6-8, Interior(1) 7-6-8 to 9-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=166, 4=147.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659427
3000644	T53	Monopitch	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:29 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-yoOTnbghokM7aXE8ZhT2_F016uafJOu08u2heQzrTs4

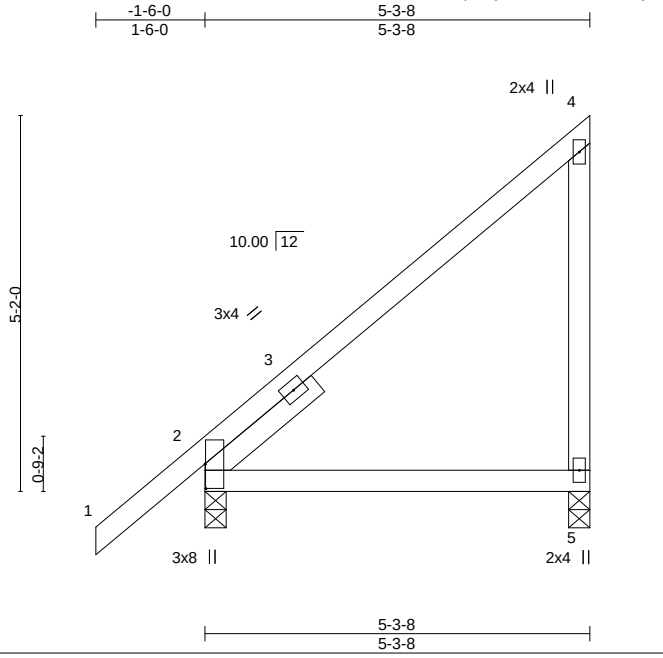


Plate Offsets (X,Y)-- [2:0-4-1,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	0.19	5-8	>330	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	0.17	5-8	>356	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.05	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 31 lb	FT = 20%

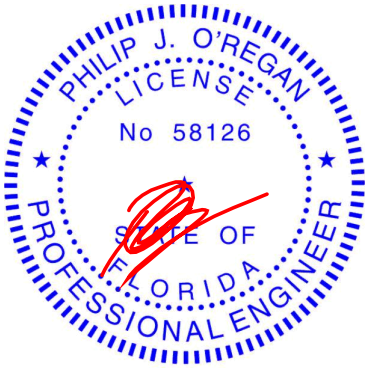
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-2 oc bracing.

REACTIONS. (size) 5=0-3-8, 2=0-3-8
Max Horz 2=272(LC 12)
Max Uplift 5=-192(LC 12), 2=-61(LC 9)
Max Grav 5=179(LC 1), 2=283(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-276/346, 4-5=-192/311

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; 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 5-1-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=192.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES. T26659428
3000644	T54	Monopitch	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:30 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-Q_yr?xhJZ2U_ChoK6P_HWSZE0lxZ2r89NYoEAtzrTs3

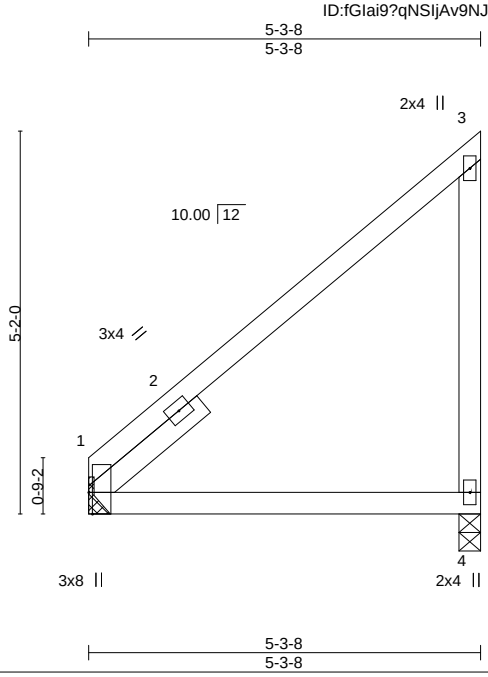


Plate Offsets (X,Y)-- [1:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	0.10	4-7	>612	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.09	4-7	>655	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 28 lb	FT = 20%

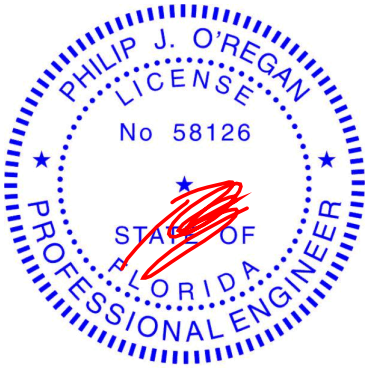
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 4=0-3-8
Max Horz 1=218(LC 12)
Max Uplift 4=-202(LC 12)
Max Grav 1=190(LC 1), 4=229(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-275/125, 3-4=-202/282

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; 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 5-1-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=202.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T55	MONO TRUSS	16	1	T26659429
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:30 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-Q_yr?xhJZ2U_ChoK6P_HWSZATIwE2nm9NYoEAtzrTs3

-1-6-0 4-5-14 8-0-0
1-6-0 4-5-14 3-6-2

Scale = 1:18.1

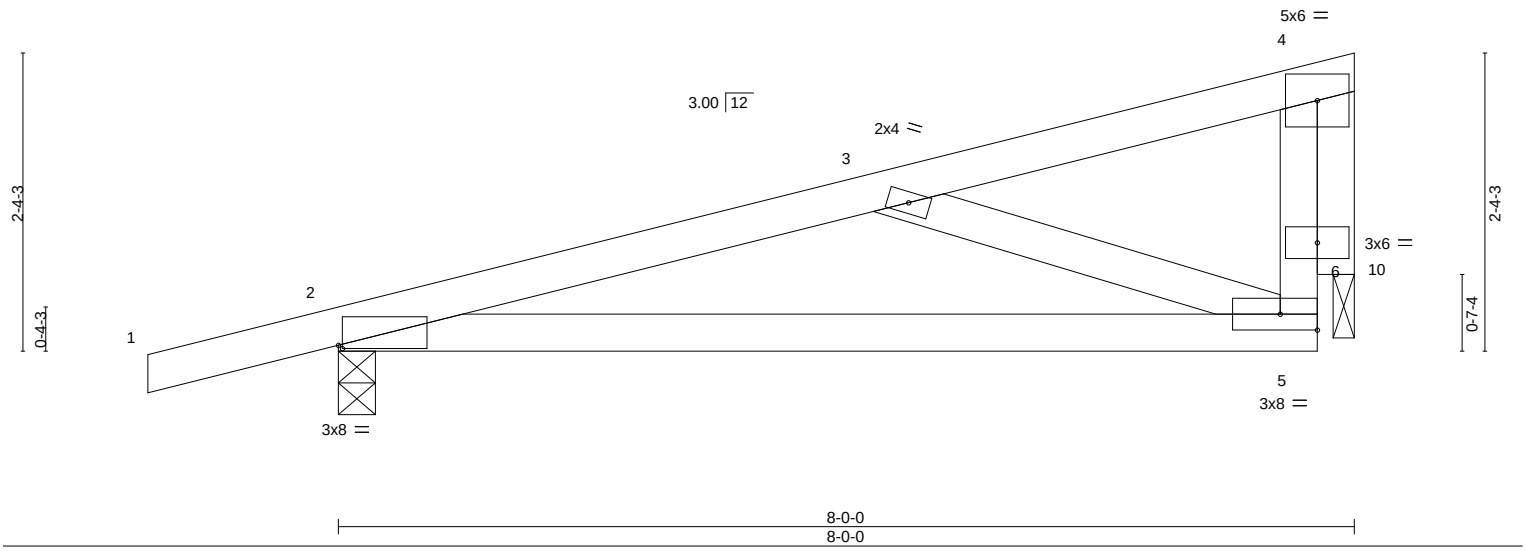


Plate Offsets (X,Y)-- [2:0-0-6,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	0.25	5-9	>387	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	0.22	5-9	>425	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	-0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 36 lb	FT = 20%

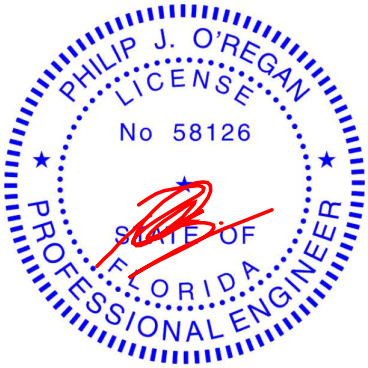
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-7-4 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-2-0
Max Horz 2=121(LC 8)
Max Uplift 2=-325(LC 8), 10=-222(LC 8)
Max Grav 2=381(LC 1), 10=260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-524/1010, 5-6=-607/210, 4-6=-607/210
BOT CHORD 2-5=-1128/503
WEBS 3-5=-442/942, 4-10=-268/647

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; 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 7-6-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=325, 10=222.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - DALTON RES.
3000644	T55G	GABLE	2	1	T26659430
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 26 13:05:31 2022 Page 1
ID:fGIai9?qNSIjAv9NJPFv3izruuC-uAWECHhxKMcrqrNWg6VW3g5VfiQJnGwJcCXnjJzrTs2

-1-6-0 / 1-6-0 — 8-0-0 / 8-0-0

Scale = 1:17.6

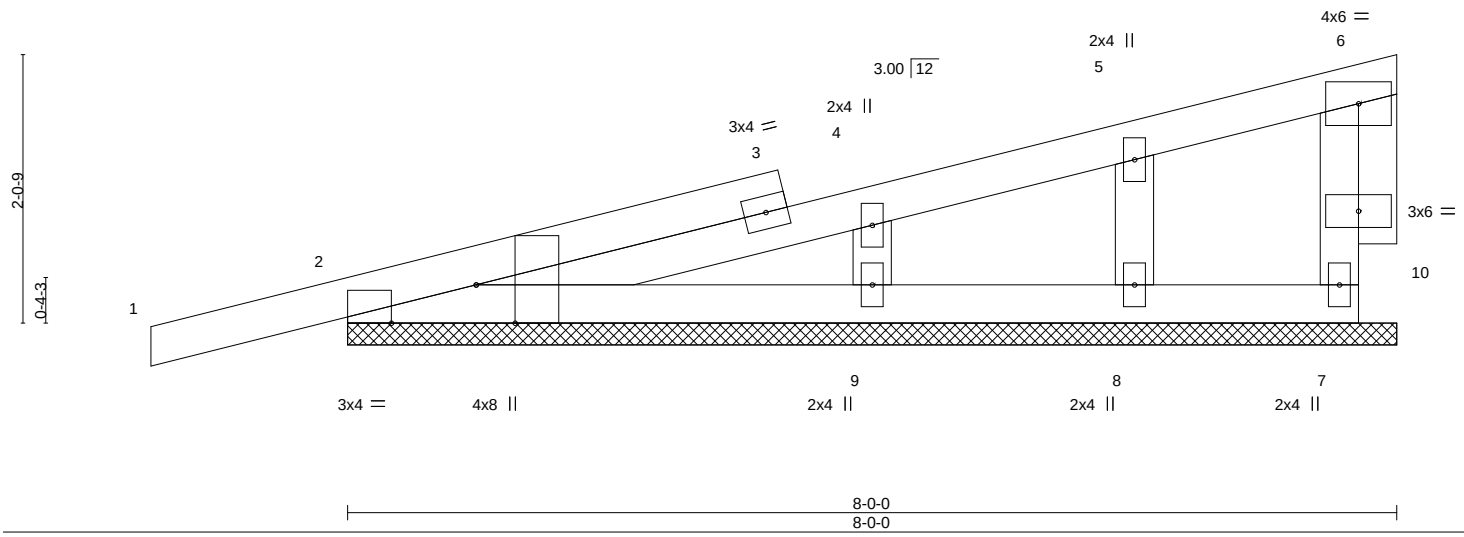


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-7-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 36 lb	FT = 20%

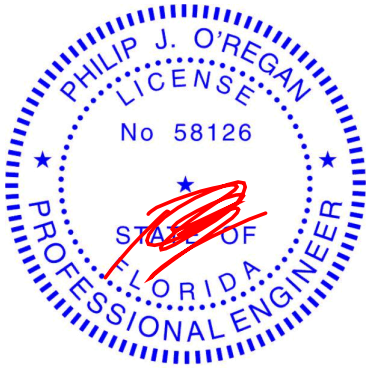
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 8-0-0.
(lb) - Max Horz 2=107(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 7, 8 except 2=-163(LC 8), 9=-113(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 7, 9, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-170/317

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp C; 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 7-8-8 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8 except (jt=lb) 2=163, 9=113.

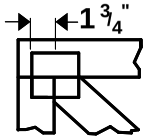


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 27,2022

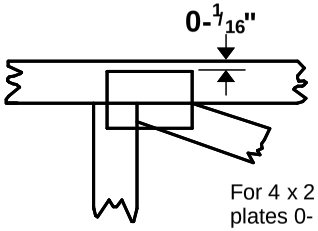
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

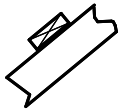
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

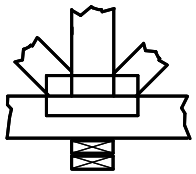
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

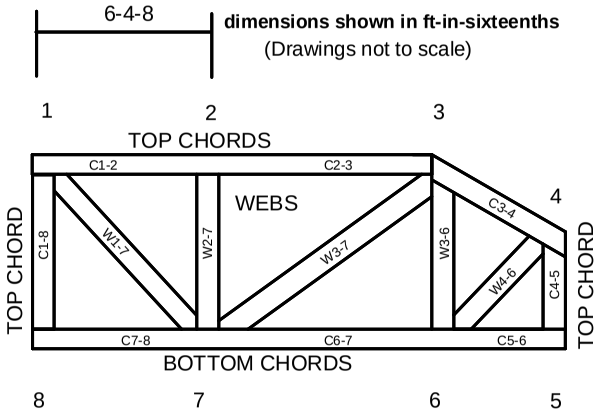


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

21.The design does not take into account any dynamic or other loads other than those expressly stated.