



RE: 3698546 -

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: KEN JOHNSON Project Name: CLINTON RES 2 STORY Model: .
Lot/Block: . Subdivision: .
Address: 889 NW BLACKBERRY CT, .
City: Lake City State: FL

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
29	T32098880	C3	11/14/23	86	T32098937	FG4	11/14/23
30	T32098881	C4	11/14/23	87	T32098938	FG5	11/14/23
31	T32098882	C5	11/14/23	88	T32098939	FG6	11/14/23
32	T32098883	C6	11/14/23	89	T32098940	FG7	11/14/23
33	T32098884	C7	11/14/23	90	T32098941	FT1	11/14/23
34	T32098885	C8	11/14/23	91	T32098942	FT2	11/14/23
35	T32098886	C9	11/14/23	92	T32098943	FT3	11/14/23
36	T32098887	C10	11/14/23	93	T32098944	FT4	11/14/23
37	T32098888	C11	11/14/23	94	T32098945	FT5	11/14/23
38	T32098889	C12	11/14/23	95	T32098946	FT6	11/14/23
39	T32098890	C13	11/14/23	96	T32098947	G1	11/14/23
40	T32098891	CJ1	11/14/23	97	T32098948	G2	11/14/23
41	T32098892	CJ1A	11/14/23	98	T32098949	G3	11/14/23
42	T32098893	CJ1D	11/14/23	99	T32098950	G4	11/14/23
43	T32098894	CJ1J	11/14/23	100	T32098951	HJ2D	11/14/23
44	T32098895	CJ1K	11/14/23	101	T32098952	HJ3	11/14/23
45	T32098896	CJ1M	11/14/23	102	T32098953	HJ3C	11/14/23
46	T32098897	CJ2	11/14/23	103	T32098954	HJ4	11/14/23
47	T32098898	CJ2A	11/14/23	104	T32098955	HJ4A	11/14/23
48	T32098899	CJ2B	11/14/23	105	T32098956	HJ4C	11/14/23
49	T32098900	CJ2C	11/14/23	106	T32098957	HJ6	11/14/23
50	T32098901	CJ3A	11/14/23	107	T32098958	HJ7D	11/14/23
51	T32098902	CJ3D	11/14/23	108	T32098959	HJ7K	11/14/23
52	T32098903	CJ3J	11/14/23	109	T32098960	HJ7M	11/14/23
53	T32098904	CJ3K	11/14/23	110	T32098961	HJ7MT	11/14/23
54	T32098905	CJ3M	11/14/23	111	T32098962	J1	11/14/23
55	T32098906	CJ3MT	11/14/23	112	T32098963	J2	11/14/23
56	T32098907	CJ5D	11/14/23	113	T32098964	J3	11/14/23
57	T32098908	CJ5J	11/14/23	114	T32098965	J4	11/14/23
58	T32098909	CJ5K	11/14/23	115	T32098966	M1	11/14/23
59	T32098910	CJ5M	11/14/23	116	T32098967	M2	11/14/23
60	T32098911	CJ5MT	11/14/23	117	T32098968	M3	11/14/23
61	T32098912	CJ6	11/14/23	118	T32098969	M4	11/14/23
62	T32098913	CJ8	11/14/23	119	T32098970	M5	11/14/23
63	T32098914	D1	11/14/23	120	T32098971	M6	11/14/23
64	T32098915	D2	11/14/23	121	T32098972	M7	11/14/23
65	T32098916	D3	11/14/23	122	T32098973	M8	11/14/23
66	T32098917	D4	11/14/23	123	T32098974	M9	11/14/23
67	T32098918	D5	11/14/23	124	T32098975	M10	11/14/23
68	T32098919	D6	11/14/23	125	T32098976	M11	11/14/23
69	T32098920	D7	11/14/23	126	T32098977	M12	11/14/23
70	T32098921	D8	11/14/23	127	T32098978	M13	11/14/23
71	T32098922	E1	11/14/23	128	T32098979	PB1	11/14/23
72	T32098923	E2	11/14/23	129	T32098980	PB2	11/14/23
73	T32098924	E3	11/14/23	130	T32098981	PB3	11/14/23
74	T32098925	E4	11/14/23	131	T32098982	PB4	11/14/23
75	T32098926	E5	11/14/23	132	T32098983	PB5	11/14/23
76	T32098927	EJ2	11/14/23	133	T32098984	S1	11/14/23
77	T32098928	EJ3	11/14/23	134	T32098985	S2	11/14/23
78	T32098929	EJ4	11/14/23	135	T32098986	S3	11/14/23
79	T32098930	EJ4G	11/14/23	136	T32098987	UA1	11/14/23
80	T32098931	EJ7D	11/14/23	137	T32098988	UA2	11/14/23
81	T32098932	EJ7M	11/14/23	138	T32098989	UA3	11/14/23
82	T32098933	EJ7MT	11/14/23	139	T32098990	UB1	11/14/23
83	T32098934	FG1	11/14/23	140	T32098991	UB2	11/14/23
84	T32098935	FG2	11/14/23	141	T32098992	UB3	11/14/23
85	T32098936	FG3	11/14/23	142	T32098993	V3	11/14/23



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Address: 889 NW BLACKBERRY CT, .
City: Lake City State: FL

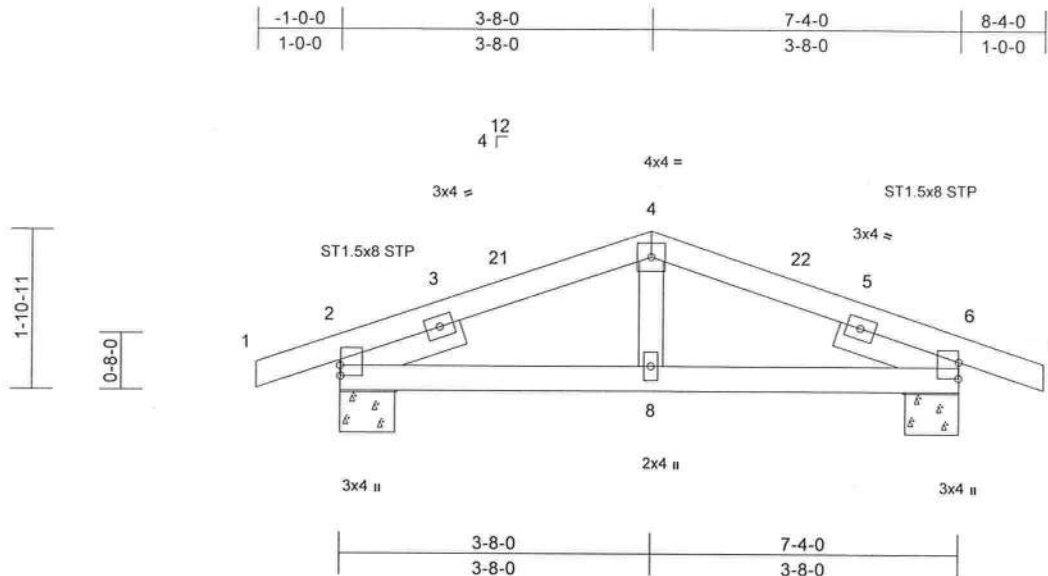
No.	Seal#	Truss Name	Date
143	T32098994	V6	11/14/23
144	T32098995	V7	11/14/23
145	T32098996	V8	11/14/23
146	T32098997	V9A	11/14/23
147	T32098998	V9B	11/14/23
148	T32098999	V10	11/14/23

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A1	Common	4	1	T32098852

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:01
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Page: 1



Scale = 1:27.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	8	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	8	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	8	>999	240	Weight: 32 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 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	2=0-7-11, 6=0-7-11
Max Horiz	2=-41 (LC 11)
Max Uplift	2=-212 (LC 6), 6=-212 (LC 7)
Max Grav	2=353 (LC 1), 6=353 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/19, 2-4=-394/423, 4-6=-394/423, 6-7=0/19
BOT CHORD	2-8=-248/339, 6-8=-248/339
WEBS	4-8=0/109

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Exterior(2R) 2-0-0 to 5-4-0, Exterior(2E) 5-4-0 to 8-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 212 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

November 14, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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Chesterfield, MO 63017
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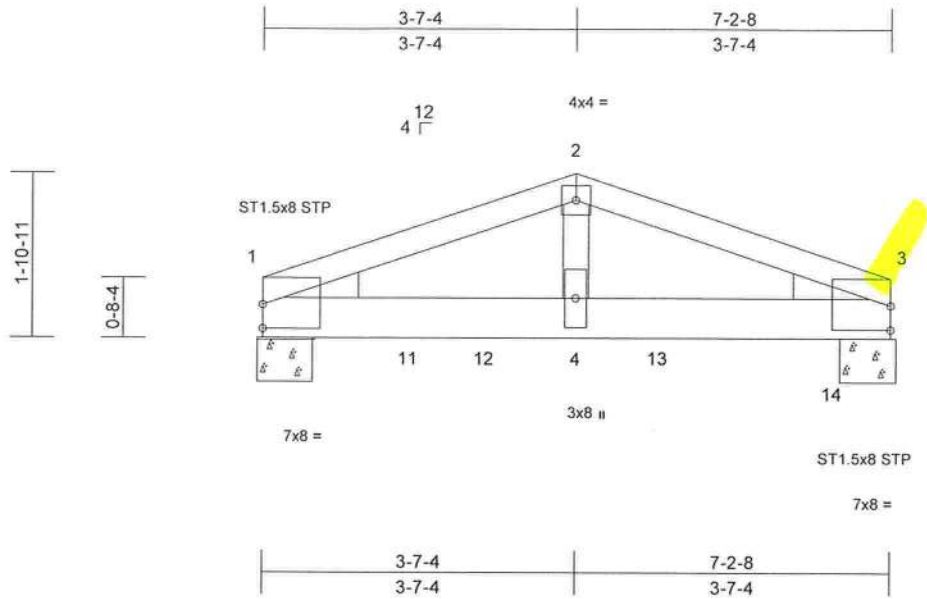
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A2	Common Girder	2	1	T32098853

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:03

Page: 1

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Scale = 1:26.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.02	4-7	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.05	4-7	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.01	3	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	4-10	>999	240	
										Weight: 33 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-3-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 8-1-1 oc bracing.

REACTIONS

(size)	1=0-7-11, 3=0-7-11
Max Horiz	1=-31 (LC 28)
Max Uplift	1=-533 (LC 4), 3=-885 (LC 5)
Max Grav	1=1162 (LC 1), 3=1361 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-1785/863, 2-3=-1787/860
BOT CHORD	1-4=-786/1660, 3-4=-786/1660
WEBS	2-4=-405/933

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 533 lb uplift at joint 1 and 885 lb uplift at joint 3.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 460 lb down and 194 lb up at 1-8-12, 460 lb down and 194 lb up at 2-7-4, and 460 lb down and 201 lb up at 4-7-4, and 695 lb down and 566 lb up at 6-7-4 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-460 (B), 12=-460 (B), 13=-460 (B), 14=-567 (B)

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

November 14,2023

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MiTek®

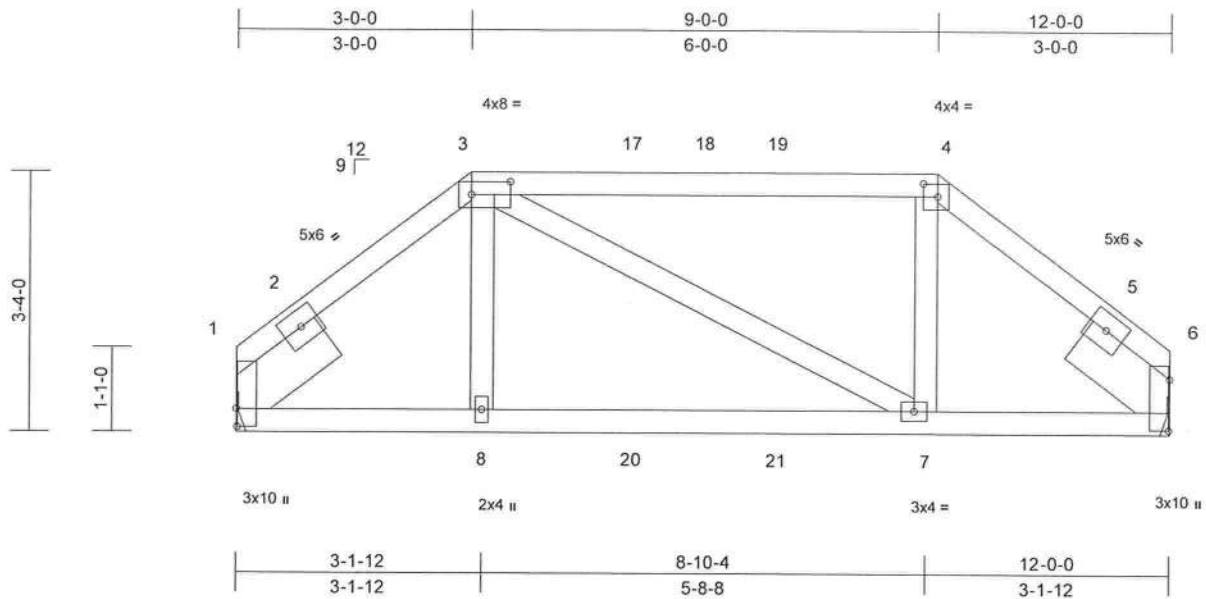
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A3	Hip Girder	1	1	T32098854

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:03
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Page: 1



Scale = 1:29.6

Plate Offsets (X, Y): [1:0-2-12,0-0-2], [3:0-6-0,0-2-0], [4:0-2-4,0-2-0], [6:0-7-14,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.04	7-8	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.09	7-8	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.08	Horz(CT)	-0.03	6	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.11	7-8	>999	240	
										Weight: 65 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -- 1-6-0, Right 2x8 SP 2400F 2.0E -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-4-11 oc bracing.

REACTIONS	(size) 1= Mechanical, 6= Mechanical
	Max Horiz 1=-88 (LC 6)
	Max Uplift 1=-557 (LC 8), 6=-557 (LC 9)
	Max Grav 1=655 (LC 15), 6=655 (LC 16)

FORCES

TOP CHORD	1-3=-758/704, 3-4=-584/607, 4-6=-759/704
BOT CHORD	1-8=-556/603, 7-8=-561/613, 6-7=-499/562
WEBS	3-8=-115/228, 3-7=-64/65, 4-7=-121/227

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 557 lb uplift at joint 1 and 557 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 109 lb up at 3-0-0, 129 lb down and 107 lb up at 5-0-12, and 129 lb down and 107 lb up at 6-11-4, and 129 lb down and 109 lb up at 9-0-0 on top chord, and 153 lb down and 173 lb up at 3-0-0, 32 lb down and 30 lb up at 5-0-12, and 32 lb down and 30 lb up at 6-11-4, and 153 lb down and 173 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 4-6=-60, 9-13=-20
Concentrated Loads (lb)
Vert: 3=-6 (F), 4=-6 (F), 8=-84 (F), 7=-84 (F), 17=-6 (F), 19=-6 (F), 20=-7 (F), 21=-7 (F)

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

November 14,2023

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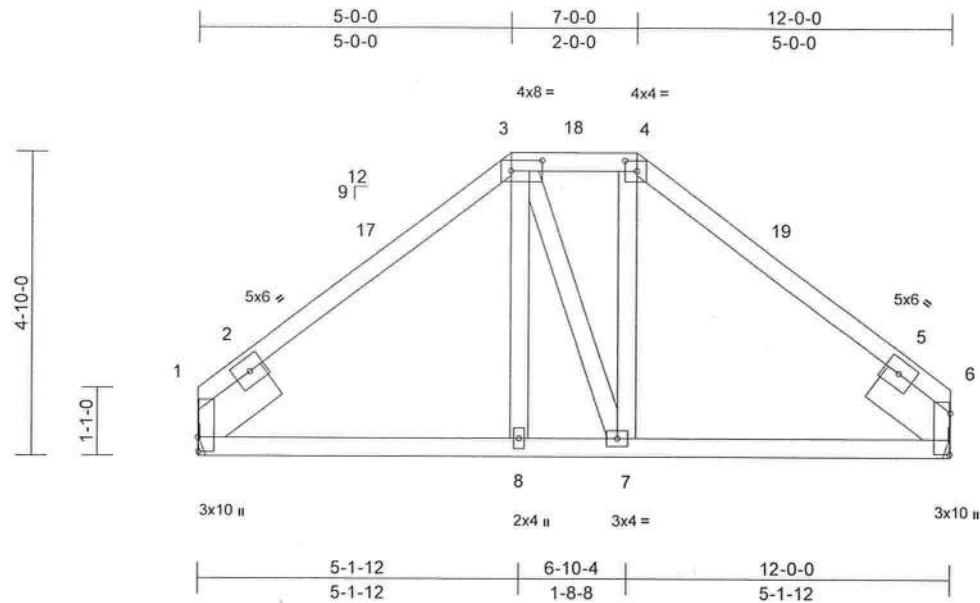
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A4	Hip	1	1	T32098855

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:03
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Page: 1



Scale = 1:36.8

Plate Offsets (X, Y): [1:0-2-12,0-0-2], [3:0-6-0,0-2-0], [4:0-2-4,0-2-0], [6:0-7-14,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	Vert(LL)	0.03	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	Vert(CT)	-0.03	8-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	-0.02	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS						Weight: 69 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -- 1-6-0, Right 2x8 SP 2400F 2.0E -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	1= Mechanical, 6= Mechanical
Max Horiz	1=-147 (LC 8)
Max Uplift	1=-191 (LC 10), 6=-191 (LC 11)
Max Grav	1=480 (LC 1), 6=480 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-3=-554/321, 3-4=-427/359, 4-6=-554/320
BOT CHORD	1-8=-232/343, 7-8=-130/345, 6-7=-181/343
WEBS	3-8=-28/124, 3-7=-169/171, 4-7=-72/170

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 1 and 191 lb uplift at joint 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard

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

November 14, 2023

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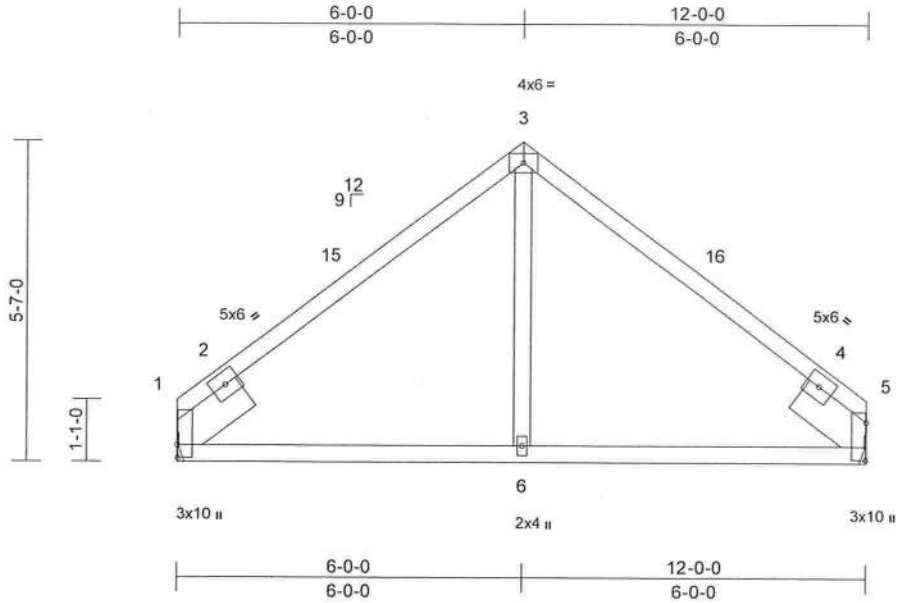
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A5	Common	2	1	T32098856

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:04
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Page: 1



Scale = 1:40.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.07	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.08	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.04	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -- 1-6-0, Right 2x8 SP 2400F 2.0E -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	1= Mechanical, 5= Mechanical
Max Horiz	1=174 (LC 7)
Max Uplift	1=-184 (LC 10), 5=-184 (LC 11)
Max Grav	1=480 (LC 1), 5=480 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-3=-592/325, 3-5=-592/325
BOT CHORD	1-6=-275/346, 5-6=-217/346
WEBS	3-6=-25/241

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II, Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 184 lb uplift at joint 1 and 184 lb uplift at joint 5.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard

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MiTek Inc, DBA MiTek USA FL Cert 6634
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Date:

November 14,2023

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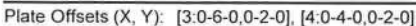
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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Page: 1

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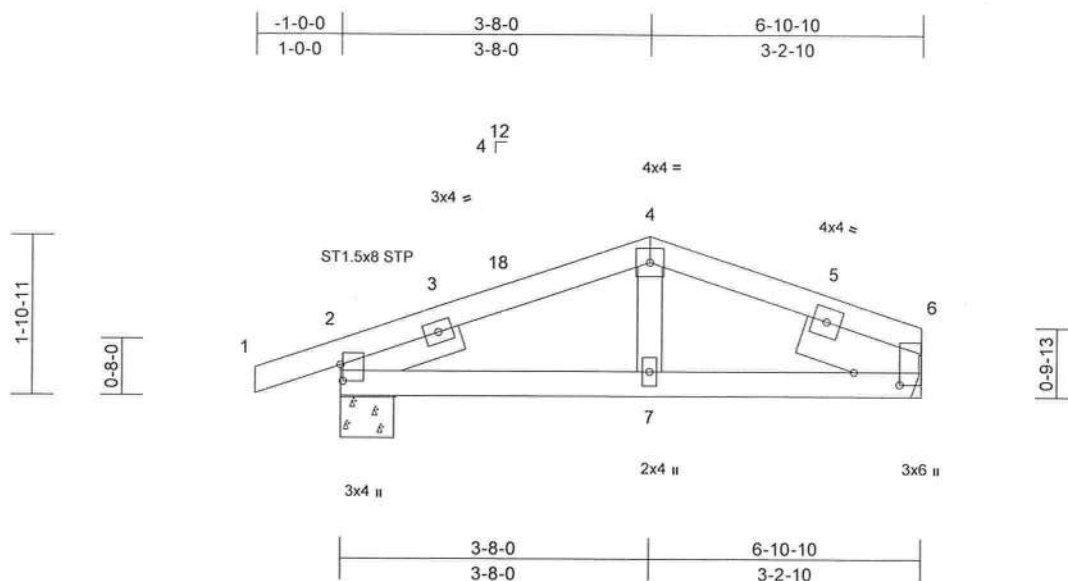
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	A8	Common	3	1	T32098859

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:05
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Page: 1



Scale = 1:27.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	0.00	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	7-10	>999	240	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 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	2=0-7-11, 6= Mechanical
Max Horiz	2=56 (LC 6)
Max Uplift	2=-213 (LC 6), 6=-116 (LC 7)
Max Grav	2=356 (LC 1), 6=254 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/19, 2-4=-389/425, 4-6=-368/432
BOT CHORD	2-7=-316/327, 6-7=-316/327
WEBS	4-7=-10/104

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Exterior(2R) 2-0-0 to 3-8-0, Exterior(2E) 3-8-0 to 6-10-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 6 and 213 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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

November 14,2023

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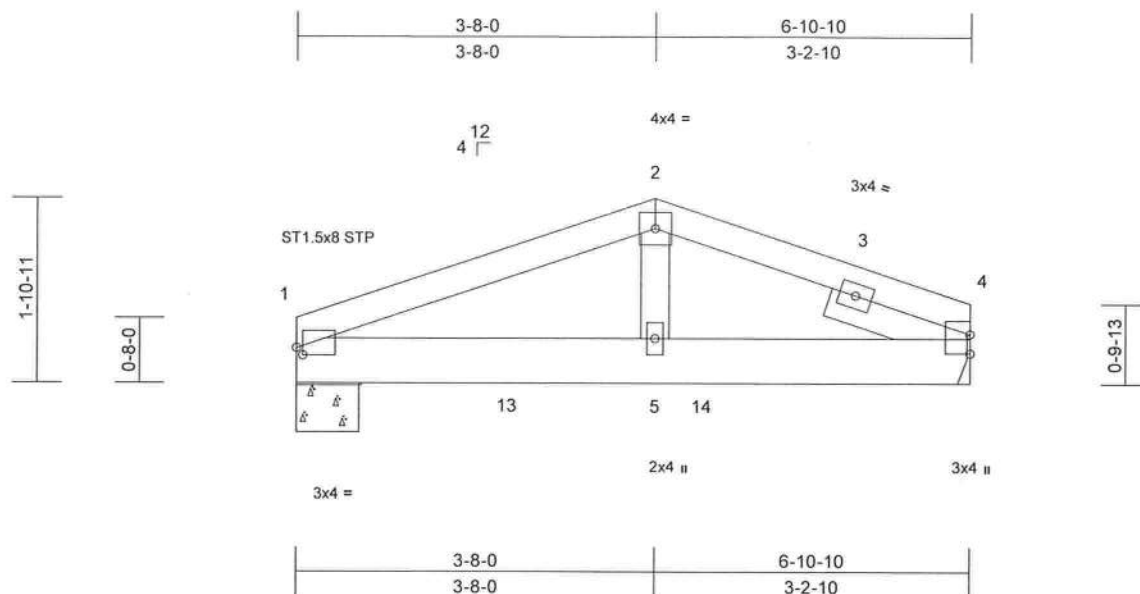
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A9	Common Girder	1	1	T32098860

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:05

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Scale = 1:23.6

Plate Offsets (X, Y): [1:0-0-12,0-0-14]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.01	5-8	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.02	5-8	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.02	5-8	>999	240	Weight: 31 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-7-11, 4= Mechanical
Max Horiz 1=37 (LC 27)
Max Uplift 1=-321 (LC 4), 4=-409 (LC 5)
Max Grav 1=700 (LC 1), 4=916 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1137/503, 2-4=-1121/514
BOT CHORD 1-5=-453/1043, 4-5=-453/1043
WEBS 2-5=-224/565

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP No.2.

- Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 1 and 409 lb uplift at joint 4.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 354 lb down and 162 lb up at 2-1-12, and 354 lb down and 162 lb up at 4-1-12, and 357 lb down and 155 lb up at 6-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S) Standard**
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 11=-357 (B), 13=-354 (B), 14=-354 (B)

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Date:

November 14,2023

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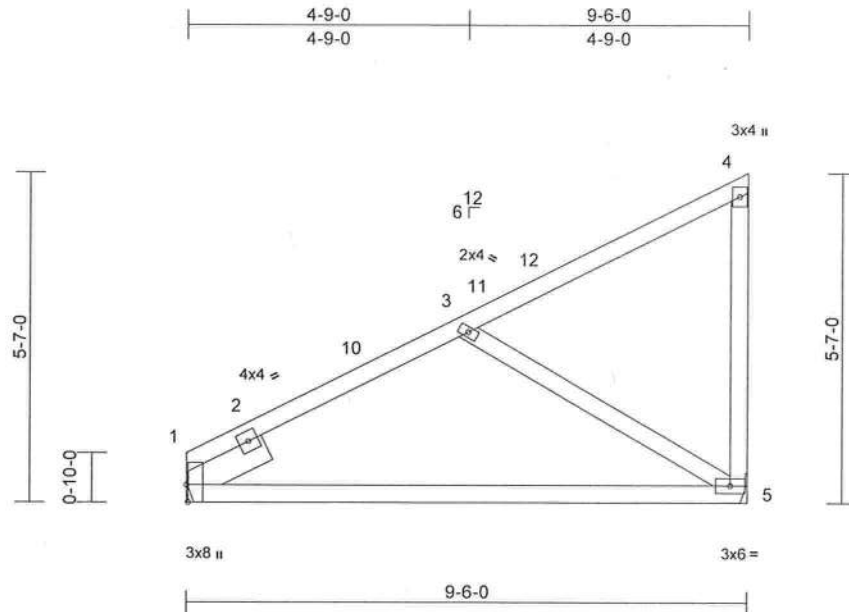
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A10	Roof Special	1	1	T32098861

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:05

Page: 1

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Scale = 1:39.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.16	5-8	>713	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.31	5-8	>356	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.04	5-8	>999	240	Weight: 49 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1= Mechanical, 5= Mechanical
Max Horiz 1=311 (LC 9)
Max Uplift 1=-146 (LC 10), 5=-185 (LC 10)
Max Grav 1=374 (LC 1), 5=374 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-814/315, 3-4=-188/148, 4-5=-182/144
BOT CHORD 1-5=-330/542
WEBS 3-5=-502/448

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-1-5, Exterior(2R) 5-1-5 to 9-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 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 146 lb uplift at joint 1 and 185 lb uplift at joint 5.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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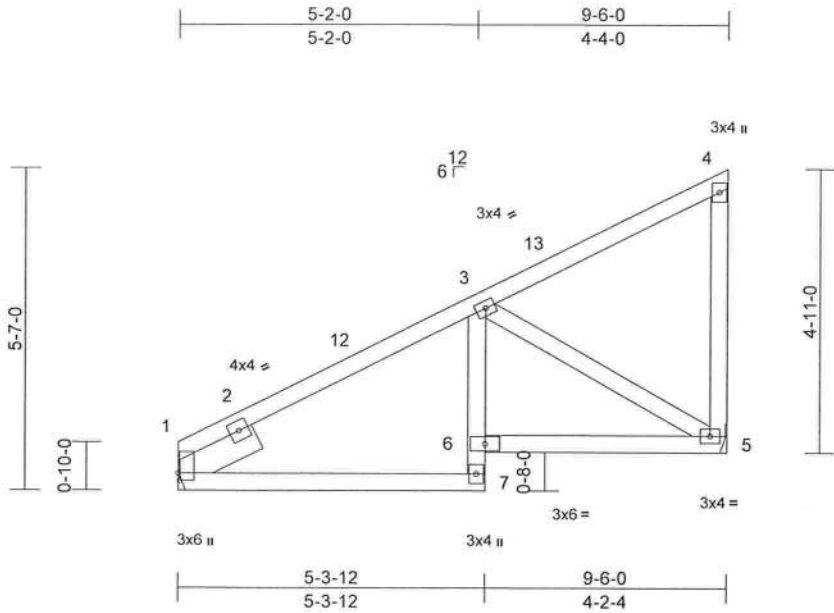
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A11	Roof Special	2	1	T32098862

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:05
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Page: 1



Scale = 1:40,1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.03	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.02	7-10	>999	240	Weight: 51 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 7-3:2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1= Mechanical, 5= Mechanical
Max Horiz 1=285 (LC 7)
Max Uplift 1=-152 (LC 10), 5=-241 (LC 10)
Max Grav 1=374 (LC 1), 5=374 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-403/308, 3-4=-153/135, 4-5=-159/114
BOT CHORD 1-7=-333/521, 6-7=-17/104, 3-6=0/183, 5-6=-290/599
WEBS 3-5=-586/484

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-4-4, Exterior(2E) 6-4-4 to 9-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 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 152 lb uplift at joint 1 and 241 lb uplift at joint 5.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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

November 14,2023

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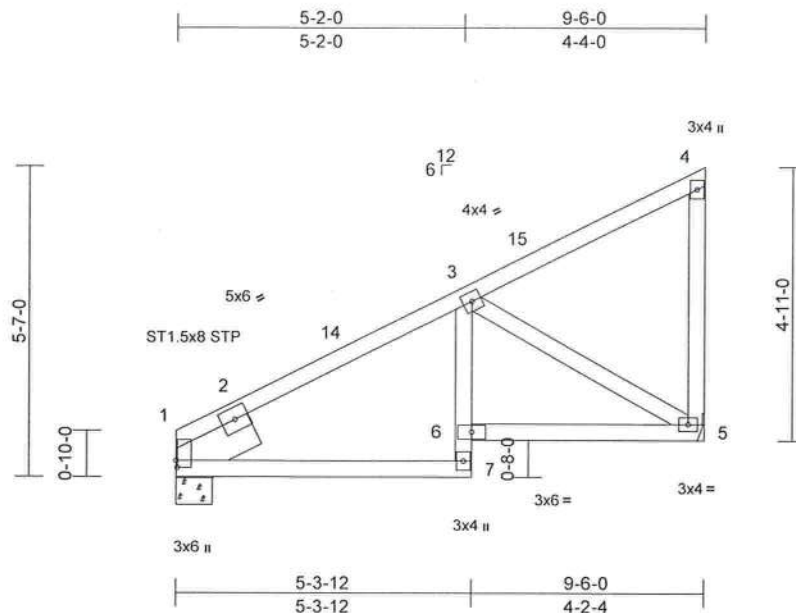
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A12	Roof Special	1	1	T32098863

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:06

Page: 1

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Scale = 1:41.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.03	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.02	5-6	>999	240	Weight: 52 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except* 7-3:2x4 SP No.3
 WEBS 2x4 SP No.3
 SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=0-7-11, 5= Mechanical
 Max Horiz 1=285 (LC 7)
 Max Uplift 1=-158 (LC 10), 5=-236 (LC 10)
 Max Grav 1=387 (LC 1), 5=361 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-396/289, 3-4=-153/135, 4-5=-162/117

BOT CHORD 1-7=-238/491, 6-7=-11/94, 3-6=0/173,

WEBS 5-6=-271/574

WEBS 3-5=-557/461

NOTES

1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
 Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-4-4, Exterior(2E) 6-4-4 to 9-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: Joint 1 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 1 and 236 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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

November 14,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

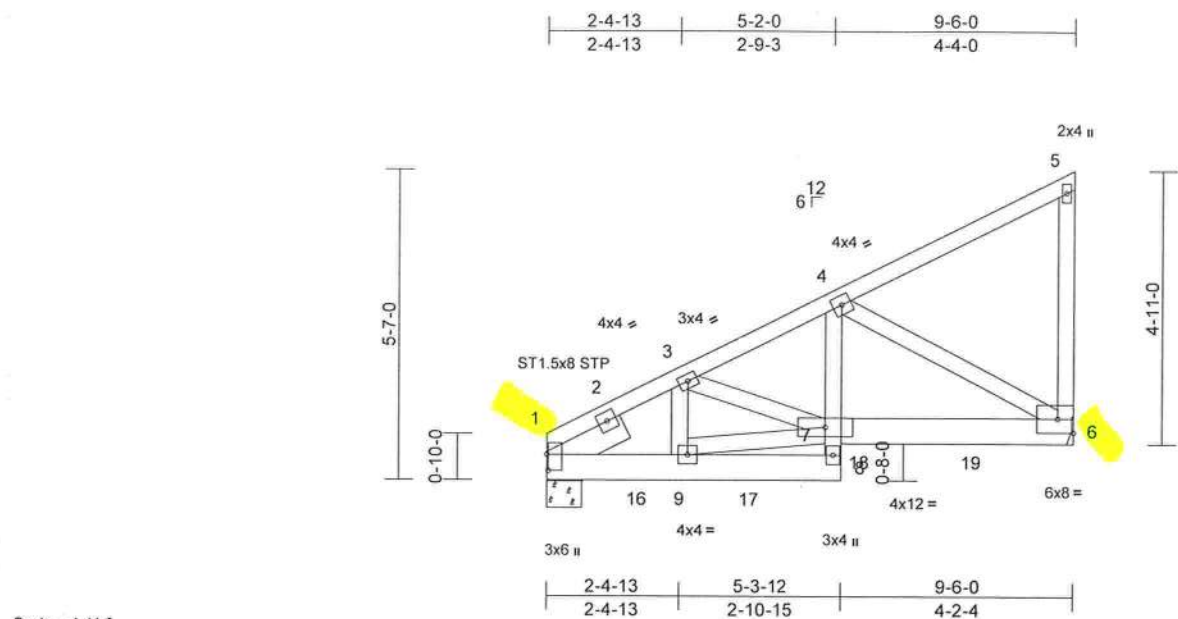
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A13	Roof Special Girder	1	1	T32098864

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,
Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:06

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Page: 1



Scale = 1:41.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.03	6-7	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.06	6-7	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.01	6	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.05	6-7	>999	240	Weight: 68 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 8-4-2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-6 oc bracing.

REACTIONS (size) 1=0-7-11, 6= Mechanical
Max Horiz 1=283 (LC 5)
Max Uplift 1=-674 (LC 8), 6=-680 (LC 8)
Max Grav 1=1229 (LC 1), 6=1067 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-1357/759, 3-4=-1290/739, 4-5=-153/70, 5-6=-101/92
BOT CHORD 1-9=-756/1154, 8-9=-123/175, 7-8=-118/241, 4-7=-547/954, 6-7=-740/1192
WEBS 4-6=-1340/908, 3-9=-75/166, 3-7=-63/53, 7-9=-648/1001

5) Bearings are assumed to be: Joint 1 SP No.2 .
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 674 lb uplift at joint 1 and 680 lb uplift at joint 6.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 463 lb down and 275 lb up at 1-7-11, 362 lb down and 225 lb up at 3-7-11, and 362 lb down and 229 lb up at 5-7-11, and 361 lb down and 232 lb up at 7-7-11 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 (lb/ft)
Vert: 1-5=-60, 8-10=-20, 6-7=-20
Concentrated Loads (lb)
Vert: 16=-463 (B), 17=-362 (B), 18=-362 (B), 19=-361 (B)

- NOTES**
1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Builders FirstSource (Groveland, FL), Groveland, FL - 34736, Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:06 ID:7Yuox4ASGi8TY6XqmlNxpwyJbkB-RfC?PsB70Hg3NSqPanL8w3uITXbGKWrCdoi7J4zJC? Page: 1



LUMBER		<p>5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.</p> <p>6) Bearings are assumed to be: Joint 10 SP No.2 .</p> <p>7) Refer to girder(s) for truss to truss connections.</p> <p>8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 611 lb uplift at joint 6 and 671 lb uplift at joint 10.</p> <p>9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 25 lb down and 54 lb up at 1-8-8 on top chord, and 463 lb down and 275 lb up at 1-7-11, 96 lb down and 94 lb up at 1-8-8, 362 lb down and 189 lb up at 3-7-11, and 362 lb down and 190 lb up at 5-7-11, and 359 lb down and 185 lb up at 7-7-11 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.</p> <p>10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).</p> <p>LOAD CASE(S) Standard</p> <p>1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)</p>
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x6 SP No.2	
WEBS	2x4 SP No.3 *Except* 10-1:2x6 SP No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 6-11-10 oc bracing.	
REACTIONS (size) 6= Mechanical, 10=0-7-11		
	Max Horiz 10=251 (LC 5)	
	Max Uplift 6=-611 (LC 8), 10=-671 (LC 8)	
	Max Grav 6=1081 (LC 1), 10=1168 (LC 1)	
FORCES (lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=-1442/823, 2-3=-1950/1059, 3-4=-1097/557, 4-5=-120/62, 5-6=-70/63, 1-10=-1059/619	
BOT CHORD	9-10=-333/232, 8-9=-834/1265, 7-8=-1114/1962, 6-7=-516/967	
WEBS	2-9=-101/184, 2-8=-369/838, 3-8=-140/117, 1-9=-615/1091, 4-6=-1304/771, 4-7=-586/1152, 3-7=-1103/669	

- | | | |
|--|--|--|
| <p>NOTES</p> <p>1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
 Vasd=108mph; TC DL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60</p> | <p>Uniform Loads (lb/ft)
 Vert: 1-2=-60, 2-3=-60, 3-5=-60, 6-10=-20</p> <p>Concentrated Loads (lb)
 Vert: 9=-436 (F)=-463, B=27), 8=-362 (F), 11=-362 (F), 12=-359 (F)</p> | <p>This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.</p> |
| <p>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.</p> | | |
| <p>3) Provide adequate drainage to prevent water ponding.</p> | | |
| <p>4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</p> | | |

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

November 14, 2023

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WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MII-7473 rev. 1/21/2023 BEFORE USE.

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Page: 1

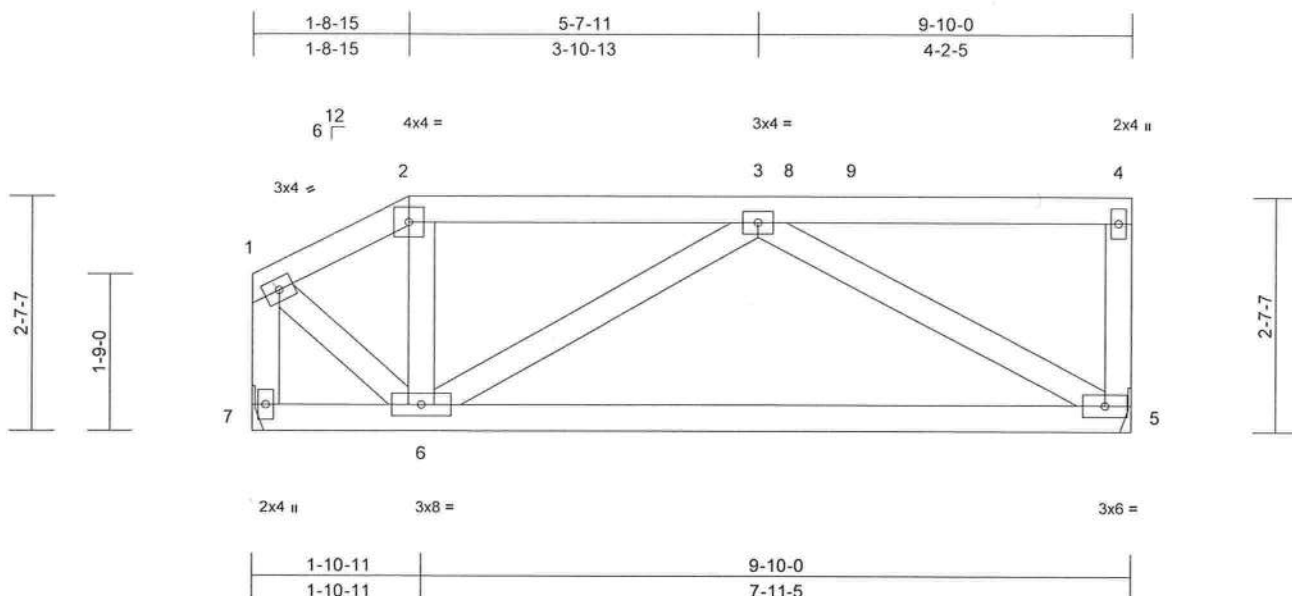
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A16	Half Hip	1	1	T32098867

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:07
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Page: 1



Scale = 1:25.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.08	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.17	5-6	>685	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	5-6	>999	240	Weight: 53 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 5= Mechanical, 7= Mechanical
Max Horiz 7=136 (LC 7)
Max Uplift 5=-215 (LC 7), 7=-179 (LC 10)
Max Grav 5=382 (LC 1), 7=382 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-392/216, 2-3=-350/229, 3-4=-73/82, 4-5=-135/139, 1-7=-474/293
BOT CHORD 6-7=-135/167, 5-6=-304/541
WEBS 2-6=-37/125, 3-6=-136/239, 3-5=-520/405, 1-6=-239/403

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-11-12 to 3-6-15, Exterior(2R) 3-6-15 to 7-9-13, Interior (1) 7-9-13 to 8-6-4, Exterior(2E) 8-6-4 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 5 and 179 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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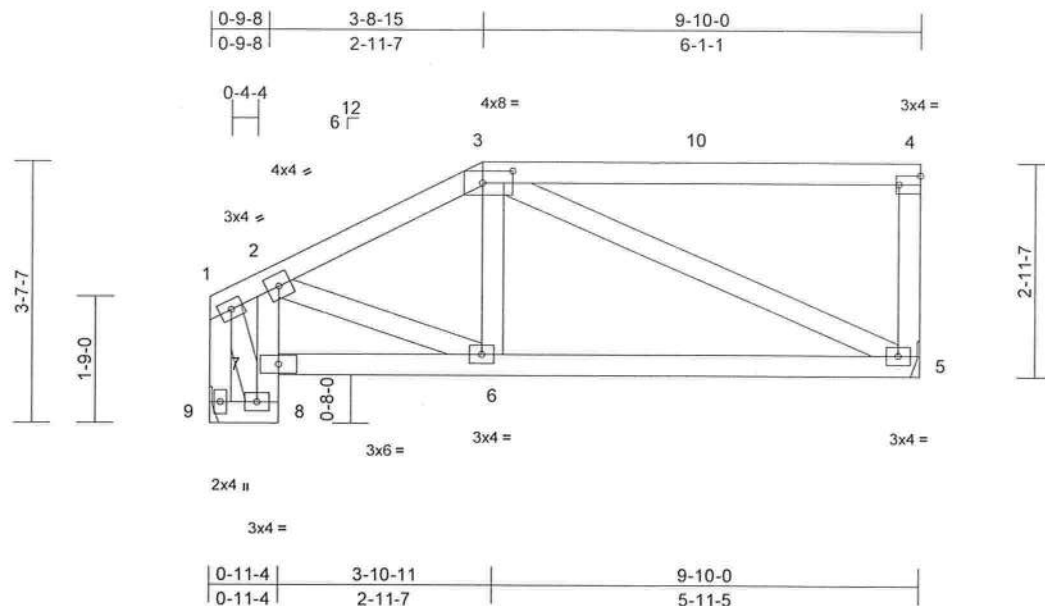
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A17	Half Hip	1	1	T32098868

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:07

Page: 1

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Scale = 1:32

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.03	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.06	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	6-7	>999	240	Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 "Except" 8-2:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 9= Mechanical
Max Horiz 9=181 (LC 7)
Max Uplift 5=-219 (LC 7), 9=-180 (LC 10)
Max Grav 5=382 (LC 24), 9=382 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-253/118, 2-3=-523/367, 3-4=-70/132, 4-5=-219/231, 1-9=-494/310
BOT CHORD 8-9=-161/235, 7-8=-209/227, 2-7=-194/233, 6-7=-264/460, 5-6=-265/572
WEBS 2-6=-138/219, 3-6=0/162, 3-5=-504/292, 1-8=-225/269

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-11-12 to 4-11-12, Exterior(2R) 4-11-12 to 8-6-4, Exterior(2E) 8-6-4 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 5 and 180 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No. 58126
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Date:

November 14, 2023

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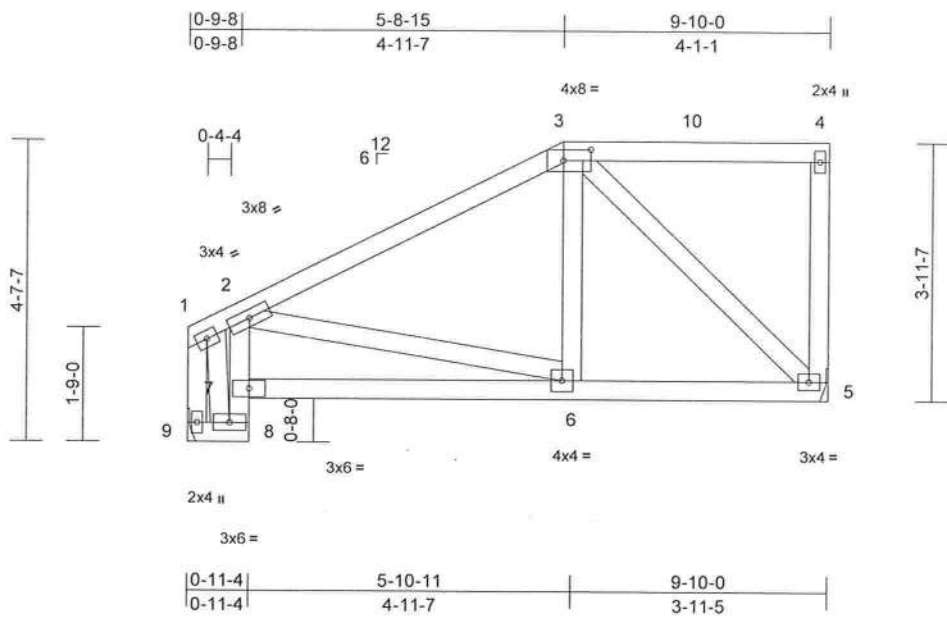
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	A18	Half Hip	1	1	T32098869

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:08
ID:eMKQjk9qVO0cwzzEC1riGiyJbkC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f

Page: 1



Scale = 1:35.4
Plate Offsets (X, Y): [3:0-5-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.04	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.02	6-7	>999	240	Weight: 61 lb	FT = 20%

- LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 8-2:2x4 SP No.3
WEBS 2x4 SP No.3
- BRACING**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
- REACTIONS** (size) 5= Mechanical, 9= Mechanical
Max Horiz 9=243 (LC 7)
Max Uplift 5=-222 (LC 7), 9=-175 (LC 10)
Max Grav 5=381 (LC 1), 9=379 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-247/93, 2-3=-387/298, 3-4=-75/124, 4-5=-122/140, 1-9=-541/329
BOT CHORD 8-9=-226/324, 7-8=-270/314, 2-7=-222/378, 6-7=-381/673, 5-6=-206/453
WEBS 2-6=-264/179, 3-6=0/204, 3-5=-516/322, 1-8=-376/370

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-11-12 to 4-11-12, Exterior(2R) 4-11-12 to 8-6-4, Exterior(2E) 8-6-4 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 5 and 175 lb uplift at joint 9.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

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November 14,2023

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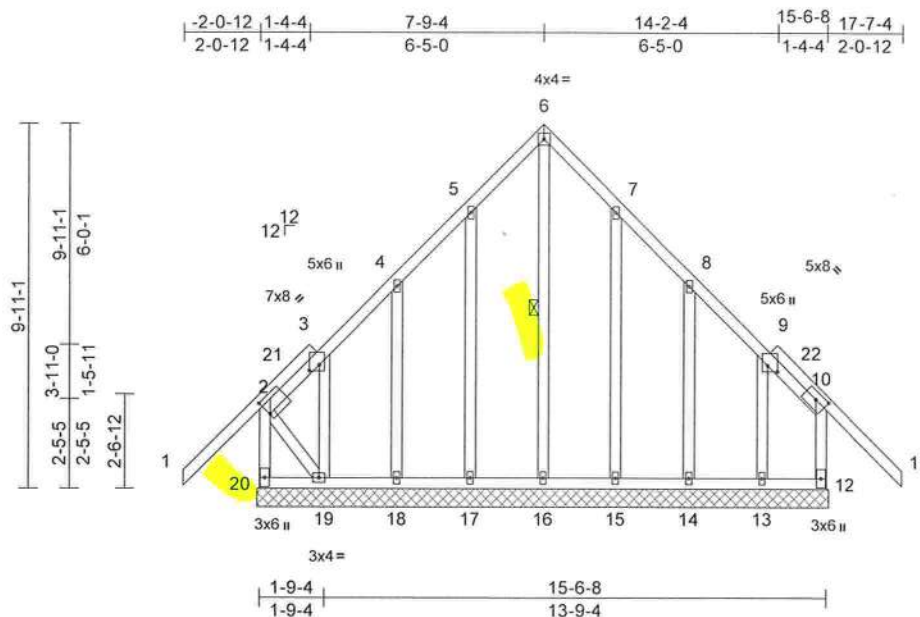
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	B1	Common Supported Gable	1	1	T32098870

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:08
ID: BX1ADdKXVVFTCbDW2JnJfUyJf7-RIC?PsB70Hq3NSgPqnl8w3uITXbGKWCDoi7J4zJC?f

Page: 1



Scale = 1:62.9

Plate Offsets (X, Y): [2:0-0-4,0-5-0], [3:0-2-0,0-3-4], [9:0-2-0,0-3-4], [10:0-3-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.00	12	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 142 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS	(size)	12=15-8-0, 13=15-8-0, 14=15-8-0, 15=15-8-0, 16=15-8-0, 17=15-8-0, 18=15-8-0, 19=15-8-0, 20=15-8-0
	Max Horiz	20=492 (LC 9)
	Max Uplift	12=222 (LC 11), 13=134 (LC 11), 14=225 (LC 11), 15=184 (LC 11), 16=291 (LC 9), 17=193 (LC 10), 18=218 (LC 10), 19=517 (LC 7), 20=782 (LC 6)
	Max Grav	12=274 (LC 19), 13=153 (LC 9), 14=211 (LC 19), 15=207 (LC 19), 16=739 (LC 11), 17=226 (LC 18), 18=184 (LC 18), 19=634 (LC 8), 20=787 (LC 9)

FORCES	(lb) - Maximum Compression/Maximum Tension	
	TOP CHORD	2-20=-763/912, 1-2=0/88, 2-3=-426/578, 3-4=-393/550, 4-5=-370/796, 5-6=-308/964, 6-7=-263/964, 7-8=-206/796, 8-9=-135/550, 9-10=-123/546, 10-11=0/94, 10-12=-287/782
	BOT CHORD	19-20=-475/443, 18-19=-86/197, 17-18=-86/197, 16-17=-86/197, 15-16=-86/197, 14-15=-86/197, 13-14=-86/197, 12-13=-86/197

WEBS	6-16=-1198/331, 5-17=-207/221, 4-18=-203/340, 3-19=-202/92, 7-15=-208/221, 8-14=-201/340, 9-13=-215/108, 2-19=-633/631
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NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 4-10-0, Corner(3R) 4-10-0 to 10-10-0, Exterior(2N) 10-10-0 to 14-8-0, Corner(3E) 14-8-0 to 17-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 782 lb uplift at joint 20, 222 lb uplift at joint 12, 291 lb uplift at joint 16, 193 lb uplift at joint 17, 218 lb uplift at joint 18, 517 lb uplift at joint 19, 184 lb uplift at joint 15, 225 lb uplift at joint 14 and 134 lb uplift at joint 13.

LOAD CASE(S) Standard

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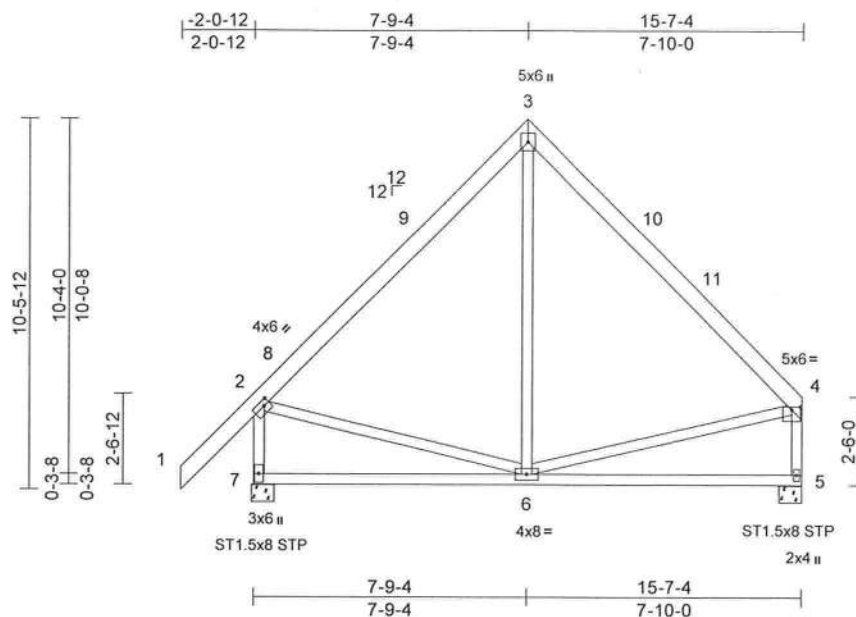
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	B2	Common	5	1	T32098871

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:08
ID:010aKIRc4SjZcag?uwwfgyJlDa-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?l

Page: 1



Scale = 1:65.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.07	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.15	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	-0.01	5-6	>999	240	Weight: 126 lb	FT = 20%

LUMBER

TOP CHORD 2x6 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 8-4-12 oc bracing.

REACTIONS

(size) 5=0-7-11, 7=0-7-11
Max Horiz 7=477 (LC 7)
Max Uplift 5=-244 (LC 10), 7=-295 (LC 10)
Max Grav 5=603 (LC 1), 7=755 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/94, 2-3=-622/317, 3-4=-616/293,
2-7=-731/505, 4-5=-670/312
BOT CHORD 6-7=-485/480, 5-6=-115/144
WEBS 3-6=-2/263, 2-6=-166/382, 4-6=-163/335

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 12-6-4, Exterior(2E) 12-6-4 to 15-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 295 lb uplift at joint 7 and 244 lb uplift at joint 5.

LOAD CASE(S) Standard

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Date:

November 14, 2023

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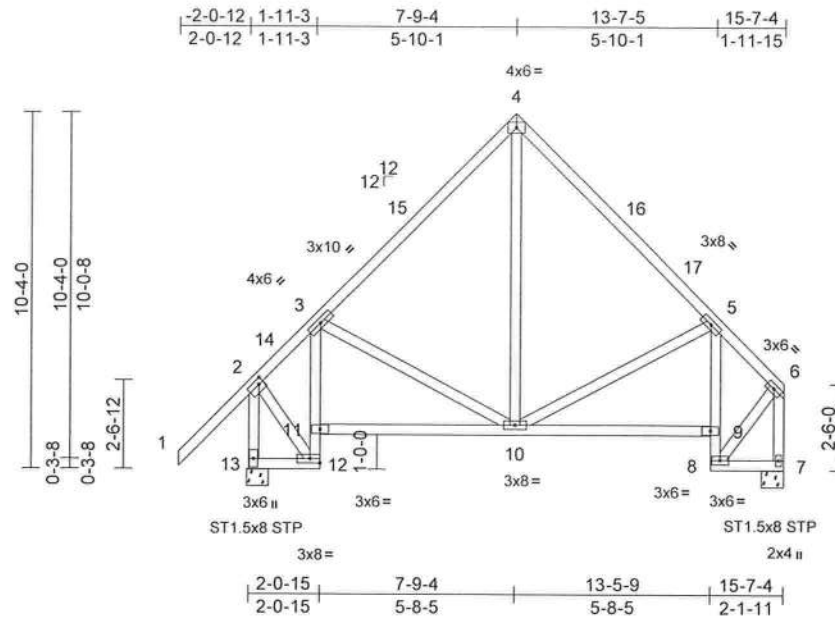
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Job	Truss	Truss Type	Qty	Ply	
3698546	B3	Roof Special	3	1	T32098872
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:09
ID: CmLi2OoVTayXgxpj79R9wVyJiBp-RfC?PsB70Hq3NSgPqnl8w3ulTXbGKwCDoi7J4zJC?I

Page: 1



Scale = 1:67.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.04	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.08	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.11	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.05	10-11	>999	240	Weight: 119 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 12-3,5-8:2x4 SP No.3
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) 7=0-7-11, 13=0-7-11
	Max Horiz 13=484 (LC 7)
	Max Uplift 7=-245 (LC 10), 13=-294 (LC 10)
	Max Grav 7=603 (LC 1), 13=755 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/94, 2-3=-488/259, 3-4=-661/344, 4-5=-661/346, 5-6=-465/244, 2-13=-869/480, 6-7=-796/298

BOT CHORD	12-13=-443/378, 11-12=-349/105, 3-11=-302/127, 10-11=-469/619, 9-10=-210/523, 8-9=-367/155, 5-9=-331/182, 7-8=-54/81
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WEBS	4-10=-176/382, 5-10=-254/358, 3-10=-302/372, 2-12=-116/558, 6-8=-215/591
------	--

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 12-6-4, Exterior(2E) 12-6-4 to 15-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 13 and 245 lb uplift at joint 7.

LOAD CASE(S) Standard

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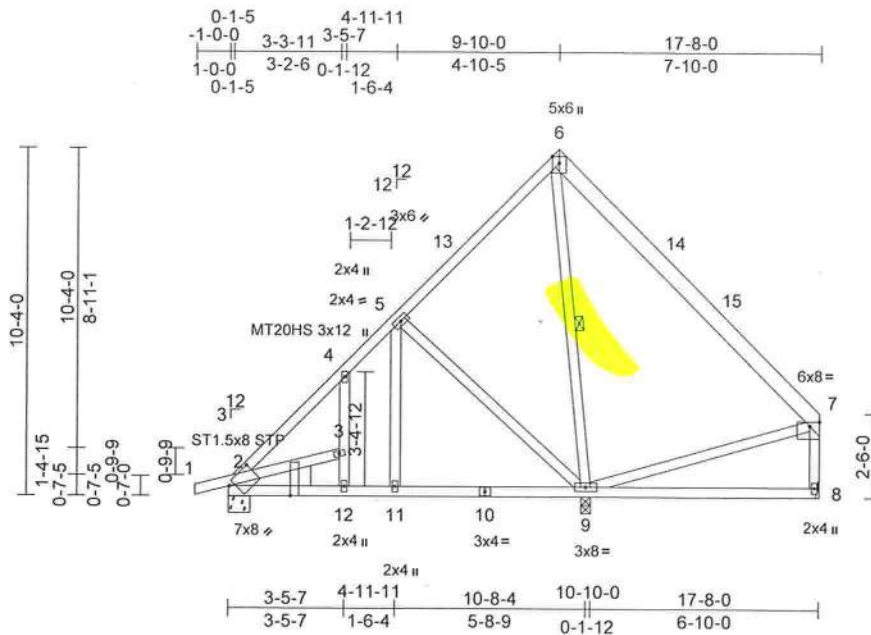
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	B4	Roof Special	1	1	T32098873

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:09
ID: iDnZHXpuEDRXSGrS3LkoSQyJcB2-RIC?Psb70Hq3NSgPqnL8w3ulTXbGKwCDoi7J4zJC7f

Page: 1



Scale = 1:68.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-9-8,0-1-1], [7:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.05	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.10	8-9	>791	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	2-12	>999	240	Weight: 138 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-7:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 8-7:2x4 SP No.2
WEDGE Left: 2x8 SP 2400F 2.0E

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 6-9

REACTIONS (size) 2=0-7-11, 8= Mechanical, 9=0-3-8
Max Horiz 2=434 (LC 9)
Max Uplift 2=-199 (LC 11), 8=-125 (LC 11), 9=-293 (LC 10)
Max Grav 2=529 (LC 1), 8=327 (LC 25), 9=633 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-9/10, 2-4=-514/277, 4-5=-413/332, 5-6=-270/336, 6-7=-225/184, 7-8=-272/264
BOT CHORD 2-12=-240/420, 11-12=-243/416, 9-11=-243/416, 8-9=-133/140
WEBS 5-11=-18/190, 5-9=-370/381, 6-9=-291/105, 7-9=-223/437, 3-12=-71/93, 3-4=-57/79

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 0-3-9, Interior (1) 0-3-9 to 6-10-0, Exterior(2R) 6-10-0 to 12-10-0, Interior (1) 12-10-0 to 14-6-4, Exterior(2E) 14-6-4 to 17-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 9 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 2, 125 lb uplift at joint 8 and 293 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

November 14, 2023

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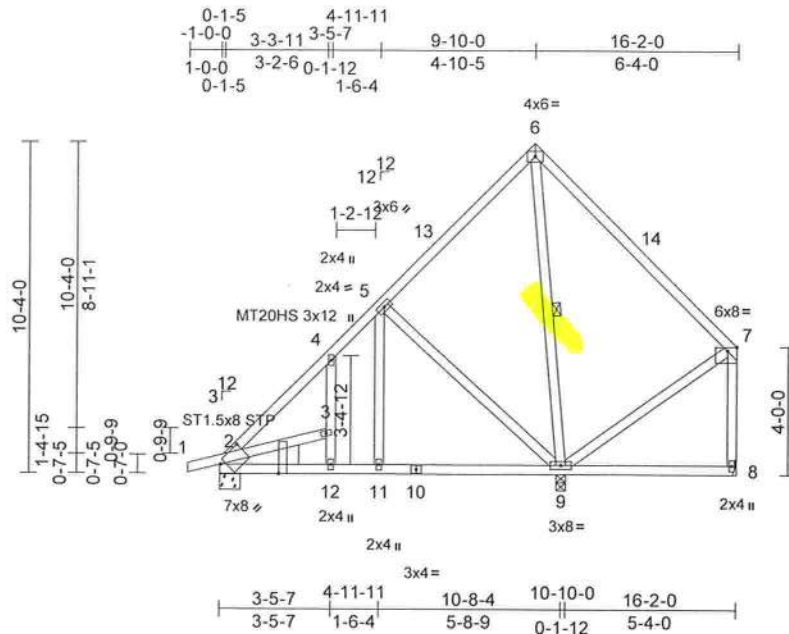
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
3698546	B5	Roof Special	1	1	T32098874
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:09
ID: dRhvAlBro2ZYNgbiDCKN09yJcD8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwCDoi7J4zJC?i

Page: 1



Scale = 1:72.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-9-8,0-1-1], [7:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.02	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.03	8-9	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	-0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	2-12	>999	240	Weight: 125 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 6-7:2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
WEDGE	Left: 2x8 SP 2400F 2.0E

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 6-9
REACTIONS	(size) 2=0-7-11, 8= Mechanical, 9=0-3-8
	Max Horiz 2=467 (LC 9)
	Max Uplift 2=-167 (LC 10), 8=-63 (LC 11), 9=-331 (LC 10)
	Max Grav 2=510 (LC 1), 8=245 (LC 25), 9=604 (LC 18)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/19, 2-3=-10/10, 2-4=-492/254, 4-5=-393/308, 5-6=-241/311, 6-7=-159/207, 7-8=-203/147
BOT CHORD	2-12=-268/409, 11-12=-271/405, 9-11=-271/405, 8-9=-100/120
WEBS	5-11=-11/207, 5-9=-379/401, 6-9=-317/102, 7-9=-202/415, 3-12=-77/87, 3-4=-62/72

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 0-3-9, Interior (1) 0-3-9 to 6-10-0, Exterior(2R) 6-10-0 to 13-0-4, Exterior(2E) 13-0-4 to 16-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 9 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 2, 63 lb uplift at joint 8 and 331 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.55126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14,2023

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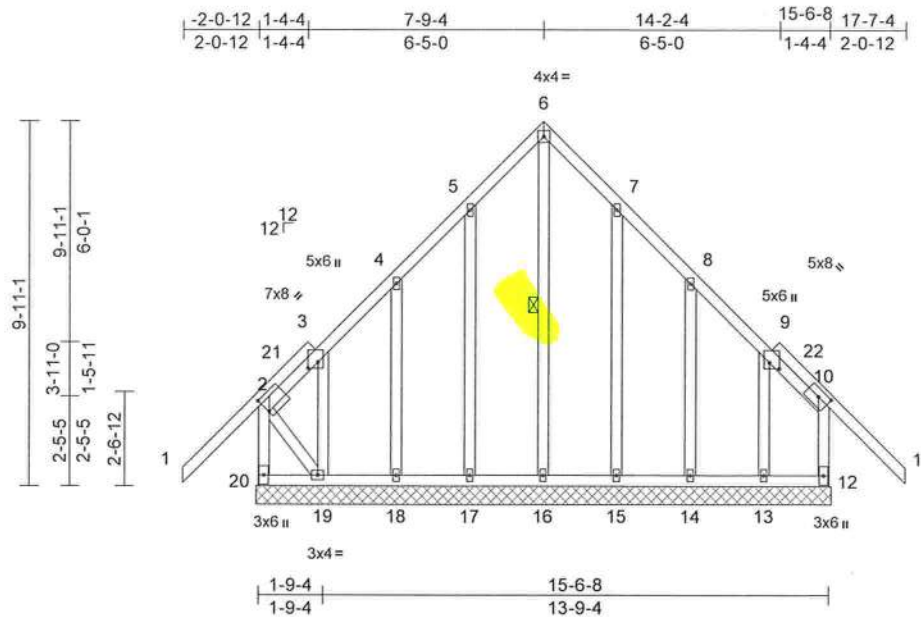
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	C1	Common Supported Gable	1	1	T32098878

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:11
ID:xDrABDeGMBP39Uj67iz?1yJhca-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwCd0i7J4zJC?f

Page: 1



Scale = 1:62.9

Plate Offsets (X, Y): [2-0-0-4,0-5-0], [3-0-2-0,0-3-4], [9-0-2-0,0-3-4], [10-0-3-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.00	12	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 142 lb FT = 20%

LUMBER

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

BRACING

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

WEBS	1 Row at midpt 6-16
------	---------------------

REACTIONS (size)	12=15-8-0, 13=15-8-0, 14=15-8-0, 15=15-8-0, 16=15-8-0, 17=15-8-0, 18=15-8-0, 19=15-8-0, 20=15-8-0
Max Horiz	20=492 (LC 9)
Max Uplift	12=222 (LC 11), 13=134 (LC 11), 14=225 (LC 11), 15=184 (LC 11), 16=291 (LC 9), 17=193 (LC 10), 18=218 (LC 10), 19=517 (LC 7), 20=782 (LC 6)
Max Grav	12=274 (LC 19), 13=153 (LC 9), 14=211 (LC 19), 15=207 (LC 19), 16=739 (LC 11), 17=226 (LC 18), 18=184 (LC 18), 19=634 (LC 8), 20=787 (LC 9)

FORCES	(lb) - Maximum Compression/Maximum Tension
--------	--

TOP CHORD	2-20=-763/912, 1-2=0/88, 2-3=-426/578, 3-4=-393/550, 4-5=-370/796, 5-6=-308/964, 6-7=-263/964, 7-8=-206/796, 8-9=-135/550, 9-10=-123/546, 10-11=0/94, 10-12=-287/782
BOT CHORD	19-20=-475/443, 18-19=-86/197, 17-18=-86/197, 16-17=-86/197, 15-16=-86/197, 14-15=-86/197, 13-14=-86/197, 12-13=-86/197

WEBS	6-16=-1198/331, 5-17=-207/221, 4-18=-203/340, 3-19=-202/92, 7-15=-208/221, 8-14=-201/340, 9-13=-215/108, 2-19=-633/631
------	--

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 4-10-0, Corner(3R) 4-10-0 to 10-10-0, Exterior(2N) 10-10-0 to 14-8-0, Corner(3E) 14-8-0 to 17-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 782 lb uplift at joint 20, 222 lb uplift at joint 12, 291 lb uplift at joint 16, 193 lb uplift at joint 17, 218 lb uplift at joint 18, 517 lb uplift at joint 19, 184 lb uplift at joint 15, 225 lb uplift at joint 14 and 134 lb uplift at joint 13.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
MiTek Inc. DEB MiTek USA FL Cert 6624
16023 Swingle Ridge Rd. Chesterfield, MO 63017
Date:

November 14,2023

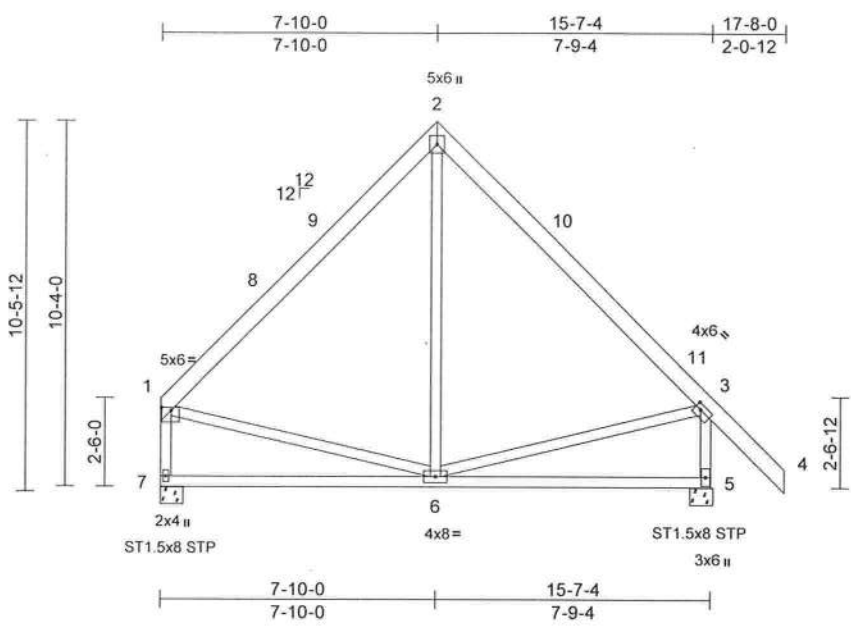
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	
3698546	C2	Common	1	1	T32098879
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736, Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:11 ID:XBdUhp0Jyt150HwMgQ8IFIZyJhc5-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J4zJC?f Page: 1



Scale = 1:65.3
Plate Offsets (X, Y): [1:0-3-4,0-1-0], [3:0-2-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.07	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.14	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	-0.01	6-7	>999	240	Weight: 126 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-2 oc bracing.

REACTIONS (size) 5=0-7-11, 7=0-7-11
Max Horiz 7=-463 (LC 6)
Max Uplift 5=-294 (LC 11), 7=-245 (LC 11)
Max Grav 5=755 (LC 1), 7=603 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-616/294, 2-3=-621/320, 3-4=0/94, 1-7=-647/343, 3-5=-755/474
BOT CHORD 6-7=-427/507, 5-6=-98/179
WEBS 2-6=-7/264, 1-6=-153/327, 3-6=-172/384

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.2 .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 7 and 294 lb uplift at joint 5.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 14-8-0, Exterior(2E) 14-8-0 to 17-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

November 14,2023

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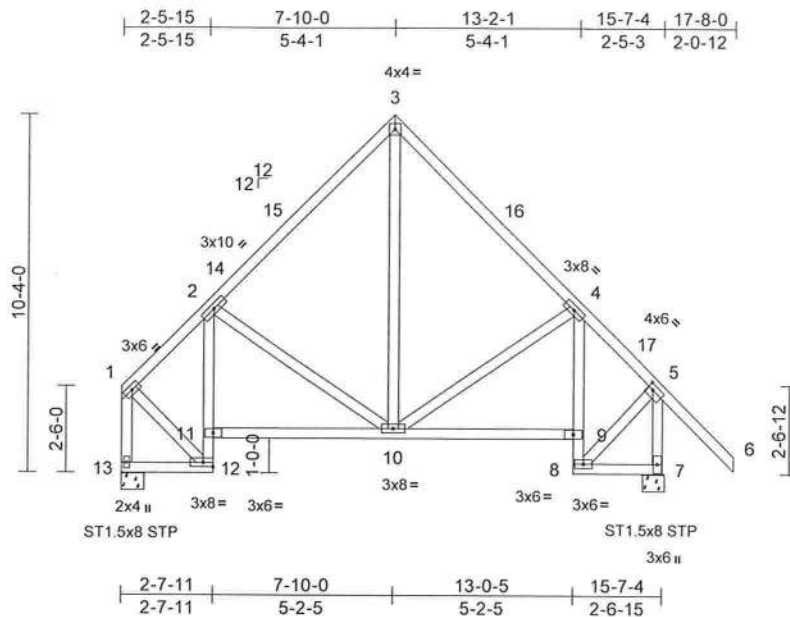
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	C3	Roof Special	5	1	T32098880
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:12
ID:UwzynyZ3HTc2gDHVO0vpenwyJhak-RfC?PsB70Hq3NSgPqnl8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.65	0.05	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.09	10-11	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.15	7	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 120 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 "Except" 12-2,4-8:2x4 SP No.3
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 2-2-0 oc bracing.

REACTIONS

(size)	7=0-7-11, 13=0-7-11
Max Horiz	13=-469 (LC 8)
Max Uplift	7=-293 (LC 11), 13=-246 (LC 11)
Max Grav	7=755 (LC 1), 13=603 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-581/200, 2-3=-662/328, 3-4=-662/332, 4-5=-494/328, 5-6=0/94, 1-13=-770/285, 5-7=-867/432
BOT CHORD	12-13=-425/441, 11-12=-251/214, 2-11=-204/222, 10-11=-367/669, 9-10=-34/530, 8-9=-325/74, 4-9=-302/97, 7-8=-73/152
WEBS	3-10=-199/429, 4-10=-223/321, 2-10=-293/342, 1-12=-226/457, 5-8=-90/577

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 14-8-0, Exterior(2E) 14-8-0 to 17-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 13 and 293 lb uplift at joint 7.
- LOAD CASE(S) Standard

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

November 14,2023

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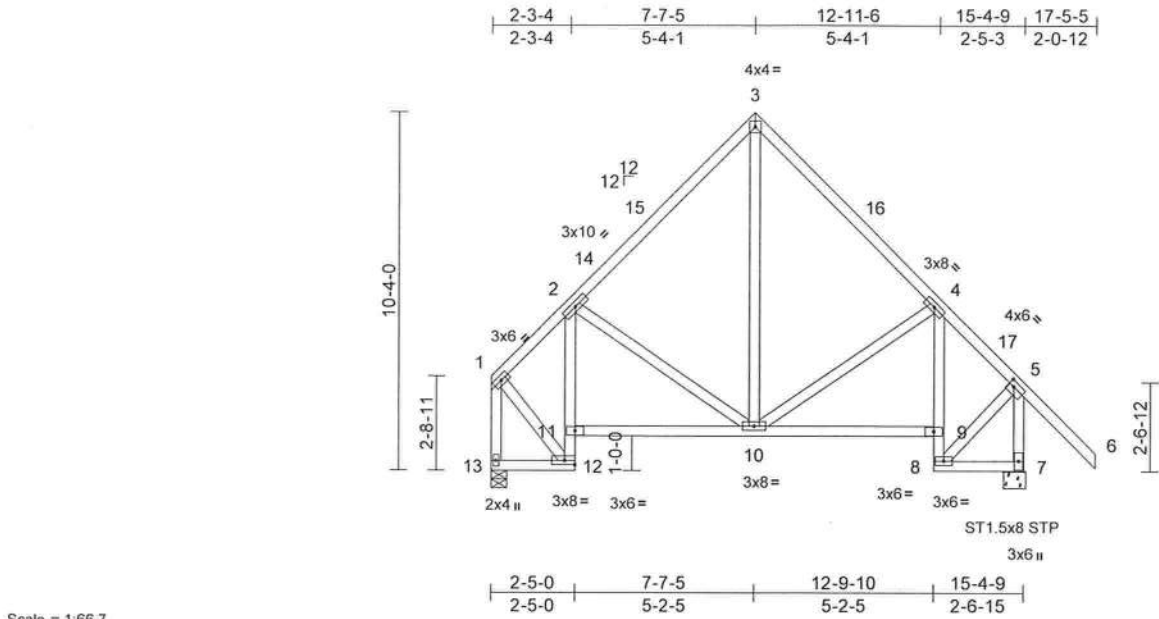
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	C4	Roof Special	3	1	T32098881

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,
Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:12

ID:UT1d4BUcT3LrIW6w?2Qd95yJhaC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
Page: 1



Scale = 1:66.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.05	10-11	>999	240	
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.09	10-11	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.14	7	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 120 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 12-2,4-8:2x4 SP No.3

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 2-2-0 oc bracing.

REACTIONS (size) 7=0-7-11, 13=0-5-8

Max Horiz 13=-488 (LC 8)

Max Uplift 7=-290 (LC 11), 13=-245 (LC 11)

Max Grav 7=746 (LC 1), 13=594 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-538/189, 2-3=-651/322, 3-4=-651/323, 4-5=-487/326, 5-6=0/94, 1-13=-768/277, 5-7=-858/429

BOT CHORD 12-13=-430/450, 11-12=-289/252, 2-11=-240/259, 10-11=-374/649, 9-10=-33/525, 8-9=-322/70, 4-9=-298/93, 7-8=-73/152

WEBS 3-10=-186/418, 4-10=-225/322, 2-10=-287/319, 1-12=-244/467, 5-8=-85/571

NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=5.0psf, h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior (1) 3-4-7 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 14-8-0, Exterior(2E) 14-8-0 to 17-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

6) All bearings are assumed to be SP No.2 .

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 13 and 290 lb uplift at joint 7.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
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Date:

November 14,2023

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MiTek®

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Builders FirstSource (Groveland, FL), Groveland, FL - 34736, Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:12 Page: 1
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LUMBER		2) Wind: ASCE 7-16; Vult=140mph (3-second gust)	
TOP CHORD	2x4 SP No.2	Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat.	
BOT CHORD	2x4 SP No.2	II; Exp C; Enclosed; MWFRS (envelope) exterior zone	
WEBS	2x4 SP No.3	and C-C Exterior(2E) 0-1-12 to 4-7-1, Exterior(2R) 4-7-1	
BRACING		to 10-7-5, Interior (1) 10-7-5 to 14-5-5, Exterior(2E)	
TOP CHORD	Structural wood sheathing directly applied or	14-5-5 to 17-5-5 zone; cantilever left and right exposed ;	
	6-0-0 oc purlins, except end verticals.	end vertical left and right exposed;C-C for members and	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc	forces & MWFRS for reactions shown; Lumber	
	bracing.	DOL=1.60 plate grip DOL=1.60	
REACTIONS		3) Building Designer / Project engineer responsible for	
	(size) 9=0-7-11, 16=0-5-8	verifying applied roof live load shown covers rain loading	
	Max Horiz 16=-516 (LC 8)	requirements specific to the use of this truss component.	
	Max Uplift 9=-311 (LC 11), 16=-593 (LC 11)	4) Provide adequate drainage to prevent water ponding.	
	Max Grav 9=785 (LC 1), 16=1292 (LC 19)	5) This truss has been designed for a 10.0 psf bottom	
FORCES		chord live load nonconcurrent with any other live loads.	
	(lb) - Maximum Compression/Maximum	6) * This truss has been designed for a live load of 20.0psf	
	Tension	on the bottom chord in all areas where a rectangle	
TOP CHORD	1-16=-500/190, 1-2=-97/46, 2-15=-1435/480,	3-06-00 tall by 2-00-00 wide will fit between the bottom	
	2-3=-310/22, 3-4=-237/18, 4-5=-731/333,	chord and any other members.	
	5-6=-730/361, 6-7=-552/318, 7-8=0/91,	7) All bearings are assumed to be SP No.2 .	
	7-9=-922/419	8) Provide mechanical connection (by others) of truss to	
BOT CHORD	15-16=-406/1201, 14-15=-109/235,	bearing plate capable of withstanding 593 lb uplift at joint	
	13-14=-68/198, 4-13=-532/1818,	16 and 311 lb uplift at joint 9.	
	12-13=-428/855, 11-12=-49/573,	9) Hanger(s) or other connection device(s) shall be	
	10-11=-335/83, 6-11=-310/107, 9-10=-71/149	provided sufficient to support concentrated load(s) 1019	
WEBS		lb down and 395 lb up at 1-0-5 on top chord. The	
	2-16=-1462/666, 4-12=-454/426,	design/selection of such connection device(s) is the	
	5-12=-244/519, 6-12=-216/318,	responsibility of others.	
	7-10=-108/609, 2-4=-2259/864,		
	2-13=-511/345, 13-15=-501/1495		

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

November 14, 2023

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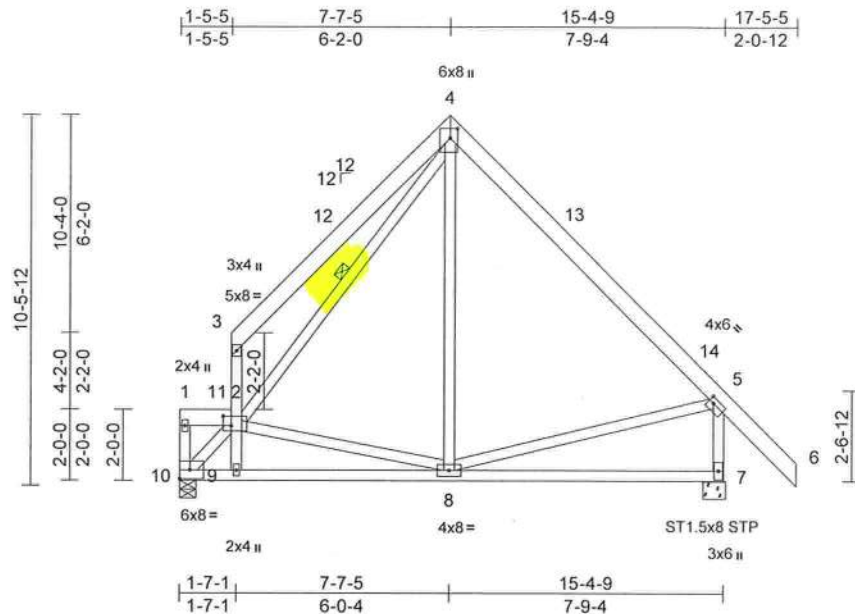
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	C6	Roof Special	1	1	T32098883

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:13
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Page: 1



Scale = 1/65.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.09	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.17	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.02	8-9	>999	240	Weight: 142 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-12 oc bracing.

WEBS 1 Row at midpt 2-4

REACTIONS (size) 7=0-7-11, 10=0-5-8
Max Horiz 10=-549 (LC 8)
Max Uplift 7=-321 (LC 11), 10=-583 (LC 11)
Max Grav 7=787 (LC 1), 10=1282 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-530/214, 1-2=-85/41, 2-9=0/134, 2-3=-421/454, 3-4=-401/452, 4-5=-681/334, 5-6=0/94, 5-7=-811/477
BOT CHORD 9-10=-438/1235, 8-9=-430/1228, 7-8=-99/187
WEBS 2-10=-1451/639, 2-4=-520/226, 2-8=-850/478, 4-8=-98/372, 5-8=-158/409

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 4-6-14, Exterior(2R) 4-6-14 to 10-7-5, Interior (1) 10-7-5 to 14-5-5, Exterior (2E) 14-5-5 to 17-5-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 583 lb uplift at joint 10 and 321 lb uplift at joint 7.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1019 lb down and 397 lb up at 1-0-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 3-4=-60, 4-5=-60, 5-6=-60, 7-10=-20
Concentrated Loads (lb)
Vert: 11=-700

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Date:

November 14, 2023

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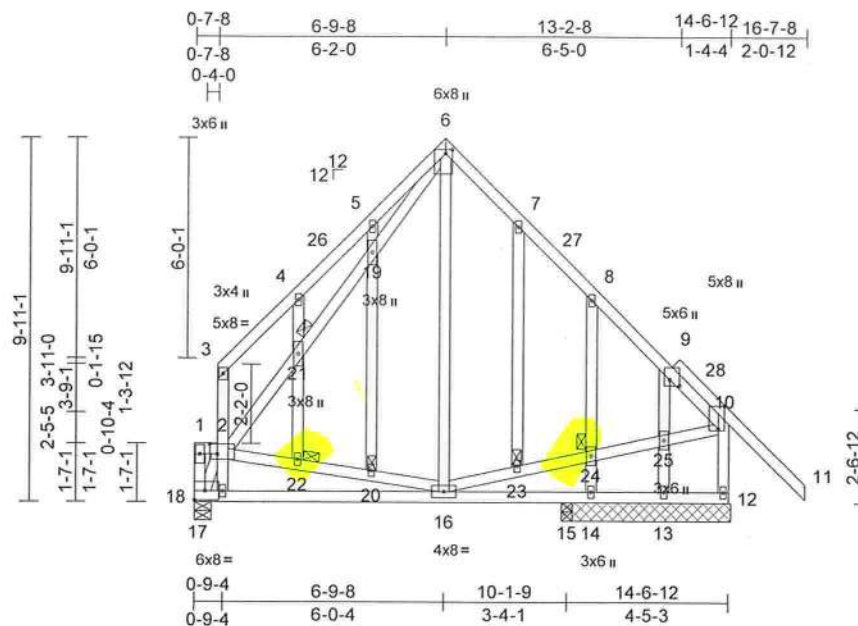
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	C7	Roof Special Structural Gable	1	1	T32098884

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:13
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Page: 1



Scale = 1:63

Plate Offsets (X, Y): [2-0-2-8,0-3-4], [6-0-1-4,Edge], [9-0-2-0,0-3-4], [10-0-7-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.03	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.01	16-17	>999	240	Weight: 158 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 6-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 20, 21, 22, 23, 24

REACTIONS	(size)	
	12=4-7-11, 13=4-7-11, 14=4-7-11, 15=0-3-8, 18=0-5-8	
Max Horiz	18=488 (LC 6)	
Max Uplift	12=-178 (LC 7), 13=-55 (LC 6), 14=-348 (LC 11), 15=-16 (LC 10), 18=-511 (LC 11)	
Max Grav	12=498 (LC 18), 13=80 (LC 7), 14=319 (LC 19), 15=76 (LC 3), 18=1258 (LC 18)	

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-18=-1091/461, 1-2=-39/19, 2-17=0/259, 2-3=-328/331, 3-4=-318/330, 4-5=-330/431, 5-6=-374/538, 6-7=-356/322, 7-8=-388/271, 8-9=-349/156, 9-10=-409/184, 10-11=0/88, 10-12=-484/220
BOT CHORD	17-18=-314/566, 16-17=-301/573, 15-16=-50/93, 14-15=-50/93, 13-14=-50/93, 12-13=-50/93

WEBS	2-18=-569/233, 2-21=-321/133, 19-21=-355/149, 6-19=-395/170, 2-22=-270/236, 20-22=-281/248, 16-20=-300/270, 6-16=-140/205, 16-23=-175/350, 23-24=-154/341, 24-25=-167/336, 10-25=-166/349, 5-19=-109/134, 19-20=-79/86, 4-21=-104/126, 21-22=-61/66, 7-23=-82/119, 8-24=-314/299, 14-24=-405/377, 9-25=-179/71, 13-25=-127/69
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- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf, BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-9-4, Exterior(2R) 3-9-4 to 9-9-8, Interior (1) 9-9-8 to 13-7-8, Exterior(2E) 13-7-8 to 16-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 511 lb uplift at joint 18, 178 lb uplift at joint 12, 348 lb uplift at joint 14, 55 lb uplift at joint 13 and 16 lb uplift at joint 15.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1019 lb down and 423 lb up at 0-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 3-6=-60, 6-10=-60, 10-11=-60, 12-18=-20
Concentrated Loads (lb)
Vert: 1=-700

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Date:

November 14,2023

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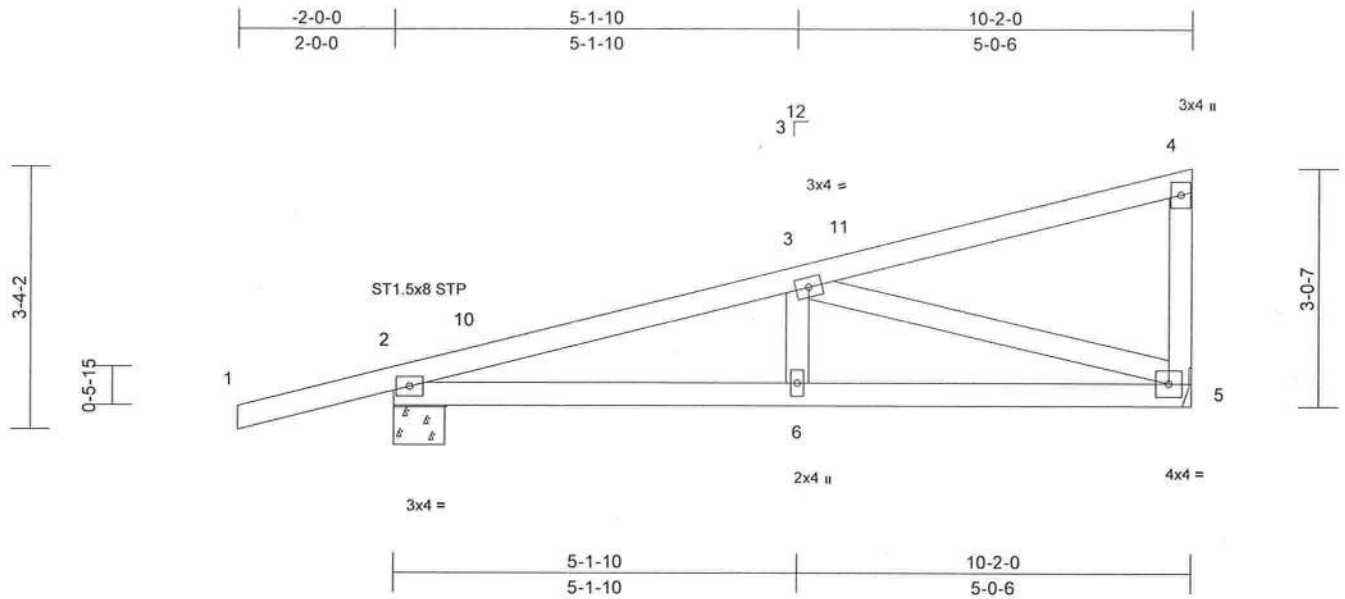
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	C8	Roof Special	2	1	T32098885

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:14
ID:MQYenIGAUUEISSr1LN9IGEYJgUm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.02	6	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.04	5-6	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	5	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.03	5-6	>999	240	
										Weight: 46 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=0-7-11, 5= Mechanical
Max Horiz 2=183 (LC 9)
Max Uplift 2=-359 (LC 6), 5=-206 (LC 6)
Max Grav 2=533 (LC 1), 5=389 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/29, 2-3=-868/581, 3-4=-110/76, 4-5=-169/206
BOT CHORD 2-6=-561/950, 5-6=-561/950
WEBS 3-6=0/200, 3-5=-900/625

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf, BCDL=5.0psf, h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 5-9-5, Exterior(2R) 5-9-5 to 10-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 5 and 359 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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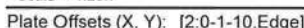
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14,2023

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Page: 1

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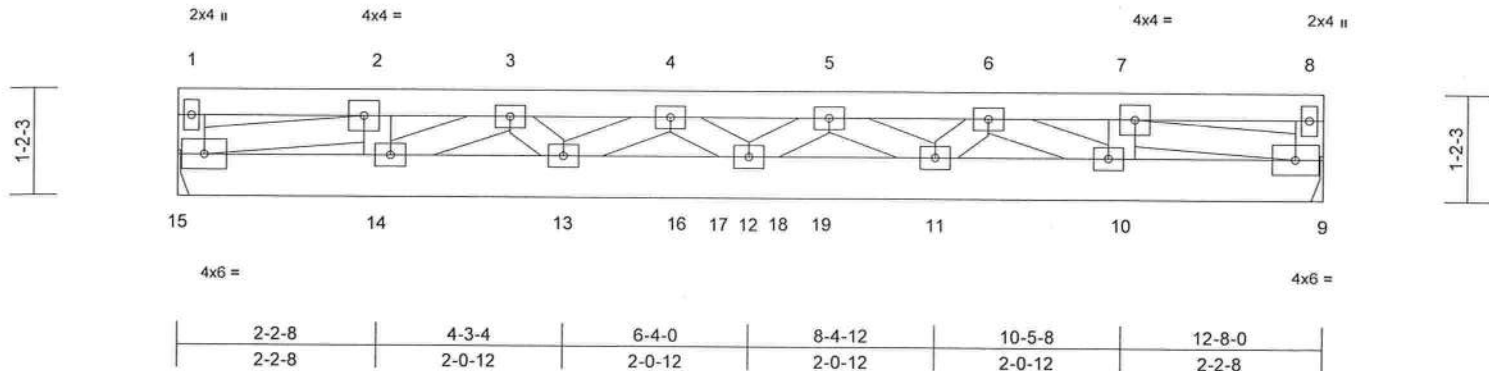
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	C10	Flat Girder	1	2	T32098887

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:14
ID:DxT1oMrj?11gSjYbdMzRA3yJgXu-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f

Page: 1

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



Scale = 1:25.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.11	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.20	12	>773	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.17	12	>903	240	Weight: 139 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-6-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-8-2 oc bracing.
REACTIONS	
(size)	9= Mechanical, 15= Mechanical
Max Uplift	9=-783 (LC 4), 15=-790 (LC 4)
Max Grav	9=1236 (LC 1), 15=1248 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-15/12, 2-3=-2801/1797, 3-4=-5336/3473, 4-5=-6958/4577, 5-6=-5259/3424, 6-7=-2774/1780, 7-8=-15/12
BOT CHORD	14-15=-1797/2801, 13-14=-3036/4661, 12-13=-4157/6323, 11-12=-4136/6290, 10-11=-2997/4600, 9-10=-1780/2774
WEBS	1-15=-87/67, 8-9=-87/67, 2-14=-560/921, 2-15=-2965/1901, 3-14=-2120/1412, 3-13=-741/1143, 4-13=-1196/829, 4-12=-571/860, 5-12=-600/905, 5-11=-1248/862, 6-11=-724/1117, 7-10=-555/912, 6-10=-2081/1387, 7-9=-2936/1882

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 790 lb uplift at joint 15 and 783 lb uplift at joint 9.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 174 lb down and 153 lb up at 5-6-5, 452 lb down and 300 lb up at 6-0-0, 594 lb down and 499 lb up at 6-4-0, and 345 lb down and 348 lb up at 6-8-0, and 174 lb down and 153 lb up at 7-1-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-8=-60, 9-15=-20
Concentrated Loads (lb)

Vert: 12=-468 (B), 16=-174 (B), 17=-452 (B), 18=-220 (B), 19=-174 (B)

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

November 14, 2023

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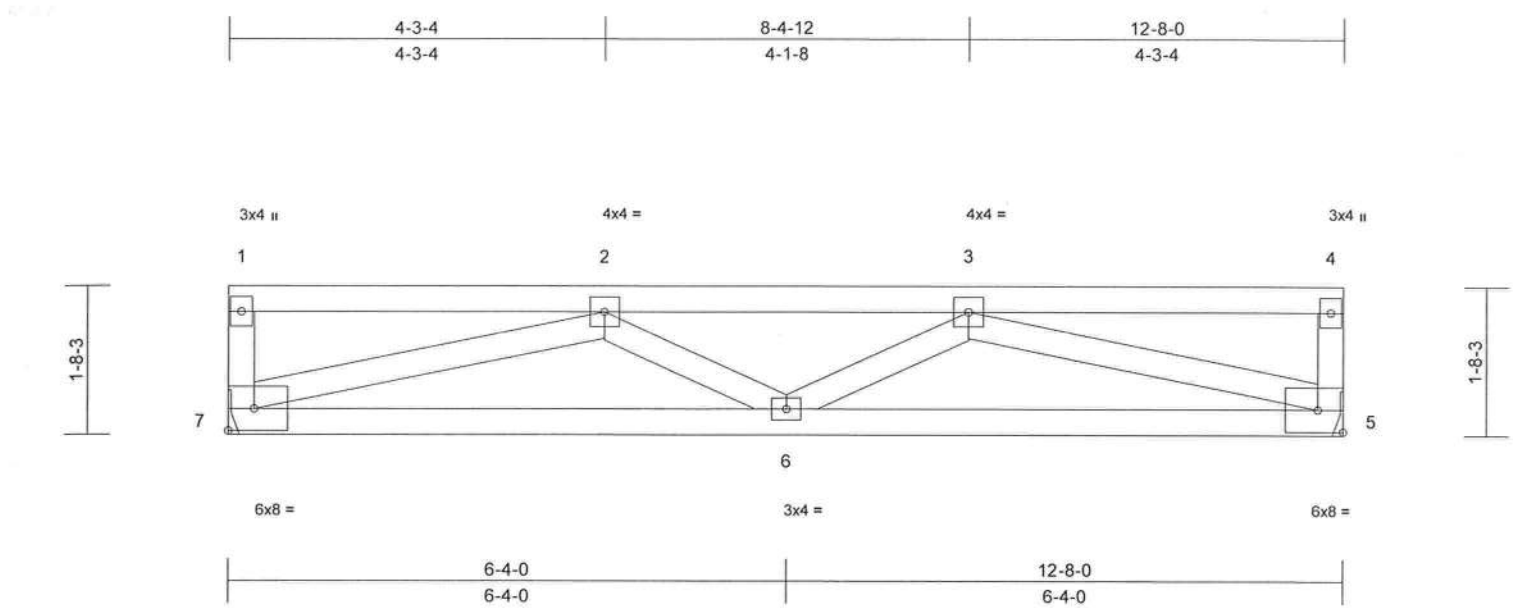
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	C11	Flat	1	1	T32098888

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,
Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:14

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.04	6-7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.09	6-7	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	-0.02	5	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.08	6	>999	240	Weight: 60 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, except end verticals.	
BOT CHORD	Rigid ceiling directly applied.	
REACTIONS		(size) 5= Mechanical, 7= Mechanical
	Max Horiz	7=79 (LC 7)
	Max Uplift	5=-265 (LC 7), 7=-265 (LC 6)
	Max Grav	5=495 (LC 1), 7=495 (LC 1)
FORCES		(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-7=-134/233, 1-2=-117/56, 2-3=-1156/1360, 3-4=-83/127, 4-5=-133/234	
BOT CHORD	6-7=-1330/1120, 5-6=-1352/1104	
WEBS	2-6=0/237, 2-7=-1009/1435, 3-6=0/237, 3-5=-1048/1383	

- NOTES**
- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-06-00 tall by 2-00-00 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 265 lb uplift at joint 7 and 265 lb uplift at joint 5.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

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

November 14,2023

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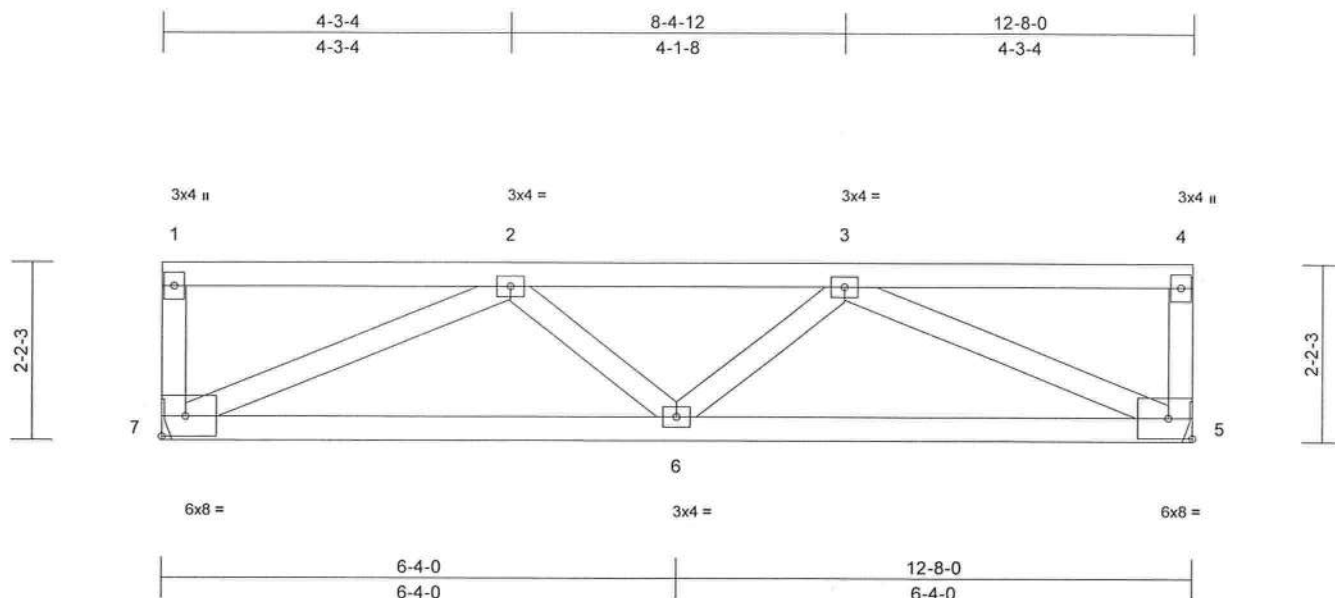
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	C12	Flat	1	1	T32098889

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:15
ID: VxIYRhucM3Ck5kbb3_9Z?cyJgZ6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:28.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.03	6-7	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.07	6-7	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	-0.02	5	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.04	6	>999	240	
										Weight: 63 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 7= Mechanical
Max Horiz 7=-107 (LC 6)
Max Uplift 5=-268 (LC 7), 7=-268 (LC 6)
Max Grav 5=495 (LC 1), 7=495 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-129/224, 1-2=-96/46, 2-3=-866/1022,
3-4=-61/108, 4-5=-126/227
BOT CHORD 6-7=-937/870, 5-6=-965/848
WEBS 2-6=0/201, 2-7=-782/1147, 3-6=0/201,
3-5=-839/1071

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone
and C-C Corner (3) zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 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'-06"-00" tall by 2'-00"-00" 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 268 lb uplift at joint
7 and 268 lb uplift at joint 5.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

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

November 14, 2023

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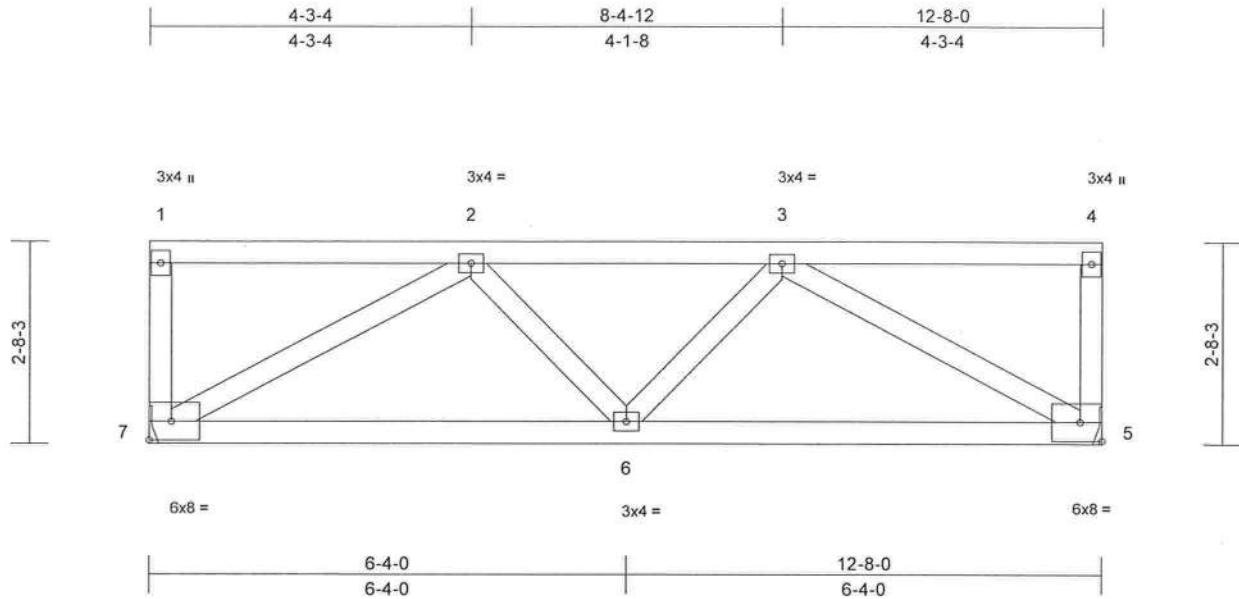
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	C13	Flat	1	1	T32098890

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:15
ID:KMeFGYADy76TMGr0vJ4yRTyJgYI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwvCDoi7J4zJC?fi

Page: 1



Scale = 1:30.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.03	6-7	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.07	6-7	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	5	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.03	5-6	>999	240	
										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, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(size) 5= Mechanical, 7= Mechanical
	Max Horiz 7=-135 (LC 6)
	Max Uplift 5=-273 (LC 7), 7=-273 (LC 6)
	Max Grav 5=495 (LC 1), 7=495 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-7=-127/217, 1-2=-99/49, 2-3=-692/820, 3-4=-60/109, 4-5=-122/224
BOT CHORD	6-7=-689/728, 5-6=-725/702
WEBS	2-6=0/182, 2-7=-645/984, 3-6=0/182, 3-5=-721/883

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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'-0"-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 273 lb uplift at joint 7 and 273 lb uplift at joint 5.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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November 14, 2023

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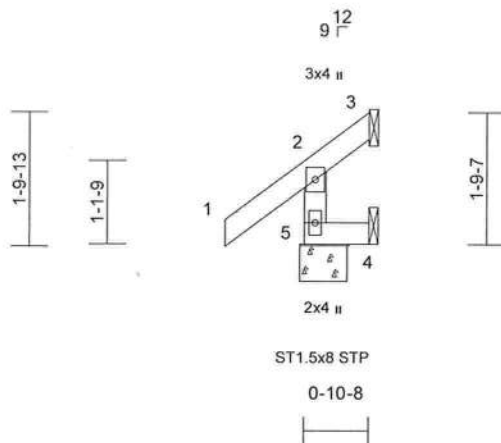
Job	Truss	Truss Type	Qty	Ply	
3698546	CJ1	Jack-Open	8	1	T32098891
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:15
ID:5wBb6szSHM9rztGVrb8yDcyK1OY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

-1-0-12 | 0-10-8
1-0-12 | 0-10-8



Scale = 1:31.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	4-5	>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-MR							Weight: 6 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 5, 30 lb uplift at joint 4 and 27 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 0-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-7-11
Max Horiz 5=71 (LC 7)
Max Uplift 3=-27 (LC 1), 4=-30 (LC 7), 5=-40 (LC 10)
Max Grav 3=16 (LC 6), 4=30 (LC 8), 5=162 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-142/256, 1-2=0/43, 2-3=-42/46
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 5 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.

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November 14, 2023

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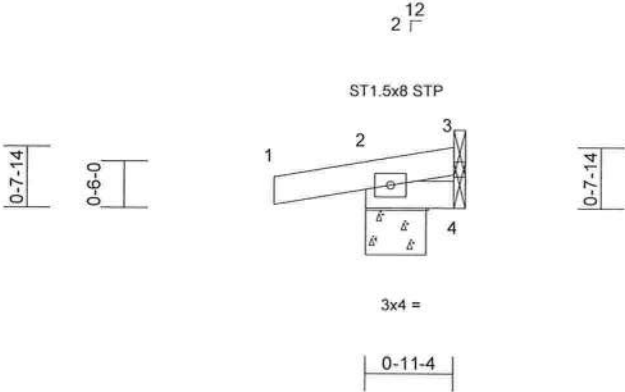
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ1A	Jack-Open	2	1	T32098892

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:15
ID:ohSA4YGYTgi9z8b0Wtrha1yJg7W-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC7f

Page: 1

-1-0-0	0-11-4
1-0-0	0-11-4



Scale = 1/24.9									
Plate Offsets (X, Y): [2:0-1-2,0-1-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	0.00	7	>999
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	7	>999
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP					
					Weight: 4 lb		FT = 20%		

LUMBER		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 2, 2 lb uplift at joint 4 and 6 lb uplift at joint 3.	
TOP CHORD	2x4 SP No.2	LOAD CASE(S) Standard	
BOT CHORD	2x4 SP No.2		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 0-11-4 oc purlins.		
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
REACTIONS (size)			
		2=0-7-11, 3= Mechanical, 4= Mechanical	
		Max Horiz 2=23 (LC 6)	
		Max Uplift 2=-126 (LC 6), 3=-6 (LC 10), 4=-2 (LC 1)	
		Max Grav 2=129 (LC 1), 3=7 (LC 3), 4=13 (LC 6)	
FORCES (lb) - Maximum Compression/Maximum Tension			
TOP CHORD	1-2=0/10, 2-3=-87/37		
BOT CHORD	2-4=-24/52		

NOTES			
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60			
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.			
5) Bearings are assumed to be: Joint 2 SP No.2.			
6) Refer to girder(s) for truss to truss connections.			

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November 14,2023

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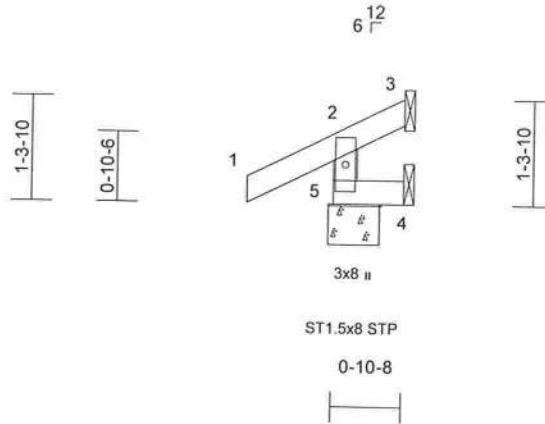
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ1D	Jack-Open	4	1	T32098893

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:16
ID:g3yFP14azejq58RJGfToAlyJg1J-RIC?PsB70Hq3NSgPqnL8w3uITXbGKwCDoi7J4zJC7f

Page: 1

-1-0-12	0-10-8
1-0-12	0-10-8



Scale = 1:28.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	0.00	5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	0.00	5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							
										Weight: 5 lb	FT = 20%

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 5, 10 lb uplift at joint 4 and 25 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied or 0-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-7-11
Max Horiz 5=50 (LC 7)
Max Uplift 3=-25 (LC 1), 4=-10 (LC 7), 5=-79 (LC 10)
Max Grav 3=16 (LC 6), 4=10 (LC 8), 5=162 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-141/232, 1-2=0/32, 2-3=-31/20
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 5 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.

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November 14,2023



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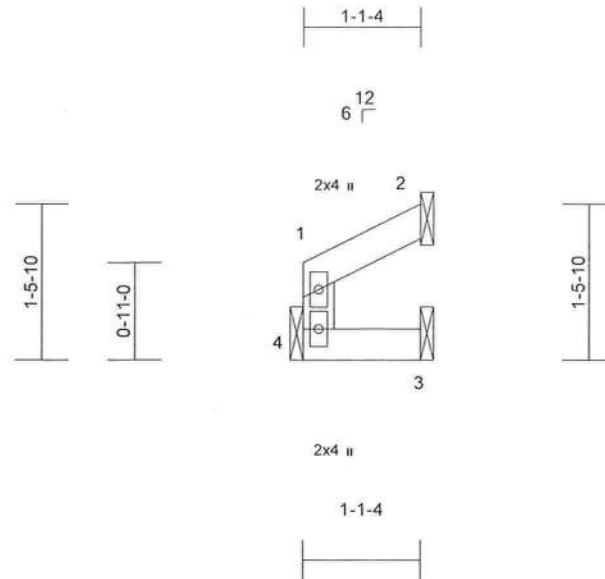
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ1J	Jack-Open	1	1	T32098894

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:16
ID:6LvfiSA5EoWHLkAZva4MhEyJg_c-RIC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?I

Page: 1



Scale = 1:21.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/def	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00	3-4	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	3-4	>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-MR							
										Weight: 4 lb	FT = 20%

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 3 and 37 lb uplift at joint 2.

LOAD CASE(S) Standard

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

REACTIONS (size) 2= Mechanical, 3= Mechanical, 4= Mechanical
Max Horiz 4=39 (LC 7)
Max Uplift 2=-37 (LC 10), 3=-8 (LC 7)
Max Grav 2=27 (LC 1), 3=18 (LC 3), 4=38 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-30/24, 1-2=-34/20
BOT CHORD 3-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

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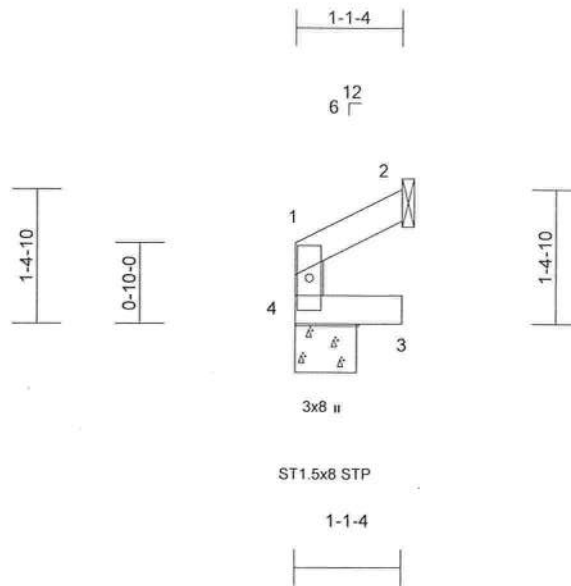
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ1K	Jack-Open	1	1	T32098895

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

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Page: 1



Scale = 1:23.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	0.00	3	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	3	>999	240		
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-MR		Wind(LL)	0.00	3	>999	240	Weight: 4 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 1-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2= Mechanical, 4=0-7-11
Max Horiz 4=37 (LC 7)
Max Uplift 2=-41 (LC 10)
Max Grav 2=39 (LC 18), 4=38 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-19/14, 1-2=-38/29
BOT CHORD 3-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be . Joint 4 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 2.

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Page: 1

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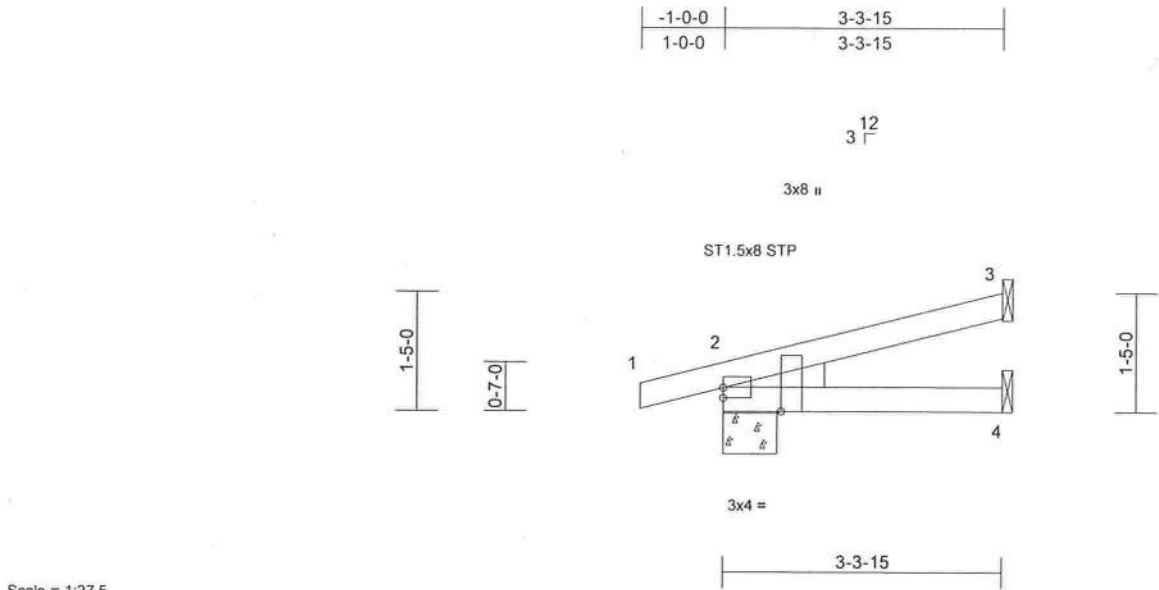
MiTek[®]
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ2	Jack-Open	2	1	T32098897

Builders FirstSource (Groveand, FL), Groveand, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:17
ID:icuYoawUIUDeaxnKeJlt1kyJgy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.5											
Plate Offsets (X, Y): [2:Edge,0-1-7], [2:0-3-6,Edge]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	0.00	4-7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.01	4-7	>999	240	GRIP
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	244/190
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.01	4-7	>999	240	Weight: 13 lb
										FT = 20%	

- LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-3-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 2=0-7-11, 3= Mechanical, 4= Mechanical
Max Horiz 2=70 (LC 6)
Max Uplift 2=-140 (LC 6), 3=-63 (LC 10), 4=-10 (LC 10)
Max Grav 2=200 (LC 1), 3=77 (LC 1), 4=56 (LC 3)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-86/24
BOT CHORD 2-4=-86/100

- NOTES**
1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3, 140 lb uplift at joint 2 and 10 lb uplift at joint 4.

LOAD CASE(S) Standard

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

November 14,2023

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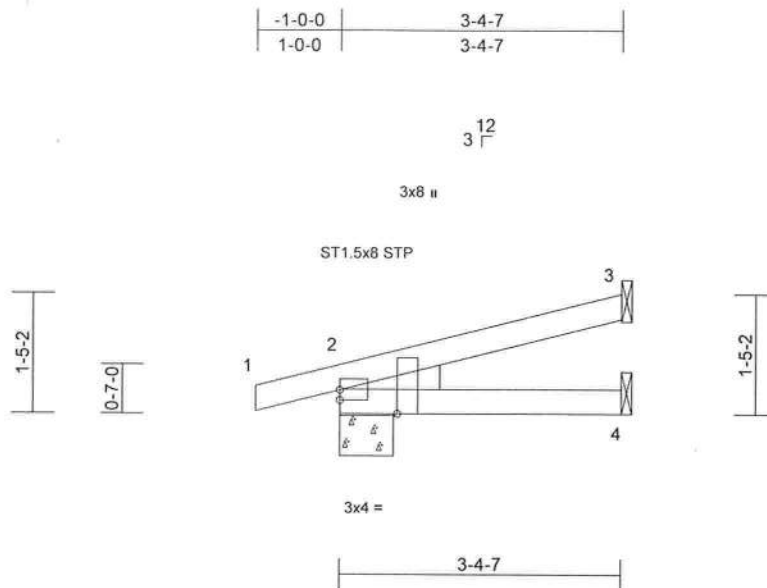
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ2A	Jack-Open	4	1	T32098898

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:17
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Page: 1



Scale = 1:27.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.01	4-7	>999	240		
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		Wind(LL)	0.01	4-7	>999	240	Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-7-11, 3= Mechanical, 4= Mechanical
Max Horiz 2=70 (LC 6)
Max Uplift 2=-141 (LC 6), 3=-64 (LC 10), 4=-10 (LC 10)
Max Grav 2=201 (LC 1), 3=78 (LC 1), 4=57 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-87/24
BOT CHORD 2-4=-88/101

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2.

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 3, 141 lb uplift at joint 2 and 10 lb uplift at joint 4.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No. SS126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14, 2023

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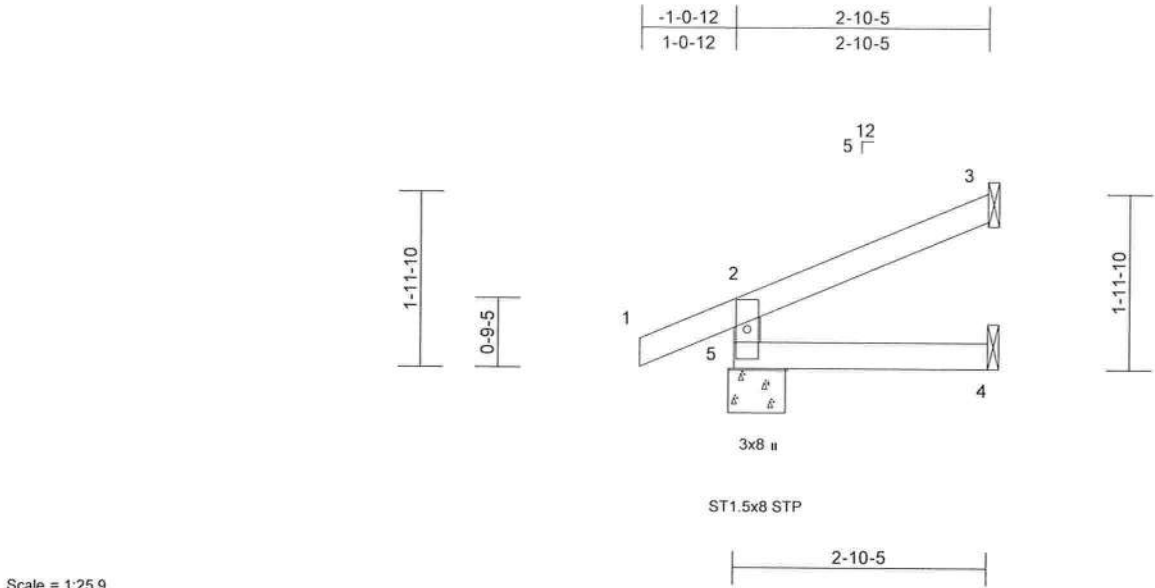
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	CJ2B	Jack-Open	2	1	T32098899
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:17
ID:13pOmTYrEK0gjPK0OWWMKMyJbq9-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	0.00	4-5	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	4-5	>999	240	244/190
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-MR		Wind(LL)	0.00	4-5	>999	240	Weight: 11 lb FT = 20%

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 5 and 73 lb uplift at joint 3.
LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-7-11
Max Horiz 5=82 (LC 10)
Max Uplift 3=-73 (LC 10), 5=-94 (LC 6)
Max Grav 3=64 (LC 1), 4=49 (LC 3), 5=195 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-167/262, 1-2=0/28, 2-3=-59/36
BOT CHORD 4-5=0/0

- NOTES**
- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: Joint 5 SP No.2.
 - 6) Refer to girder(s) for truss to truss connections.

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Philip J. O'Regan PE No.55126
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Date:

November 14,2023

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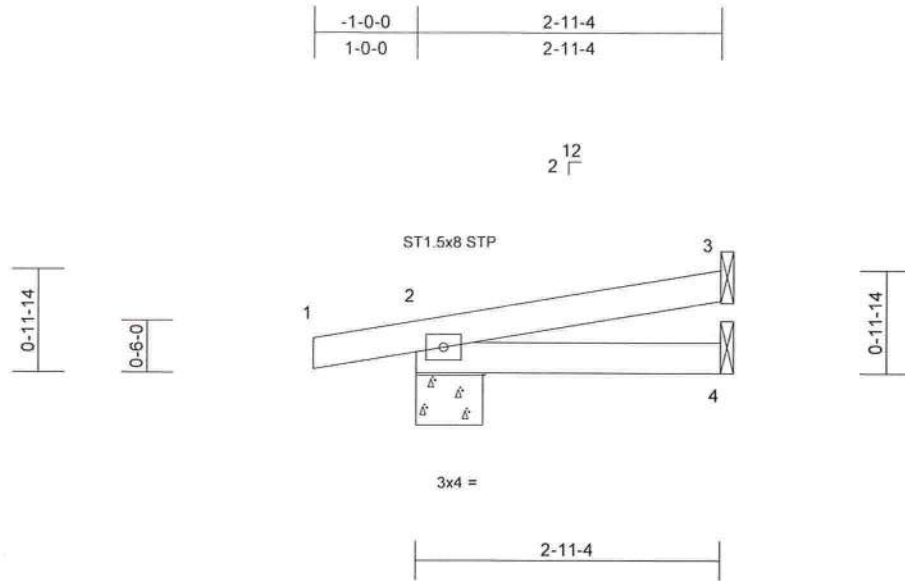
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ3A	Jack-Open	2	1	T32098901

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:17
ID:9eG37FKhICLS3vUzIQRsH4yJg7R-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?

Page: 1



Scale = 1:22.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	0.01	4-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	4-7	>999	180	244/190
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: 10 lb	FT = 20%

LUMBER

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 3 and 140 lb uplift at joint 2.

BRACING

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

LOAD CASE(S) Standard

REACTIONS (size) 2=0-7-11, 3= Mechanical, 4= Mechanical
Max Horiz 2=42 (LC 6)
Max Uplift 2=-140 (LC 6), 3=-58 (LC 10)
Max Grav 2=185 (LC 1), 3=70 (LC 1), 4=50 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/10, 2-3=-83/17
BOT CHORD 2-4=-12/69

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2
- 6) Refer to girder(s) for truss to truss connections.

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Philip J. O'Regan PE No.58126
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Date:

November 14,2023

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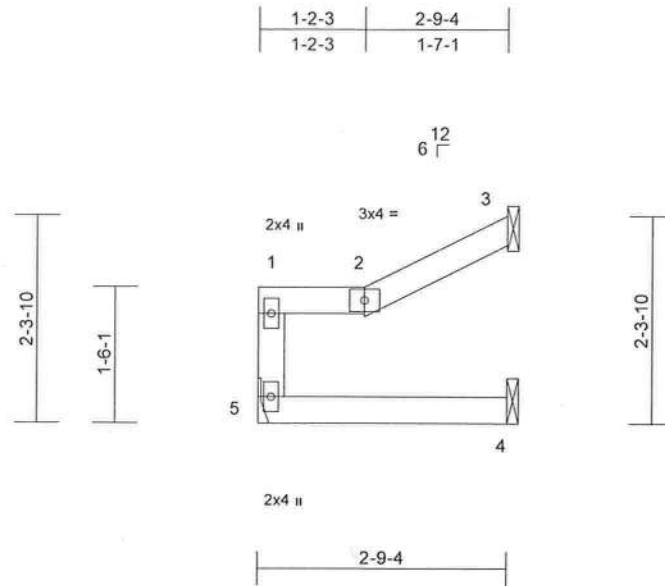
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ3J	Jack-Open	1	1	T32098903

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

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Page: 1



Scale = 1:25.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.00	4-5	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	4-5	>999	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-MR							
										Weight: 10 lb	FT = 20%

LUMBER

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

- 6) Refer to girder(s) for truss to truss connections.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 5, 76 lb uplift at joint 3 and 2 lb uplift at joint 4.

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

LOAD CASE(S) Standard

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5= Mechanical
Max Horiz 5=66 (LC 7)
Max Uplift 3=-76 (LC 10), 4=-2 (LC 7), 5=-33 (LC 6)
Max Grav 3=73 (LC 1), 4=50 (LC 3), 5=103 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-96/109, 1-2=-79/32, 2-3=-67/47
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 1-2-3, Exterior(2R) 1-2-3 to 2-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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Date:

November 14, 2023

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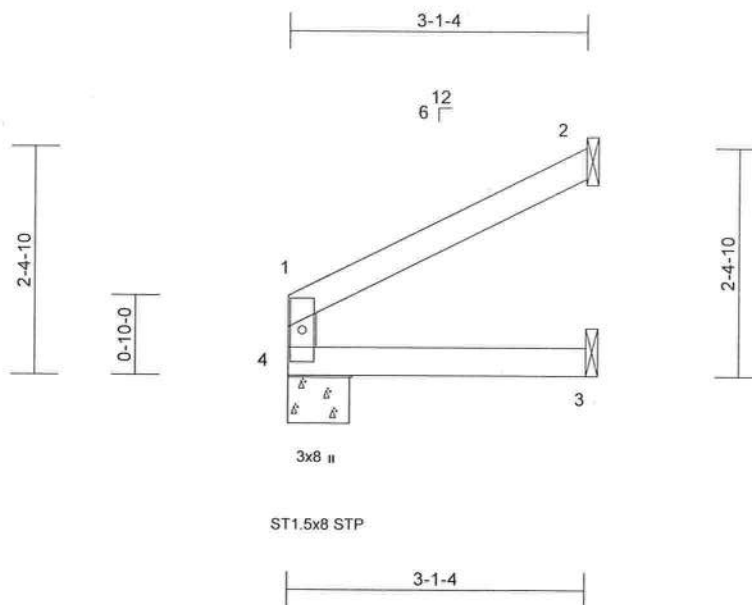
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ3K	Jack-Open	1	1	T32098904

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:18

Page: 1

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Scale = 1:24.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.01	3-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.01	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 11 lb	FT = 20%

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 4, 94 lb uplift at joint 2 and 5 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical, 4=0-7-11
Max Horiz 4=75 (LC 10)
Max Uplift 2=-94 (LC 10), 3=-5 (LC 10), 4=-22 (LC 10)
Max Grav 2=81 (LC 1), 3=56 (LC 3), 4=116 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-112/108, 1-2=-87/50
BOT CHORD 3-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 4 SP No.2
- Refer to girder(s) for truss to truss connections.

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

November 14, 2023

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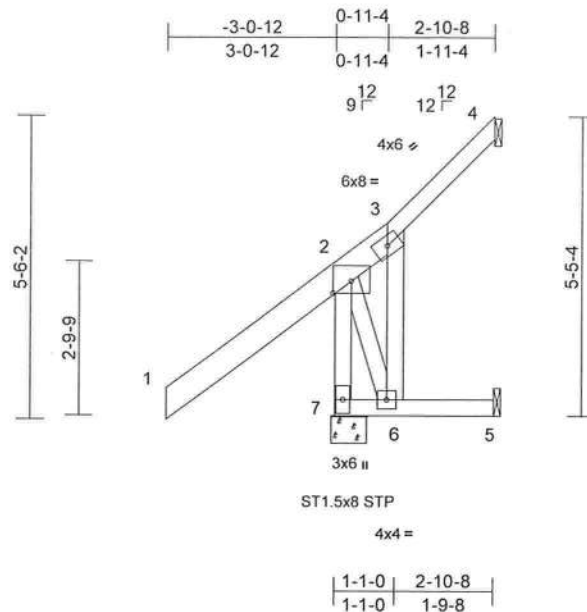
MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	CJ3M	Jack-Open	2	1	T32098905
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:18
ID: iFSmXZ6KBEcay55WsgMKc3yJtI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1/42

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.03	5-6	>929	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.09	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 32 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 "Except" 3-4:2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 "Except" 7-2:2x4 SP 2850F 2.0E or 2x4 SP M 31

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-9-15 oc bracing.

REACTIONS	(size) 4= Mechanical, 5= Mechanical, 7=0-7-11
	Max Horiz 7=210 (LC 7)
	Max Uplift 4=-106 (LC 10), 5=-112 (LC 7), 7=-41 (LC 6)
	Max Grav 4=77 (LC 18), 5=69 (LC 8), 7=415 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-7=-563/502, 1-2=0/116, 2-3=-250/478, 3-4=-136/71
BOT CHORD	6-7=-470/105, 5-6=0/0
WEBS	3-6=-1020/350, 2-6=-319/1459

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone
and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to
1-0-0, Exterior(2E) 1-0-0 to 2-10-8 zone; cantilever left
and right exposed; end vertical left and right exposed; C-
C for members and forces & MWFRS for reactions
shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Bearings are assumed to be: , Joint 7 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 41 lb uplift at joint
7, 106 lb uplift at joint 4 and 112 lb uplift at joint 5.

LOAD CASE(S) Standard

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Date:

November 14, 2023

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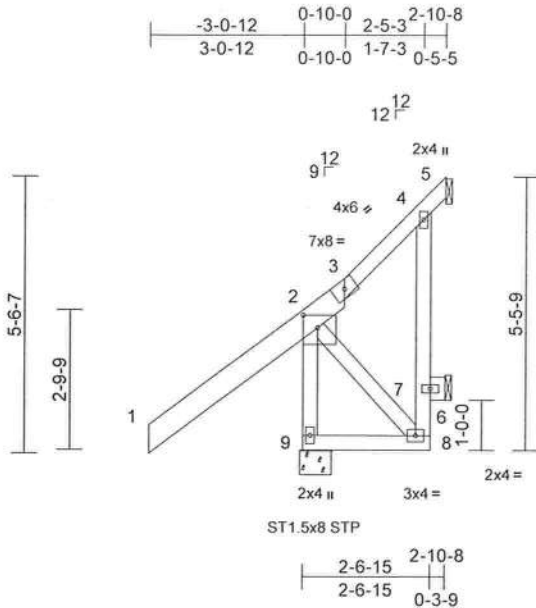
MiTek®
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ3MT	Jack-Open	4	1	T32098906

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:19
ID:1Y?0oAjwBkYVnAngLn0LoLyJlIQ7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

Page: 1



Scale = 1:46.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.00	4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	0.00	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 36 lb	FT = 20%

LUMBER		
TOP CHORD	2x6 SP No.2 *Except*	3-5:2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*	8-4:2x4 SP No.3, 7-6:2x6 SP No.2
WEBS	2x4 SP No.2 *Except*	8-2:2x4 SP No.3
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
REACTIONS	(size)	5= Mechanical, 6= Mechanical, 9=0-7-11
	Max Horiz	9=211 (LC 7)
	Max Uplift	5=-159 (LC 10), 6=-150 (LC 24), 9=-42 (LC 6)
	Max Grav	5=122 (LC 18), 6=85 (LC 6), 9=415 (LC 1)
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-9=-397/316, 1-2=0/116, 2-3=-109/82, 3-4=-90/105, 4-5=-270/85	
BOT CHORD	8-9=-344/124, 7-8=-401/116, 4-7=-482/167, 6-7=0/0	
WEBS	2-8=-124/544	

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 2-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Bearings are assumed to be: , Joint 9 SP No.2 .
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 9, 159 lb uplift at joint 5 and 150 lb uplift at joint 6.
- LOAD CASE(S)** Standard

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Philip J. O'Regan PE No.55126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14,2023

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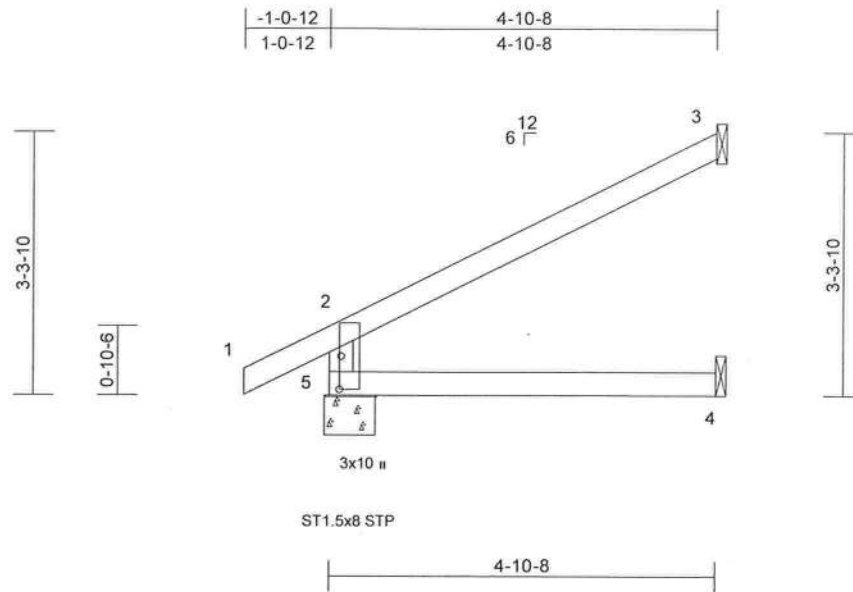
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ5D	Jack-Open	2	1	T32098907

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:19
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Page: 1



Scale = 1:29

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.04	4-5	>999	240	Weight: 18 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 3= Mechanical, 4= Mechanical,
5=0-7-11
Max Horiz 5=159 (LC 10)
Max Uplift 3=-145 (LC 10), 4=-2 (LC 10),
5=-102 (LC 10)
Max Grav 3=125 (LC 1), 4=87 (LC 3), 5=269 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-227/324, 1-2=0/32, 2-3=-136/78
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 5, 145 lb uplift at joint 3 and 2 lb uplift at joint 4.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Date:

November 14, 2023

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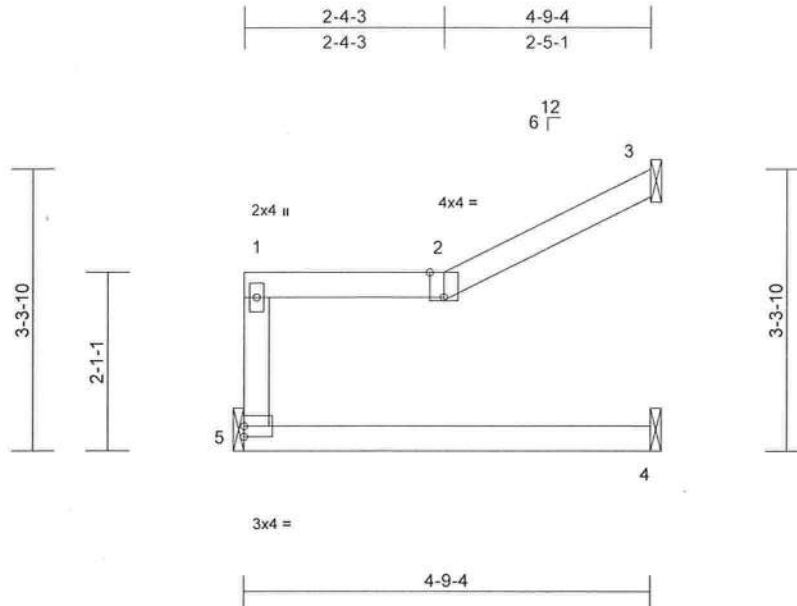
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Job	Truss	Truss Type	Qty	Ply	
3698546	CJ5J	Jack-Open	1	1	T32098908
					Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:19
ID:sTbNsCxT62jpDRMMQzsmE5yJfZo-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwCDoi7J4zJC?f

Page: 1



Scale = 1:27.1

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

Loading	(psf)	Spacing	2:0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.03	4-5	>999	240	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, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(size)	3= Mechanical, 4= Mechanical, 5= Mechanical
Max Horiz	5=100 (LC 7)	
Max Uplift	3=-84 (LC 10), 5=-68 (LC 6)	
Max Grav	3=130 (LC 1), 4=88 (LC 3), 5=183 (LC 1)	

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-5=-178/205, 1-2=-123/50, 2-3=-113/81
BOT CHORD	4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 2-4-3, Exterior(2R) 2-4-3 to 4-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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'-06"-00" tall by 2'-00"-00" 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 68 lb uplift at joint 5 and 84 lb uplift at joint 3.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	
3698546	CJ5K	Jack-Open	1	1	T32098909
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:20
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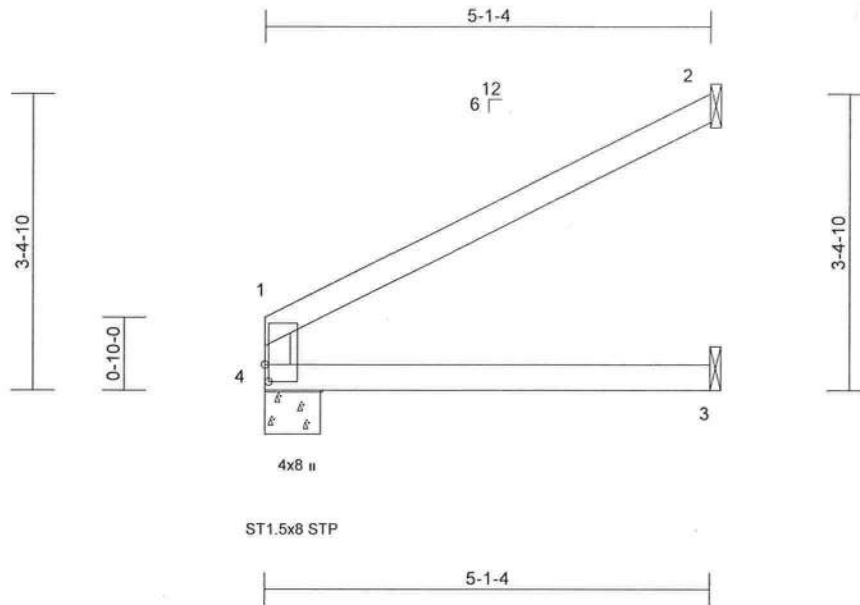


Plate Offsets (X, Y): [4:0-2-5,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.03	3-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.06	3-4	>989	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.06	3-4	>999	240	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, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS	(size)	2= Mechanical, 3= Mechanical, 4=0-7-11
	Max Horiz	4=136 (LC 10)
	Max Uplift	2=-154 (LC 10), 3=-3 (LC 10), 4=-49 (LC 10)
	Max Grav	2=137 (LC 1), 3=92 (LC 3), 4=196 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-4=-192/190, 1-2=-145/82
BOT CHORD	3-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 4 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 4, 154 lb uplift at joint 2 and 3 lb uplift at joint 3.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
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Date:

November 14,2023

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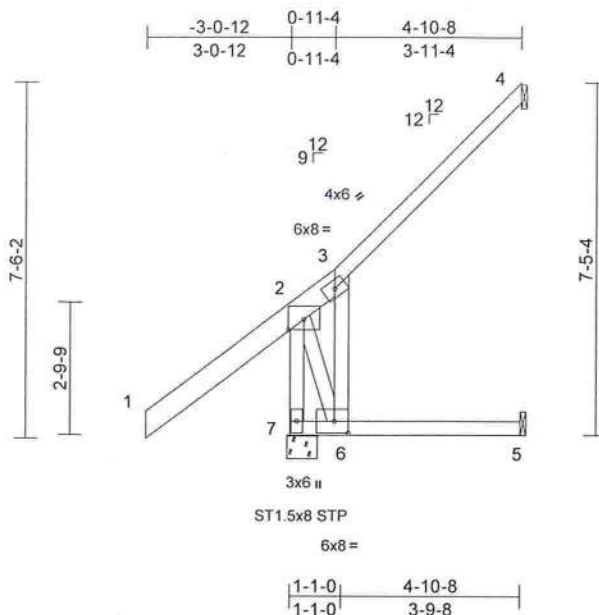
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	CJ5M	Jack-Open	2	1	T32098910

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:20

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Scale = 1:48.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.19	5-6	>303	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	0.18	5-6	>311	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	-0.35	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 40 lb FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* 3-4:2x4 SP No.2
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3 *Except* 7-2:2x4 SP 2850F
	2.0E or 2x4 SP M 31

BRACING

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

REACTIONS	(size) 4= Mechanical, 5= Mechanical, 7=0-7-11
	Max Horiz 7=348 (LC 10)
	Max Uplift 4=-218 (LC 10), 5=-132 (LC 10), 7=-5 (LC 6)
	Max Grav 4=160 (LC 18), 5=121 (LC 8), 7=445 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-7=-639/760, 1-2=0/116, 2-3=-254/330, 3-4=-254/138
BOT CHORD	6-7=-635/183, 5-6=0/0
WEBS	3-6=-801/241, 2-6=-531/1896

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 1-0-0, Exterior(2E) 1-0-0 to 4-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 7 SP No.1 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 7, 218 lb uplift at joint 4 and 132 lb uplift at joint 5.

LOAD CASE(S) Standard

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November 14,2023

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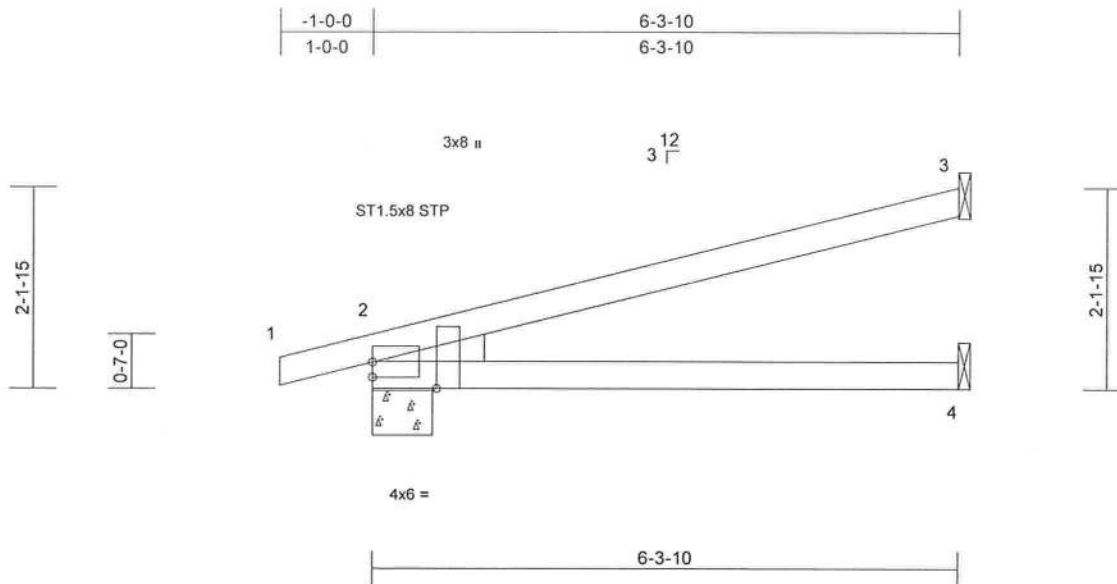
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Job	Truss	Truss Type	Qty	Ply	
3698546	CJ6	Jack-Open	2	1	T32098912
					Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:20
ID:u?a8h8G2i4IgxEWiHCFRAeyJgcW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:24.8

Plate Offsets (X, Y): [2:Edge,0-1-15], [2:0-3-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.07	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.15	4-7	>516	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.17	4-7	>451	240	Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-7-11, 3= Mechanical, 4= Mechanical
Max Horiz 2=115 (LC 6)
Max Uplift 2=-192 (LC 6), 3=-138 (LC 10), 4=-7 (LC 10)
Max Grav 2=314 (LC 1), 3=164 (LC 1), 4=110 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-181/90
BOT CHORD 2-4=-236/207

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 3, 192 lb uplift at joint 2 and 7 lb uplift at joint 4.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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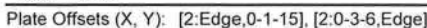
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14, 2023

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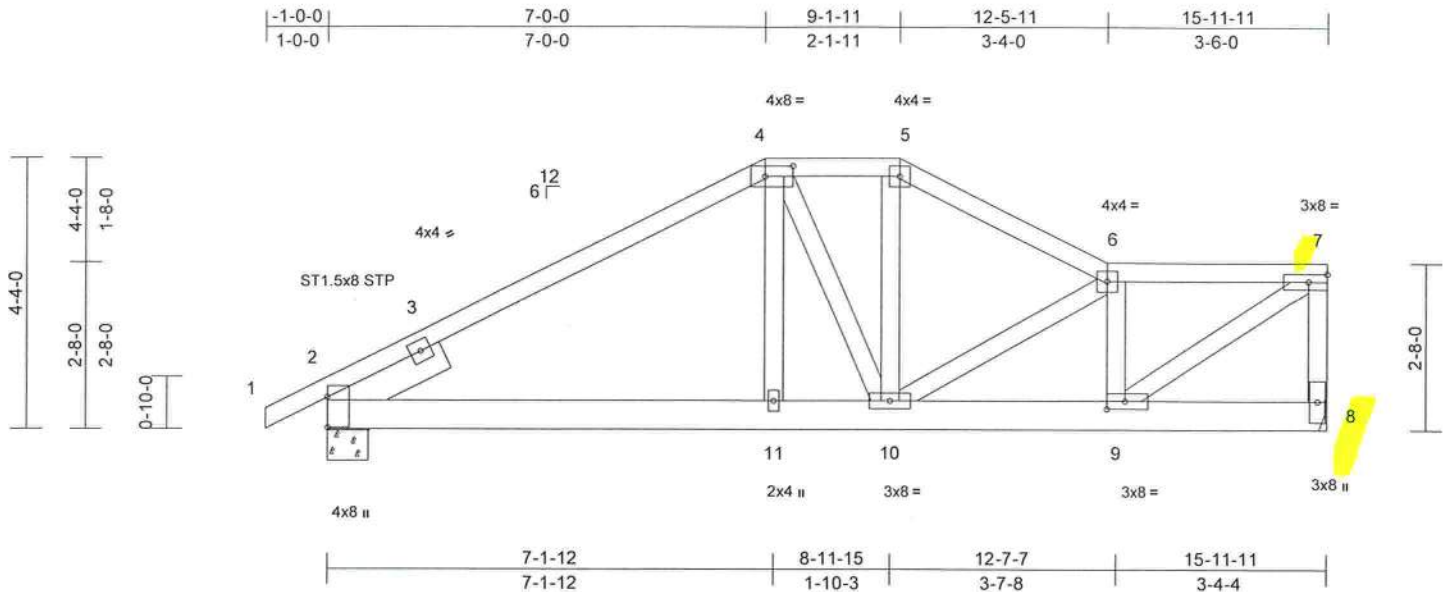
MiTek[®]
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	D1	Roof Special Girder	1	1	T32098914
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:21
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Page: 1



Scale = 1:36.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.05	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.09	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.08	10-11	>999	240	Weight: 103 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 1-4:2x4 SP No.1
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-0-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-1-5 oc bracing.

REACTIONS	(size) 2=0-7-11, 8= Mechanical
	Max Horiz 2=179 (LC 7)
	Max Uplift 2=-794 (LC 8), 8=-744 (LC 9)
	Max Grav 2=1332 (LC 1), 8=1243 (LC 1)

FORCES

TOP CHORD	1-2=0/27, 2-4=-1886/1167, 4-5=-1680/1103, 5-6=-1900/1194, 6-7=-1528/896, 7-8=-1173/727
BOT CHORD	2-11=-1012/1602, 10-11=-1017/1616, 9-10=-991/1595, 8-9=-51/39
WEBS	4-11=-218/415, 4-10=-180/259, 5-10=-309/532, 6-10=-192/241, 6-9=-1069/733, 7-9=-1104/1837

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 744 lb uplift at joint 8 and 794 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 148 lb down and 177 lb up at 7-0-0, and 148 lb down and 177 lb up at 9-1-11 on top chord, and 478 lb down and 340 lb up at 7-0-0, and 512 lb down and 307 lb up at 9-0-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-5=-60, 5-6=-60, 6-7=-60, 8-12=-20
Concentrated Loads (lb)
Vert: 4=-129 (B), 5=-129 (B), 11=-478 (B), 10=-512 (B)

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Date:

November 14, 2023

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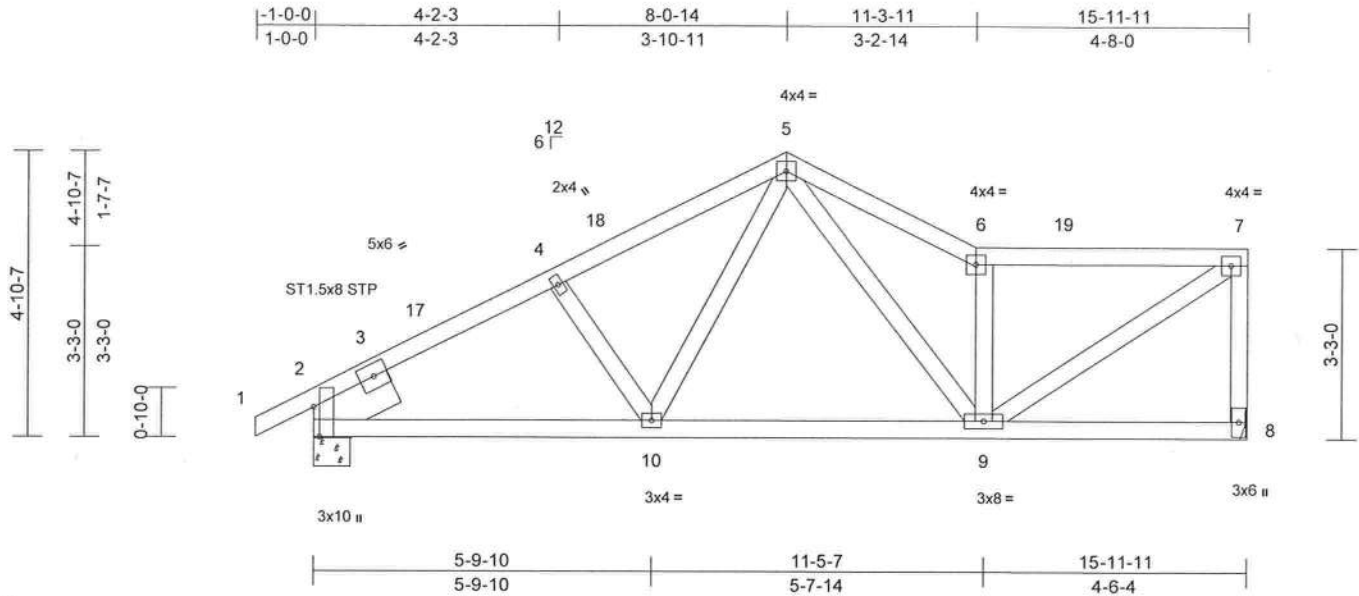
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
3698546	D2	Roof Special	1	1	T32098915
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:21
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Page: 1



Scale = 1:39.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.04	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.04	9-10	>999	240	Weight: 91 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	2=0-7-11, 8= Mechanical
Max Horiz	2=217 (LC 9)
Max Uplift	2=-316 (LC 10), 8=-280 (LC 11)
Max Grav	2=709 (LC 1), 8=617 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/27, 2-4=-889/558, 4-5=-794/548, 5-6=-892/678, 6-7=-723/525, 7-8=-655/422
BOT CHORD	2-10=-381/857, 9-10=-235/672, 8-9=-65/89
WEBS	4-10=-150/205, 5-10=-118/231, 5-9=-237/338, 6-9=-641/517, 7-9=-496/893

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-0-14, Exterior(2R) 5-0-14 to 8-0-14, Exterior(2E) 8-0-14 to 11-3-11, Interior (1) 11-3-11 to 12-9-15, Exterior(2E) 12-9-15 to 15-9-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 8 and 316 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Date:

November 14, 2023

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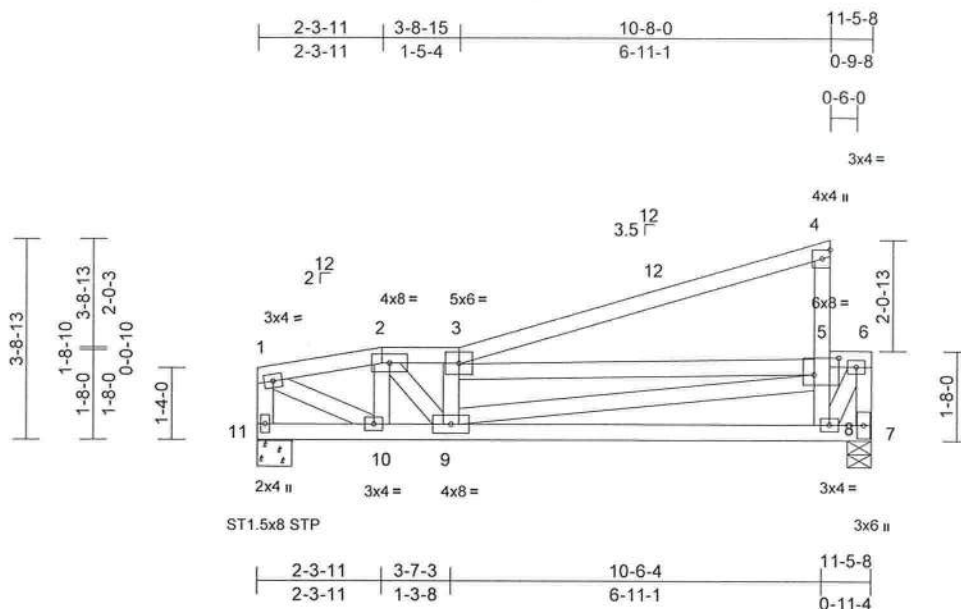
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	D4	Roof Special	1	1	T32098917

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:22

Page: 1

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Scale = 1:43.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.05	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.10	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.04	8-9	>999	240	Weight: 72 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 5-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-4-3 oc bracing: 9-10.

REACTIONS

(size) 7=0-5-8, 11=0-7-11
Max Horiz 11=225 (LC 7)
Max Uplift 7=-266 (LC 10), 11=-221 (LC 6)
Max Grav 7=447 (LC 1), 11=447 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-614/430, 2-3=-909/623, 3-4=-151/69,
5-8=-318/361, 4-5=-229/285, 5-6=-268/228,
6-7=-599/409, 1-11=-455/383
BOT CHORD 10-11=-224/272, 9-10=-481/754,
8-9=-132/335, 7-8=-29/48
WEBS 2-10=-277/163, 2-9=-285/483, 3-9=-423/442,
3-5=-940/720, 5-9=-617/816, 6-8=-327/538,
1-10=-437/593

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 5-1-12 to 7-3-11, Interior (1) 7-3-11 to 12-6-4, Exterior(2E) 12-6-4 to 16-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 7 and 221 lb uplift at joint 11.

LOAD CASE(S) Standard

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

November 14, 2023

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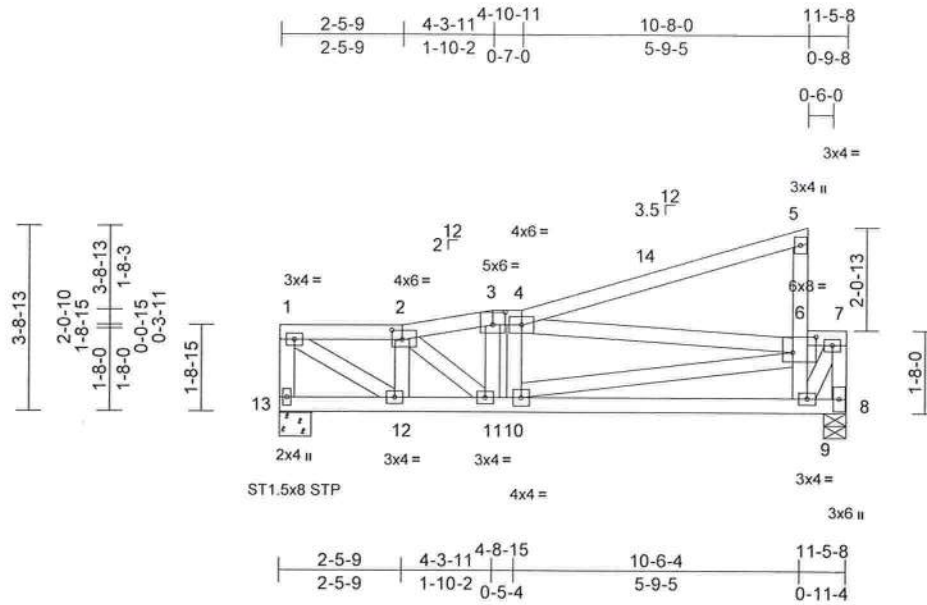
MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	D5	Roof Special	1	1	T32098918

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:23
ID: NXeRIBf2pMOFYdKMvysmAnyJfV?RfC?PsB70Hq3NSgPqnL8w3uITxbGKwCDoi7J4zJC7f

Page: 1



Scale = 1:46.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.03	9-10	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.07	9-10	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.01	8	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	9-10	>999	240	Weight: 73 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 7-9-1 oc bracing.

REACTIONS

(size) 8=0-5-8, 13=0-7-11
Max Horiz 13=222 (LC 7)
Max Uplift 8=-262 (LC 10), 13=-224 (LC 6)
Max Grav 8=447 (LC 1), 13=447 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-13=-447/380, 1-2=-622/415, 2-3=-803/542, 3-4=-791/546, 4-5=-114/43, 6-9=-338/356, 5-6=-196/247, 6-7=-261/237, 7-8=-575/416

BOT CHORD 12-13=-202/266, 11-12=-454/777,

10-11=-561/938, 9-10=-153/330, 8-9=-28/48

WEBS 1-12=-496/666, 2-12=-383/341,

2-11=-136/219, 3-11=-190/136,

4-10=-291/394, 4-6=-803/615,

6-10=-454/650, 7-9=-346/524

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 2-5-9, Interior (1) 2-5-9 to 7-6-4, Exterior(2E) 7-6-4 to 11-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 13 and 262 lb uplift at joint 8.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14, 2023

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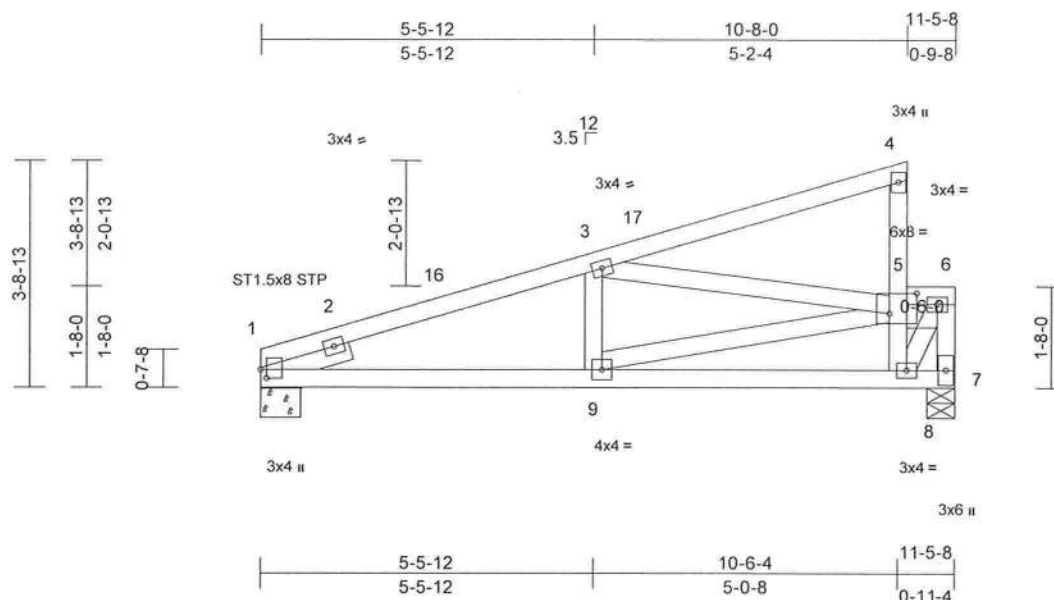
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	D6	Half Hip	6	1	T32098919

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:23

Page: 1

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Scale = 1:38.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.02	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.04	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	9	>999	240	Weight: 62 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 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-1-14 oc bracing.

REACTIONS (size)

Max Horiz	1=283 (LC 10)
Max Uplift	1=-226 (LC 6), 7=-268 (LC 10)
Max Grav	1=466 (LC 1), 7=439 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-3=-794/624, 3-4=-105/38, 5-8=-405/448, 4-5=-166/218, 5-6=-258/262, 6-7=-524/431
BOT CHORD	1-9=-681/905, 8-9=-210/343, 7-8=-27/50
WEBS	3-9=-471/165, 3-5=-774/722, 5-9=-484/578, 6-8=-426/533

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-3-5, Exterior(2E) 6-3-5 to 11-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 1 and 268 lb uplift at joint 7.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14,2023

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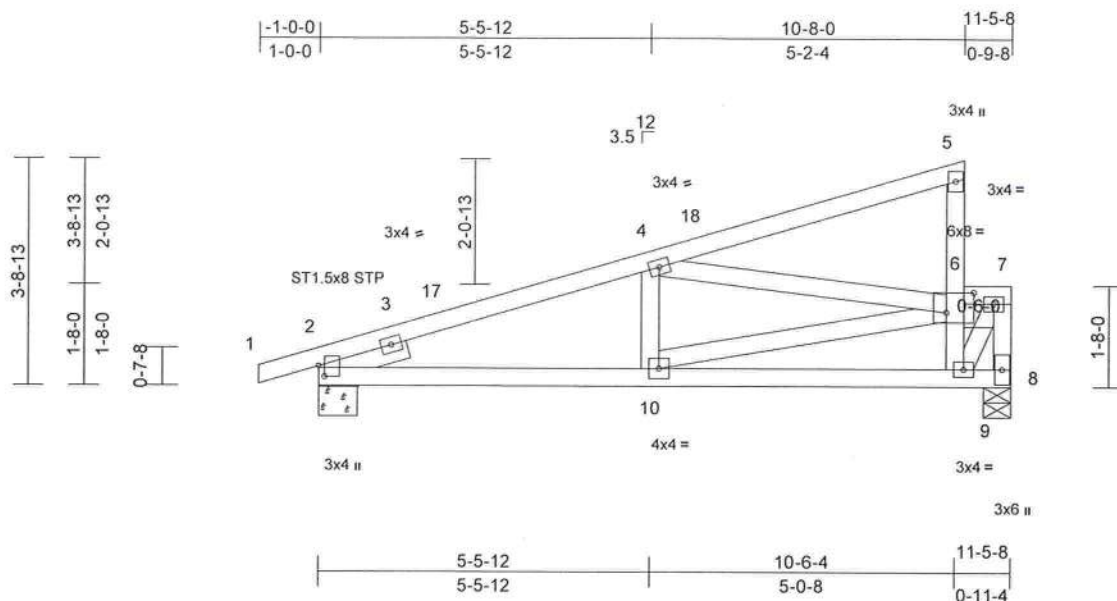
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	D7	Half Hip	3	1	T32098920

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:24
ID:CE3Yhs880IRaLmN2FMa8eGyJfUN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:38.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.02	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.04	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	9-10	>999	240	Weight: 64 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 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-5-15 oc bracing.

REACTIONS (size)

Max Horiz	2=298 (LC 10)
Max Uplift	2=-303 (LC 6), 8=-265 (LC 10)
Max Grav	2=530 (LC 1), 8=435 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/17, 2-4=-783/561, 4-5=-105/38, 6-9=-401/427, 5-6=-167/222, 6-7=-257/257, 7-8=-523/423
BOT CHORD	2-10=-615/894, 9-10=-204/342, 8-9=-27/50
WEBS	4-10=-48/169, 4-6=-762/653, 6-10=-422/567, 7-9=-417/531

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-3-5, Exterior(2E) 6-3-5 to 11-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 8 and 303 lb uplift at joint 2.

LOAD CASE(S) Standard

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Date:

November 14, 2023

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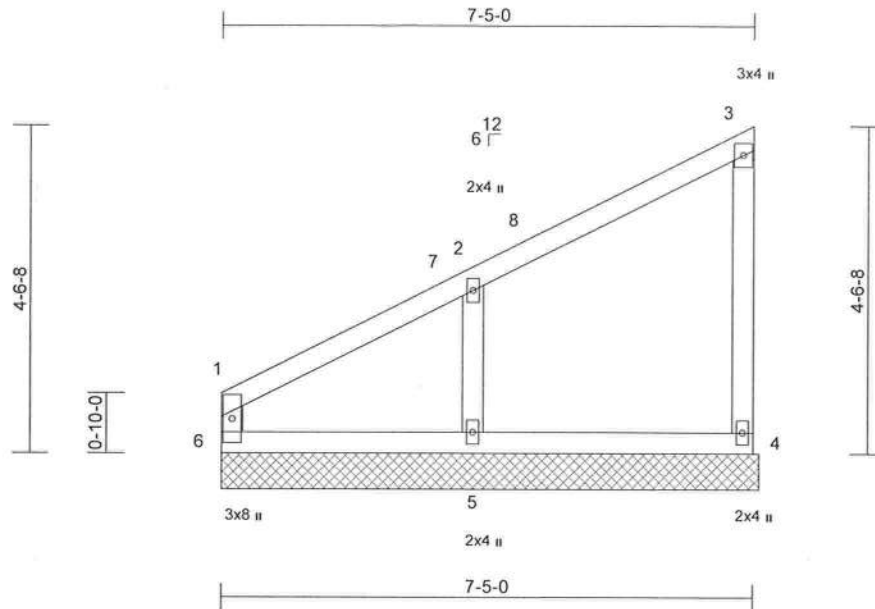
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	D8	Monopitch Supported Gable	1	1	T32098921
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:24
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Page: 1



Scale = 1:32.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 33 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, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size)	4=7-6-0, 5=7-6-0, 6=7-6-0
Max Horiz	6=254 (LC 7)
Max Uplift	4=-63 (LC 7), 5=-278 (LC 10), 6=-9 (LC 6)
Max Grav	4=126 (LC 1), 5=338 (LC 1), 6=153 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-118/68, 1-2=-228/279, 2-3=-136/160, 3-4=-163/176

BOT CHORD 5-6=-87/140, 4-5=-87/140

WEBS 2-5=-396/633

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 4-3-4, Corner(3E) 4-3-4 to 7-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 6, 63 lb uplift at joint 4 and 278 lb uplift at joint 5.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Date:

November 14,2023

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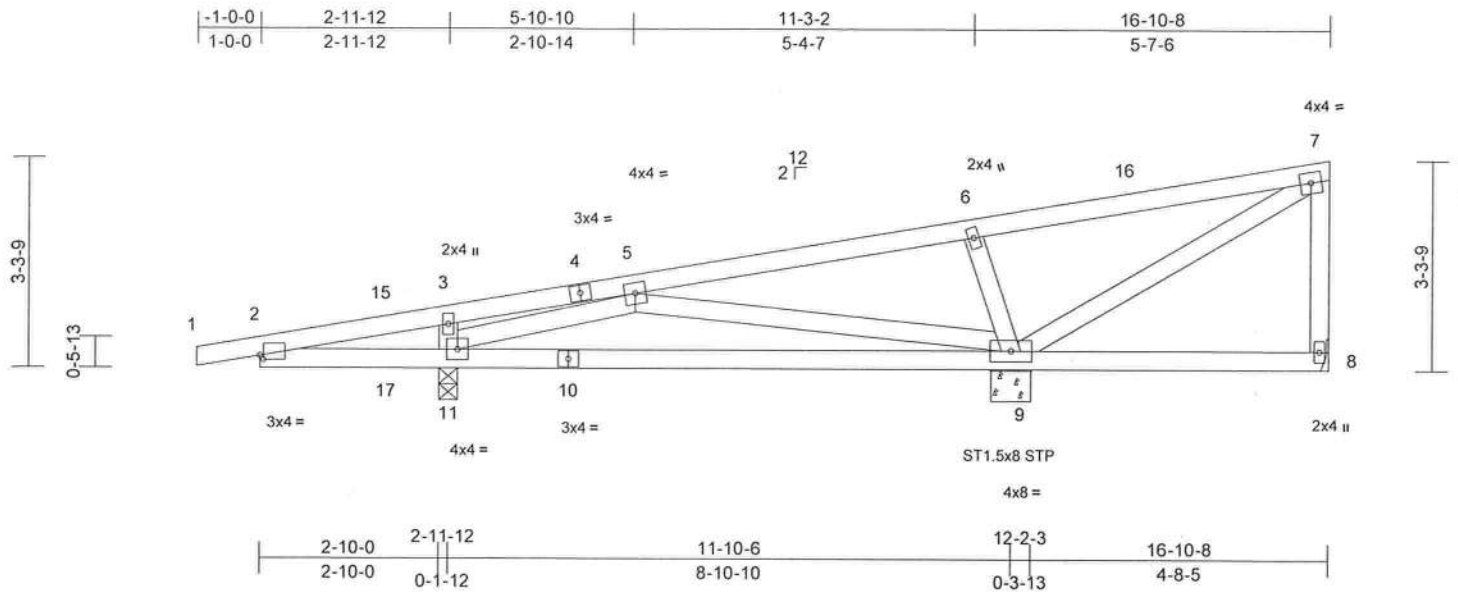
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	E1	Roof Special	4	1	T32098922

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:24
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Page: 1



Scale = 1:36.3
Plate Offsets (X, Y): [2:0-0-11,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.13	9-11	>861	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.25	9-11	>440	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	-0.06	9-11	>999	240	Weight: 81 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 8= Mechanical, 9=0-7-11, 11=0-3-8
Max Horiz 11=184 (LC 9)
Max Uplift 8=50 (LC 6), 9=343 (LC 10), 11=496 (LC 6)
Max Grav 8=91 (LC 1), 9=637 (LC 1), 11=670 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/10, 2-3=-1499/524, 3-5=-1435/521, 5-6=-73/85, 6-7=-97/214, 7-8=-87/114
BOT CHORD 2-11=-500/1497, 9-11=-187/410, 8-9=-63/83
WEBS 5-9=-345/195, 6-9=-431/350, 7-9=-191/165, 3-11=-208/371, 5-11=-724/1144

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 13-8-12, Exterior(2E) 13-8-12 to 16-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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'-06'-00 tall by 2'-00'-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 11 SP No.2, Joint 9 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 8, 343 lb uplift at joint 9 and 496 lb uplift at joint 11.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
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Date:

November 14,2023

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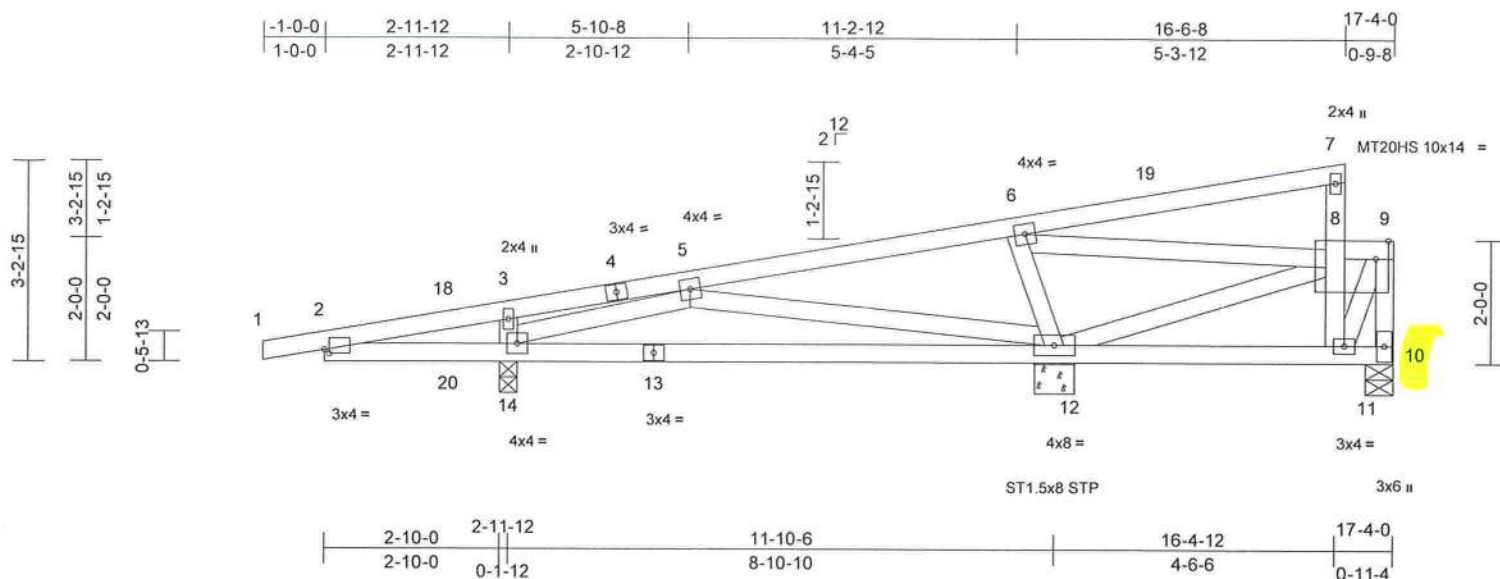
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	E2	Half Hip	2	1	T32098923

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:25
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Page: 1



Scale = 1:37.4

Plate Offsets (X, Y): [2-0-0-15,0-0-12], [8-0-2-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.13	12-14	>835	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.26	12-14	>429	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	-0.06	12-14	>999	240	Weight: 92 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-14.

REACTIONS

(size) 10=0-5-8, 12=0-7-11, 14=0-3-8
Max Horiz 14=211 (LC 10)
Max Uplift 10=-744 (LC 10), 12=-348 (LC 10),
14=-495 (LC 6)
Max Grav 10=1696 (LC 18), 12=671 (LC 1),
14=667 (LC 24)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/10, 2-3=-1502/530, 3-5=-1440/527,
5-6=-107/139, 6-7=-69/49, 8-11=-41/86,
7-8=-142/168, 8-9=-25/78, 9-10=-1893/1267
BOT CHORD 2-14=-506/1500, 12-14=-249/380,
11-12=-45/40, 10-11=-30/54
WEBS 5-12=-346/235, 6-12=-496/385,
6-8=-168/303, 8-12=-228/220, 9-11=-96/8,
3-14=-199/356, 5-14=-730/1125

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 13-4-12, Exterior(2E) 13-4-12 to 17-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 744 lb uplift at joint 10, 348 lb uplift at joint 12 and 495 lb uplift at joint 14.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1892 lb down and 1161 lb up at 17-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-7=-60, 8-9=-60, 10-15=-20
Concentrated Loads (lb)
Vert: 9=-1300

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November 14, 2023

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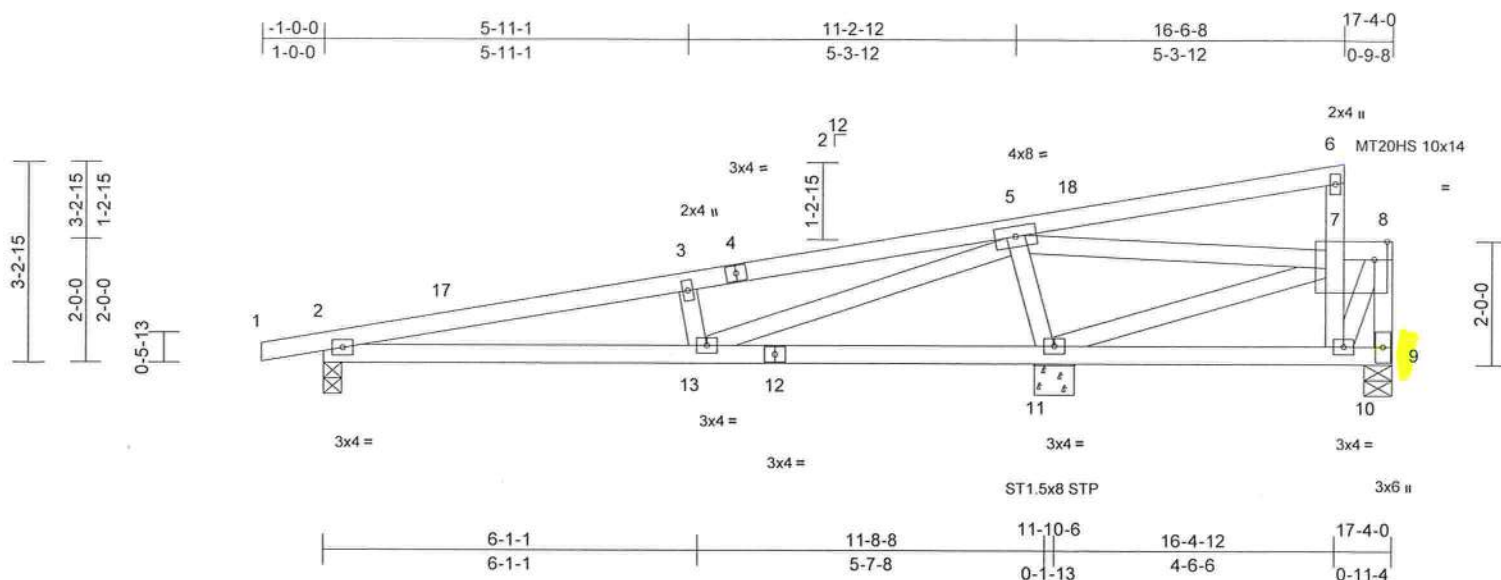
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	E3	Half Hip	2	1	T32098924
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:25
ID: oHpPLSd8MMGz8eopNGj2G1yJhFA-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.04	13-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.09	13-16	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.06	13-16	>999	240	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 6-0-0 oc bracing.

REACTIONS

(size)	2=0-3-8, 9=0-5-8, 11=0-7-11
Max Horiz	2=211 (LC 10)
Max Uplift	2=-255 (LC 6), 9=-720 (LC 11), 11=-524 (LC 6)
Max Grav	2=421 (LC 24), 9=1662 (LC 18), 11=1003 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/10, 2-3=-776/357, 3-5=-774/396, 5-6=-63/57, 7-10=0/116, 6-7=-144/180, 7-8=-40/63, 8-9=-1839/1208
BOT CHORD	2-13=-471/888, 11-13=-383/203, 10-11=-31/51, 9-10=-31/51
WEBS	3-13=-363/287, 5-13=-650/1324, 5-11=-823/532, 5-7=-271/617, 7-11=-534/246, 8-10=-104/68

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-1-13, Exterior(2E) 12-1-13 to 17-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 720 lb uplift at joint 9, 255 lb uplift at joint 2 and 524 lb uplift at joint 11.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1892 lb down and 1161 lb up at 17-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-6=-60, 7-8=-60, 9-14=-20
Concentrated Loads (lb)
Vert: 8=-1300 (F)

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Date:

November 14, 2023

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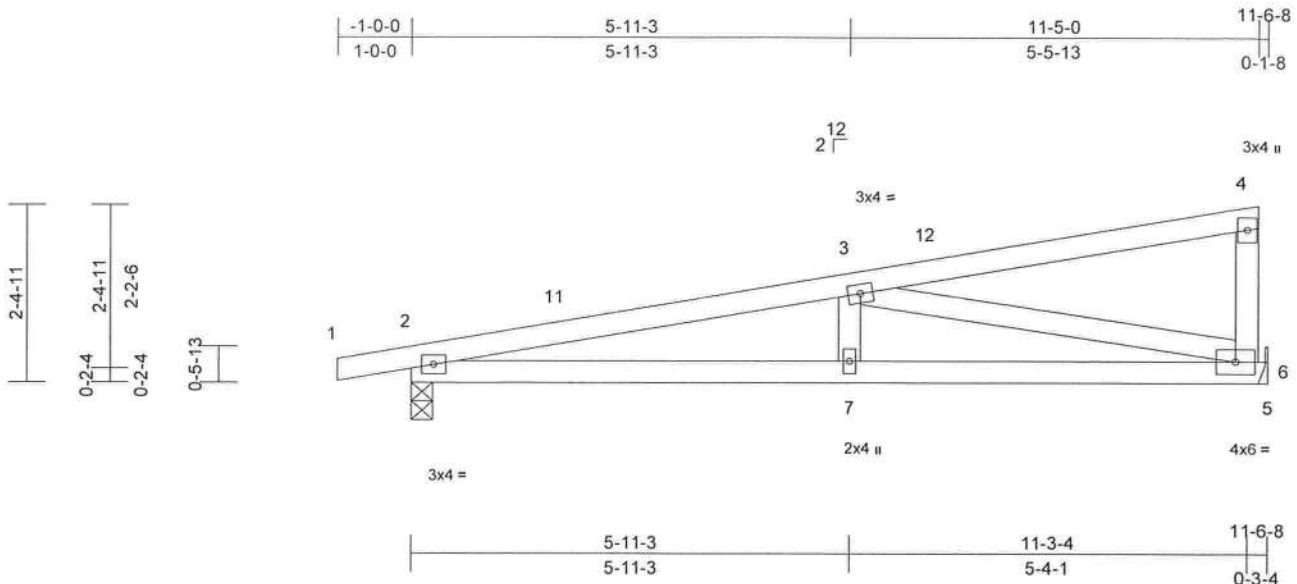
MiTek®
16023 Swingle Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	E4	Roof Special	6	1	T32098925

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:25
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Page: 1



Scale = 1:31.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.05	7-10	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.10	7-10	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	6	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.07	7-10	>999	240	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, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(size) 2=0-3-8, 6= Mechanical
	Max Horiz 2=128 (LC 9)
	Max Uplift 2=-307 (LC 6), 6=-237 (LC 6)
	Max Grav 2=513 (LC 1), 6=454 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/10, 2-3=-1362/974, 3-4=-114/97, 4-6=-177/212
BOT CHORD	2-7=-949/1422, 6-7=-949/1422, 5-6=0/0
WEBS	3-7=0/216, 3-6=-1334/967

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E)-1-0-0 to 2-0-0, Interior (1) 2-0-0 to 7-0-5, Exterior(2R) 7-0-5 to 11-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 6 and 307 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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

November 14, 2023

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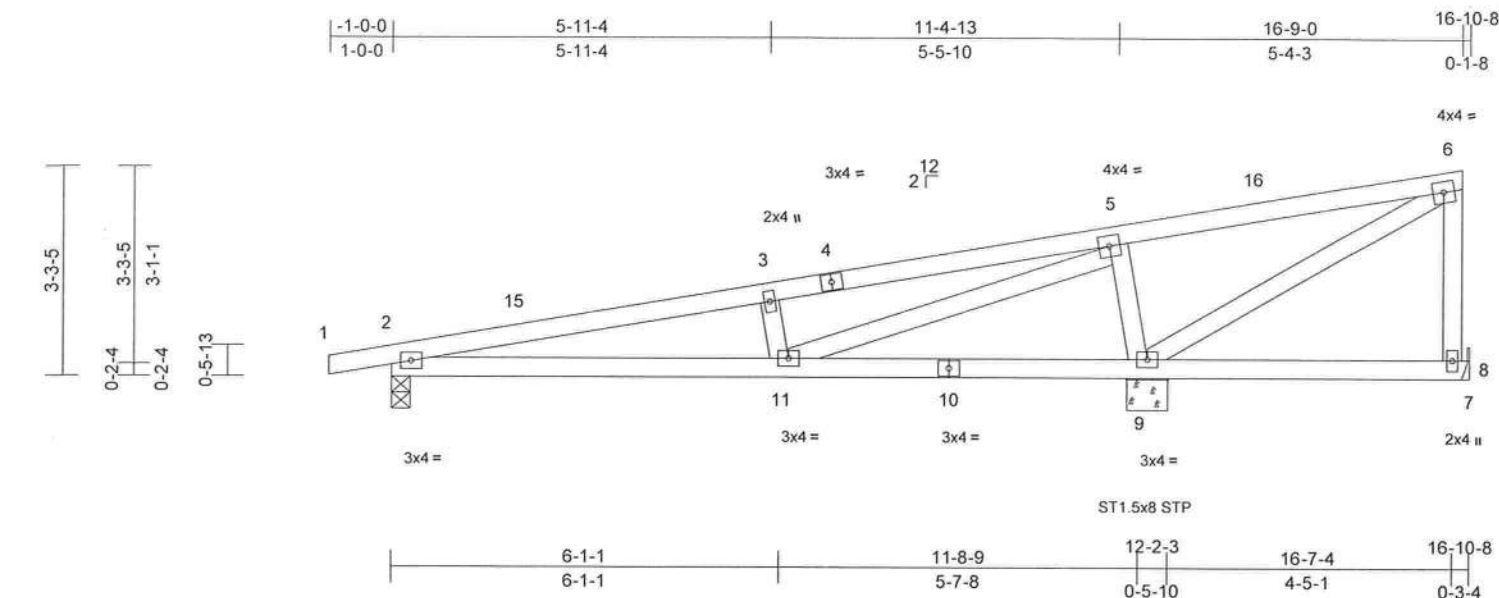
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	E5	Roof Special	2	1	T32098926

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:26
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Page: 1



Scale = 1:36.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.04	11-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.09	11-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.06	11-14	>999	240	Weight: 76 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 8= Mechanical, 9=0-7-11
Max Horiz 2=182 (LC 9)
Max Uplift 2=-260 (LC 6), 8=-40 (LC 19), 9=-532 (LC 10)
Max Grav 2=433 (LC 1), 8=24 (LC 6), 9=1001 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/10, 2-3=-848/412, 3-5=-802/418, 5-6=-216/566, 6-8=0/113
BOT CHORD 2-11=-429/955, 9-11=-347/225, 8-9=-58/85, 7-8=0/0
WEBS 3-11=-365/286, 5-11=-618/1298, 5-9=-678/451, 6-9=-598/286

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf, BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 13-7-4, Exterior(2E) 13-7-4 to 16-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: Joint 2 SP No.2, Joint 9 SP No.2.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 8, 260 lb uplift at joint 2 and 532 lb uplift at joint 9.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Date:

November 14, 2023

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Chesterfield, MO 63017
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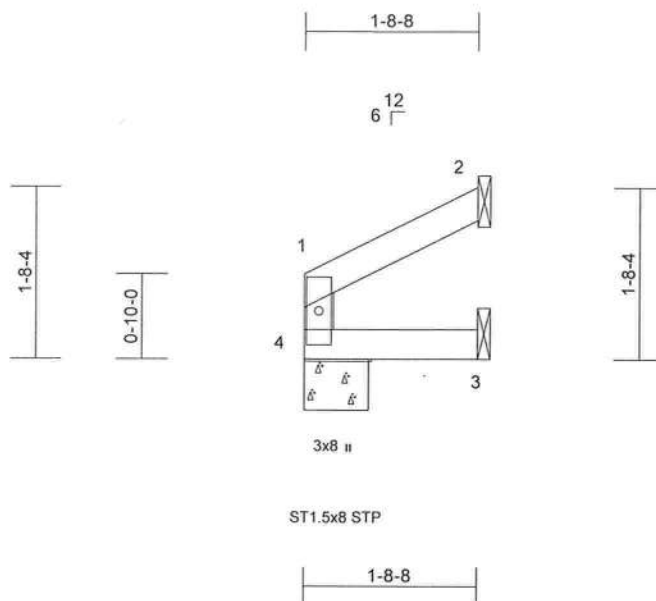
Job	Truss	Truss Type	Qty	Ply	
3698546	EJ2	Jack-Open	1	1	T32098927
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:26

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Scale = 1:22.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	0.00	3-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	3-4	>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-MR							Weight: 6 lb	FT = 20%

LUMBER

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 4, 5 lb uplift at joint 3 and 55 lb uplift at joint 2.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2= Mechanical, 3= Mechanical, 4=0-7-11
Max Horiz 4=48 (LC 7)
Max Uplift 2=-55 (LC 10), 3=-5 (LC 10), 4=-5 (LC 10)
Max Grav 2=44 (LC 1), 3=30 (LC 3), 4=62 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-55/50, 1-2=-50/29
BOT CHORD 3-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 4 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.

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

November 14, 2023

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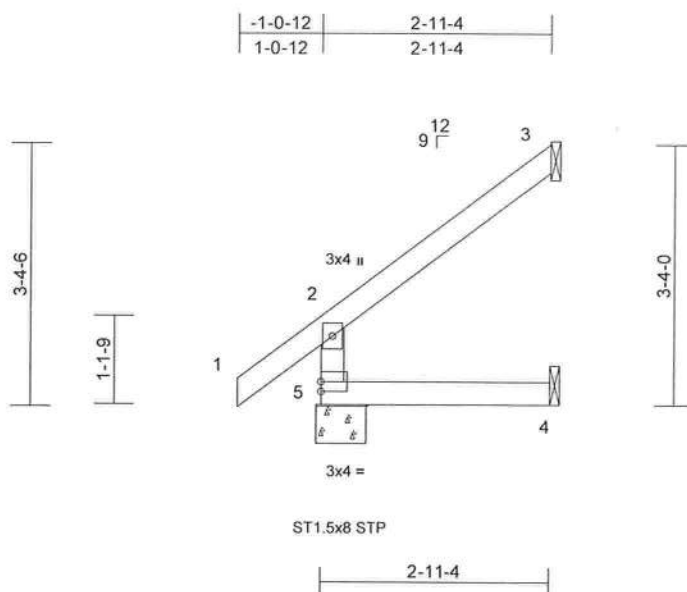
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	EJ3	Jack-Open	8	1	T32098928

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:26

Page: 1

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Scale = 1:29.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 13 lb	FT = 20%

LUMBER

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5, 118 lb uplift at joint 3 and 20 lb uplift at joint 4.

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-7-11
Max Horiz 5=152 (LC 10)
Max Uplift 3=-118 (LC 10), 4=-20 (LC 10), 5=-29 (LC 10)
Max Grav 3=93 (LC 18), 4=51 (LC 3), 5=198 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-170/198, 1-2=0/43, 2-3=-129/75
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2
- 6) Refer to girder(s) for truss to truss connections.

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Date:

November 14,2023

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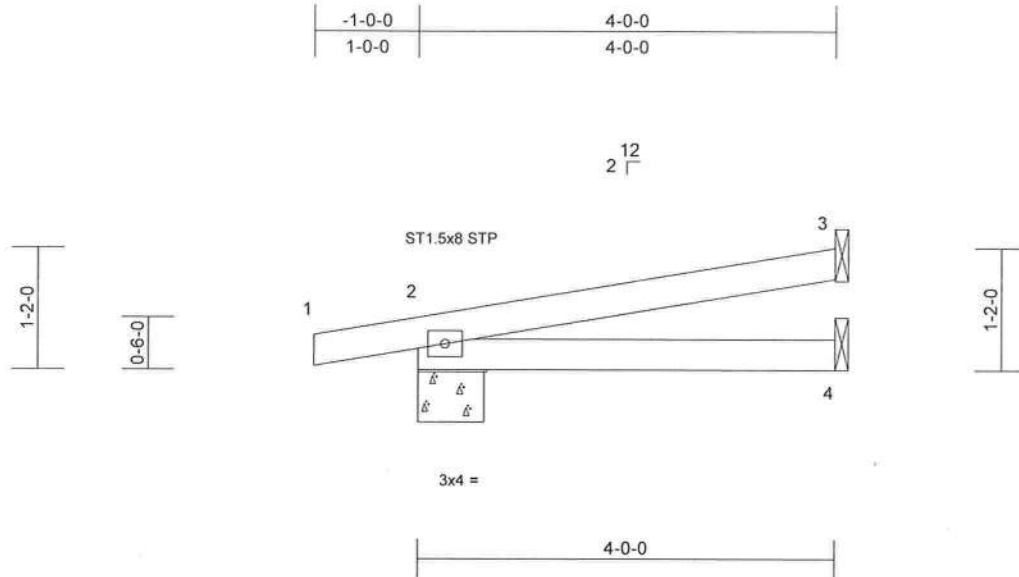
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	EJ4	Jack-Open	1	1	T32098929

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:27

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Scale = 1:22.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.01	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.02	4-7	>999	240		
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		Wind(LL)	0.02	4-7	>999	240	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 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-7-11, 3= Mechanical, 4= Mechanical
Max Horiz 2=53 (LC 6)
Max Uplift 2=-158 (LC 6), 3=-83 (LC 10)
Max Grav 2=225 (LC 1), 3=101 (LC 1), 4=71 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/10, 2-3=-84/20
BOT CHORD 2-4=-53/95

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 3 and 158 lb uplift at joint 2.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

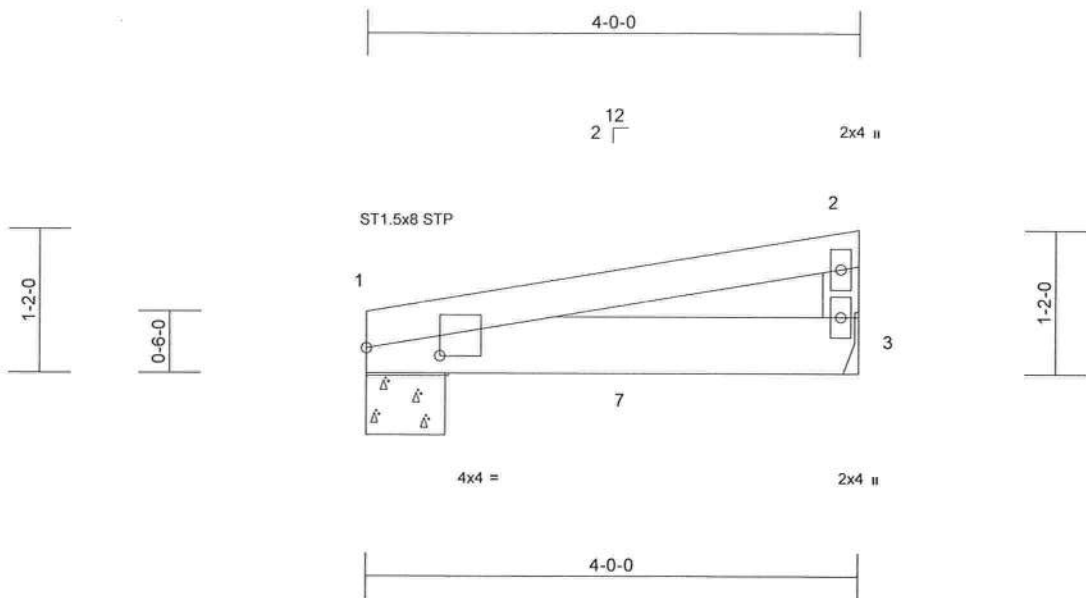
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Job	Truss	Truss Type	Qty	Ply	
3698546	EJ4G	Jack-Closed Girder	1	1	T32098930
Job Reference (optional)					



Scale = 1:18.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.02	3-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.04	3-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.03	3-6	>999	240	Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=0-7-11, 3= Mechanical
 Max Horiz 1=45 (LC 7)
 Max Uplift 1=-227 (LC 4), 3=-253 (LC 8)
 Max Grav 1=460 (LC 1), 3=506 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-395/188, 2-3=-136/87
 BOT CHORD 1-3=-228/461

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
 Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 1 and 253 lb uplift at joint 3.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 658 lb down and 318 lb up at 2-0-12 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (lb/ft)
 Vert: 1-2=-60, 3-4=-20
 Concentrated Loads (lb)
 Vert: 7=-658 (B)

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 Date:

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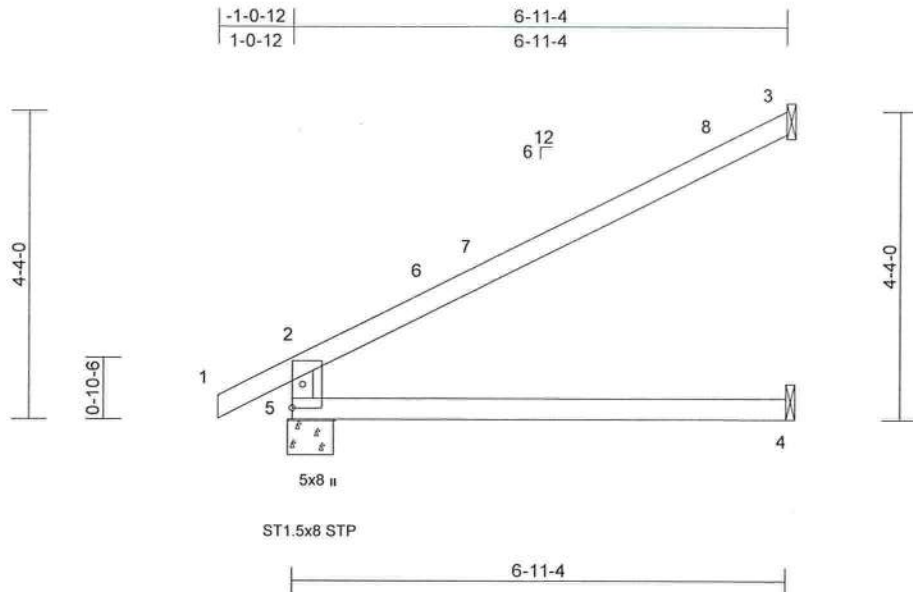
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 Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	EJ7D	Jack-Open	2	1	T32098931

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

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Page: 1



Scale = 1:32.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.09	4-5	>869	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.21	4-5	>393	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.09	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.12	4-5	>659	240	Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-7-11
Max Horiz 5=214 (LC 10)
Max Uplift 3=-195 (LC 10), 5=-131 (LC 10)
Max Grav 3=189 (LC 1), 4=125 (LC 3), 5=348 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-287/359, 1-2=0/32, 2-3=-184/110
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-8-5, Exterior(2R) 2-8-5 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 5 and 195 lb uplift at joint 3.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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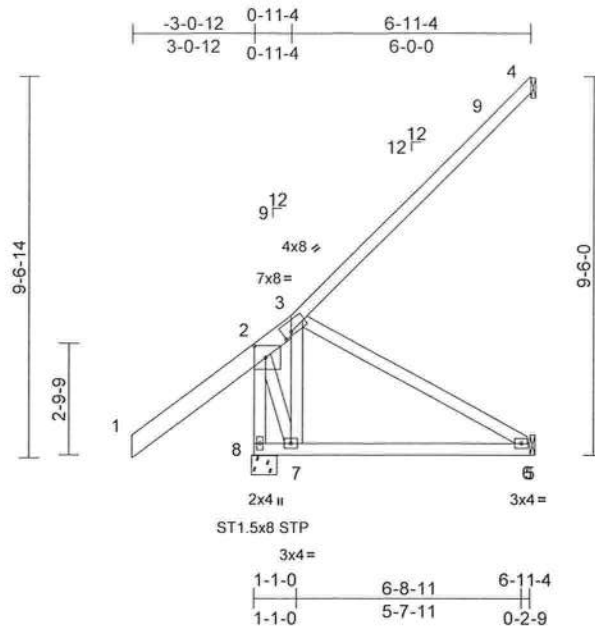
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Job	Truss	Truss Type	Qty	Ply	
3698546	EJ7M	Jack-Open	7	1	T32098932
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:27
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Page: 1



Scale = 1:58

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.03	6-7	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.07	6-7	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	-0.01	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.00	6-7	>999	240	Weight: 57 lb FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* 3-4:2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 8-2:2x4 SP 2850F 2.0E or 2x4 SP M 31

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS	(size)	4= Mechanical, 6= Mechanical, 8=0-7-11
	Max Horiz	8=457 (LC 10)
	Max Uplift	4=-249 (LC 10), 6=-181 (LC 10)
	Max Grav	4=204 (LC 18), 6=176 (LC 8), 8=508 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-8=-577/116, 1-2=0/116, 2-3=-184/145, 3-4=-300/163

BOT CHORD 7-8=-657/260, 6-7=-492/394, 5-6=0/0

WEBS 3-7=-439/107, 3-6=-446/557, 2-7=0/522

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 1-0-0, Exterior(2E) 1-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint 8 SP No.2
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 4 and 181 lb uplift at joint 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard

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Philip J. O'Regan PE No. 55126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14, 2023

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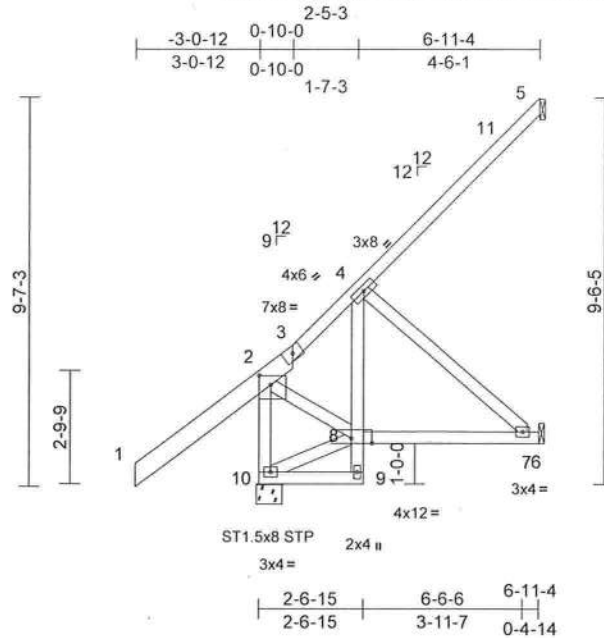
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	EJ7MT	Jack-Open	5	1	T32098933
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:28
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Page: 1



Scale = 1:57

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.02	7-8	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.04	7-8	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	-0.01	5	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.02	7-8	>999	240	
Weight: 60 lb FT = 20%											

LUMBER

TOP CHORD	2x6 SP No.2 *Except* 3-5:2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 9-4:2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 10-2:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS	(size)	5= Mechanical, 6= Mechanical, 10=0-7-11
	Max Horiz	10=458 (LC 10)
	Max Uplift	5=-179 (LC 10), 6=-253 (LC 10)
	Max Grav	5=154 (LC 18), 6=215 (LC 8), 10=508 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-10=-470/400, 1-2=0/116, 2-3=-200/22, 3-4=-184/45, 4-5=-229/118
BOT CHORD	9-10=-83/16, 8-9=-27/48, 4-8=-395/191, 7-8=-439/357, 6-7=0/0
WEBS	2-8=0/246, 8-10=-552/298, 4-7=-472/581

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 10 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 5 and 253 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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16025 Swingley Ridge Rd, Chesterfield, MO 63017
Date:

November 14,2023

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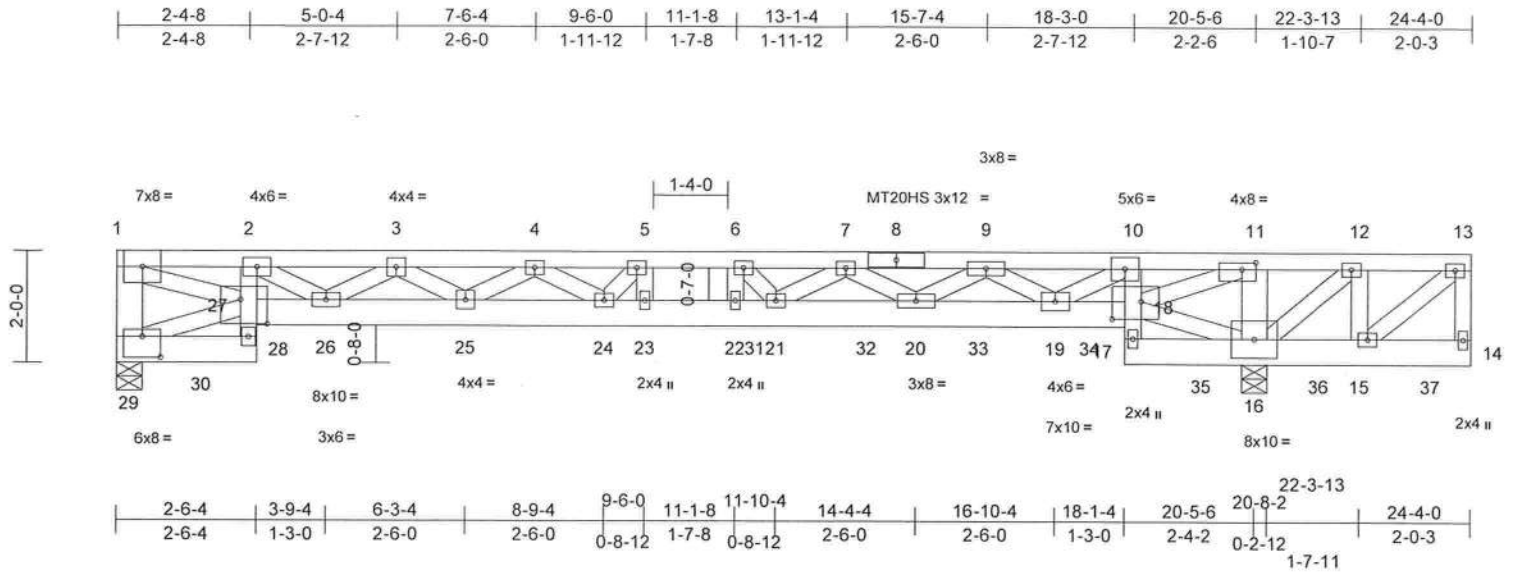
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	FG1	Roof Special Girder	1	3	T32098934

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:28
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Page: 1



Job	Truss	Truss Type	Qty	Ply	
3698546	FG1	Roof Special Girder	1	3	T32098934
			Job Reference (optional)		

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

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Page: 2

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-13=-450, 28-29=-10, 18-27=-10, 14-17=-10
Concentrated Loads (lb)
Vert: 1=-1300 (F), 30=-1071 (F), 31=-1057 (F),
32=-351 (F), 33=-364 (F), 34=-364 (F), 35=-364 (F),
36=-631 (F), 37=-237 (F)

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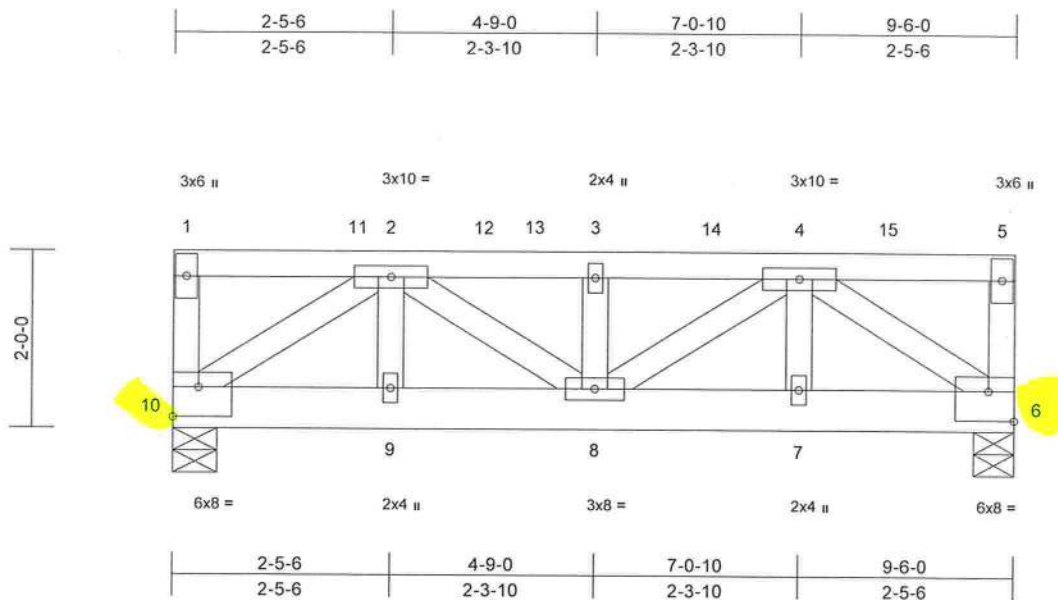
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	FG2	Flat Girder	1	2	T32098935

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:29
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Page: 1



Scale = 1:26.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.04	8	>999	360	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.05	8	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.02	6	n/a	n/a	
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	8	>999	240	
Weight: 119 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS

(size) 6=0-5-8, 10=0-6-0
Max Horiz 10=92 (LC 5)
Max Uplift 6=-1173 (LC 5), 10=-1435 (LC 4)
Max Grav 6=2783 (LC 1), 10=3461 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-1246/522, 1-2=-88/61,
2-3=-4076/1698, 3-4=-4076/1698,
4-5=-136/82, 5-6=-477/211
BOT CHORD 9-10=-1325/3071, 8-9=-1325/3071,
7-8=-1379/3225, 6-7=-1379/3225
WEBS 4-6=-3781/1591, 2-9=-50/45,
2-10=-3651/1525, 2-8=-529/1231,
3-8=-1328/576, 4-8=-438/1041, 4-7=-75/61

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 2 rows staggered at 0-3-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1435 lb uplift at joint 10 and 1173 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1040 lb down and 438 lb up at 0-1-12, 1003 lb down and 428 lb up at 2-0-12, 1003 lb down and 428 lb up at 4-0-12, 90 lb down and 97 lb up at 6-0-12, 1003 lb down and 428 lb up at 6-0-12, and 90 lb down and 97 lb up at 8-0-12, and 1003 lb down and 428 lb up at 8-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-5=-100, 6-10=-10
Concentrated Loads (lb)
Vert: 1=-1040 (B), 11=-1003 (B), 13=-1003 (B), 14=-1093 (F=-90, B=-1003), 15=-1093 (F=-90, B=-1003)

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MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

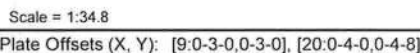
November 14,2023

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LUMBER		WEBS	2-21=-937/417, 3-20=-894/395, 4-19=-902/398, 5-18=-900/397, 6-17=-898/397, 7-16=-907/400, 8-15=-872/385, 9-14=-895/396, 10-13=-968/429, 1-21=-53/48, 11-13=-116/66
TOP CHORD	2x4 SP No.2		
BOT CHORD	2x6 SP No.2		
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		
BRACING		NOTES	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-6-0 oc. Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-8-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.	12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 21-22,20-21,12-13.	2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.	13) All bearings are assumed to be SP No.2 .
REACTIONS	(size)	3) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60	14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 22, 125 lb uplift at joint 12, 1383 lb uplift at joint 20, 389 lb uplift at joint 19, 387 lb uplift at joint 18, 385 lb uplift at joint 17, 423 lb uplift at joint 16, 389 lb uplift at joint 15, 1128 lb uplift at joint 14, 694 lb uplift at joint 21 and 1045 lb uplift at joint 13.
	Max Horiz		15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 454 lb down and 148 lb up at 0-6-8, 379 lb down and 218 lb up at 1-11-4, 1696 lb down and 1009 lb up at 3-11-4, and 1696 lb down and 1009 lb up at 16-8-12, and 379 lb down and 218 lb up at 18-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
	Max Uplift		LOAD CASE(S) Standard
			1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
	Max Grav		
FORCES			
(lb) - Maximum Compression/Maximum Tension			
TOP CHORD	1-22=-345/185, 1-2=-39/26, 2-3=-39/26, 3-4=-18/18, 4-5=-18/18, 5-6=-18/18, 6-7=-18/18, 7-8=-18/18, 8-10=-38/62, 10-11=-38/62, 11-12=-269/126		
BOT CHORD	21-22=-80/79, 19-21=-51/47, 18-19=-51/47, 17-18=-51/47, 16-17=-51/47, 15-16=-51/47, 14-15=-51/47, 13-14=-85/67, 12-13=-31/36		

November 14.2023

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	FG3	Flat Girder	1	2	T32098936
					Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:29
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Page: 2

Uniform Loads (lb/ft)
Vert: 1-11=-450 (F=-350), 12-22=-10
Concentrated Loads (lb)
Vert: 20=-1696 (B), 21=-379 (B), 23=-454 (B),
24=-1696 (B), 25=-379 (B)



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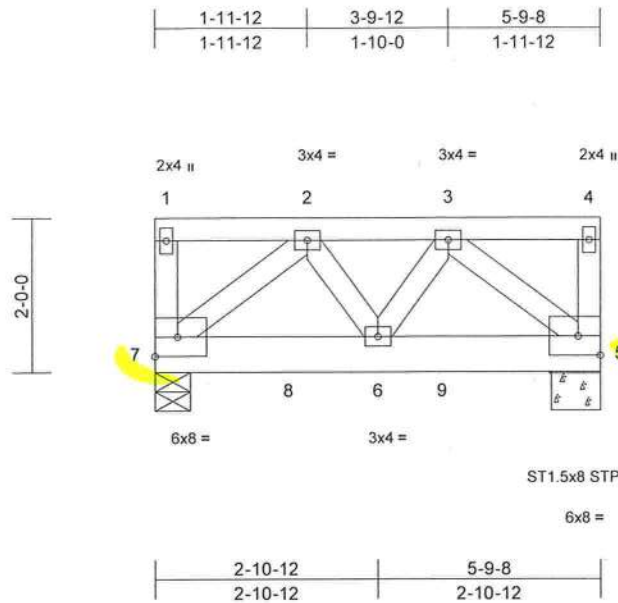
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Job	Truss	Truss Type	Qty	Ply	
3698546	FG4	Flat Girder	1	2	T32098937
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:30
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Page: 1



Scale = 1:30

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.01	6-7	>999	240	Weight: 73 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	5=0-7-11, 7=0-5-8
Max Horiz	7=-92 (LC 6)
Max Uplift	5=-924 (LC 5), 7=-951 (LC 4)
Max Grav	5=2131 (LC 1), 7=2189 (LC 1)

FORCES

TOP CHORD	1-7=-459/200, 1-2=-34/26, 2-3=-1933/833, 3-4=-34/26, 4-5=-459/200
BOT CHORD	6-7=-798/1736, 5-6=-783/1736
WEBS	2-6=-183/400, 2-7=-2320/1020, 3-6=-183/400, 3-5=-2320/1019

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf, BCDL=3.0psf, h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 951 lb uplift at joint 7 and 924 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 483 lb down and 222 lb up at 1-8-12, and 483 lb down and 222 lb up at 3-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-4=-600, 5-7=-10
Concentrated Loads (lb)
Vert: 8=-483 (B), 9=-483 (B)

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

November 14, 2023

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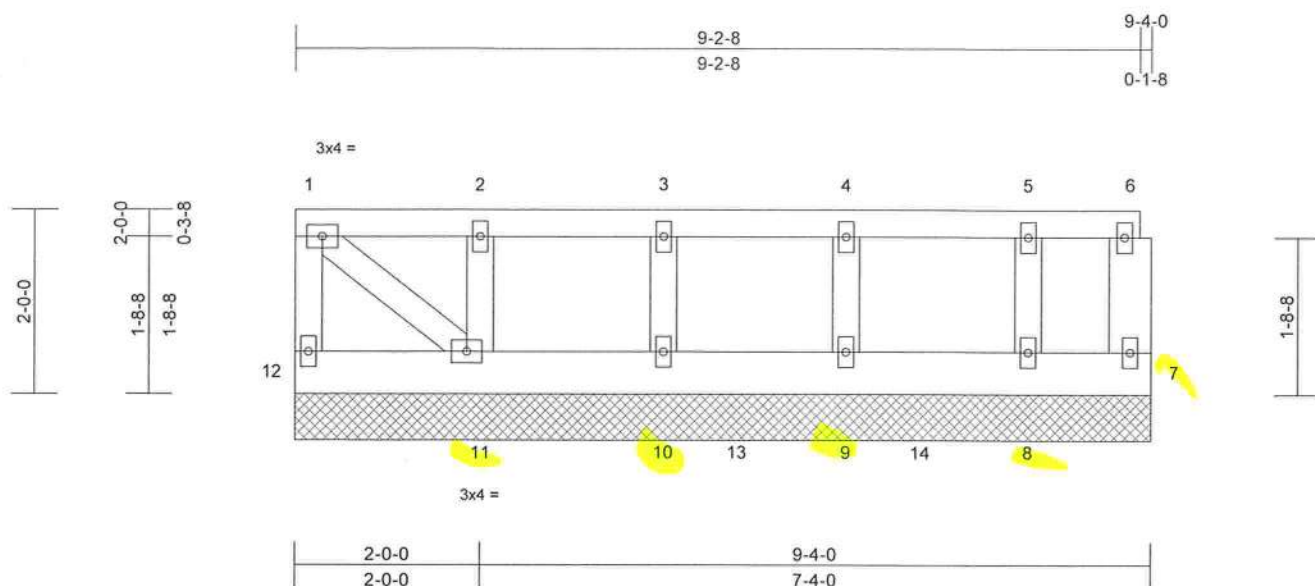
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	FG5	Flat Girder	1	2	T32098938

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:30
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.11	Horiz(TL)	0.00	7	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 101 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 6-7:2x6 SP No.2
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
	10-0-0 oc bracing: 11-12.

REACTIONS	(size)	7=9-4-0, 8=9-4-0, 9=9-4-0, 10=9-4-0, 11=9-4-0, 12=9-4-0
	Max Horiz	12=-92 (LC 4)
	Max Uplift	7=-286 (LC 5), 8=-444 (LC 4), 9=-686 (LC 5), 10=-768 (LC 4), 11=-667 (LC 5), 12=-425 (LC 4)
	Max Grav	7=552 (LC 1), 8=979 (LC 1), 9=1473 (LC 1), 10=1611 (LC 1), 11=1378 (LC 1), 12=797 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-12=-327/181, 1-2=-29/25, 2-3=-29/25, 3-4=-29/25, 4-5=-29/25, 5-6=-29/25, 6-7=-160/71
BOT CHORD	11-12=-77/70, 10-11=-39/30, 9-10=-39/30, 8-9=-39/30, 7-8=-39/30
WEBS	2-11=-940/416, 3-10=-886/391, 4-9=-933/412, 5-8=-762/337, 1-11=-75/70

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 425 lb uplift at joint 12, 286 lb uplift at joint 7, 768 lb uplift at joint 10, 686 lb uplift at joint 9, 444 lb uplift at joint 8 and 667 lb uplift at joint 11.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 448 lb down and 241 lb up at 0-1-12, 444 lb down and 244 lb up at 2-3-4, 444 lb down and 244 lb up at 4-3-4, 444 lb down and 244 lb up at 4-9-12, and 444 lb down and 244 lb up at 6-9-12, and 447 lb down and 242 lb up at 9-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-6=-450, 7-12=-10
Concentrated Loads (lb)
Vert: 12=-448 (F), 7=-447 (F), 10=-444 (F), 11=-444 (F), 13=-444 (F), 14=-444 (F)

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

November 14,2023

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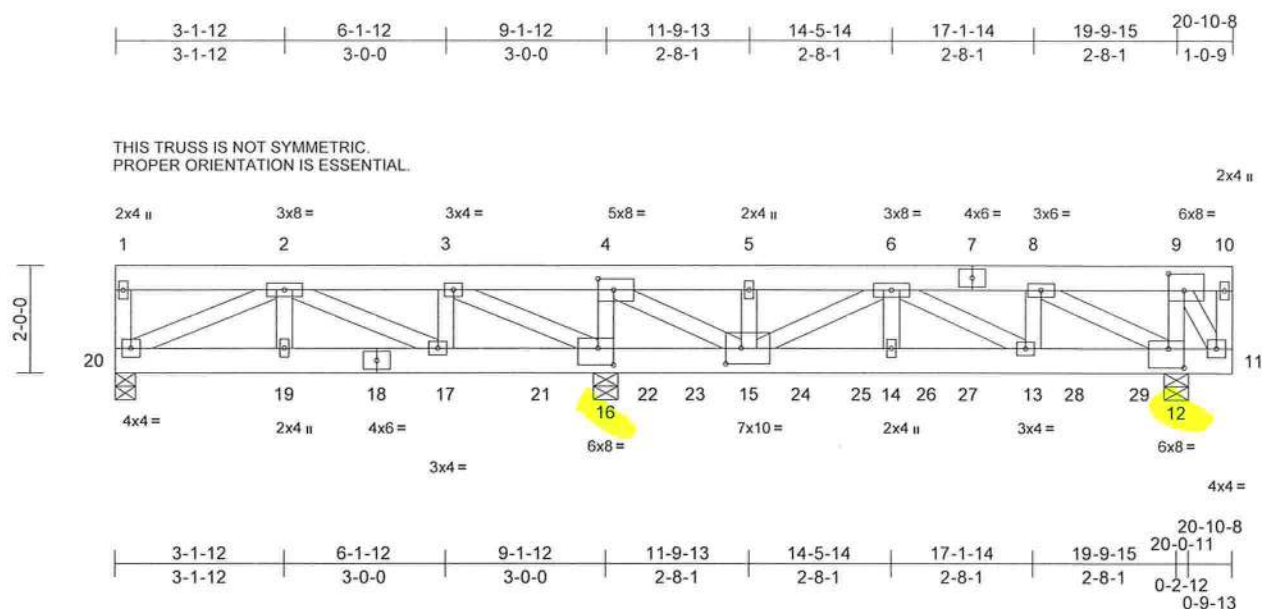
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	FG6	Flat Girder	1	2	T32098939

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:31
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Page: 1



Scale = 1:43.1

Plate Offsets (X, Y): [4:0-3-8,0-2-8], [9:0-3-8,0-3-12], [12:0-3-8,0-4-4], [15:0-3-8,0-3-8], [16:0-3-8,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.07	14	>999	360	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.09	14	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.02	12	n/a	n/a	
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	-0.06	14	>999	240	
Weight: 285 lb FT = 20%											

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	8-12,15-4,15-6,13-6:2x4 SP No.2

BRACING

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

REACTIONS

(size)	12=0-5-8, 16=0-5-8, 20=0-4-8
Max Horiz	20=87 (LC 7)
Max Uplift	12=-2112 (LC 5), 16=-2664 (LC 9), 20=-477 (LC 6)
Max Grav	12=5726 (LC 15), 16=7075 (LC 15), 20=215 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-20=-130/69, 1-2=-17/31, 2-3=-531/2157, 3-4=-1132/3080, 4-5=-3908/1277, 5-6=-3908/1277, 6-8=-5829/2014, 8-9=-561/218, 9-10=-30/22, 10-11=-149/416
BOT CHORD	19-20=-803/148, 17-19=-803/148, 16-17=-2140/565, 15-16=-3063/1138, 14-15=-2501/7356, 13-14=-2501/7356, 12-13=-2005/5846, 11-12=-210/578
WEBS	4-16=-5792/2134, 9-12=-1887/832, 9-11=-1156/397, 8-12=-6082/2074, 5-15=-2365/1017, 4-15=-2732/8068, 6-15=-3962/1427, 6-14=-1119/524, 6-13=-1744/576, 8-13=-1119/749, 3-16=-1410/676, 2-19=0/95, 2-20=-130/935, 2-17=-1504/498, 3-17=-272/610

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 5-15 2x4 - 2 rows staggered at 0-2-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCCL=4.2psf; BCDL=3.0psf, h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 477 lb uplift at joint 20, 2664 lb uplift at joint 16 and 2112 lb uplift at joint 12.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 180 lb down and 109 lb up at 5-11-4, 180 lb down and 109 lb up at 7-11-4, 412 lb down and 988 lb up at 9-11-4, 18 lb down and 50 lb up at 10-9-12, 412 lb down and 988 lb up at 11-11-4, 18 lb down and 50 lb up at 12-9-12, 412 lb down and 988 lb up at 13-11-4, 81 lb down and 56 lb up at 15-1-12, 412 lb down and 988 lb up at 15-11-4, 81 lb down and 56 lb up at 17-1-12, and 412 lb down and 988 lb up at 17-11-4, and 81 lb down and 56 lb up at 19-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-4=-100, 4-10=-900, 11-20=-10
Concentrated Loads (lb)
Vert: 15=277 (B), 13=-81 (F), 17=-180 (B), 21=-180 (B), 22=277 (B), 23=27 (F), 24=27 (F), 25=277 (B), 26=-81 (F), 27=277 (B), 28=277 (B), 29=-81 (F)

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

November 14,2023

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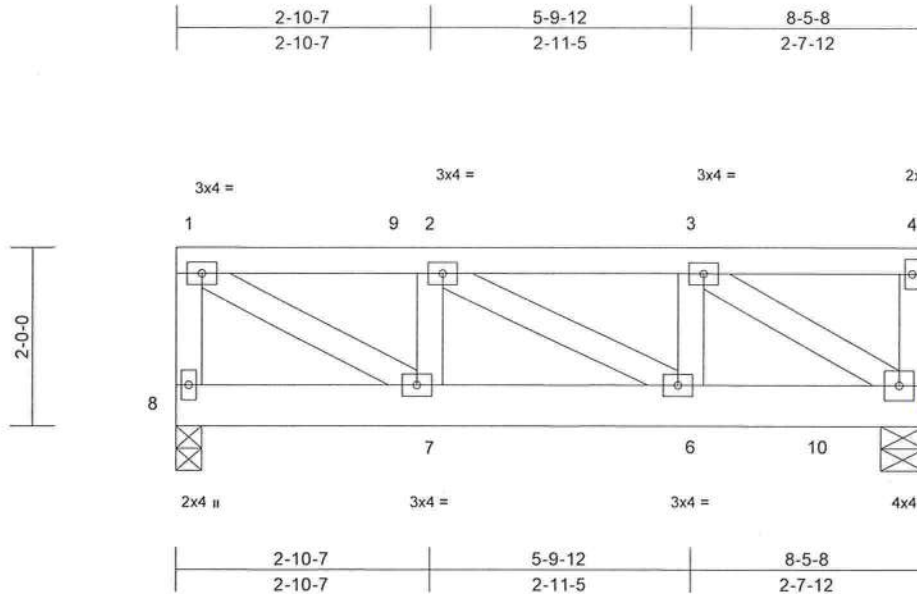
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	FG7	Flat Girder	1	2	T32098940
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:31
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Page: 1



Scale = 1:25.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.01	6	>999	360	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.02	5-6	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	5	n/a	n/a	
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.01	5-6	>999	240	Weight: 104 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)

5=0-6-0, 8=0-3-8
Max Horiz 8=-92 (LC 4)
Max Uplift 5=-947 (LC 5), 8=-311 (LC 4)
Max Grav 5=2120 (LC 1), 8=710 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-8=-664/301, 1-2=-926/405, 2-3=-1503/660, 3-4=-144/86, 4-5=-550/242
BOT CHORD	7-8=-82/68, 6-7=-445/926, 5-6=-682/1503
WEBS	3-5=-1624/714, 2-7=-566/285, 1-7=-456/1032, 2-6=-308/685, 3-6=-121/302

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-6-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 8 and 947 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 972 lb down and 443 lb up at 7-3-0, and 84 lb down and 54 lb up at 8-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-3=-100, 3-4=-450 (F=-350), 5-8=-10
Concentrated Loads (lb)
Vert: 5=-84 (F), 10=-972 (F)

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

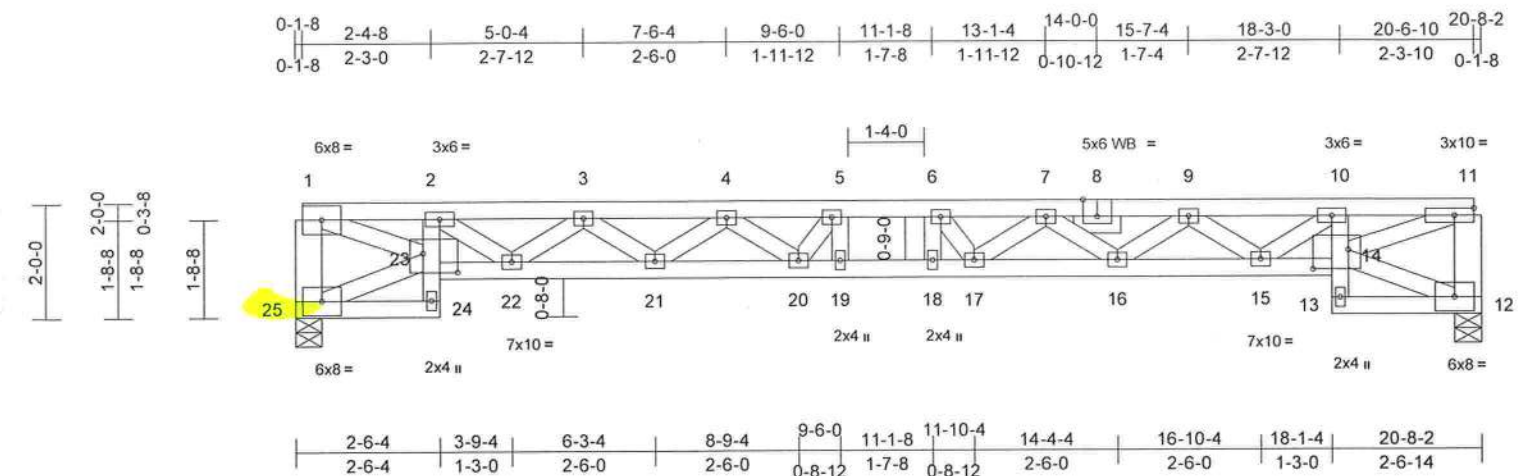
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	FT1	Roof Special	2	1	T32098941
Job Reference (optional)					



Scale = 1/40.3

Plate Offsets (X, Y): [8:0-3-0,Edge], [14:0-7-8,0-4-0], [23:0-7-4,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.49	18-19	>497	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.67	18-19	>362	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.24	12	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.44	18-19	>557	240	Weight: 111 lb	FT = 20%

LUMBER		WEBS	23-25=-200/287, 1-23=-1820/2340, 12-14=-196/206, 11-14=-1892/2386, 2-22=-559/640, 10-15=-499/624, 3-22=-1099/938, 9-15=-1091/909, 3-21=-540/681, 9-16=-509/672, 4-21=-650/571, 7-16=-642/543, 4-20=-235/300, 7-17=-202/290, 5-20=-232/222, 6-17=-219/177, 5-19=-17/32, 6-18=-2/29	LOAD CASE(S) Standard
TOP CHORD	2x4 SP No.2			1) Dead + Roof Live (balanced); Lumber Increase=1.00, Plate Increase=1.00
BOT CHORD	2x4 SP No.2 "Except" 24-2, 10-13:2x4 SP No.3, 23-14:2x4 SP 2850F 2.0E or 2x4 SP M 31			Uniform Loads (lb/ft)
WEBS	2x4 SP No.3 "Except" 25-1, 11-12:2x6 SP No.2, 23-1, 14-11:2x4 SP No.2			Vert: 1-11=-100, 24-25=-10, 14-23=-10, 12-13=-10
OTHERS	2x4 SP No.3			Concentrated Loads (lb)
BRACING				Vert: 1=-1300 (F)

TOP CHORD	Structural wood sheathing directly applied or 1-11-7 oc purlins, except end verticals.	NOTES	1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
BOT CHORD	Rigid ceiling directly applied or 3-9-11 oc bracing.		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.
REACTIONS	(size) 12=0-5-8, 25=0-5-8 Max Horiz 25=-97 (LC 6) Max Uplift 12=-470 (LC 7), 25=-1014 (LC 6) Max Grav 12=1112 (LC 1), 25=2412 (LC 1)		3) Provide adequate drainage to prevent water ponding.
FORCES	(lb) - Maximum Compression/Maximum Tension		4) All plates are 3x4 MT20 unless otherwise indicated.
TOP CHORD	1-25=-2601/1872, 1-2=-2227/1700, 2-3=-3011/2357, 3-4=-4378/3492, 4-5=-5109/4112, 5-6=-5242/4239, 6-7=-5116/4138, 7-9=-4400/3566, 9-10=-3046/2476, 10-11=-2278/1860, 11-12=-1023/829		5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
BOT CHORD	24-25=-165/240, 23-24=0/29, 2-23=-565/525, 22-23=-1823/2546, 21-22=-2972/3855, 20-21=-3825/4878, 19-20=-4133/5242, 18-19=-4133/5242, 17-18=-4133/5242, 16-17=-3877/4893, 15-16=-3069/3884, 14-15=-1990/2571, 13-14=0/30, 10-14=-557/486, 12-13=-179/232		6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
			7) All bearings are assumed to be SP No.2.
			8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1014 lb uplift at joint 25 and 470 lb uplift at joint 12.
			9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1613 lb down and 1063 lb up at 0-2-12 on top 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).

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

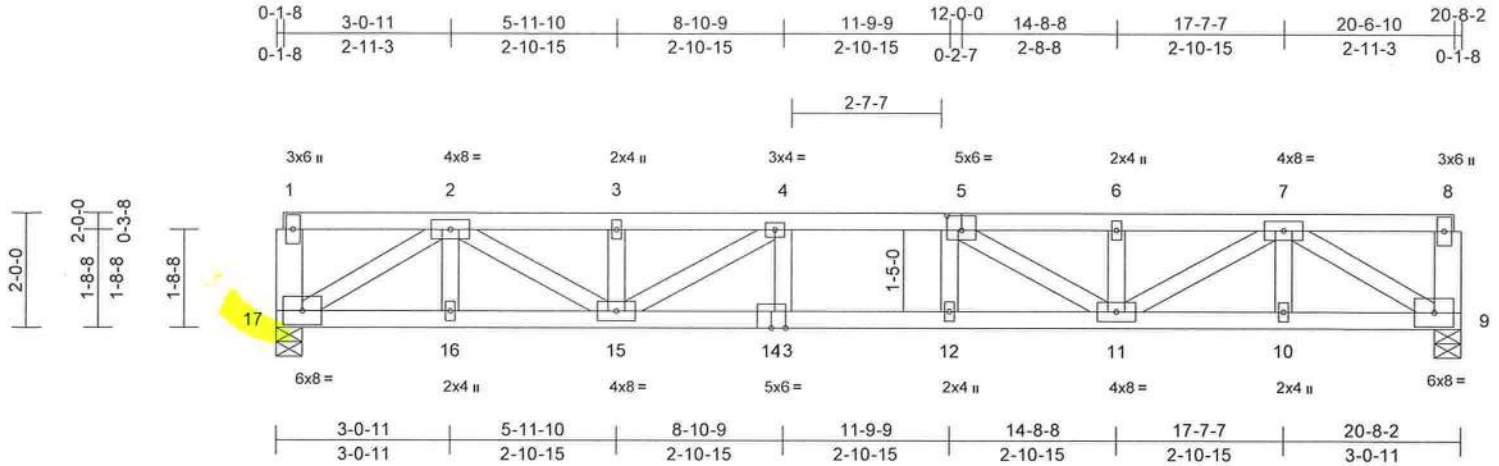
November 14,2023

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	FT2	Flat	4	1	T32098942

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:32
ID: CelBRJshCxCMvA9WsdQJzyJeHG-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKwCDoi7J4zJC7f

Page: 1



Scale = 1:40.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.22	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.30	12-13	>812	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.07	9	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.20	12-13	>999	240	Weight: 107 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except* 17-1,8-9:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-11-7 oc bracing.

REACTIONS

(size) 9=0-5-8, 17=0-5-8
Max Horiz 17=97 (LC 7)
Max Uplift 9=470 (LC 7), 17=1014 (LC 6)
Max Grav 9=1112 (LC 1), 17=2412 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-17=-1742/1192, 1-2=-80/47,
2-3=-2687/2187, 3-4=-2687/2187,
4-6=-3227/2649, 6-7=-2678/2218,
7-8=-51/91, 8-9=-138/131

BOT CHORD

16-17=-1191/1609, 15-16=-1191/1609,
13-15=-2543/3227, 12-13=-2543/3227,
11-12=-2545/3222, 10-11=-1253/1610,
9-10=-1253/1610

WEBS

7-9=-1825/1482, 2-16=0/84,
2-17=-1826/1510, 2-15=-1031/1250,
3-15=-282/268, 4-15=-626/536, 4-13=0/85,
5-12=0/90, 5-11=-643/511, 6-11=-262/253,
7-11=-996/1238, 7-10=0/85

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1014 lb uplift at joint 17 and 470 lb uplift at joint 9.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1613 lb down and 1063 lb up at 0-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-8=-100, 9-17=-10
Concentrated Loads (lb)
Vert: 1=-1300 (F)

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

November 14,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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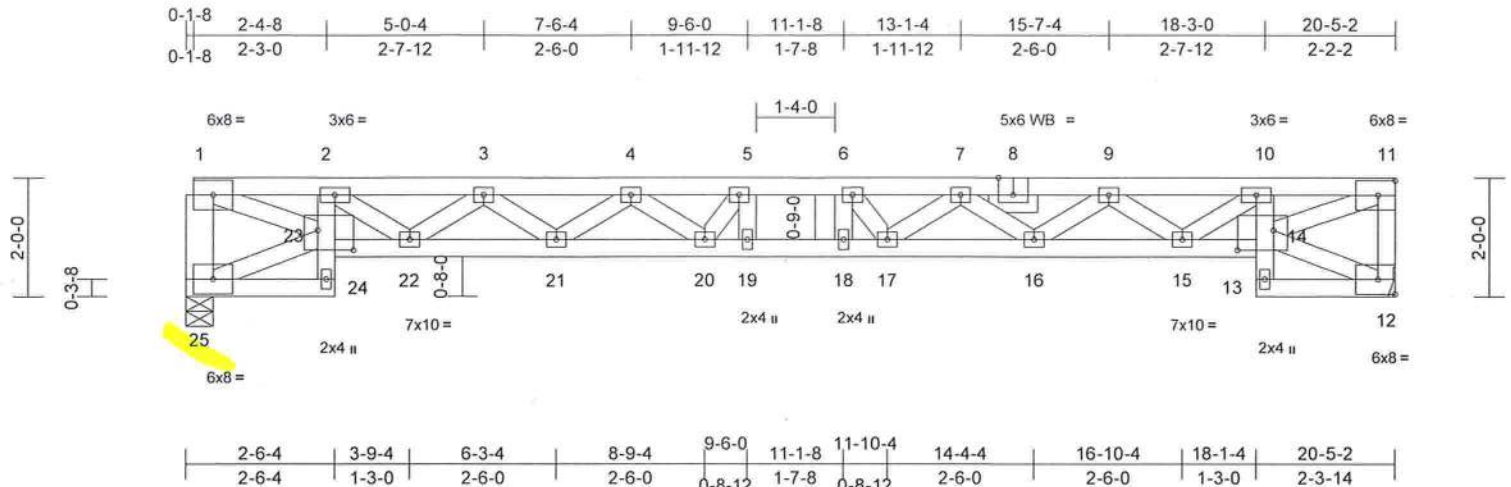
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	FT3	Roof Special	5	1	T32098943
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 E Oct 19 2023 Print: 8.720 E Oct 19 2023 MiTek Industries, Inc. Tue Nov 14 10:56:01
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Page: 1



Scale = 1:38.9

Plate Offsets (X, Y): [8:0-3-0,Edge], [14:0-7-4,0-4-0], [23:0-7-4,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.47	18-19	>510	360	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.65	18-19	>371	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.23	12	n/a	n/a	
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.43	18-19	>555	240	Weight: 109 lb FT = 20%

LUMBER		WEBS	
TOP CHORD	2x4 SP No.2		1-25=-2303/1910, 23-25=-255/207,
BOT CHORD	2x4 SP No.2 "Except" 24-2,10-13:2x4 SP No.3, 23-14:2x4 SP 2850F 2.0E or 2x4 SP M 31		1-23=-1980/2394, 12-14=-235/191,
			2-22=-493/625, 10-15=-521/660,
			3-22=-1079/916, 9-15=-1100/933,
			3-21=-519/669, 9-16=-536/689,
			4-21=-639/554, 7-16=-657/569,
			4-20=-211/284, 7-17=-229/305,
			5-20=-211/188, 6-17=-240/212, 5-19=0/26,
			6-18=-9/35, 11-14=-1909/2309,
			11-12=-1007/842
OTHERS	2x4 SP No.3		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 2-0-2 oc purlins.		
BOT CHORD	Rigid ceiling directly applied or 3-9-2 oc bracing.		
REACTIONS	(lb/size) 12=1103/ Mechanical, 25=2403/0-5-8		
	Max Uplift 12=-462 (LC 6), 25=-1006 (LC 6)		
FORCES	(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=-2229/1843, 2-3=-2983/2446, 3-4=-4326/3548, 4-5=-5034/4136, 5-6=-5155/4244, 6-7=-5018/4122, 7-8=-4279/3509, 8-9=-4279/3509, 9-10=-2904/2381, 10-11=-2134/1764		
BOT CHORD	24-25=-192/237, 23-24=0/38, 2-23=-597/516, 22-23=-2072/2507, 21-22=-3149/3812, 20-21=-3974/4817, 19-20=-4244/5155, 18-19=-4244/5155, 17-18=-4244/5155, 16-17=-3946/4783, 15-16=-3098/3750, 14-15=-1984/2401, 13-14=0/36, 10-14=-611/526, 12-13=-175/216		

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=3.0psf, h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: Joint 25 SP No.2 crushing capacity of 565 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1006 lb uplift at joint 25 and 462 lb uplift at joint 12.

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1300 lb down and 1070 lb up at 0-2-12 on top 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=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-11=-100, 24-25=-10, 14-23=-10, 12-13=-10
Concentrated Loads (lb)
Vert: 1=-1300 (F)

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

November 14, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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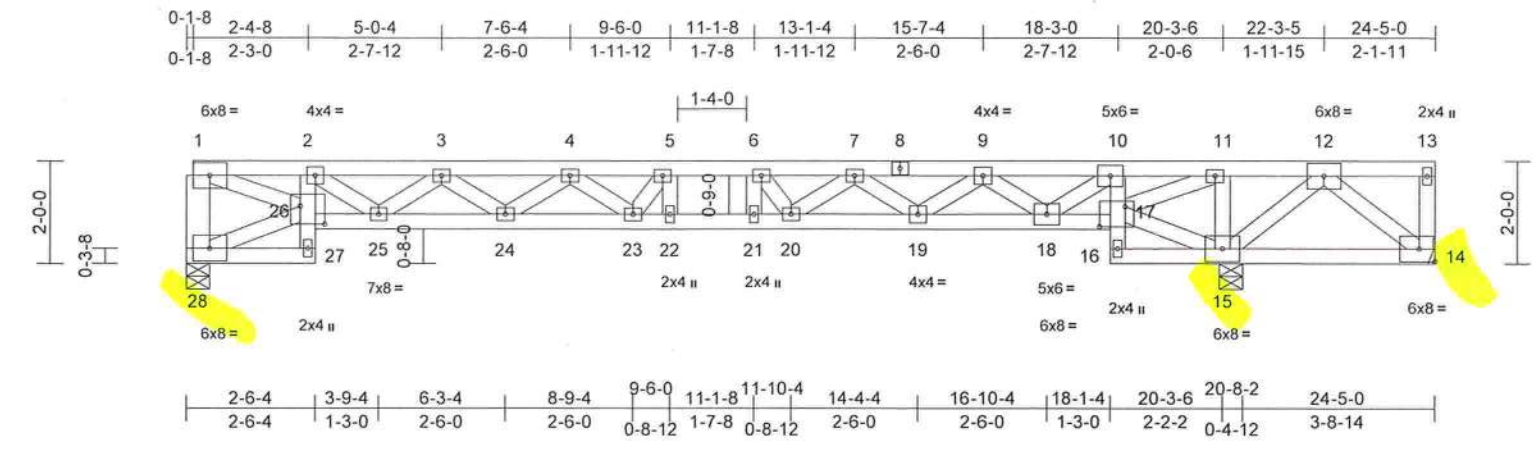
16023 Swingle Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	FT4	Roof Special	5	1	T32098944
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:33
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Page: 1



Scale = 1:45

Plate Offsets (X, Y): [17:0-6-0,0-4-12], [26:0-5-12,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.26	22-23	>911	360	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.36	22-23	>662	240	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.09	15	n/a	n/a	
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.22	22-23	>999	240	Weight: 129 lb FT = 20%

LUMBER		WEBS	1-28=-2364/1549, 26-28=-205/248, 1-26=-1299/1817, 15-17=-2604/1973, 2-25=-311/380, 10-18=-1447/1964, 3-25=-711/573, 9-18=-1469/1117, 3-24=-222/315, 9-19=-775/1087, 4-24=-297/262, 7-19=-1004/768, 4-23=-134/108, 7-20=-504/720, 5-23=-227/348, 6-20=-784/584, 5-22=-322/241, 6-21=-236/345, 11-17=-263/374, 11-15=-358/289, 12-15=-1933/1444, 12-14=-1166/1616
TOP CHORD	2x4 SP No.2		
BOT CHORD	2x4 SP No.2 *Except* 27-2,10-16:2x4 SP No.3, 26-17:2x4 SP No.1		
WEBS	2x4 SP No.3 *Except* 28-1:2x6 SP No.2		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 2-11-6 oc purlins, except end verticals.		
BOT CHORD	Rigid ceiling directly applied or 3-8-12 oc bracing.		
REACTIONS	(size) 14= Mechanical, 15=0-5-8, 28=0-5-8		
	Max Horiz 28=72 (LC 9)		
	Max Uplift 14=-978 (LC 1), 15=-1167 (LC 7), 28=-911 (LC 6)		
	Max Grav 14=418 (LC 7), 15=2758 (LC 1), 28=2165 (LC 1)		

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-1692/1210, 2-3=-2195/1601, 3-4=-2983/2212, 4-5=-3108/2330, 5-6=-2909/2200, 6-7=-2459/1865, 7-9=-1134/887, 9-10=-566/830, 10-11=-1696/2360, 11-12=-1940/2706, 12-13=-41/43, 13-14=-75/71
BOT CHORD	27-28=-124/191, 26-27=0/37, 2-26=-459/399, 25-26=-1259/1909, 24-25=-1935/2741, 23-24=-2307/3211, 22-23=-2094/2909, 21-22=-2094/2909, 20-21=-2094/2909, 19-20=-1372/1905, 18-19=-186/306, 17-18=-2412/1837, 16-17=-57/48, 10-17=-1441/1097, 15-16=-312/231, 14-15=-1238/949

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 28 SP No.2, Joint 15 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 978 lb uplift at joint 14, 911 lb uplift at joint 28 and 1167 lb uplift at joint 15.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1613 lb down and 976 lb up at 0-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S) Standard**
- Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-13=-100, 27-28=-10, 17-26=-10, 14-16=-10
Concentrated Loads (lb)
Vert: 1=-1300 (F)

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16025 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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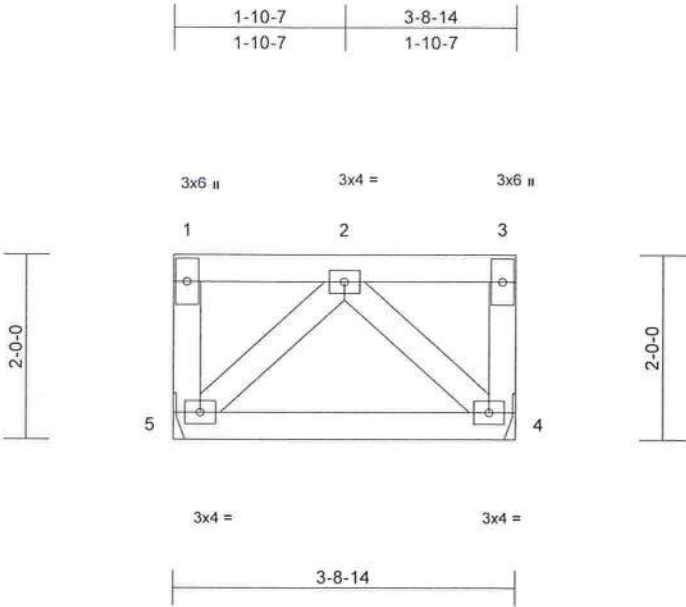
MiTek
16025 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	FT5	Flat	2	1	T32098945
					Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 E Oct 19 2023 Print: 8.720 E Oct 19 2023 MiTek Industries, Inc. Tue Nov 14 10:57:14
ID:hH4yQpm97Sk9ZZRjxb?BmFyJdJE-EcJm7lkDbgiyb3xnYVF3C5bmON5mxboOaEJvxxmyJTDZ

Page: 1



Scale = 1:25.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 5 and 103 lb uplift at joint 4.

LOAD CASE(S) Standard

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

REACTIONS (lb/size) 4=190/ Mechanical, 5=190/ Mechanical
Max Horiz 5=-97 (LC 6)
Max Uplift 4=-103 (LC 7), 5=-103 (LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-67/104, 1-2=-49/27, 2-3=-36/53, 3-4=-67/104
BOT CHORD 4-5=-100/164
WEBS 2-5=-149/294, 2-4=-191/172

NOTES
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.

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

November 14, 2023

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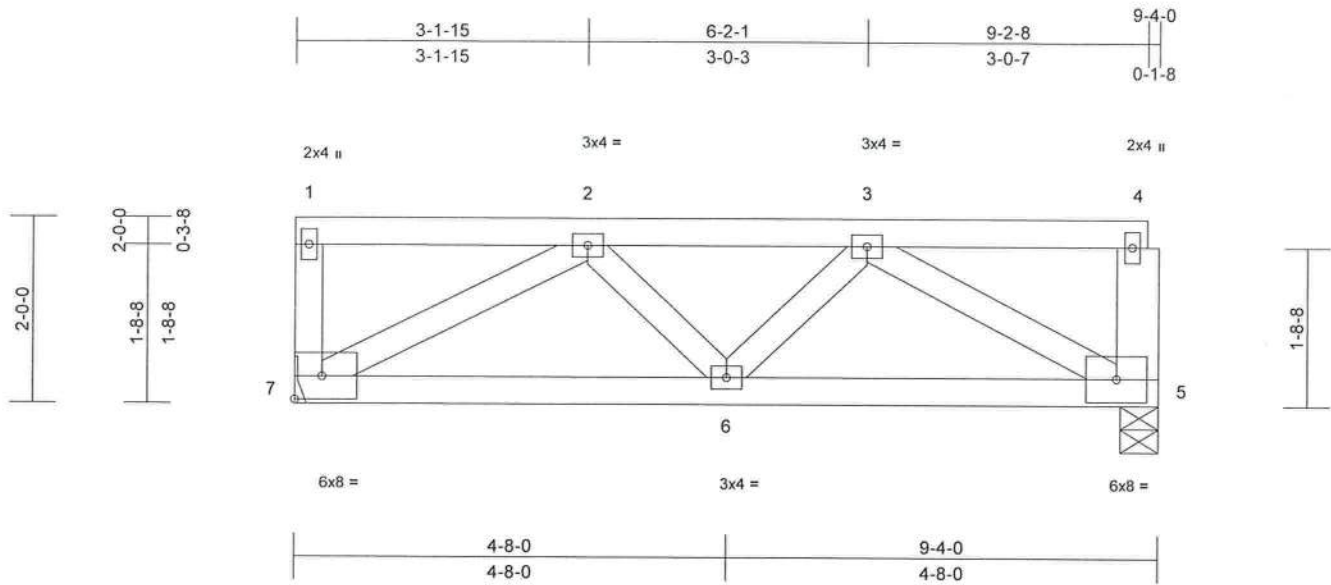
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	FT6	Flat	2	1	T32098946

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:34
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Page: 1



Scale = 1:24.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.02	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.02	6	>999	240	Weight: 48 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 5=0-5-0, 7= Mechanical
Max Horiz 7=97 (LC 7)
Max Uplift 5=-216 (LC 7), 7=-216 (LC 6)
Max Grav 5=493 (LC 1), 7=493 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-136/176, 1-2=-62/36, 2-3=-624/697, 3-4=-45/86, 4-5=-138/180
BOT CHORD 6-7=-604/659, 5-6=-617/627
WEBS 2-7=-673/825, 3-5=-657/736, 3-6=0/102, 2-6=0/98

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: Joint 5 SP No.2.

- 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 7 and 216 lb uplift at joint 5.
- LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

November 14, 2023

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MiTek®

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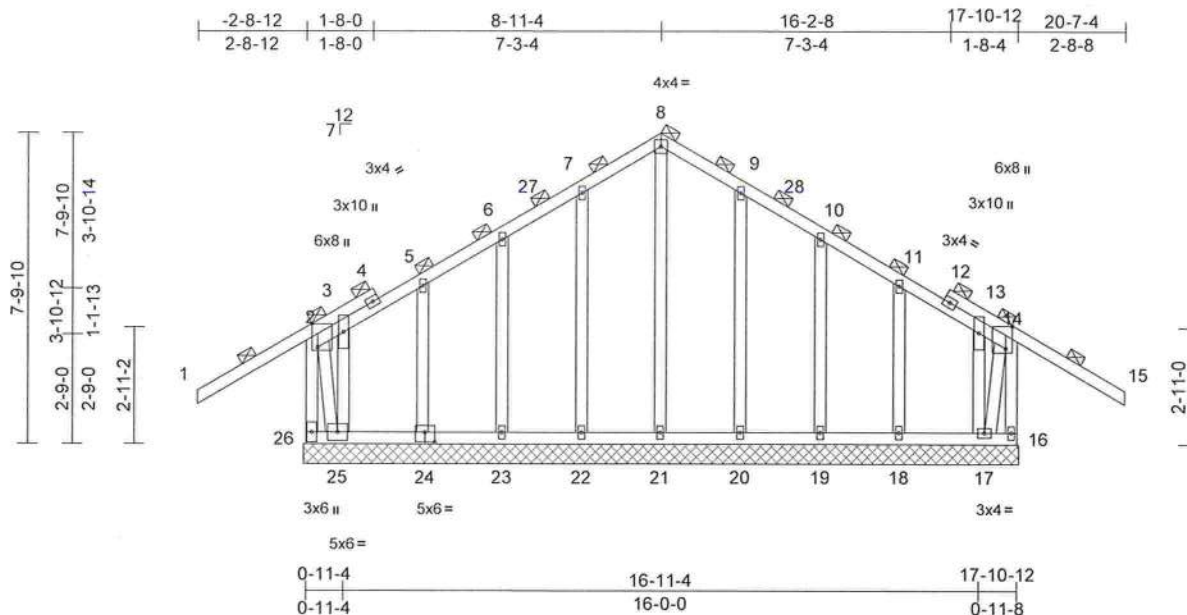
Job	Truss	Truss Type	Qty	Ply	
3698546	G1	Common Supported Gable	2	1	T32098947
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 E Oct 19 2023 Print: 8.720 E Oct 19 2023 MiTek Industries, Inc. Tue Nov 14 10:58:25

Page: 1

ID: eYBX_Gm221qbjAlHOL?1?dyK1bk-fH5c10bmtVeuczsRCw1ia32k57J33gdrvn?9w9yJTCS



Scale = 1:58

Plate Offsets (X, Y): [2:0-7-0,0-1-12], [14:0-6-12,0-2-0], [24:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.01	16	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 149 lb FT = 20%											

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

BRACING
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size)
 16=247/18-0-0, 17=55/18-0-0,
 18=140/18-0-0, 19=162/18-0-0,
 20=166/18-0-0, 21=211/18-0-0,
 22=166/18-0-0, 23=162/18-0-0,
 24=137/18-0-0, 25=51/18-0-0,
 26=255/18-0-0
 Max Horiz 26=392 (LC 8)
 Max Uplift 16=438 (LC 7), 17=428 (LC 6),
 18=122 (LC 11), 19=131 (LC 11),
 20=119 (LC 11), 22=119 (LC 10),
 23=131 (LC 10), 24=121 (LC 10),
 25=498 (LC 7), 26=532 (LC 6)
 Max Grav 16=442 (LC 18), 17=460 (LC 9),
 18=181 (LC 19), 19=184 (LC 19),
 20=192 (LC 19), 21=227 (LC 21),
 22=194 (LC 18), 23=181 (LC 18),
 24=184 (LC 18), 25=542 (LC 8),
 26=525 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-26=-488/473, 1-2=0/79, 2-3=-83/200,
 3-4=-121/132, 4-5=-118/144, 5-6=-89/152,
 6-27=-96/198, 7-27=-86/203, 7-8=-139/272,
 8-9=-139/272, 9-28=-86/202, 10-28=-97/198,
 10-11=-59/149, 11-12=-83/118,
 12-13=-87/103, 13-14=-81/229, 14-15=0/78,
 14-16=-414/392

BOT CHORD 25-26=-359/320, 24-25=-212/277,
 23-24=-212/278, 22-23=-212/278,
 21-22=-212/278, 20-21=-212/278,
 19-20=-212/278, 18-19=-212/278,
 17-18=-212/278, 16-17=-69/105
WEBS 8-21=-187/22, 7-22=-168/140,
 6-23=-166/150, 5-24=-169/144,
 3-25=-209/183, 9-20=-167/139,
 10-19=-170/151, 11-18=-151/144,
 13-17=-293/161, 14-17=-503/585,
 2-25=-598/596

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-2-1, Interior (1) 0-2-1 to 6-0-0, Exterior(2R) 6-0-0 to 12-0-0, Interior (1) 12-0-0 to 17-8-0, Exterior(2E) 17-8-0 to 20-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 532 lb uplift at joint 26, 438 lb uplift at joint 16, 119 lb uplift at joint 22, 131 lb uplift at joint 23, 121 lb uplift at joint 24, 498 lb uplift at joint 25, 119 lb uplift at joint 20, 131 lb uplift at joint 19, 122 lb uplift at joint 18 and 428 lb uplift at joint 17.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL, Cerr 6534
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

November 14, 2023

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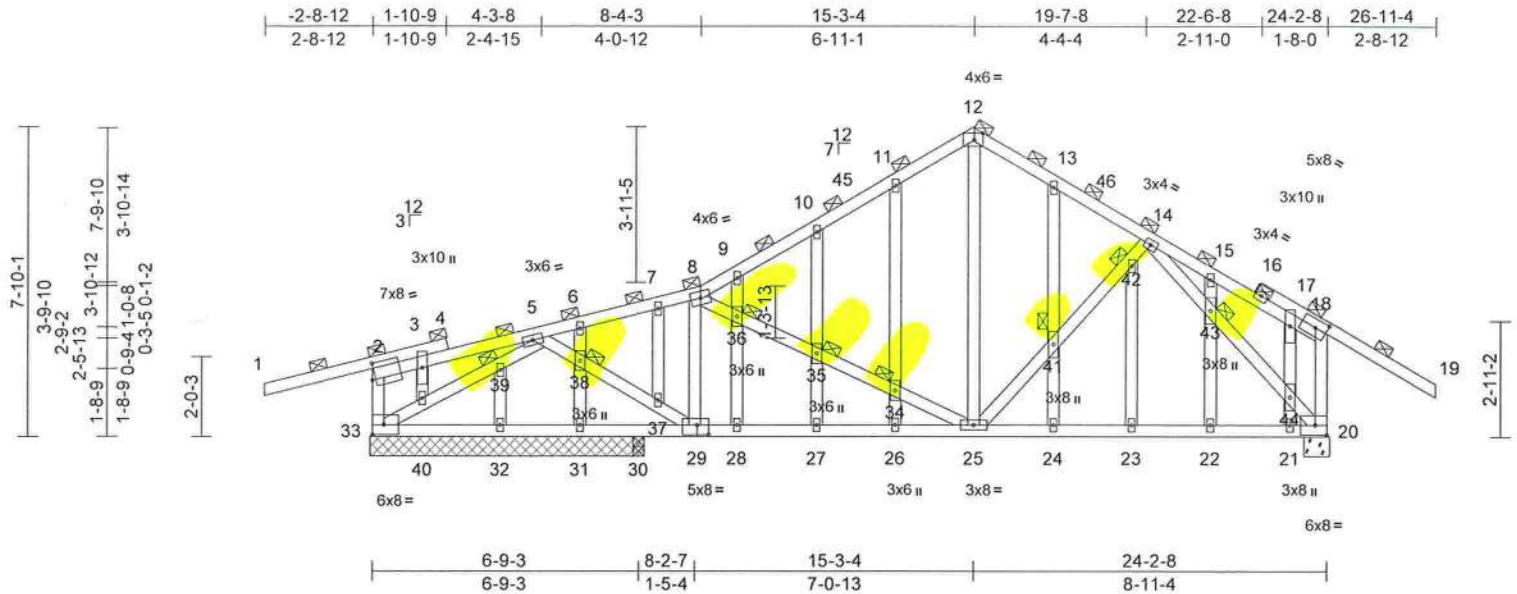
MiTek
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	G2	Roof Special Structural Gable	2	1	T32098948
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 E Oct 5 2023 Print: 8.720 E Oct 5 2023 MiTek Industries, Inc. Tue Nov 14 15:18:18
ID:IR0AtkqJnaNkKSK9vIZ8RhyK1Z3-4W5ZKVR82V7GXSDCC97GCpZ7EpARsqdLJPkywyJErp

Page: 1



Scale = 1:58.5
Plate Offsets (X, Y): [2:0-1-1,0-5-0], [12:0-2-10,Edge], [18:0-3-7,0-2-8], [29:0-3-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	-0.08	26-27	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.16	26-27	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.02	20	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.15	26-27	>999	240	Weight: 211 lb	FT = 20%

LUMBER		BOT CHORD	32-33=-227/324, 31-32=-227/324, 30-31=-227/324, 29-30=-227/324, 28-29=-347/859, 27-28=-347/859, 26-27=-347/859, 25-26=-347/859, 24-25=-135/651, 23-24=-135/651, 22-23=-135/651, 21-22=-135/651, 20-21=-135/651
TOP CHORD	2x4 SP No.2 *Except* 16-19:2x4 SP No.1		
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		
BRACING		WEBS	5-38=-334/585, 37-38=-347/628, 29-37=-353/635, 8-29=-300/109, 8-36=-249/297, 35-36=-230/270, 34-35=-259/294, 25-34=-260/295, 12-25=-389/428, 33-40=-320/219, 39-40=-274/225, 5-39=-376/264, 14-43=-885/198, 43-44=-875/197, 20-44=-850/189, 6-38=-402/248, 31-38=-480/276, 32-39=-279/131
TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.		
BOT CHORD	Rigid ceiling directly applied or 9-5-12 oc bracing.		
JOINTS			
	1 Brace at Jt(s): 8, 12, 2, 18, 34, 35, 36, 38, 39, 41, 42, 43		
REACTIONS			
	All bearings 6-11-11. except 20=0-7-11, 30=0-3-8		
	(lb) - Max Horiz 33=389 (LC 9)		
	Max Uplift All uplift 100 (lb) or less at joint(s) 30 except 20=444 (LC 11), 31=194 (LC 10), 32=117 (LC 10), 33=414 (LC 6)		
	Max Grav All reactions 250 (lb) or less at joint (s) 30 except 20=965 (LC 1), 31=310 (LC 1), 32=315 (LC 1), 33=463 (LC 1)		
FORCES			
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	5-6=-714/509, 6-7=-799/573, 7-8=-771/573, 8-9=-722/440, 9-10=-690/457, 10-45=-693/520, 11-45=-673/524, 11-12=-684/590, 12-13=-697/601, 13-46=-683/522, 14-46=-725/519, 14-15=-121/412, 15-16=-130/396, 16-17=-139/375, 17-18=-168/422, 2-33=-277/526, 18-20=-467/872		

NOTES	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-2-8, Interior (1) 0-2-8 to 12-4-0, Exterior(2R) 12-4-0 to 18-4-0, Interior (1) 18-4-0 to 24-0-0, Exterior(2E) 24-0-0 to 27-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.	
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
5) All plates are 2x4 MT20 unless otherwise indicated.	
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).	

- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 30 except (jt=lb) 33=413, 20=443, 31=194, 32=116.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Date:

November 14, 2023

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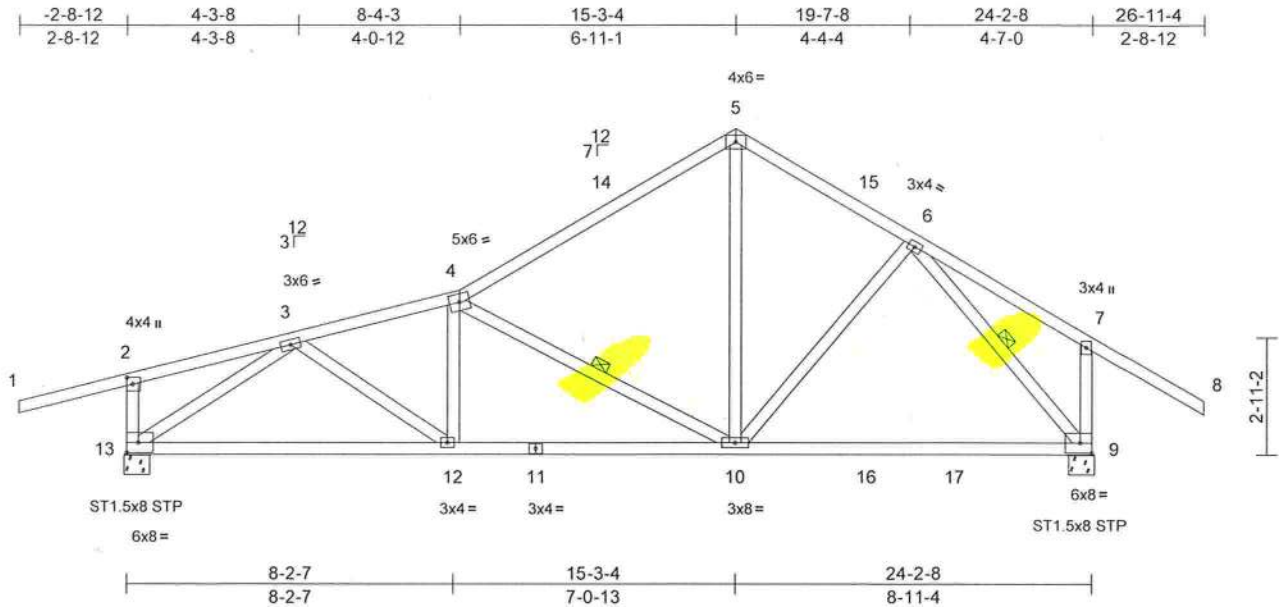
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	G3	Roof Special	14	1	T32098949

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:36
ID:nFk6Uy4wWDLjbHjyStvl6PyK1XS-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwCDoi7J4zJC7f

Page: 1



Scale = 1:57.8
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 (roof)	20.0	Plate Grip DOL	1.25	TC	1.00	Vert(LL)	-0.22	9-10	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.37	9-10	>768	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.04	9	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.07	10-12	>999	240	Weight: 152 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, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-10, 6-9
REACTIONS (size) 9=0-7-11, 13=0-7-11	
Max Horiz	13=407 (LC 9)
Max Uplift	9=480 (LC 11), 13=562 (LC 10)
Max Grav	9=1230 (LC 19), 13=1166 (LC 2)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/42, 2-3=-159/39, 3-4=-1867/882, 4-5=-1163/699, 5-6=-1136/738, 6-7=-219/463, 7-8=0/87, 2-13=-334/453, 7-9=-426/851
BOT CHORD	12-13=-536/1514, 10-12=-598/1892, 9-10=-162/874
WEBS	3-12=-247/502, 4-12=-56/215, 4-10=-1034/510, 5-10=-354/679, 6-10=-114/258, 3-13=-1550/818, 6-9=-1184/321

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-2-8, Interior (1) 0-2-8 to 12-4-0, Exterior(2R) 12-4-0 to 18-4-0, Interior (1) 18-4-0 to 24-0-0, Exterior(2E) 24-0-0 to 27-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 562 lb uplift at joint 13 and 480 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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November 14, 2023

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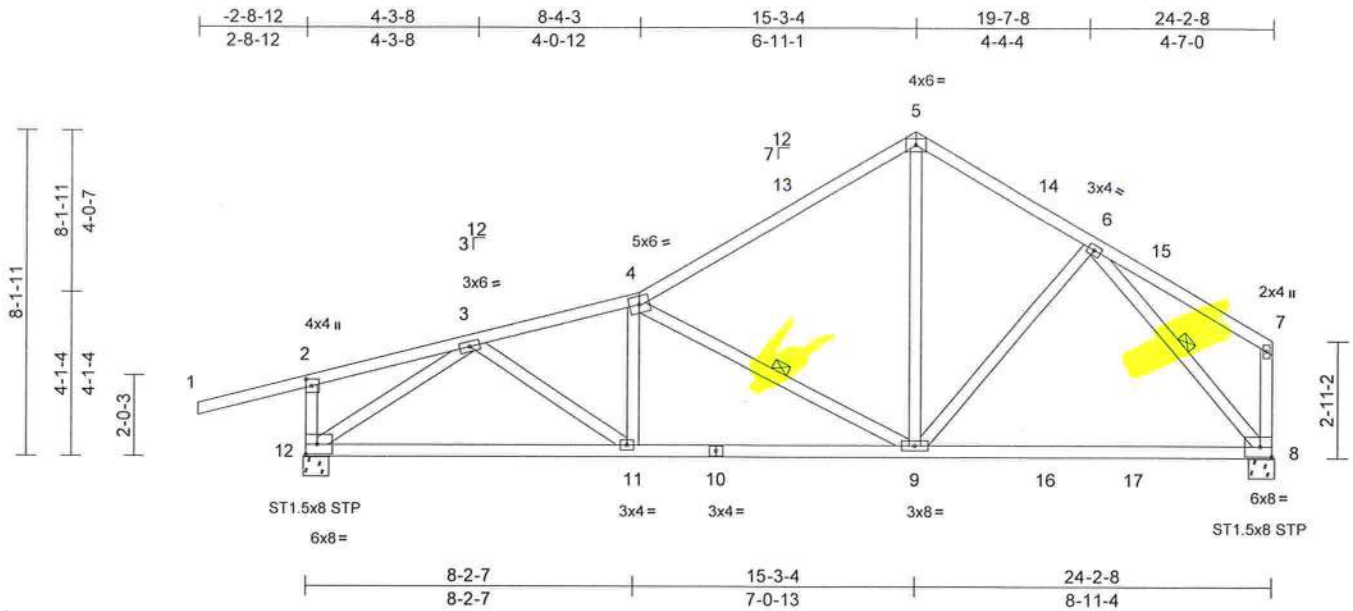
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	G4	Roof Special	5	1	T32098950

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:37
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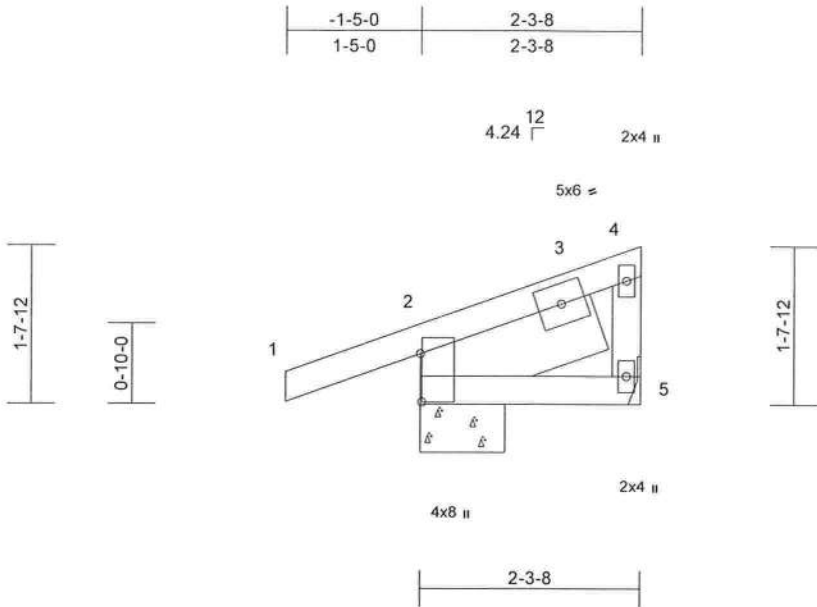


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	HJ2D	Diagonal Hip Girder	1	1	T32098951

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

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Page: 1



Scale = 1:24

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	0.00	6	>999	240		
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		Wind(LL)	0.00	6	>999	240	Weight: 17 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E -- 1-11-5

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-10-8, 5= Mechanical
Max Horiz 2=89 (LC 7)
Max Uplift 2=-179 (LC 4), 5=-76 (LC 21)
Max Grav 2=215 (LC 1), 5=96 (LC 24)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-4=-153/163, 4-5=-67/60
BOT CHORD 2-5=-27/21

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: Joint 2 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 5 and 179 lb uplift at joint 2.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 90 lb up at 1-5-0, and 84 lb down and 90 lb up at 1-5-0 on top chord, and 8 lb down and 11 lb up at 1-5-0, and 8 lb down and 11 lb up at 1-5-0 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 (lb/ft)
Vert: 1-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 9=59 (F=30, B=30)

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

November 14,2023

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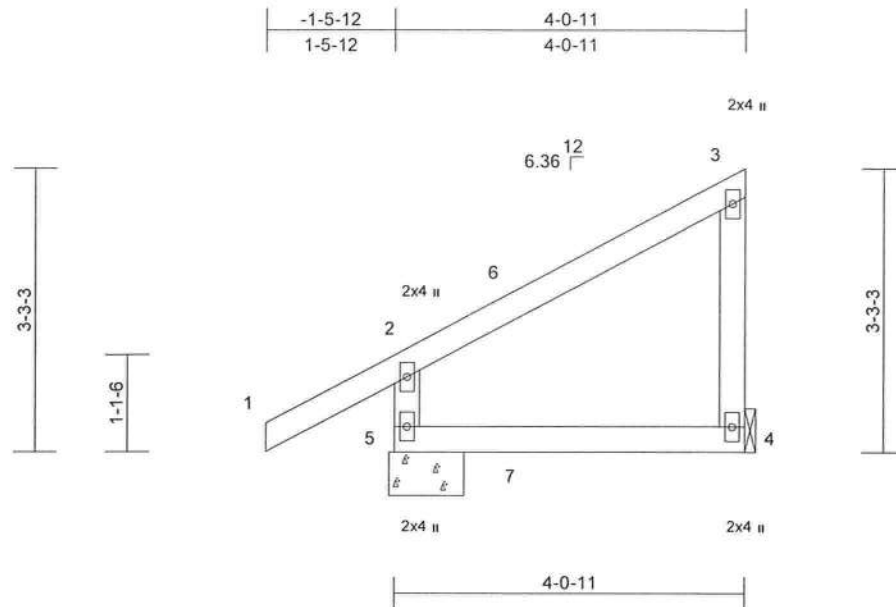
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16023 Swingley Ridge Rd,
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	HJ3	Diagonal Hip Girder	4	1	T32098952

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

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Scale = 1:26.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.02	4-5	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.02	4-5	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							
Weight: 20 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 4-1-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5=0-10-8

Max Horiz 5=194 (LC 5)
Max Uplift 4=-129 (LC 5), 5=-205 (LC 8)
Max Grav 4=151 (LC 15), 5=262 (LC 16)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-186/197, 1-2=0/46, 2-3=-139/59,
3-4=-94/111
BOT CHORD 4-5=-63/64

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 5 and 129 lb uplift at joint 4.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 112 lb up at 1-5-0, and 108 lb down and 112 lb up at 1-5-0 on top chord, and 27 lb down and 32 lb up at 1-5-0, and 27 lb down and 32 lb up at 1-5-0 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 (lb/ft)
Vert: 1-2=-60, 2-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 6=74 (F=37, B=37)

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Date:

November 14, 2023

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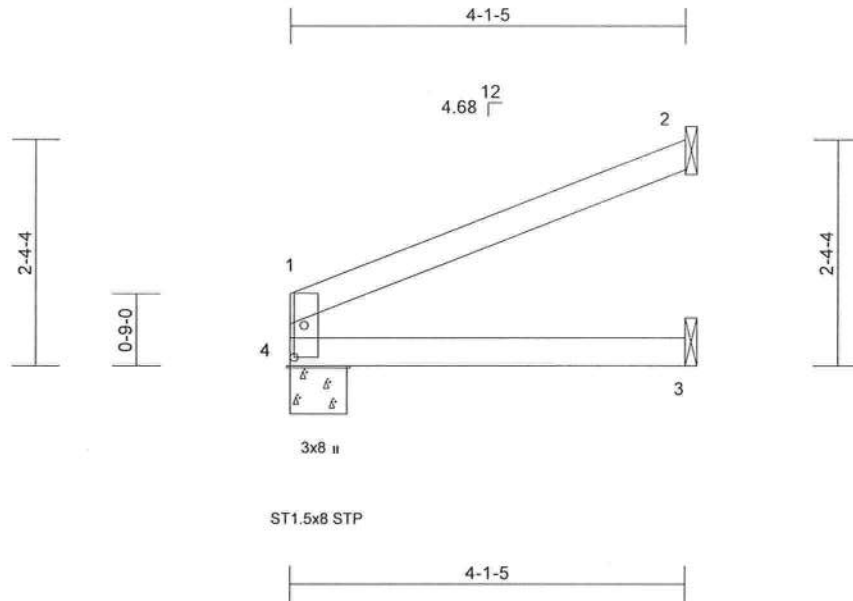
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	T32098953
3698546	HJ3C	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

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Page: 1



Scale = 1:24.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.02	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.02	3-4	>999	240	Weight: 13 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, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(size) 2= Mechanical, 3= Mechanical, 4=0-7-3
	Max Horiz 4=82 (LC 10)
	Max Uplift 2=-111 (LC 10), 4=-53 (LC 10)
	Max Grav 2=109 (LC 1), 3=74 (LC 3), 4=156 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
--------	--

TOP CHORD	1-4=-159/172, 1-2=-87/51
BOT CHORD	3-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 4 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 4 and 111 lb uplift at joint 2.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Date:

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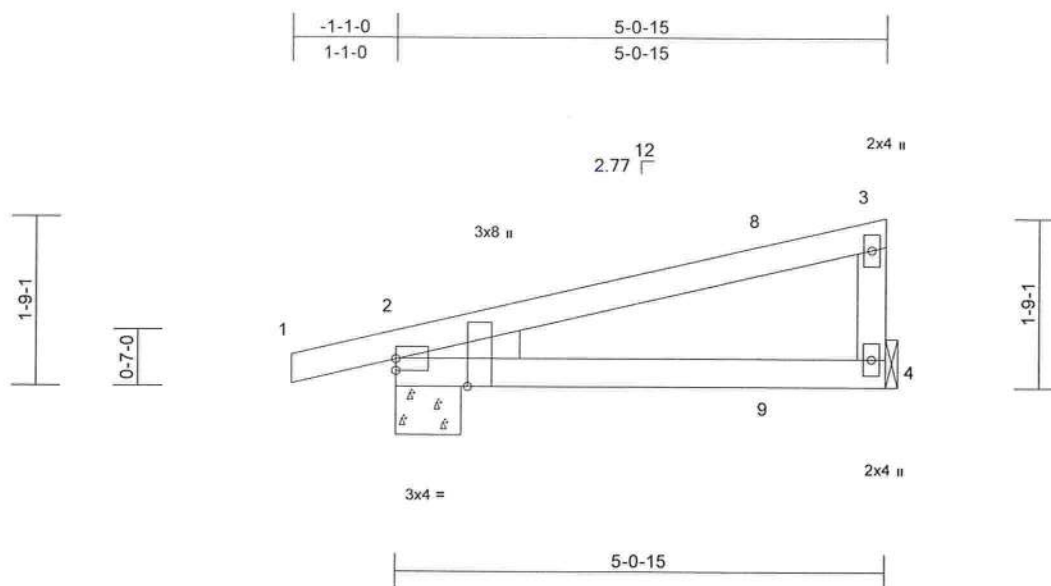
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	HJ4	Diagonal Hip Girder	2	1	T32098954

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:38

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Scale = 1:24

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.03	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.06	4-7	>970	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.05	4-7	>999	240	Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-8-2, 4= Mechanical
Max Horiz 2=92 (LC 7)
Max Uplift 2=-190 (LC 4), 4=-125 (LC 8)
Max Grav 2=272 (LC 1), 4=201 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-97/37, 3-4=-124/98
BOT CHORD 2-4=-64/90

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 4 and 190 lb uplift at joint 2.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 69 lb up at 3-9-12 on top chord, and 14 lb down and 26 lb up at 3-9-12 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 (lb/ft)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 9=-14 (B)

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Date:

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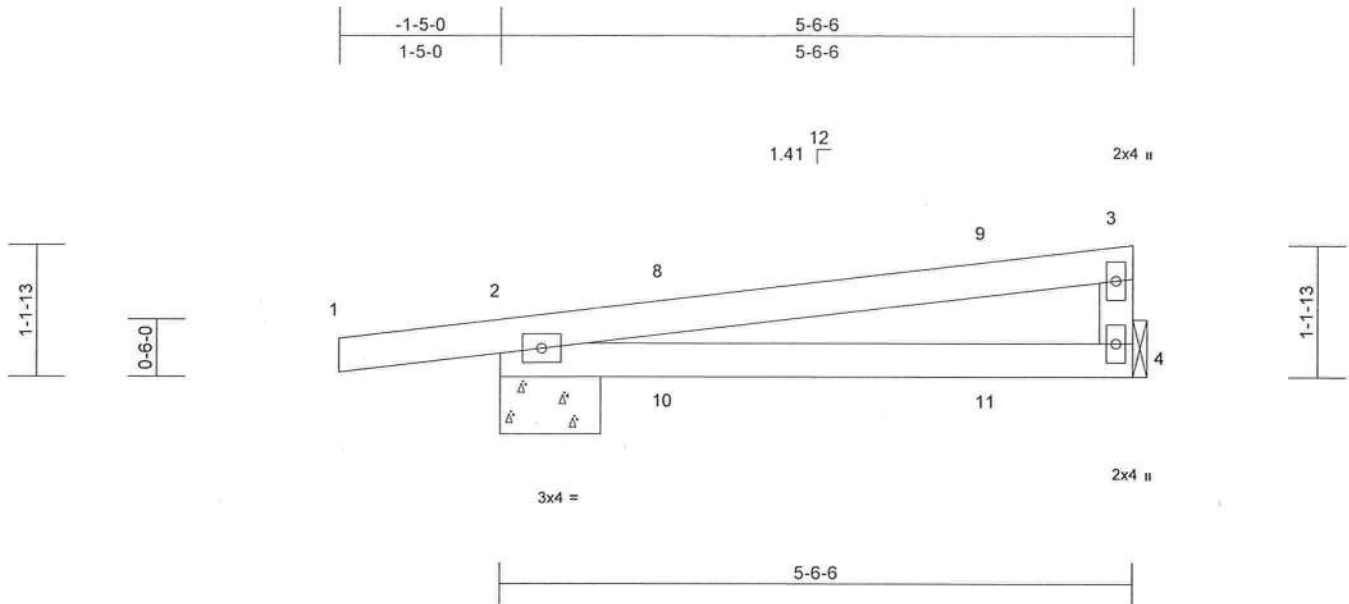
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	HJ4A	Diagonal Hip Girder	1	1	T32098955

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

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Page: 1



Scale = 1:20.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.04	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.08	4-7	>777	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.06	4-7	>999	240	Weight: 20 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-10-8, 4= Mechanical
Max Horiz 2=51 (LC 7)
Max Uplift 2=-232 (LC 4), 4=-126 (LC 8)
Max Grav 2=316 (LC 1), 4=220 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/10, 2-3=-188/13, 3-4=-141/109
BOT CHORD 2-4=-30/161

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 4 and 232 lb uplift at joint 2.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 91 lb down and 6 lb up at 1-5-0, 91 lb down and 6 lb up at 1-5-0, and 38 lb down and 59 lb up at 4-2-15, and 38 lb down and 59 lb up at 4-2-15 on top chord, and 14 lb down and 5 lb up at 1-5-0, 14 lb down and 5 lb up at 1-5-0, and 13 lb down and 13 lb up at 4-2-15, and 13 lb down and 13 lb up at 4-2-15 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 (lb/ft)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 9=-3 (F=-1, B=-1), 11=-18 (F=-9, B=-9)

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

November 14, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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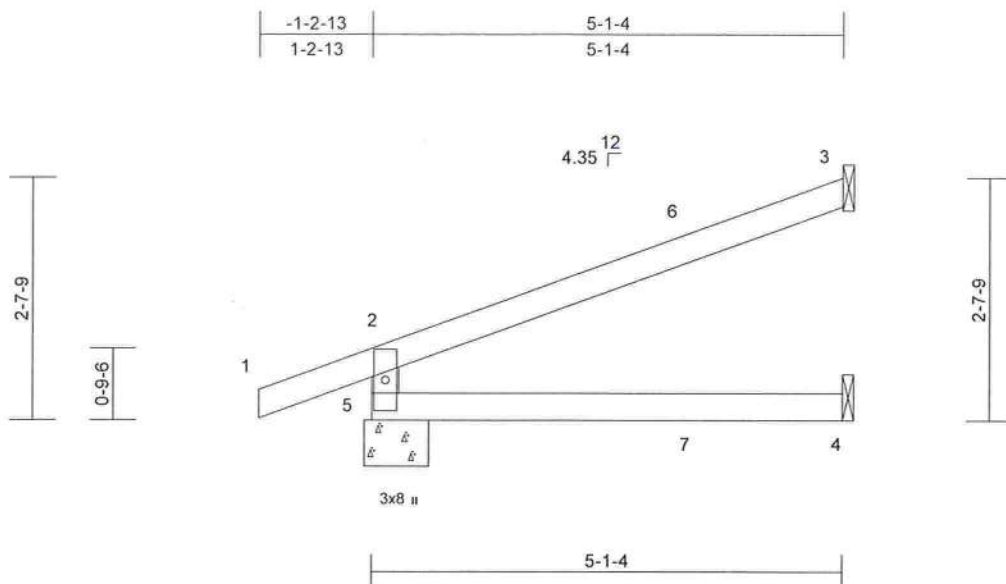
Job	Truss	Truss Type	Qty	Ply	
3698546	HJ4C	Diagonal Hip Girder	2	1	T32098956
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:38

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Scale = 1:25.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.03	4-5	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.06	4-5	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR		Wind(LL)	0.04	4-5	>999	240	Weight: 18 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-2-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size) 3= Mechanical, 4= Mechanical, 5=0-8-7
	Max Horiz 5=135 (LC 4)
	Max Uplift 3=-130 (LC 8), 5=-184 (LC 4)
	Max Grav 3=129 (LC 1), 4=92 (LC 3), 5=291 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
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TOP CHORD	2-5=-247/228, 1-2=0/28, 2-3=-73/34
BOT CHORD	4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 5 and 130 lb uplift at joint 3.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 75 lb up at 3-5-12, and 39 lb down and 79 lb up at 3-6-0 on top chord, and 6 lb down and 1 lb up at 3-5-12, and 6 lb down and 1 lb up at 3-6-0 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 (lb/ft)
Vert: 1-2=-60, 2-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 7=-2 (F=-1, B=-1)

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Date:

November 14,2023

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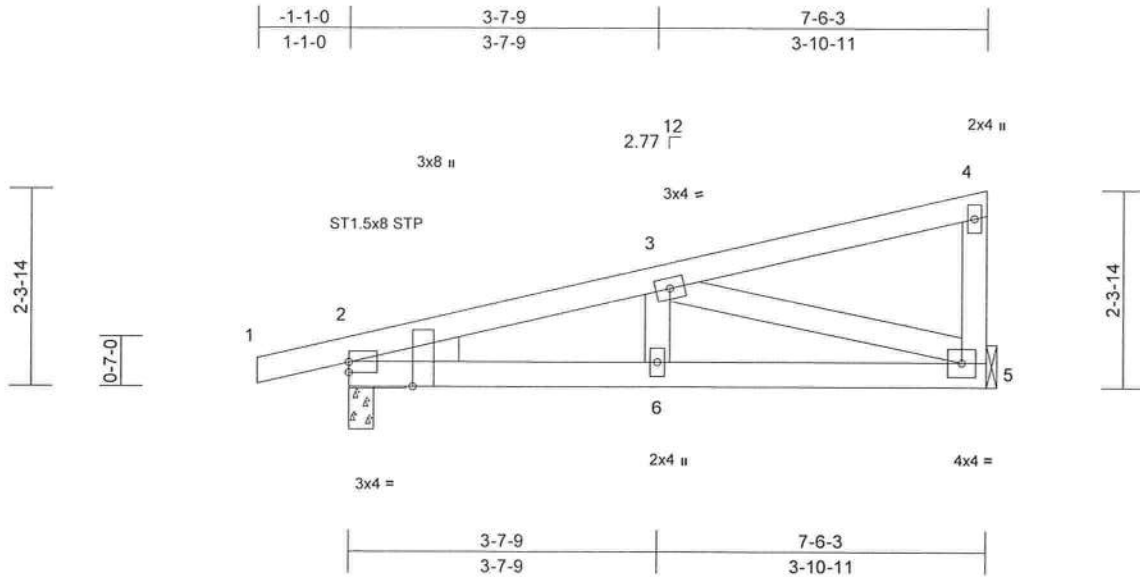
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	HJ6	Diagonal Hip Girder	2	1	T32098957

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:39
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Page: 1



Scale = 1:27.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.02	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.02	6	>999	240	Weight: 35 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
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 9-11-12 oc bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical
Max Horiz 2=127 (LC 7)
Max Uplift 2=-257 (LC 4), 5=-185 (LC 8)
Max Grav 2=379 (LC 1), 5=304 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-577/343, 3-4=-78/27, 4-5=-103/88

BOT CHORD 2-6=-346/551, 5-6=-346/551

WEBS 3-6=-4/133, 3-5=-547/376

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 5 and 257 lb uplift at joint 2.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 43 lb down and 70 lb up at 3-9-3, and 44 lb down and 71 lb up at 3-9-12 on top chord, and 14 lb down and 26 lb up at 3-9-3, and 14 lb down and 26 lb up at 3-9-12 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 (lb/ft)
Vert: 1-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-28 (F=-14, B=-14)

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16025 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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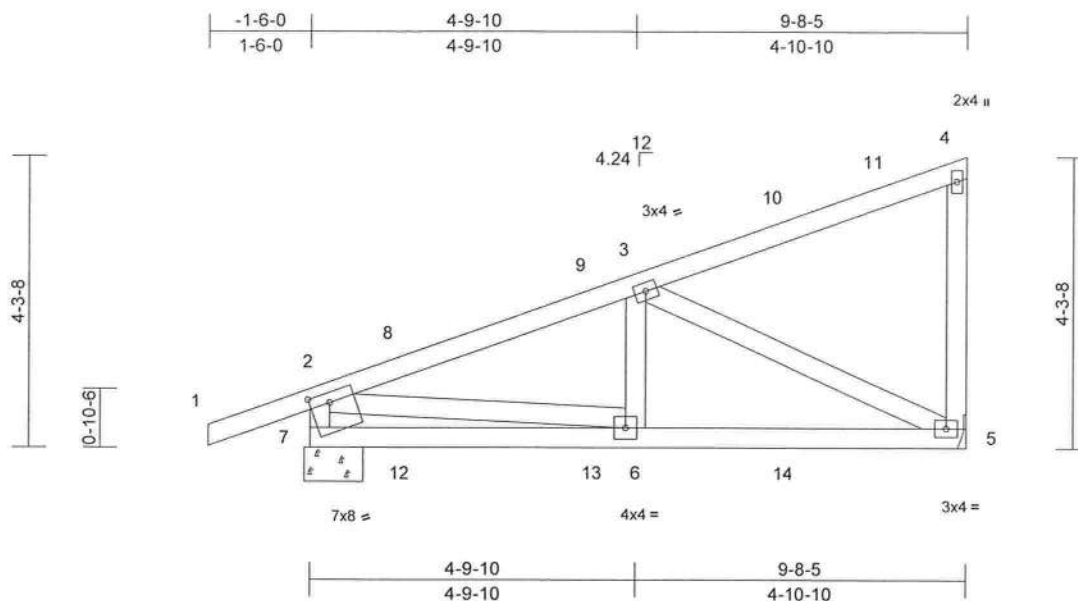
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	HJ7D	Diagonal Hip Girder	1	1	T32098958

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

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Page: 1



Scale = 1:34

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.05	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.29	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.03	5-6	>999	240	Weight: 55 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 6-0-0 oc bracing.

REACTIONS

(size) 5= Mechanical, 7=0-10-8
Max Horiz 7=246 (LC 5)
Max Uplift 5=-348 (LC 5), 7=-293 (LC 4)
Max Grav 5=452 (LC 1), 7=455 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-415/292, 1-2=0/33, 2-3=-577/387, 3-4=-145/71, 4-5=-153/151
BOT CHORD 6-7=-192/80, 5-6=-471/514
WEBS 2-6=-372/540, 3-6=0/202, 3-5=-545/462

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 7 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 7 and 348 lb uplift at joint 5.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 110 lb up at 1-5-0, 104 lb down and 110 lb up at 1-5-0, 38 lb down and 81 lb up at 4-2-15, 38 lb down and 81 lb up at 4-2-15, and 70 lb down and 136 lb up at 7-0-14, and 70 lb down and 136 lb up at 7-0-14 on top chord, and 8 lb down and 11 lb up at 1-5-0, 8 lb down and 11 lb up at 1-5-0, 14 lb down and 16 lb up at 4-2-15, 14 lb down and 16 lb up at 4-2-15, and 33 lb down and 16 lb up at 7-0-14, and 33 lb down and 16 lb up at 7-0-14 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 (lb/ft)
Vert: 1-2=-60, 2-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 8=73 (F=37, B=37), 10=-81 (F=-41, B=-41), 13=-2 (F=-1, B=1), 14=-47 (F=-24, B=-24)

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Philip J. O'Regan PE No.58136
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14023 Swingle Ridge Rd. Chesterfield, MO 63017
Date:

November 14, 2023

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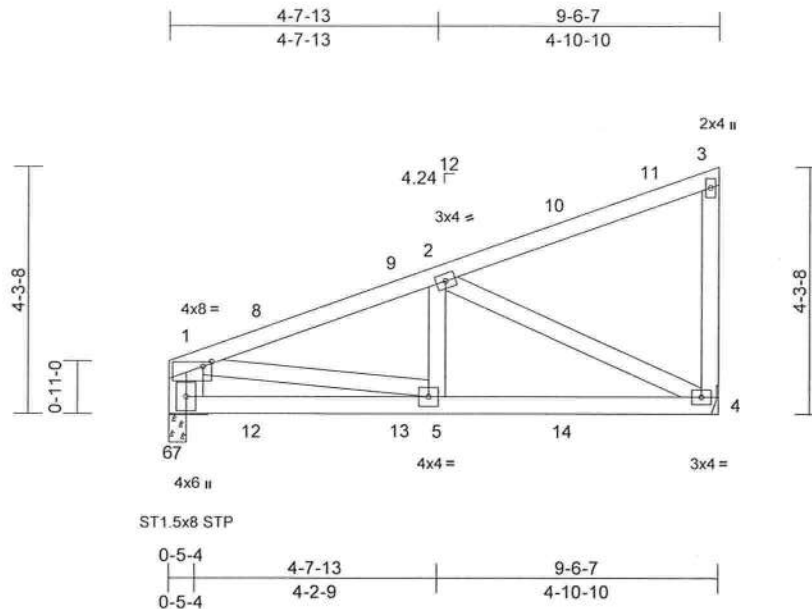
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Job	Truss	Truss Type	Qty	Ply	
3698546	HJ7K	Diagonal Hip Girder	1	1	T32098959
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

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Page: 1



Scale = 1:40.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.02	4-5	>999	360	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.05	4-5	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.33	Horz(CT)	-0.01	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.02	5-6	>999	240	
Weight: 52 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 8-7-5 oc bracing.

REACTIONS

(size)	4= Mechanical, 7=0-3-8
Max Horiz	7=215 (LC 7)
Max Uplift	4=-315 (LC 5), 7=-271 (LC 4)
Max Grav	4=487 (LC 1), 7=413 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-6=-33/58, 1-2=-642/376, 2-3=-149/56, 3-4=-156/131
BOT CHORD	5-6=-301/185, 4-5=-466/576
WEBS	1-5=-214/400, 2-5=0/202, 2-4=-613/484, 1-7=-436/288

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 7 SP No.3 .

- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 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 315 lb uplift at joint 4 and 271 lb uplift at joint 7.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 38 lb up at 1-10-10, 40 lb down and 77 lb up at 4-2-15, 45 lb down and 94 lb up at 4-5-12, and 69 lb down and 77 lb up at 7-0-14, and 75 lb down and 145 lb up at 7-3-11 on top chord, and 20 lb down and 50 lb up at 1-7-13, 6 lb down and 13 lb up at 1-10-10, 17 lb down and 15 lb up at 4-2-15, 16 lb down and 19 lb up at 4-5-12, and 36 lb down at 7-0-14, and 36 lb down and 17 lb up at 7-3-11 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 (lb/ft)
Vert: 1-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 9=0 (F), 10=-98 (F=-53, B=-45), 12=-20 (F=-19, B=-1), 13=-11 (F=-7, B=-4), 14=-54 (F=-30, B=-24)

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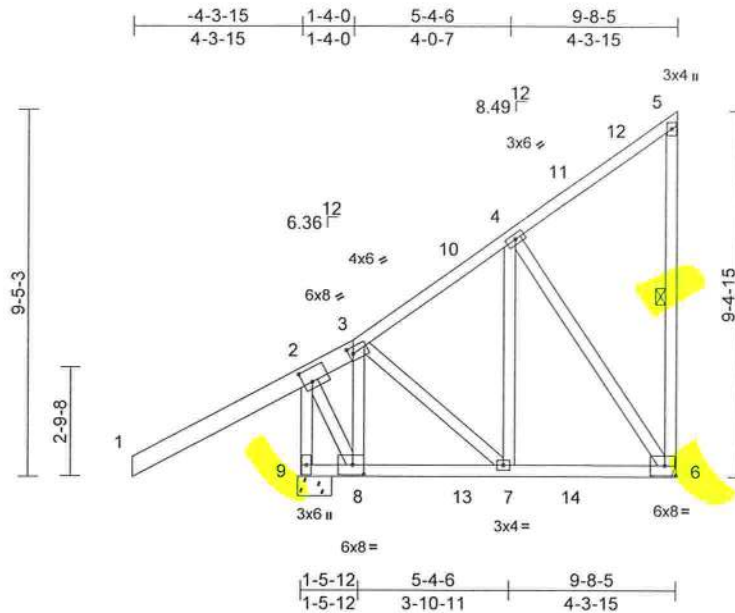
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	HJ7M	Jack-Closed Girder	1	1	T32098960

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:40
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Page: 1



Scale = 1:59.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	0.07	6-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.07	6-7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.82	Horz(CT)	-0.01	6	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
										Weight: 96 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-5:2x4 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 5-7-9 oc bracing.

WEBS 1 Row at midpt 5-6

REACTIONS

(size) 6= Mechanical, 9=0-10-8
Max Horiz 9=530 (LC 5)
Max Uplift 6=-1140 (LC 5), 9=-2065 (LC 4)
Max Grav 6=905 (LC 24), 9=1877 (LC 25)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-9=-1826/2033, 1-2=0/126, 2-3=-848/982, 3-4=-725/756, 4-5=-331/337, 5-6=-175/205
BOT CHORD 8-9=-497/277, 7-8=-1027/940, 6-7=-686/584
WEBS 2-8=-1497/1931, 3-8=-1076/725, 3-7=-452/488, 4-7=-644/639, 4-6=-804/1043

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 9 SP No.2.

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2065 lb uplift at joint 9 and 1140 lb uplift at joint 6.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 572 lb down and 494 lb up at 1-5-0, 572 lb down and 494 lb up at 1-5-0, 133 lb down and 120 lb up at 4-2-15, 133 lb down and 120 lb up at 4-2-15, and 197 lb down and 236 lb up at 7-0-14, and 197 lb down and 236 lb up at 7-0-14 on top chord, and 301 lb down and 546 lb up at 1-5-0, 301 lb down and 546 lb up at 1-5-0, 95 lb down and 131 lb up at 4-2-15, 95 lb down and 131 lb up at 4-2-15, and 120 lb down and 147 lb up at 7-0-14, and 120 lb down and 147 lb up at 7-0-14 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 (lb/ft)
Vert: 1-2=-60, 2-3=-60, 3-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 3=329 (F=165, B=165), 11=-63 (F=31, B=31), 13=65 (F=32, B=32), 14=48 (F=24, B=24)

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Philip J. O'Regan PE No.58136
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14, 2023

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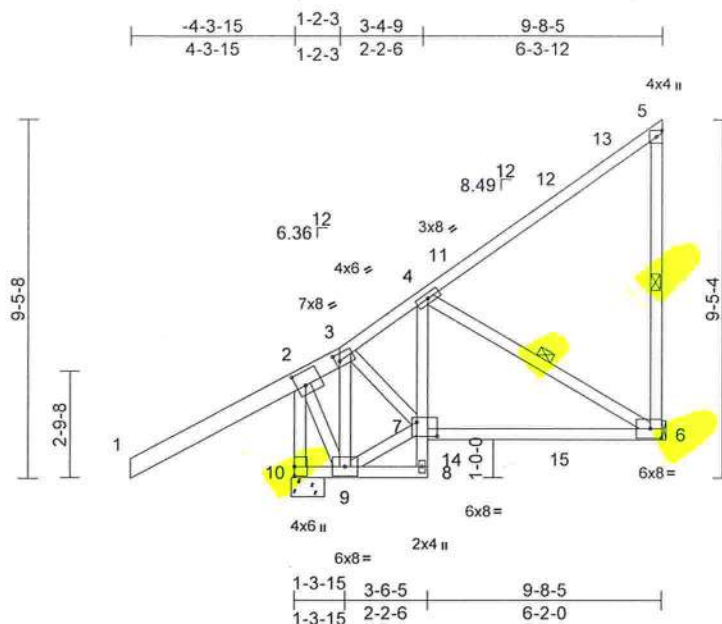
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	HJ7MT	Jack-Closed Girder	2	1	T32098961
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:41
ID:DUISoNTpanMIDIXbo7uJQyJiP9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwCD0i7J4zJC7f

Page: 1



Scale = 1:60.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	0.24	6-7	>466	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.26	6-7	>432	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	-0.03	6	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 92 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-2-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-7-4 oc bracing.

WEBS 1 Row at midpt 5-6, 4-6

REACTIONS

(size)	6= Mechanical, 10=0-10-8
Max Horiz	10=513 (LC 5)
Max Uplift	6=-1154 (LC 5), 10=-2138 (LC 4)
Max Grav	6=943 (LC 24), 10=1986 (LC 25)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-10=-1891/2061, 1-2=0/126, 2-3=-810/949, 3-4=-1006/1015, 4-5=-454/499, 5-6=-265/345, 9-10=-490/278, 8-9=-82/44, 7-8=-23/43, 4-7=-671/738, 6-7=-1318/1137
BOT CHORD	2-9=-1418/1967, 3-9=-1619/1215, 7-9=-1045/1007, 3-7=-457/430, 4-6=-1157/1401
WEBS	

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: Joint 10 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2138 lb uplift at joint 10 and 1154 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 572 lb down and 494 lb up at 1-3-3, 572 lb down and 494 lb up at 1-3-3, 170 lb down and 185 lb up at 4-2-15, 170 lb down and 185 lb up at 4-2-15, and 219 lb down and 257 lb up at 7-0-14, and 219 lb down and 257 lb up at 7-0-14 on top chord, and 301 lb down and 546 lb up at 1-5-0, 130 lb down and 178 lb up at 4-2-15, 130 lb down and 178 lb up at 4-2-15, and 100 lb down and 128 lb up at 7-0-14, and 100 lb down and 128 lb up at 7-0-14 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 3-5=-60, 8-10=-20, 6-7=-20
Concentrated Loads (lb)
Vert: 3=329 (F=165, B=165), 11=-15 (F=-8, B=-8), 12=-18 (F=-9, B=-9), 14=99 (F=50, B=50), 15=-10 (F=-5, B=-5)

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Date:

November 14,2023

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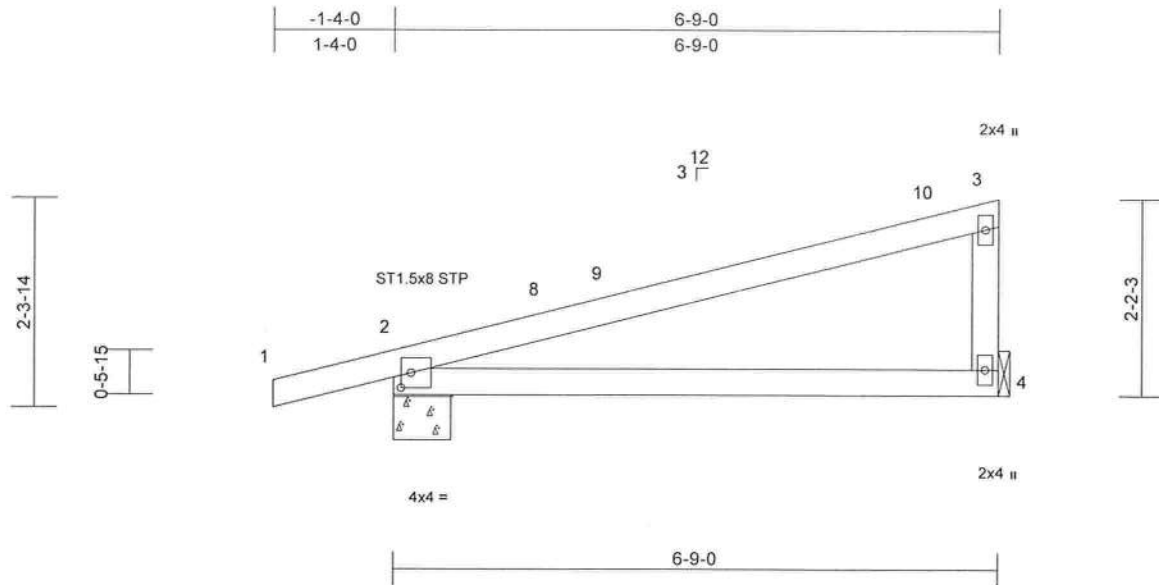
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	J1	Jack-Closed	1	1	T32098962

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:41
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Page: 1



Scale = 1:25.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.07	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.17	4-7	>460	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.13	4-7	>589	240	Weight: 25 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-7-11, 4= Mechanical
Max Horiz 2=124 (LC 9)
Max Uplift 2=-237 (LC 6), 4=-137 (LC 6)
Max Grav 2=352 (LC 1), 4=256 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-326/86, 3-4=-251/305
BOT CHORD 2-4=-84/195

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-4-5, Exterior(2R) 2-4-5 to 6-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 4 and 237 lb uplift at joint 2.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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

November 14, 2023

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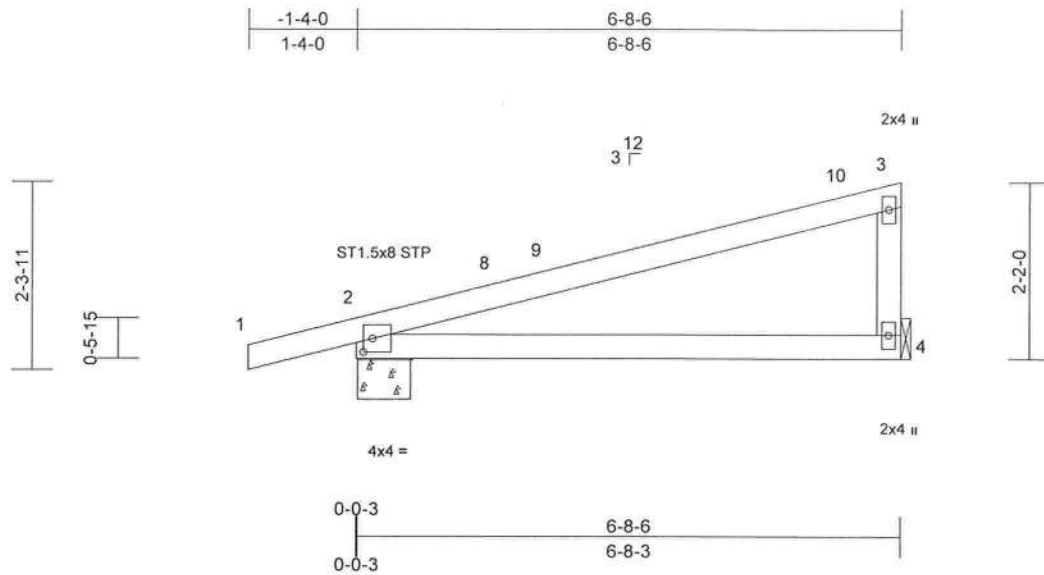
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	J2	Jack-Closed	2	1	T32098963

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:41
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Page: 1



Scale = 1:28.4

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

Loading	(psf)	Spacing	2:0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.07	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.17	4-7	>471	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.13	4-7	>600	240	Weight: 25 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-7-11, 4= Mechanical
Max Horiz 2=123 (LC 9)
Max Uplift 2=-236 (LC 6), 4=-135 (LC 6)
Max Grav 2=350 (LC 1), 4=254 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-3=-324/85, 3-4=-249/303
BOT CHORD 2-4=-83/194

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-3-11, Exterior(2R) 2-3-11 to 6-6-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 4 and 236 lb uplift at joint 2.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Date:

November 14,2023

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Chesterfield, MO 63017
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Page: 1

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

LOAD CASE(S) Standard

REACTIONS	(size) 2=0-7-11, 4= Mechanical Max Horiz 2=120 (LC 9) Max Uplift 2=-234 (LC 6), 4=-132 (LC 6) Max Grav 2=344 (LC 1), 4=248 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/19, 2-3=-320/84, 3-4=-244/299
BOT CHORD	2-4=-80/191

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-1-15, Exterior(2R) 2-1-15 to 6-4-13 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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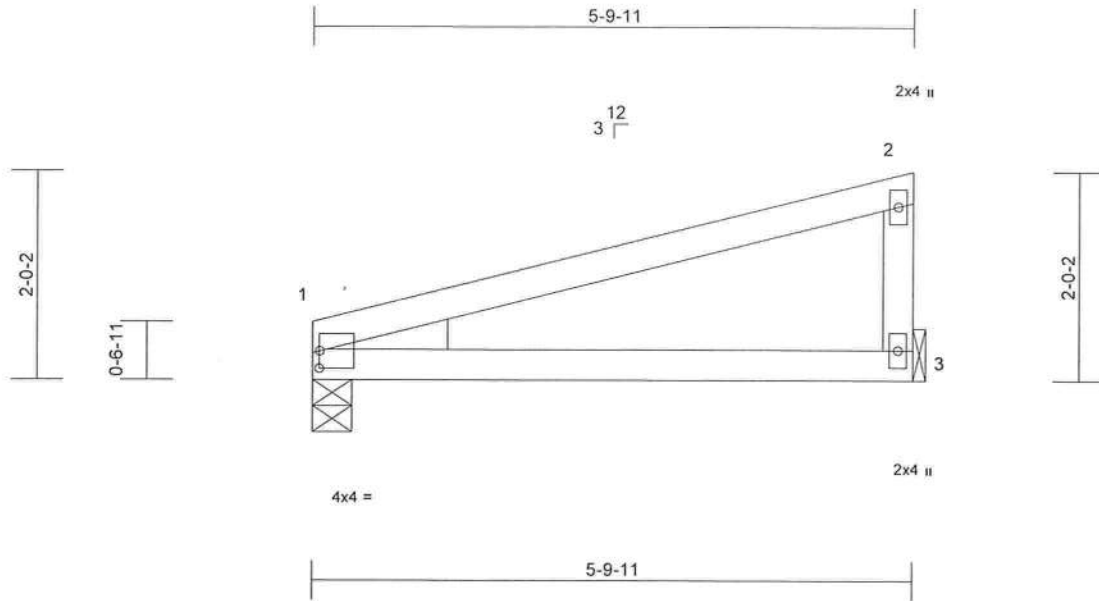
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	J4	Jack-Closed	2	1	T32098965
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:42
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Page: 1



Scale = 1:22.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.04	3-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.10	3-6	>684	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.09	3-6	>722	240	Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=0-4-8, 3= Mechanical
Max Horiz 1=101 (LC 9)
Max Uplift 1=-112 (LC 6), 3=-126 (LC 10)
Max Grav 1=226 (LC 1), 3=226 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-448/173, 2-3=-223/314
BOT CHORD 1-3=-436/239

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 1 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 1 and 126 lb uplift at joint 3.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Date:

November 14,2023

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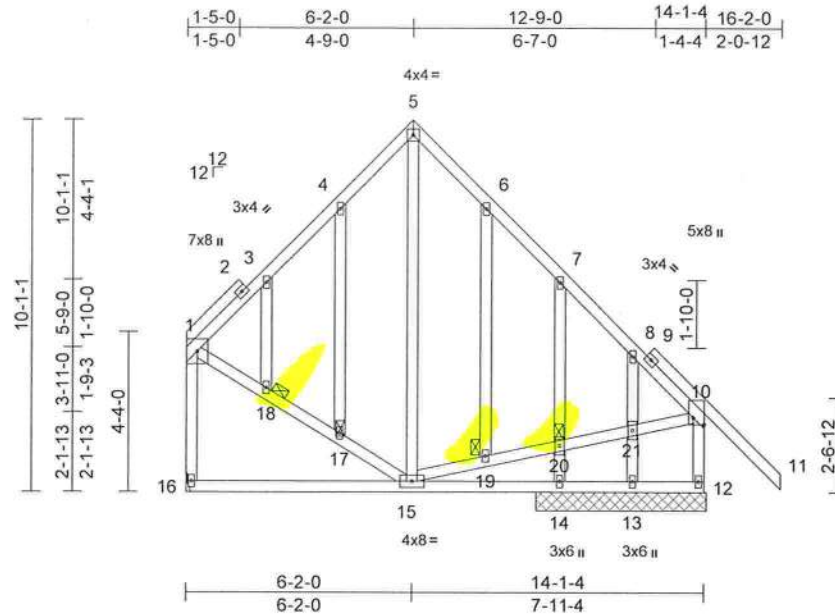
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Job	Truss	Truss Type	Qty	Ply	
3698546	M1	Common Structural Gable	1	1	T32098966
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:42
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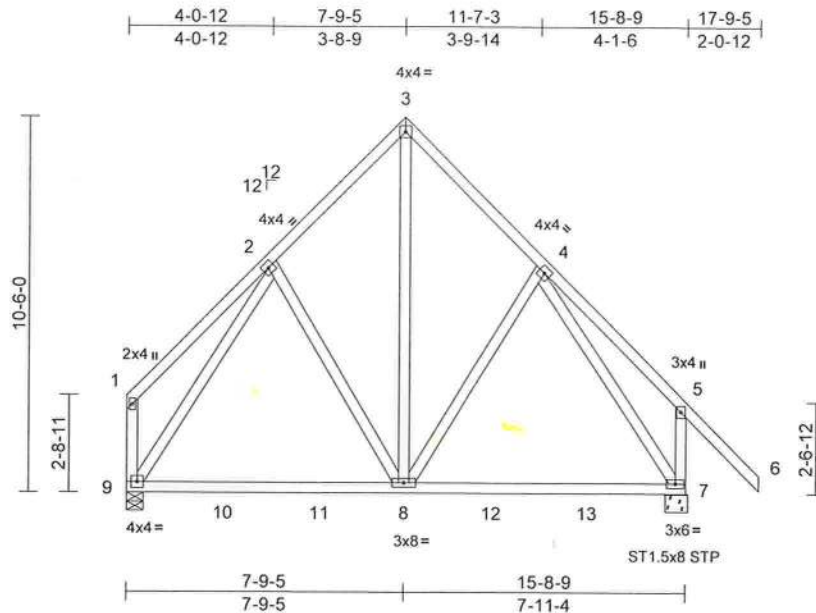


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	M2	Common	1	1	T32098967

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:43
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Page: 1



Scale = 1:64.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.12	7-8	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.20	7-8	>933	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.01	7	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.01	7-8	>999	240	Weight: 125 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 7-5:2x4 SP No.1

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

REACTIONS (size) 7=0-7-11, 9=0-5-8
Max Horiz 9=-495 (LC 6)
Max Uplift 7=-295 (LC 11), 9=-250 (LC 11)
Max Grav 7=828 (LC 18), 9=747 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-299/149, 2-3=-804/397, 3-4=-803/389, 4-5=-232/368, 5-6=0/94, 1-9=-313/157, 5-7=-379/440
BOT CHORD 8-9=-250/563, 7-8=-65/545
WEBS 3-8=-376/718, 2-9=-635/250, 4-7=-794/119, 2-8=-279/338, 4-8=-245/341

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior (1) 3-4-7 to 5-0-0, Exterior(2R) 5-0-0 to 11-0-0, Interior (1) 11-0-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 9 and 295 lb uplift at joint 7.
- LOAD CASE(S)** Standard

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November 14, 2023

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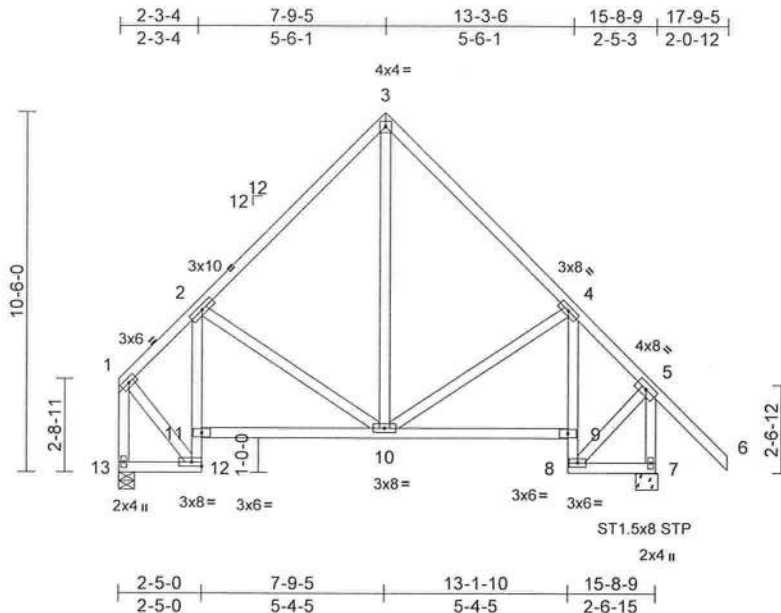
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	M3	Roof Special	4	1	T32098968

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:43
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Page: 1



Scale = 1:67.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.05	10-11	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.09	10-11	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.15	7	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 122 lb FT = 20%											

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 12-2,4-8:2x4 SP No.3
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-8-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
REACTIONS (size) 7=0-7-11, 13=0-5-8	
	Max Horiz 13=-495 (LC 6)
	Max Uplift 7=-295 (LC 11), 13=-250 (LC 11)
	Max Grav 7=759 (LC 1), 13=607 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-609/191, 2-3=-754/308, 3-4=-754/329, 4-5=-544/288, 5-6=0/94, 1-13=-880/266, 5-7=-943/347
BOT CHORD	12-13=-436/456, 11-12=-297/229, 2-11=-275/241, 10-11=-384/667, 9-10=-41/619, 8-9=-380/75, 4-9=-357/98, 7-8=-74/123
WEBS	3-10=-187/515, 4-10=-283/332, 2-10=-334/330, 1-12=-229/547, 5-8=-91/667

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior (1) 3-4-7 to 5-0-0, Exterior(2R) 5-0-0 to 11-0-0, Interior (1) 11-0-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 13 and 295 lb uplift at joint 7.
- LOAD CASE(S)** Standard

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Date:

November 14, 2023

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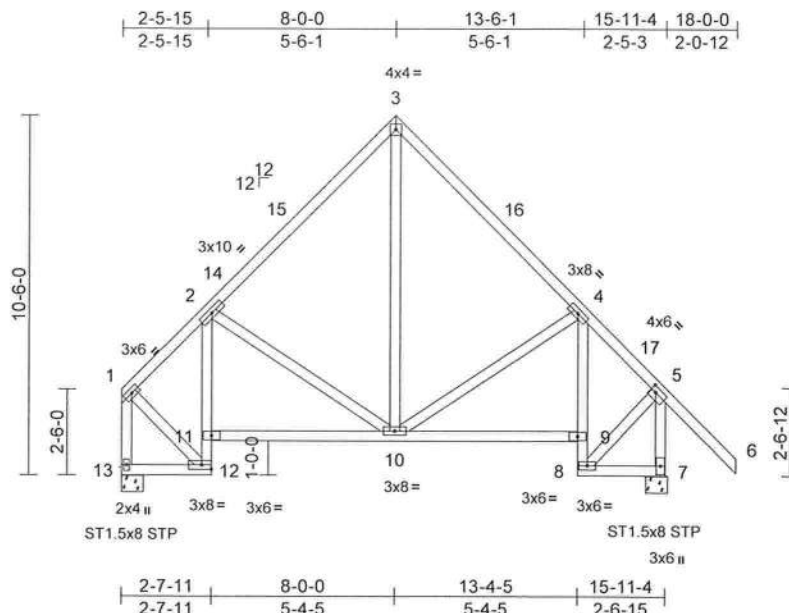
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Job	Truss	Truss Type	Qty	Ply	
3698546	M4	Roof Special	4	1	T32098969
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:44
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Page: 1



Scale = 1:67.4

Plate Offsets (X, Y): [5'-0"-2'-0"-0'-1'-12"]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.05	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.10	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.15	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 122 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 6'-0'-0 oc bracing.

REACTIONS

(size)	7=0-7-11, 13=0-7-11
Max Horiz	13=-490 (LC 8)
Max Uplift	7=-299 (LC 11), 13=-250 (LC 11)
Max Grav	7=768 (LC 1), 13=616 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-591/208, 2-3=-675/328, 3-4=-675/336, 4-5=-502/327, 5-6=0/94, 1-13=-783/284, 5-7=-881/430
BOT CHORD	12-13=-438/454, 11-12=-260/215, 2-11=-211/226, 10-11=-382/692, 9-10=-43/544, 8-9=-334/77, 4-9=-308/100, 7-8=-74/152
WEBS	3-10=-197/433, 4-10=-230/331, 2-10=-308/349, 1-12=-230/470, 5-8=-95/589

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 5-0-0, Exterior(2R) 5-0-0 to 11-0-0, Interior (1) 11-0-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06'-00 tall by 2'-00'-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 13 and 299 lb uplift at joint 7.

LOAD CASE(S) Standard

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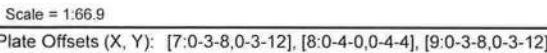
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16023 Swingle Ridge Rd, Chesterfield, MO 63017
Date:

November 14, 2023

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Page: 1

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 6-10=-20
Concentrated Loads (lb)
Vert: 11=-1466 (B), 12=-731 (B), 13=-731 (B),
14=-731 (B), 15=-737 (B)

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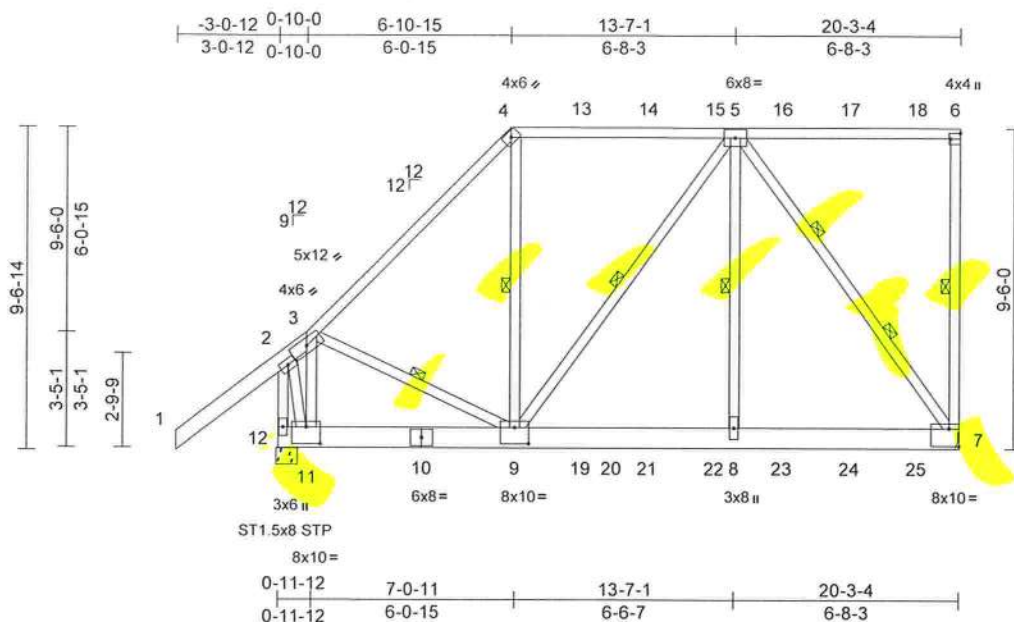
Job	Truss	Truss Type	Qty	Ply	
3698546	M6	Half Hip Girder	1	1	T32098971
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736.

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:45

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Scale = 1:68.5

Plate Offsets (X, Y): [6:Edge,0-3-8], [7:Edge,0-6-4], [9:0-5-0,0-5-12], [11:0-5-0,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	0.10	8-9	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	0.09	8-9	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.90	Horz(CT)	-0.01	7	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 197 lb FT = 20%											

LUMBER

TOP CHORD	2x6 SP No.2 *Except* 3-4:2x4 SP No.1, 4-6:2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.3 *Except* 6-7,9-5,7-5:2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-7, 3-9, 4-9, 5-9, 5-8
WEBS	2 Rows at 1/3 pts 5-7

REACTIONS

(size)	7= Mechanical, 11=0-7-11, 12=0-7-11
Max Horiz	12=590 (LC 5)
Max Uplift	7=-2580 (LC 5), 11=-2448 (LC 8), 12=-325 (LC 25)
Max Grav	7=2366 (LC 15), 11=2633 (LC 15), 12=282 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/115, 2-3=-207/222, 3-4=-1946/2017, 4-5=-1314/1610, 5-6=-191/154, 6-7=-303/394, 2-12=-340/263
BOT CHORD	11-12=-563/364, 9-11=-503/343, 8-9=-1552/1358, 7-8=-1552/1358
WEBS	3-9=-1501/1502, 4-9=-1084/1026, 5-9=-196/234, 5-8=-687/903, 5-7=-2210/2425, 2-11=-242/270, 3-11=-1900/1854

NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) Bearings are assumed to be: Joint 11 SP 2400F 2.0E

8) Refer to girder(s) for truss to truss connections.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2580 lb uplift at joint 7, 325 lb uplift at joint 12 and 2448 lb uplift at joint 11.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 209 lb down and 230 lb up at 9-0-12, 209 lb down and 230 lb up at 11-0-12, 209 lb down and 227 lb up at 13-0-12, 209 lb down and 230 lb up at 15-0-12, and 209 lb down and 230 lb up at 17-0-12, and 209 lb down and 230 lb up at 19-0-12 on top chord, and 1086 lb down and 1345 lb up at 7-0-0, 174 lb down and 191 lb up at 9-0-12, 174 lb down and 191 lb up at 11-0-12, 174 lb down and 191 lb up at 13-0-12, 174 lb down and 191 lb up at 15-0-12, and 174 lb down and 191 lb up at 17-0-12, and 174 lb down and 191 lb up at 19-0-12 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 (lb/ft)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-6=-60, 7-12=-20

Concentrated Loads (lb)

Vert: 9=-431 (F), 13=-90 (F), 14=-90 (F), 15=-90 (F), 16=-90 (F), 17=-90 (F), 18=-90 (F), 19=-56 (F), 21=-56 (F), 22=-56 (F), 23=-56 (F), 24=-56 (F), 25=-56 (F)

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Date:

November 14,2023

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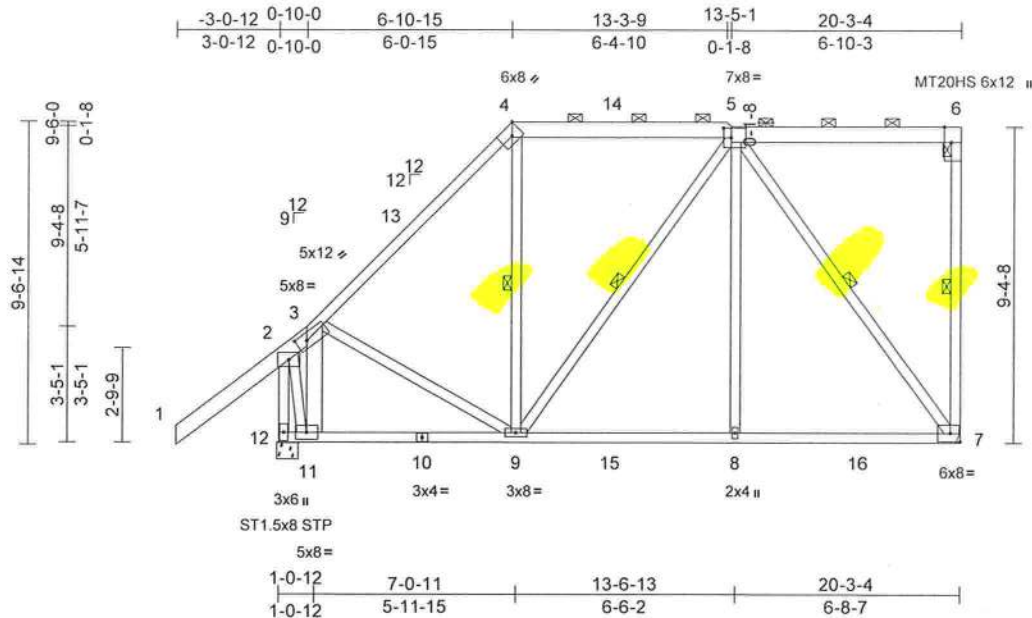
Job	Truss	Truss Type	Qty	Ply	
3698546	M7	Piggyback Base	1	1	T32098972
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:45

Page: 1

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Scale = 1:68.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.07	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.12	7-8	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.07	7-8	>999	240	Weight: 181 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 "Except" 3-4:2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 "Except" 6-7:2x4 SP No.2, 11-3:2x6 SP No.2

BRACING

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

REACTIONS	(size) 7= Mechanical, 11=0-7-11, 12=0-7-11
	Max Horiz 12=583 (LC 7)
	Max Uplift 7=-492 (LC 7), 11=-409 (LC 7), 12=-252 (LC 6)
	Max Grav 7=872 (LC 2), 11=1194 (LC 18), 12=183 (LC 7)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/116, 2-3=-84/292, 3-4=-766/339, 4-6=-542/389, 6-7=-179/170, 2-12=-261/403
BOT CHORD	11-12=-552/597, 9-11=-475/572, 8-9=-395/811, 7-8=-393/816
WEBS	3-9=-79/512, 4-9=-45/180, 5-9=-189/170, 5-8=0/406, 5-7=-1130/481, 2-11=-290/368, 3-11=-1104/189

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 3-10-12, Exterior(2R) 3-10-12 to 9-11-11, Interior (1) 9-11-11 to 17-2-4, Exterior(2E) 17-2-4 to 20-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 11 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 492 lb uplift at joint 7, 252 lb uplift at joint 12 and 409 lb uplift at joint 11.

- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58176
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14, 2023

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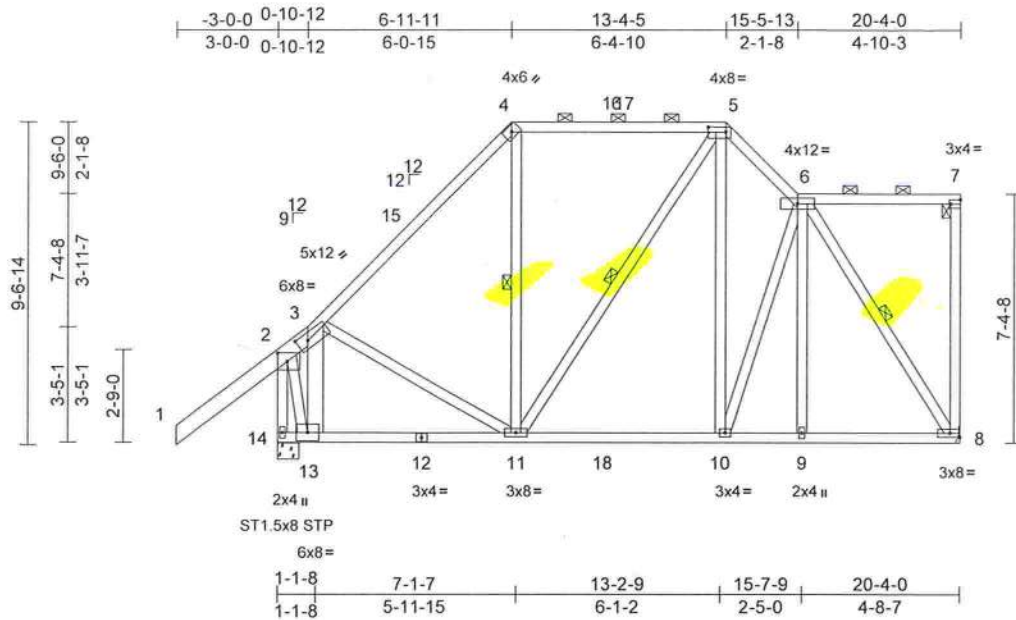
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	M8	Piggyback Base	1	1	T32098973
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:46
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Page: 1



Scale = 1:68.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.86	Vert(LL)	-0.05	10-11	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.09	10-11	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	8	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.03	8-9	>999	240	Weight: 186 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-3:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 13-3:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-7.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 4-11, 5-11, 6-8

REACTIONS (size) 8= Mechanical, 13=0-7-11,

14=0-7-11

Max Horiz 14=555 (LC 7)

Max Uplift 8=-384 (LC 7), 13=-428 (LC 10),

14=-270 (LC 6)

Max Grav 8=828 (LC 2), 13=1123 (LC 18),

14=185 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/113, 2-3=-68/238, 3-4=-795/345,
4-5=-561/394, 5-6=-758/473, 6-7=-148/216,
7-8=-153/127, 2-14=-258/344

BOT CHORD 13-14=-525/469, 11-13=-444/449,
10-11=-310/725, 9-10=-280/706,
8-9=-279/707

WEBS 3-11=-157/504, 4-11=-69/178, 5-11=-154/161,
5-10=-144/342, 6-10=-193/219, 6-9=-27/131,
6-8=-1048/334, 2-13=-260/339,
3-13=-1118/252

NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCCL=4.2psf; BCDL=5.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone
and C-C Exterior(2E) -3-0-0 to 0-1-12, Interior (1) 0-1-12
to 0-10-12, Exterior(2E) 0-10-12 to 3-10-12, Exterior(2R)
3-10-12 to 9-11-11, Interior (1) 9-11-11 to 10-4-5,
Exterior(2R) 10-4-5 to 13-4-5, Exterior(2E) 13-4-5 to
15-5-13, Interior (1) 15-5-13 to 17-2-4, Exterior(2E)
17-2-4 to 20-2-4 zone; cantilever left and right exposed ;
end vertical left and right exposed;C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.

7) Bearings are assumed to be: Joint 13 SP No.2 .

8) Refer to girder(s) for truss to truss connections.

9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 384 lb uplift at joint
8, 270 lb uplift at joint 14 and 428 lb uplift at joint 13.

10) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

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

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
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16025 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14,2023

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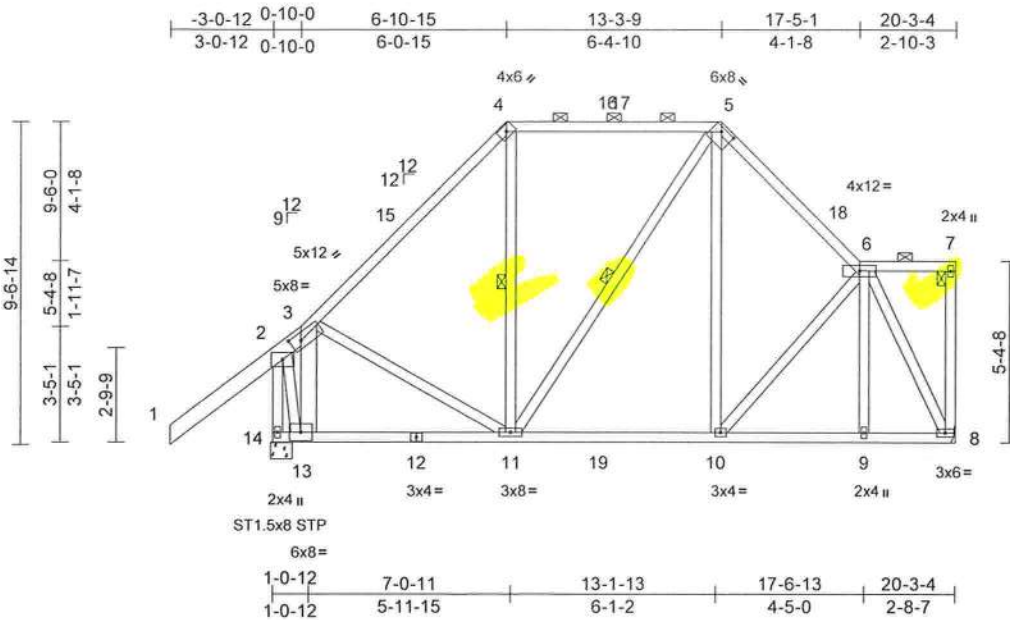
MiTek®
16025 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	M9	Piggyback Base	1	1	T32098974
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:46
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Page: 1



Scale = 1:68.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.05	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.08	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	9-10	>999	240	Weight: 176 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-3:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 13-3:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-7.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 4-11, 5-11

REACTIONS (size) 8= Mechanical, 13=0-7-11,

14=0-7-11

Max Horiz 14=515 (LC 7)

Max Uplift 8=-292 (LC 11), 13=-407 (LC 10),

14=-273 (LC 6)

Max Grav 8=828 (LC 2), 13=1112 (LC 18),

14=152 (LC 24)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/116, 2-3=-89/277, 3-4=-833/357, 4-5=-587/402, 5-6=-835/435, 6-7=-104/157, 7-8=-74/72, 2-14=-244/280

BOT CHORD 13-14=-485/356, 11-13=-418/332,

10-11=-253/671, 9-10=-195/605,

8-9=-193/607

WEBS 3-11=-163/505, 4-11=-72/189, 5-11=-177/165,

5-10=-81/307, 6-10=-177/182, 6-9=-5/133,

6-8=-1097/335, 2-13=-271/376,

3-13=-1131/226

NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 3-10-12, Exterior(2R) 3-10-12 to 9-11-11, Interior (1) 9-11-11 to 10-4-5, Exterior(2R) 10-4-5 to 16-4-5, Interior (1) 16-4-5 to 17-5-13, Exterior(2E) 17-5-13 to 20-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) Bearings are assumed to be: Joint 13 SP No.2.

8) Refer to girder(s) for truss to truss connections.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 8, 273 lb uplift at joint 14 and 407 lb uplift at joint 13.

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14, 2023

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Chesterfield, MO 63017
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Page: 1

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

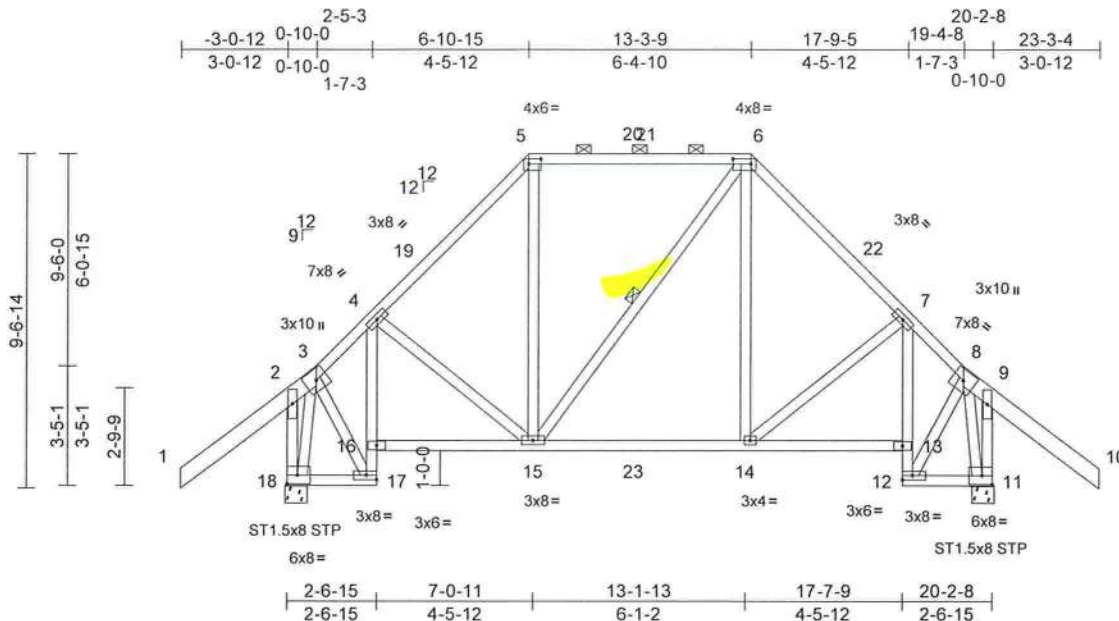
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314 434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	M11	Piggyback Base	2	1	T32098976
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:47
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Page: 1



Scale = 1:66.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.06	14-15	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.10	14-15	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.14	11	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.06	15-16	>999	240	Weight: 182 lb FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 1-3,8-10:2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3

BRACING

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

REACTIONS

(size)	11=0-7-11, 18=0-7-11
Max Horiz	18=494 (LC 8)
Max Uplift	11=404 (LC 11), 18=404 (LC 10)
Max Grav	11=1034 (LC 2), 18=1027 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/116, 2-3=-366/632, 3-4=-765/186, 4-5=-1045/359, 5-6=-740/363, 6-7=-1041/375, 7-8=-708/254, 8-9=-389/821, 9-10=0/116, 2-18=700/1060, 9-11=-726/1202
BOT CHORD	17-18=-379/424, 16-17=-386/261, 4-16=-355/266, 15-16=-423/738, 14-15=-186/697, 13-14=-77/695, 12-13=-460/167, 7-13=-428/175, 11-12=-87/277
WEBS	3-17=-240/593, 4-15=-225/243, 5-15=-62/280, 6-15=-172/173, 6-14=-85/302, 7-14=-170/230, 3-18=-946/3, 8-12=-157/659, 8-11=-1071/124

NOTES

- 1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 3-10-12, Exterior(2R) 3-10-12 to 9-11-11, Interior (1) 9-11-11 to 10-4-5, Exterior(2R) 10-4-5 to 16-4-5, Interior (1) 16-4-5 to 19-5-4, Exterior(2E) 19-5-4 to 23-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No. 2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 18 and 404 lb uplift at joint 11.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14,2023

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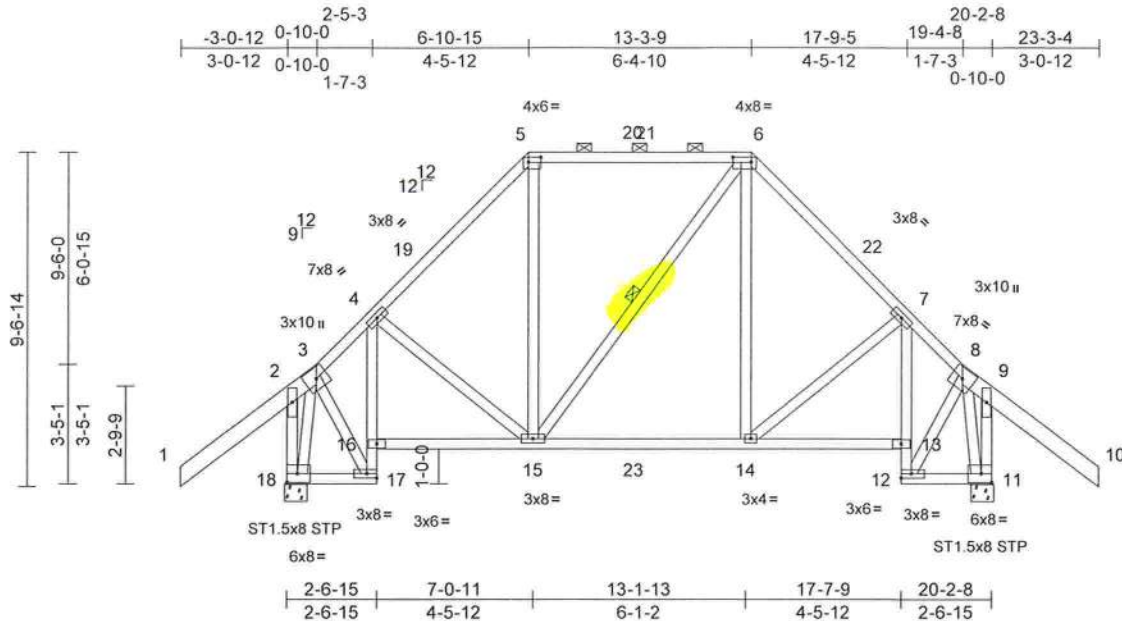
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	M12	Piggyback Base	1	1	T32098977
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:48
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Page: 1



Scale = 1.66:2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.06	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.10	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.06	15-16	>999	240	Weight: 182 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2 *Except* 1-3,8-10:2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-11 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-15
REACTIONS	
(size)	11=0-7-11, 18=0-7-11
Max Horiz	18=494 (LC 8)
Max Uplift	11=404 (LC 11), 18=404 (LC 10)
Max Grav	11=1034 (LC 2), 18=1027 (LC 2)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/116, 2-3=-366/632, 3-4=-765/186, 4-5=-1045/359, 5-6=-740/363, 6-7=-1041/375, 7-8=-708/254, 8-9=-389/821, 9-10=0/116, 2-18=-700/1060, 9-11=-726/1202
BOT CHORD	17-18=-379/424, 16-17=-386/261, 4-16=-355/266, 15-16=-423/738, 14-15=-186/697, 13-14=-77/695, 12-13=-460/167, 7-13=-428/175, 11-12=-87/277
WEBS	3-17=-240/593, 4-15=-225/243, 5-15=-62/280, 6-15=-172/173, 6-14=-85/302, 7-14=-170/230, 8-12=-157/659, 3-18=-946/3, 8-11=-1071/124

NOTES

- 1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -3-0-0 to 0-2-8, Interior (1) 0-2-8 to 0-10-12, Exterior(2E) 0-10-12 to 3-10-12, Exterior(2R) 3-10-12 to 9-11-11, Interior (1) 9-11-11 to 10-4-5, Exterior(2R) 10-4-5 to 16-4-5, Interior (1) 16-4-5 to 19-5-4, Exterior(2E) 19-5-4 to 23-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 18 and 404 lb uplift at joint 11.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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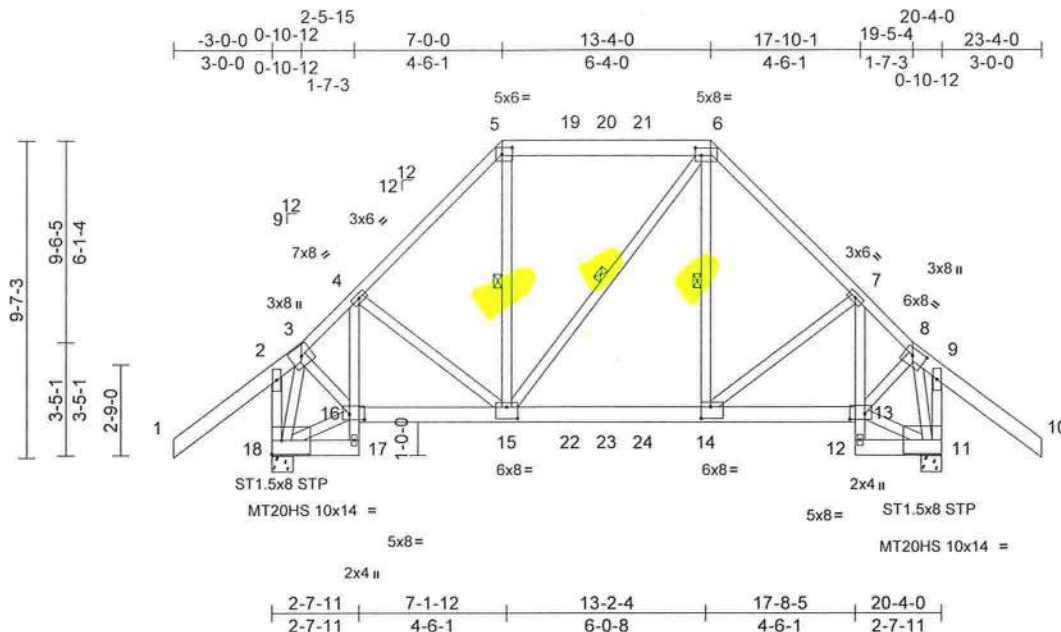
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Crr 6634
36025 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com



Scale = 1:69.9

Plate Offsets (X, Y): [5:0-3-12,0-2-8], [6:0-2-4,0-2-12], [8:0-4-12,0-2-8], [11:0-0-0,Edge], [13:0-5-8,0-2-0], [14:0-3-8,0-4-4], [15:0-4-0,0-4-4], [16:0-5-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	0.22	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	0.20	14-15	>999	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	-0.09	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 205 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* 3-5,6-8:2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 17-4,7-12:2x4 SP No.3
WEBS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-2-12 oc bracing.

WEBS

REACTIONS	(size)	11=0-7-11, 18=0-7-11
	Max Horiz	18=-485 (LC 6)
	Max Uplift	11=-2623 (LC 9), 18=-2623 (LC 8)
	Max Grav	11=2615 (LC 16), 18=2608 (LC 15)

FORCES

Tension

TOP CHORD 1-2=0/113, 2-3=-489/554, 3-4=-2192/2259,
4-5=-27701/3037, 5-6=-19177/2304,
6-7=-2686/3019, 7-8=-2098/2239,
8-9=-477/550, 9-10=0/113, 2-18=-840/844,
9-11=-824/839

BOT CHORD 17-18=-169/148, 16-17=-5/50,
4-16=-923/1040, 15-16=-1854/1830,
14-15=-2094/2002, 13-14=-1498/1577,
12-13=0/46, 7-13=-830/1000, 11-12=-135/114

WEBS 3-16=-1454/1471, 4-15=-822/782,
5-15=-1586/1354, 6-15=-174/173,
6-14=-1588/1406, 7-14=-720/745,
8-13=-1424/1443, 3-18=-2378/2243,
8-11=-2427/2316, 16-18=-869/885,
11-13=-559/583

NOTES

- 1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDF=4.2psf; BCDL=5.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed ; end vertical left and
right 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) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) All bearings are assumed to be SP No.2 .
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2623 lb uplift at joint 18 and 2623 lb uplift at joint 11.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 169 lb down and 161 lb up at 7-0-0, 169 lb down and 161 lb up at 9-0-12, 169 lb down and 156 lb up at 10-2-0, and 169 lb down and 161 lb up at 11-3-4, and 169 lb down and 161 lb up at 13-4-0 on top chord, and 1176 lb down and 1431 lb up at 7-0-0, 218 lb down and 263 lb up at 9-0-12, 218 lb down and 263 lb up at 10-2-0, and 218 lb down and 263 lb up at 11-3-4, and 1176 lb down and 1431 lb up at 13-3-4 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 (lb/ft)

Concentrated Loads (lb)
Vert: 5=-52 (B), 6=-52 (B), 15=-323 (B), 14=-323 (B),
19=-52 (B), 20=-52 (B), 21=-52 (B), 22=-91 (B),
23=-91 (B), 24=-91 (B)

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

November 14.2023



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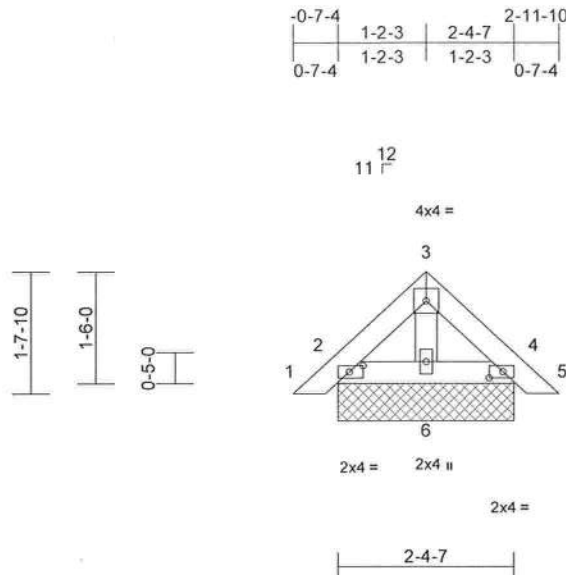
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	PB1	Piggyback	16	1	T32098979
					Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:49
ID:J7LvZWMc00KGMaY9M6jbP4yK1zU-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCd0i7J4zJC?F

Page: 1



Scale = 1:31

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 12 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 3-6-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size)	2=2-4-7, 4=2-4-7, 6=2-4-7, 7=2-4-7, 11=2-4-7
	Max Horiz	2=-56 (LC 8), 7=-56 (LC 8)
	Max Uplift	2=-40 (LC 10), 4=-47 (LC 11), 6=-26 (LC 10), 7=-40 (LC 10), 11=-47 (LC 11)
	Max Grav	2=80 (LC 1), 4=80 (LC 1), 6=79 (LC 18), 7=80 (LC 1), 11=80 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/16, 2-3=-44/67, 3-4=-44/67, 4-5=0/16
BOT CHORD	2-6=-17/85, 4-6=-17/85
WEBS	3-6=-35/6

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 47 lb uplift at joint 4, 26 lb uplift at joint 6, 40 lb uplift at joint 2 and 47 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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

November 14,2023

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Page: 1LOAD CASE(S) Standard

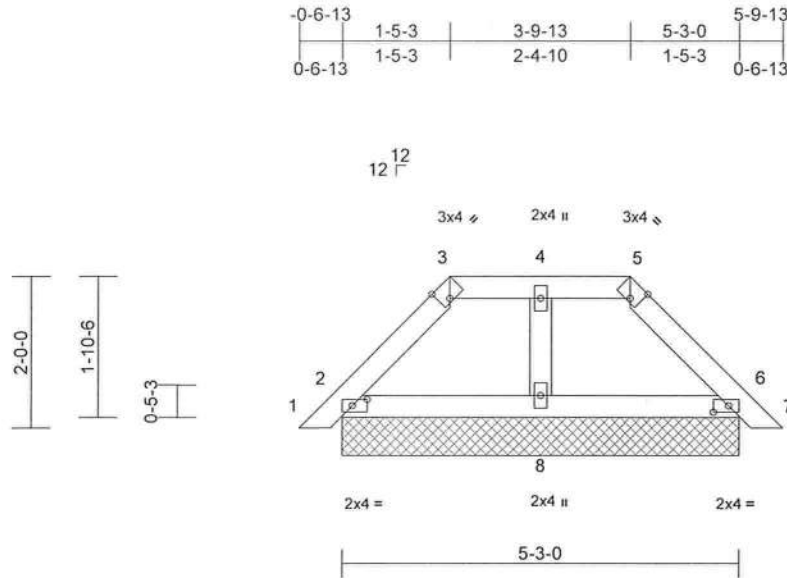
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	PB3	Piggyback	1	1	T32098981
					Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:50
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Page: 1



Scale = 1:30.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	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
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS

(size)	2=5-3-0, 6=5-3-0, 8=5-3-0, 9=5-3-0, 12=5-3-0
Max Horiz	2=-72 (LC 8), 9=-72 (LC 8)
Max Uplift	2=-79 (LC 10), 6=-80 (LC 11), 8=-55 (LC 7), 9=-79 (LC 10), 12=-80 (LC 11)
Max Grav	2=151 (LC 1), 6=151 (LC 1), 8=161 (LC 1), 9=151 (LC 1), 12=151 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/15, 2-3=-129/137, 3-4=-97/148, 4-5=-97/148, 5-6=-129/137, 6-7=0/15
BOT CHORD	2-8=-49/76, 6-8=-31/76
WEBS	4-8=-125/165

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-8 to 2-0-0, Exterior(2R) 2-0-0 to 4-4-10, Exterior(2E) 4-4-10 to 6-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 2, 80 lb uplift at joint 6, 55 lb uplift at joint 8, 79 lb uplift at joint 2 and 80 lb uplift at joint 6.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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

November 14,2023

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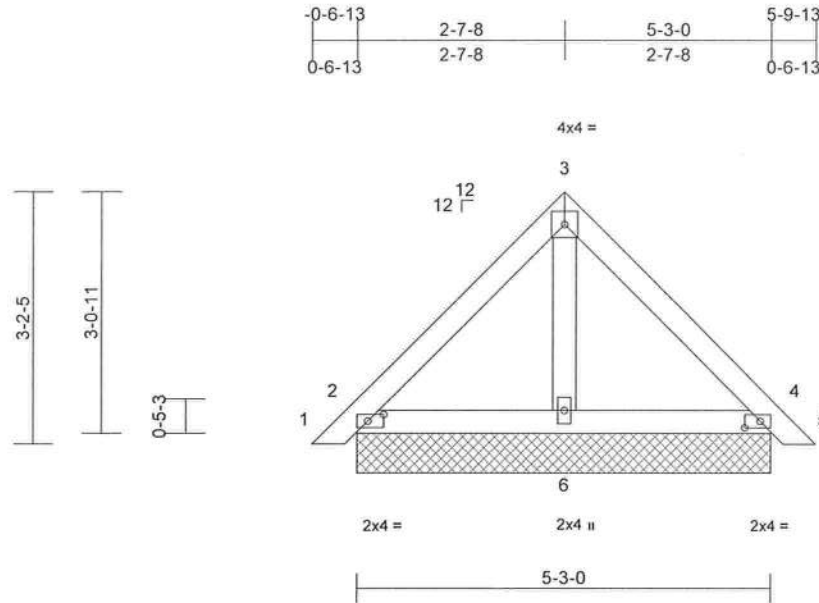
Job	Truss	Truss Type	Qty	Ply	
3698546	PB4	Piggyback	6	1	T32098982
					Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:51

Page: 1

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Scale = 1:29.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
										Weight: 25 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.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(size)	2=5-3-0, 4=5-3-0, 6=5-3-0, 7=5-3-0, 10=5-3-0
	Max Horiz	2=116 (LC 9), 7=116 (LC 9)
	Max Uplift	2=-80 (LC 11), 4=-88 (LC 11), 6=-32 (LC 10), 7=-80 (LC 11), 10=-88 (LC 11)
	Max Grav	2=155 (LC 1), 4=155 (LC 1), 6=154 (LC 18), 7=155 (LC 1), 10=155 (LC 1)

FORCES

TOP CHORD	(lb) - Maximum Compression/Maximum Tension
	1-2=0/15, 2-3=-154/159, 3-4=-154/159, 4-5=0/15
BOT CHORD	2-6=-57/90, 4-6=-34/90
WEBS	3-6=-57/6

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2, 88 lb uplift at joint 4, 32 lb uplift at joint 6, 80 lb uplift at joint 2 and 88 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58176
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14,2023

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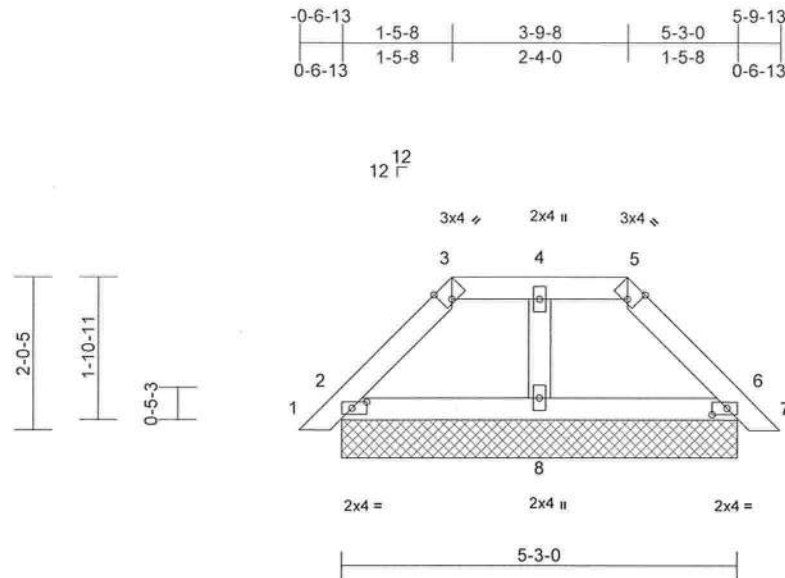
Job	Truss	Truss Type	Qty	Ply	
3698546	PB5	Piggyback	1	1	T32098983
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:51

Page: 1

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Scale = 1:30.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	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
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS	(size)	2=5-3-0, 6=5-3-0, 8=5-3-0, 9=5-3-0, 12=5-3-0
	Max Horiz	2=73 (LC 9), 9=73 (LC 9)
	Max Uplift	2=-79 (LC 10), 6=-81 (LC 11), 8=-54 (LC 7), 9=-79 (LC 10), 12=-81 (LC 11)
	Max Grav	2=152 (LC 1), 6=152 (LC 1), 8=160 (LC 1), 9=152 (LC 1), 12=152 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/15, 2-3=-129/137, 3-4=-98/149, 4-5=-98/149, 5-6=-129/137, 6-7=0/15
BOT CHORD	2-8=-50/77, 6-8=-31/77
WEBS	4-8=-123/162

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-8 to 2-0-5, Exterior(2R) 2-0-5 to 4-4-5, Exterior(2E) 4-4-5 to 6-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 2, 81 lb uplift at joint 6, 54 lb uplift at joint 8, 79 lb uplift at joint 2 and 81 lb uplift at joint 6.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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November 14,2023

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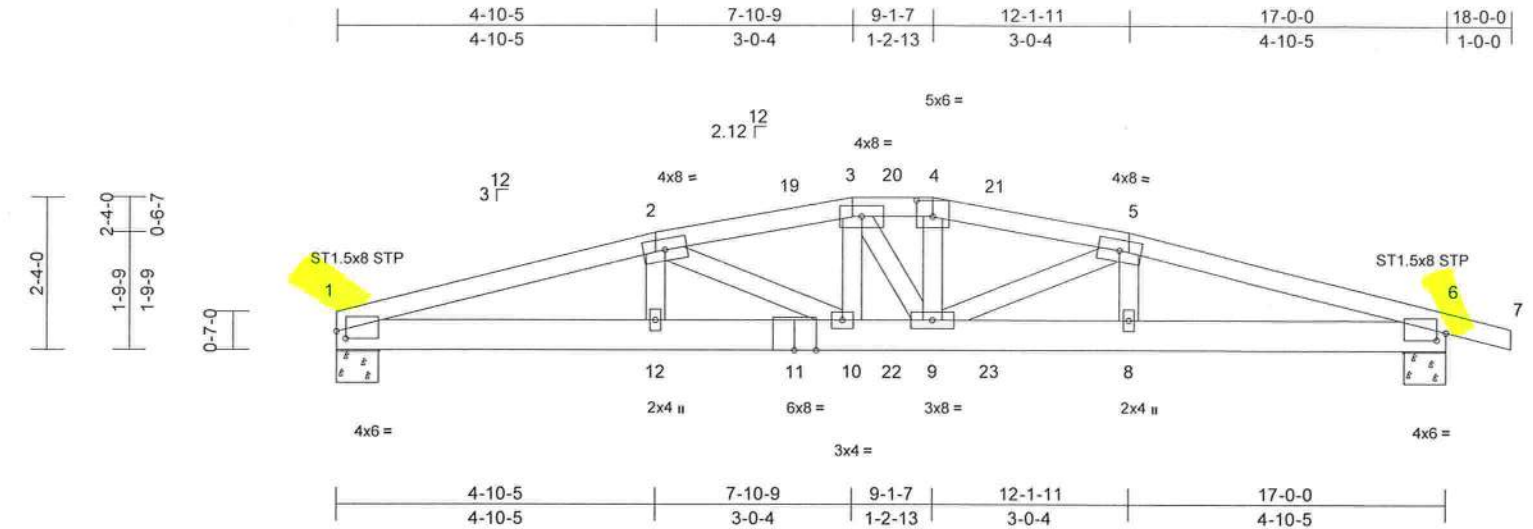
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Job	Truss	Truss Type	Qty	Ply	
3698546	S1	Hip Girder	1	1	T32098984
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:51
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Page: 1



Scale = 1:35.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.17	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.31	10	>663	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.25	10	>803	240	Weight: 87 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-12 oc bracing.

REACTIONS

(size) 1=0-7-11, 6=0-7-11
Max Horiz 1=-59 (LC 26)
Max Uplift 1=-817 (LC 4), 6=-892 (LC 5)
Max Grav 1=1337 (LC 1), 6=1400 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3820/2375, 2-3=-3906/2436, 3-4=-3838/2408, 4-5=-3913/2432, 5-6=-3804/2355, 6-7=0/15
BOT CHORD 1-12=-2283/3667, 10-12=-2283/3667, 9-10=-2337/3831, 8-9=-2212/3651, 6-8=-2212/3651
WEBS 2-12=-33/62, 2-10=-258/370, 3-10=-240/429, 3-9=-54/75, 4-9=-222/423, 5-9=-256/373, 5-8=-41/67

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 817 lb uplift at joint 1 and 892 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 127 lb up at 7-0-0, and 132 lb down and 137 lb up at 8-6-0, and 125 lb down and 127 lb up at 10-0-0 on top chord, and 148 lb down and 151 lb up at 4-10-5, 53 lb down and 21 lb up at 7-0-0, 282 lb down and 196 lb up at 7-10-9, 82 lb down and 15 lb up at 8-6-0, 282 lb down and 196 lb up at 9-1-7, and 53 lb down and 21 lb up at 10-0-0, and 148 lb down and 151 lb up at 12-1-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 5-7=-60, 13-16=-20
Concentrated Loads (lb)
Vert: 11=-52 (B), 12=-148 (B), 10=-282 (B), 9=-282 (B), 8=-148 (B), 19=-79 (B), 20=-125 (B), 21=-79 (B), 22=-68 (B), 23=-52 (B)

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November 14, 2023

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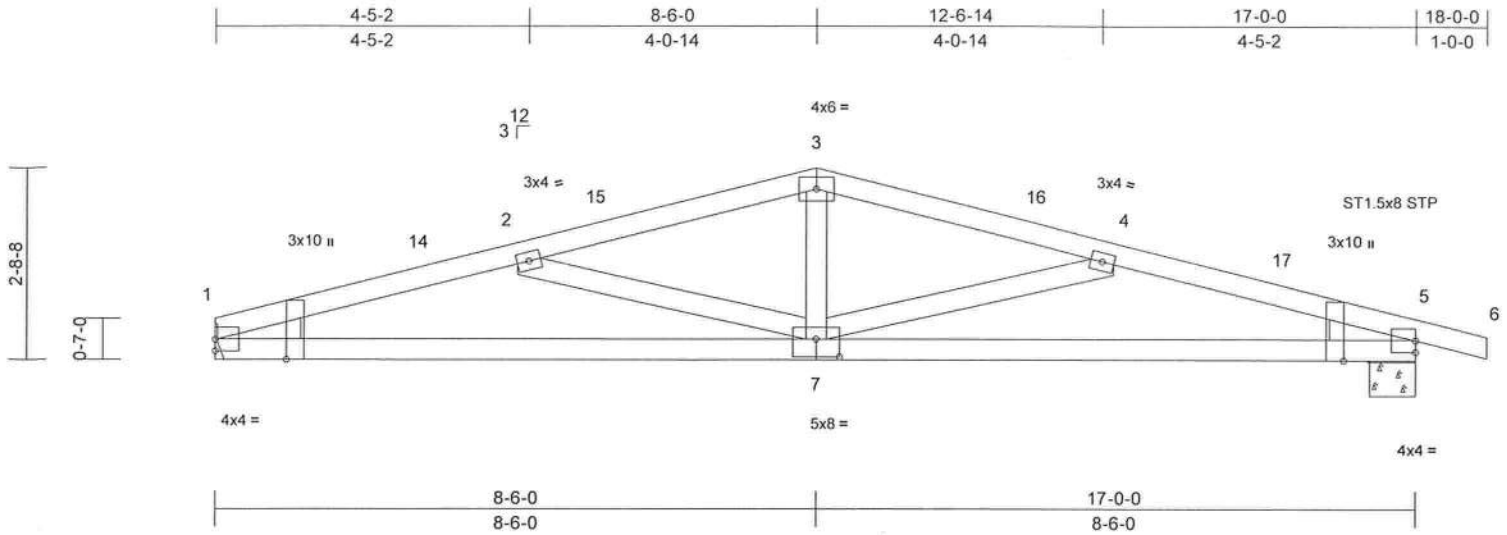
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Job	Truss	Truss Type	Qty	Ply	T32098985
3698546	S2	Common	1	1	Job Reference (optional)

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:52
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Page: 1



Scale = 1:32.6

Plate Offsets (X, Y): [1:Edge,0-1-15], [1:0-3-6,Edge], [5:Edge,0-1-15], [5:0-3-6,Edge], [7:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.07	7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.16	7-10	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.03	5	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.09	7-10	>999	240	Weight: 72 lb FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	1= Mechanical, 5=0-7-11
Max Horiz	1=-68 (LC 11)
Max Uplift	1=-308 (LC 6), 5=-382 (LC 7)
Max Grav	1=678 (LC 1), 5=742 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-1812/1243, 2-3=-1448/959, 3-4=-1448/958, 4-5=-1804/1187, 5-6=0/15
BOT CHORD	1-5=-1112/1724
WEBS	3-7=-96/402, 4-7=-379/314, 2-7=-392/343

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-6-0, Exterior(2R) 5-6-0 to 11-6-0, Interior (1) 11-6-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 1 and 382 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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Date:

November 14,2023

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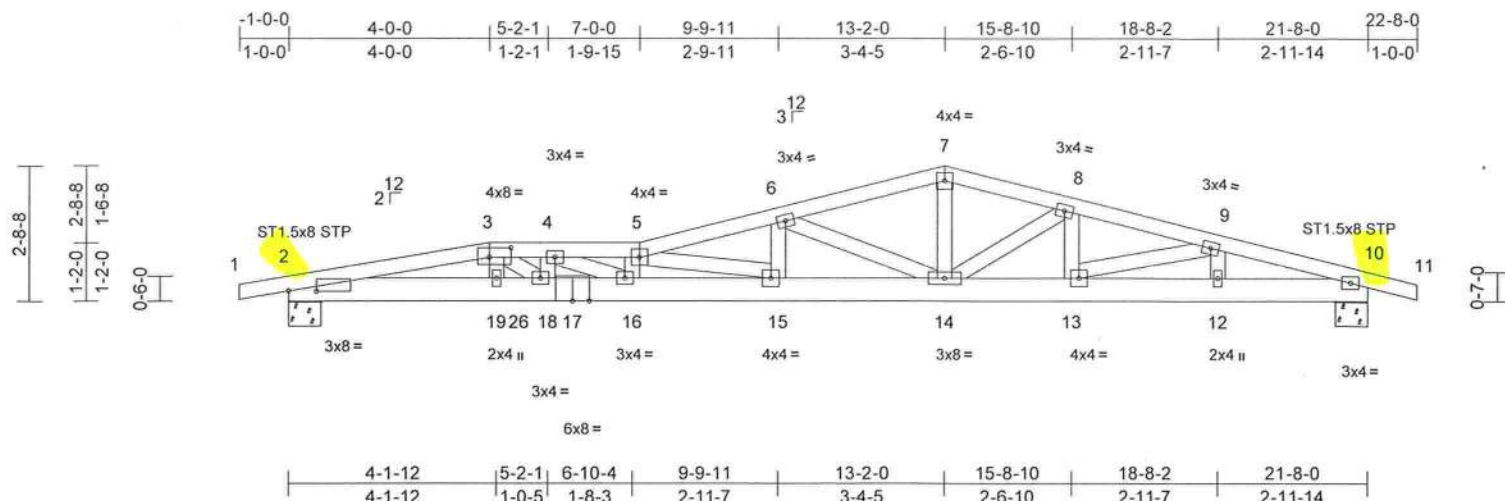
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Job	Truss	Truss Type	Qty	Ply	
3698546	S3	Roof Special Girder	1	2	T32098986
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:53
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Page: 1



Scale = 1:46.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.21	15-16	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.41	15-16	>640	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.04	10	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.30	15-16	>879	240	Weight: 233 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-7-11, 10=0-7-11

Max Horiz 2=-63 (LC 13)
Max Uplift 2=-845 (LC 4), 10=-531 (LC 5)
Max Grav 2=1522 (LC 1), 10=1080 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/10, 2-3=-5798/3043, 3-4=-6921/3599, 4-5=-6977/3537, 5-6=-4457/2184, 6-7=-2585/1206, 7-8=-2578/1216, 8-9=-2815/1234, 9-10=-2583/1124, 10-11=0/15
BOT CHORD	2-19=-3010/5698, 18-19=-3009/5700, 16-18=-3602/6921, 15-16=-3579/7053, 14-15=-2105/4320, 13-14=-1145/2719, 12-13=-1037/2478, 10-12=-1037/2478
WEBS	3-19=-98/184, 5-16=-420/275, 5-15=-2840/1531, 7-14=-462/1063, 6-15=-485/1038, 6-14=-2008/1100, 8-13=-14/96, 8-14=-326/242, 9-13=-161/297, 9-12=-226/152, 4-16=-408/384, 4-18=-179/247, 3-18=-715/1473

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 845 lb uplift at joint 2 and 531 lb uplift at joint 10.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 77 lb up at 4-0-0 on top chord, and 221 lb down and 150 lb up at 4-0-0, and 486 lb down and 263 lb up at 4-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 5-7=-60, 7-11=-60, 20-23=-20

Concentrated Loads (lb)

Vert: 3=-41 (B), 19=-221 (B), 26=-486 (B)

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

November 14, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsc.com).

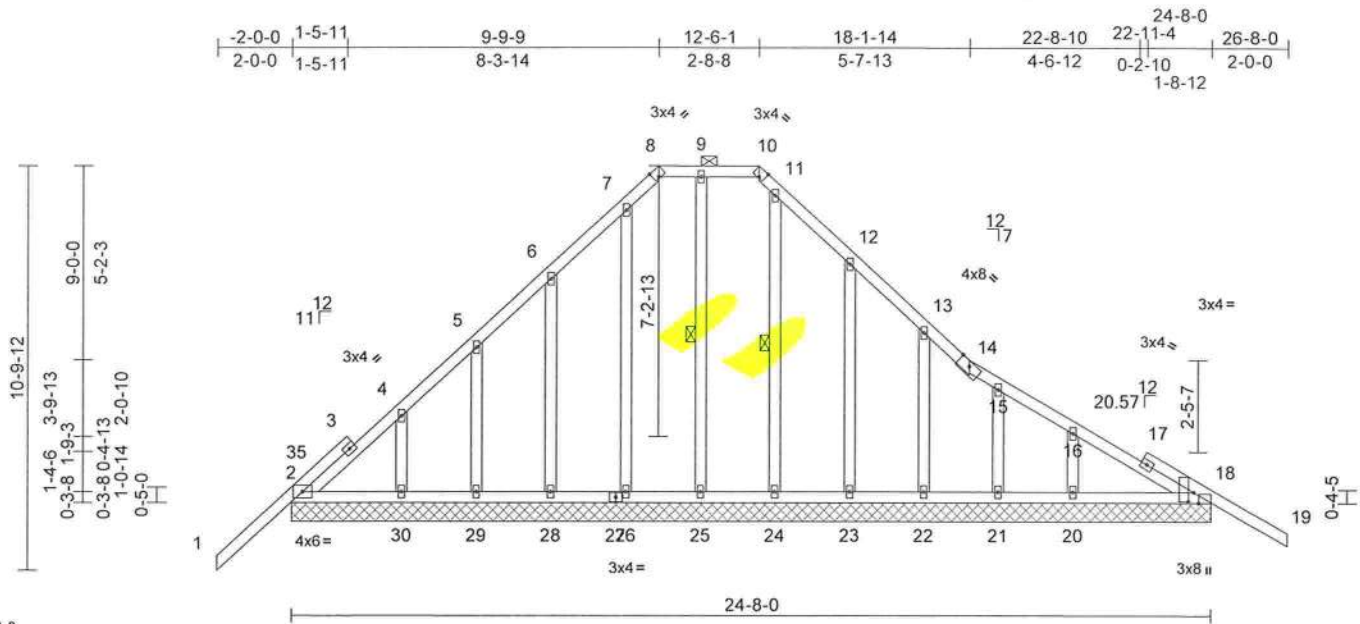
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	UA1	Piggyback Base Supported Gable	2	1	T32098987
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:53
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Page: 1



Scale = 1:61.8
Plate Offsets (X, Y): [8:0-1-10,Edge], [10:0-1-10,Edge], [18:0-3-0,0-1-12], [18:0-1-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	31	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							
Weight: 172 lb FT = 20%											

LUMBER		TOP CHORD		1-2=0/81, 2-4=-335/273, 4-5=-215/236, 5-6=-151/193, 6-7=-130/258, 7-8=-155/283, 8-9=-135/271, 9-10=-135/271, 10-11=-148/264, 11-12=-143/281, 12-13=-74/123, 13-14=-83/99, 14-15=-90/83, 15-16=-166/114, 16-18=-287/163, 18-19=0/60	6) All plates are 2x4 MT20 unless otherwise indicated. 7) Gable requires continuous bottom chord bearing. 8) Gable studs spaced at 2-0-0 oc. 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
BRACING		BOT CHORD		2-30=-163/349, 29-30=-162/348, 28-29=-162/348, 26-28=-162/348, 25-26=-162/348, 24-25=-162/348, 23-24=-162/348, 22-23=-162/348, 21-22=-162/348, 20-21=-162/348, 18-20=-162/348	11) All bearings are assumed to be SP No.2 . 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2, 72 lb uplift at joint 18, 7 lb uplift at joint 24, 58 lb uplift at joint 25, 70 lb uplift at joint 26, 204 lb uplift at joint 28, 203 lb uplift at joint 29, 111 lb uplift at joint 30, 212 lb uplift at joint 23, 168 lb uplift at joint 22, 114 lb uplift at joint 21, 134 lb uplift at joint 20 and 72 lb uplift at joint 18.
REACTIONS		WEBS		11-24=-113/27, 9-25=-160/79, 7-26=-155/90, 6-28=-205/226, 5-29=-179/214, 4-30=-233/150, 12-23=-200/232, 13-22=-191/188, 15-21=-140/148, 16-20=-246/155	13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
NOTES					
		1) Unbalanced roof live loads have been considered for this design.			
		2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCdL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 0-8-12, Exterior(2N) 0-8-12 to 6-9-9, Corner(3R) 6-9-9 to 15-6-1, Exterior(2N) 15-6-1 to 23-7-8, Corner(3E) 23-7-8 to 26-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60			
		3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.			
		4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.			
		5) Provide adequate drainage to prevent water ponding.			
FORCES		(lb) - Maximum Compression/Maximum Tension			
		Max Horiz 2=397 (LC 9) Max Uplift 2=-117 (LC 6), 18=-72 (LC 11), 20=-134 (LC 11), 21=-114 (LC 11), 22=-168 (LC 11), 23=-212 (LC 11), 24=-7 (LC 6), 25=-58 (LC 7), 26=-70 (LC 10), 28=-204 (LC 10), 29=-203 (LC 10), 30=-111 (LC 10), 31=-72 (LC 11) Max Grav 2=283 (LC 24), 18=292 (LC 1), 20=262 (LC 19), 21=149 (LC 19), 22=197 (LC 19), 23=209 (LC 19), 24=153 (LC 25), 25=200 (LC 21), 26=195 (LC 18), 28=201 (LC 18), 29=203 (LC 18), 30=182 (LC 18), 31=292 (LC 1)			

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	
3698546	UA1	Piggyback Base Supported Gable	2	1	T32098987
					Job Reference (optional)

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

LOAD CASE(S) Standard

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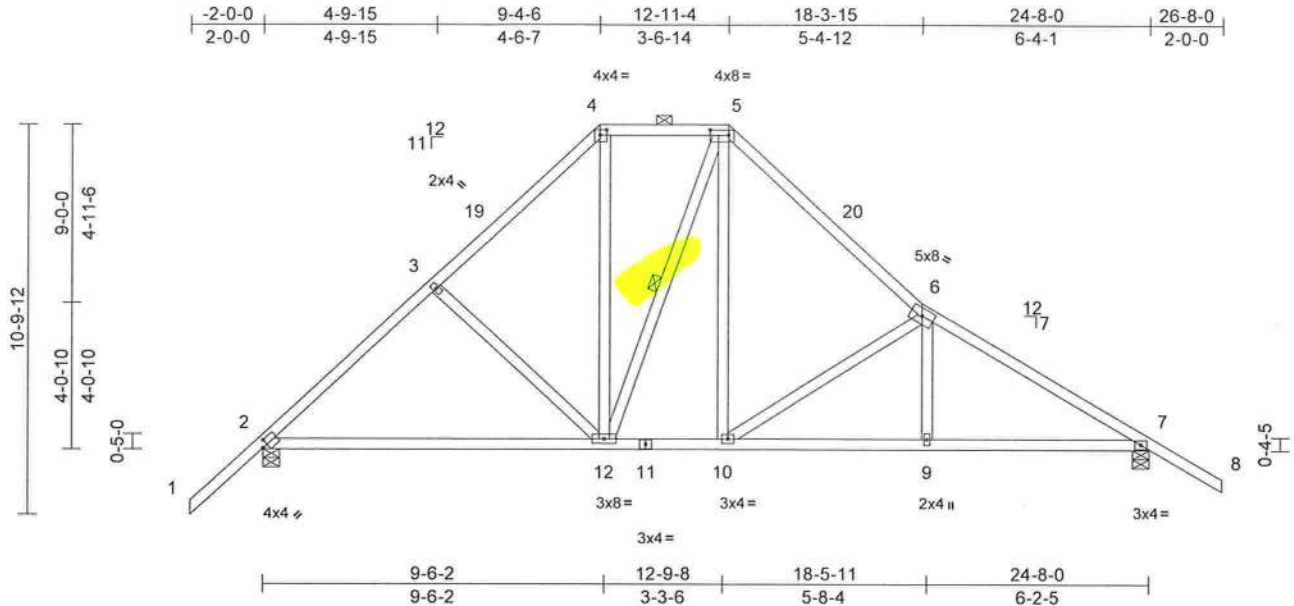
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	UA2	Piggyback Base	8	1	T32098988

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:54
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Scale = 1:64

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.17	12-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.35	12-15	>847	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.07	9-18	>999	240	Weight: 153 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except 2:0-0 oc purlins (6:0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-12

REACTIONS

(size)	2=0-5-8, 7=0-5-8
Max Horiz	2=397 (LC 9)
Max Uplift	2=-446 (LC 10), 7=-479 (LC 11)
Max Grav	2=1107 (LC 1), 7=1107 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/81, 2-3=-1423/519, 3-4=-1256/523, 4-5=-910/492, 5-6=-1285/536, 6-7=-1852/594, 7-8=0/60
BOT CHORD	2-12=-362/997, 10-12=-110/749, 9-10=-320/1510, 7-9=-317/1516
WEBS	3-12=-392/368, 4-12=-222/523, 5-12=-187/206, 5-10=-248/550, 6-10=-929/502, 6-9=0/268

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 2:0-0 to 1:0-0, Interior (1) 1:0-0 to 6:4-6, Exterior(2R) 6:4-6 to 15:11-4, Interior (1) 15:11-4 to 23:8-0, Exterior(2E) 23:8-0 to 26:8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3:06-00 tall by 2:00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 446 lb uplift at joint 2 and 479 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Date:

November 14, 2023

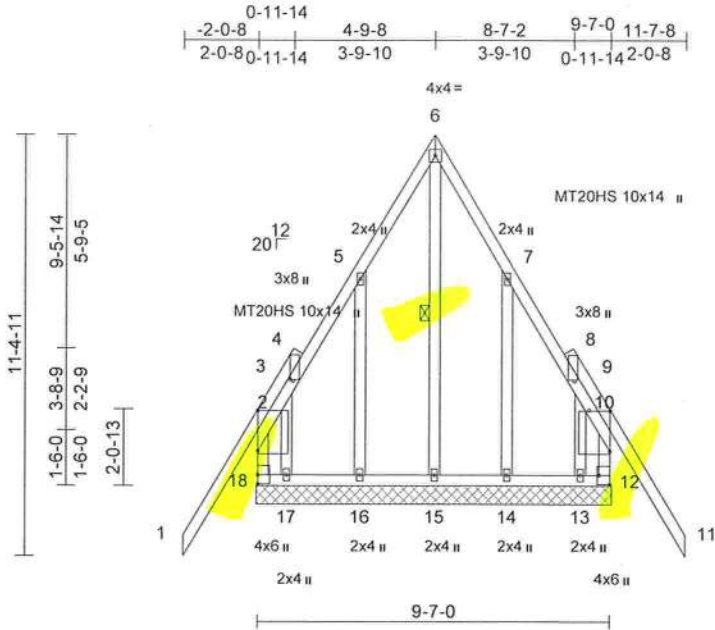
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Job	Truss	Truss Type	Qty	Ply	
3698546	UB1	Common Supported Gable	1	1	T32098990
Job Reference (optional)					



Scale = 1:62.5

Plate Offsets (X, Y): [2:1-1-3,Edge], [3:0-0-7,0-1-0], [9:0-0-7,0-1-0], [10:1-1-3,Edge], [12:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	n/a	-	n/a	999	MT20HS 187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.00	12	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 102 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 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-15
REACTIONS (size)	12=9-8-0, 13=9-8-0, 14=9-8-0, 15=9-8-0, 16=9-8-0, 17=9-8-0, 18=9-8-0
	Max Horiz 18=-570 (LC 8)
	Max Uplift 12=-734 (LC 7), 13=-568 (LC 6), 14=-372 (LC 11), 15=-16 (LC 9), 16=-372 (LC 10), 17=-585 (LC 7), 18=-765 (LC 6)
	Max Grav 12=627 (LC 18), 13=616 (LC 9), 14=291 (LC 19), 15=824 (LC 11), 16=292 (LC 18), 17=637 (LC 8), 18=655 (LC 19)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-18=-405/767, 1-2=0/110, 2-3=-365/699, 3-5=-254/383, 5-6=-336/776, 6-7=-335/777, 7-9=-235/380, 9-10=-339/619, 10-11=0/110, 10-12=-387/675
BOT CHORD	17-18=-300/313, 16-17=-300/313, 15-16=-300/313, 14-15=-300/313, 13-14=-300/313, 12-13=-300/313
WEBS	6-15=-1191/404, 5-16=-450/442, 3-17=-806/240, 7-14=-446/446, 9-13=-716/234

NOTES

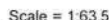
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 0-10-0, Exterior(2N) 0-10-0 to 1-10-0, Corner(3R) 1-10-0 to 7-10-0, Exterior (2N) 7-10-0 to 8-8-0, Corner(3E) 8-8-0 to 11-8-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are MT20 plates unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 765 lb uplift at joint 18, 734 lb uplift at joint 12, 16 lb uplift at joint 15, 372 lb uplift at joint 16, 585 lb uplift at joint 17, 372 lb uplift at joint 14 and 568 lb uplift at joint 13.
- LOAD CASE(S)** Standard

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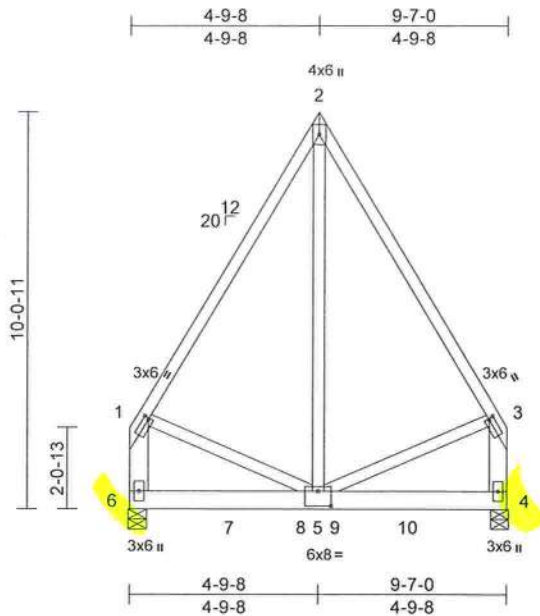
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Chesterfield, MO 63017
314 434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3698546	UB3	Common Girder	1	2	T32098992
					Job Reference (optional)



Scale = 1:58.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.05	4-5	>999	240		
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		Wind(LL)	0.03	4-5	>999	240	Weight: 174 lb	FT = 20%

- LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 6-1,4-3:2x6 SP No.2
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (size) 4=0-5-8, 6=0-5-8
Max Horiz 6=-446 (LC 6)
Max Uplift 4=-1405 (LC 8), 6=-1405 (LC 9)
Max Grav 4=3257 (LC 1), 6=3257 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1751/861, 2-3=-1751/861, 1-6=-1823/851, 3-4=-1823/851
BOT CHORD 5-6=-541/562, 4-5=-207/175
WEBS 2-5=-1125/2538, 1-5=-488/840, 3-5=-492/843

- NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1405 lb uplift at joint 6 and 1405 lb uplift at joint 4.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 969 lb down and 394 lb up at 0-3-4, 962 lb down and 397 lb up at 2-6-12, 962 lb down and 397 lb up at 4-4-12, 962 lb down and 397 lb up at 5-3-4, and 962 lb down and 397 lb up at 7-1-4, and 969 lb down and 394 lb up at 9-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 6=-969 (B), 4=-969 (B), 7=-962 (B), 8=-962 (B), 9=-962 (B), 10=-962 (B)

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Date:

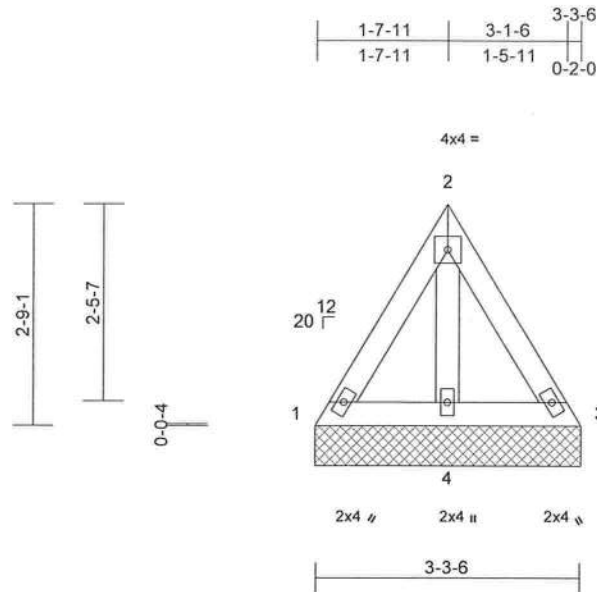
November 14,2023

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3698546	V3	Valley	1	1	T32098993

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:56
ID:nWMTUnrOTclx5pikuxkVaEyK2lp-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwvCDoi7J4zJC?f

Page: 1



Scale = 1:28.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	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
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS

(size)	1=3-3-11, 3=3-3-11, 4=3-3-11
Max Horiz	1=110 (LC 7)
Max Uplift	1=-25 (LC 6), 4=-135 (LC 10)
Max Grav	1=71 (LC 19), 3=54 (LC 25), 4=177 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-69/62, 2-3=-61/45
BOT CHORD	1-4=-99/108, 3-4=-99/108
WEBS	2-4=-116/62

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1 and 135 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

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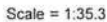
Philip J. O'Regan PE No.58126
MiTek Inc, DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd, Chesterfield, MO 63017
Date:

November 14,2023

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Page: 1

PLATES	GRIP
MT20	244/190
Weight: 29 lb	FT = 20%

November 14, 2023

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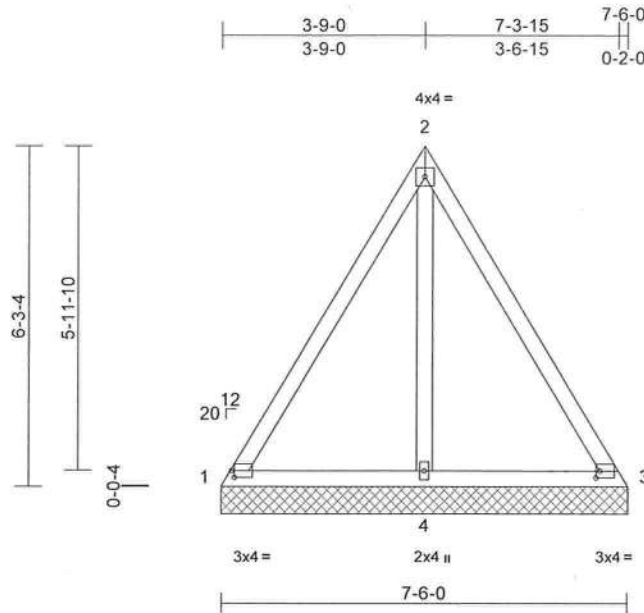
Page: 1

Job	Truss	Truss Type	Qty	Ply	
3698546	V8	Valley	1	1	T32098996
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:58
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Page: 1



Scale = 1:42.6

Plate Offsets (X, Y): [1:0-0-10,0-1-8], [3:0-0-13,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horiz(TL)	-0.01	3	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 40 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 7-6-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size)	1=7-6-5, 3=7-6-5, 4=7-6-5
Max Horiz	1=-265 (LC 6)
Max Uplift	1=-66 (LC 8), 3=-12 (LC 9), 4=-455 (LC 10)
Max Grav	1=156 (LC 10), 3=128 (LC 21), 4=476 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-357/292, 2-3=-339/292
BOT CHORD	1-4=-275/288, 3-4=-275/288
WEBS	2-4=-572/417

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 4-6-5, Exterior(2E) 4-6-5 to 7-6-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 1, 12 lb uplift at joint 3 and 455 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

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Date:

November 14, 2023

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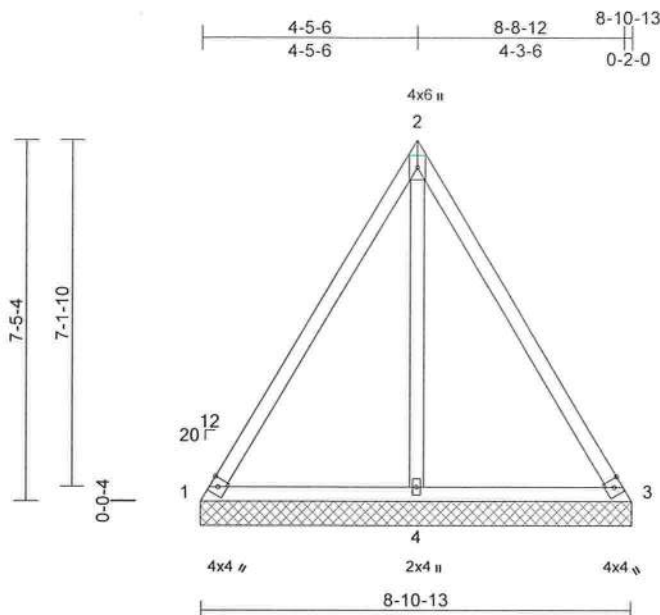
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
3698546	V9A	Valley	1	1	T32098997
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:58
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Page: 1



Scale = 1:47.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horiz(TL)	-0.01	3	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 48 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 8-4-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size)	1=8-11-1, 3=8-11-1, 4=8-11-1
Max Horiz	1=317 (LC 9)
Max Uplift	1=-94 (LC 8), 3=-31 (LC 9), 4=-617 (LC 10)
Max Grav	1=225 (LC 10), 3=187 (LC 11), 4=604 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-515/442, 2-3=-494/442
BOT CHORD	1-4=-355/366, 3-4=-355/366
WEBS	2-4=-784/588

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 5-11-1, Exterior(2E) 5-11-1 to 8-11-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 1, 31 lb uplift at joint 3 and 617 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 14, 2023

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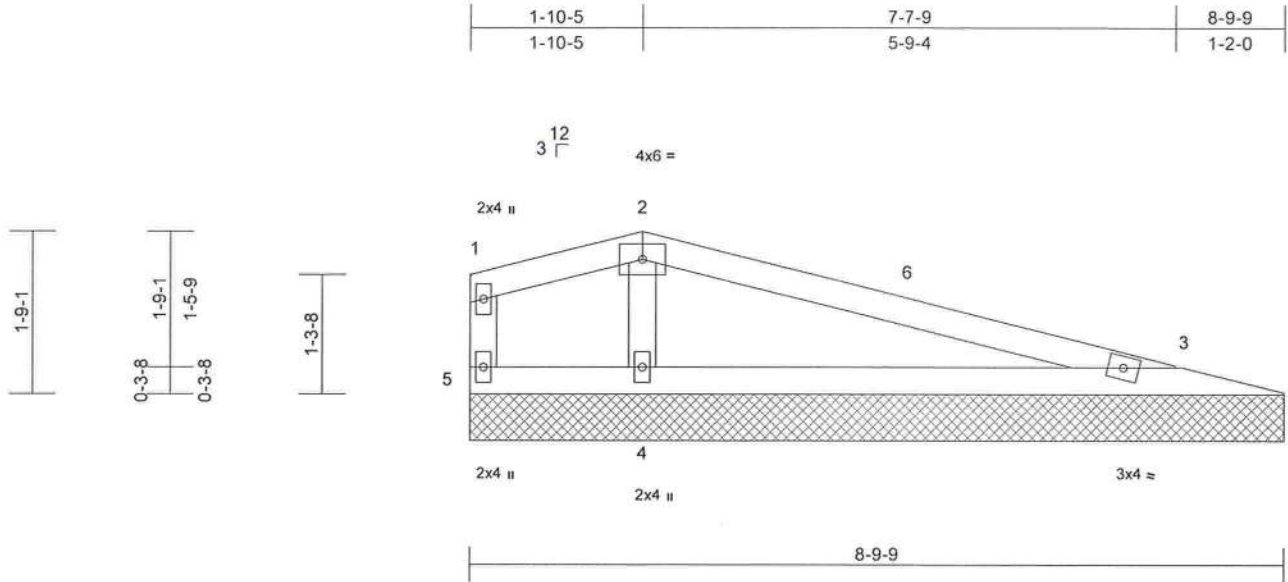
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
3698546	V9B	Valley	1	1	T32098998
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:58
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 28 lb FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 8-10-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 3=8-9-9, 4=8-9-9, 5=8-9-9
Max Horiz 5=-56 (LC 6)
Max Uplift 3=-103 (LC 7), 4=-203 (LC 7), 5=-94 (LC 25)
Max Grav 3=194 (LC 1), 4=461 (LC 1), 5=32 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-30/55, 1-2=-31/47, 2-3=-76/68
BOT CHORD 4-5=-27/151, 3-4=-27/151
WEBS 2-4=-379/571

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 1-10-5, Exterior(2R) 1-10-5 to 4-7-9, Exterior(2E) 4-7-9 to 7-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 5, 103 lb uplift at joint 3 and 203 lb uplift at joint 4.
- LOAD CASE(S)** Standard

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Philip J. O'Regan PE No.58126
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Date:

November 14,2023

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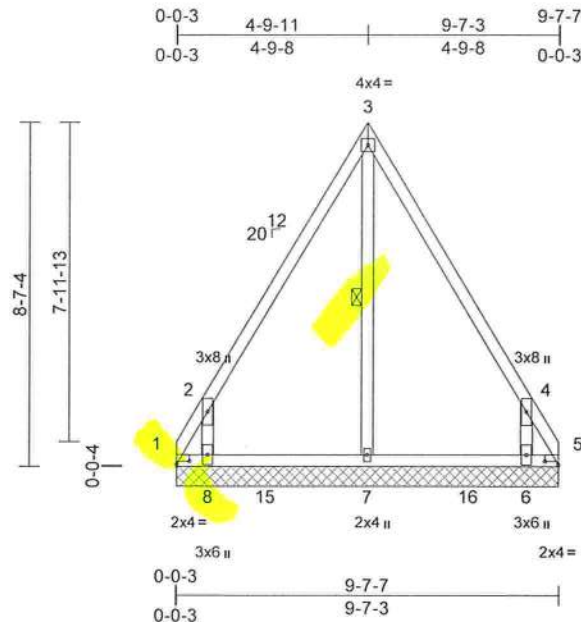
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
3698546	V10	Valley	1	1	T32098999
Job Reference (optional)					

Builders FirstSource (Groveland, FL), Groveland, FL - 34736,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Mon Nov 13 14:41:59
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Page: 1



Scale = 1:57.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horiz(TL)	0.01	5	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
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-8-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS	1 Row at midpt 3-7
------	--------------------

REACTIONS (size)	1=9-7-0, 5=9-7-0, 6=9-7-0, 7=9-7-0, 8=9-7-0, 9=9-7-0
Max Horiz	1=-355 (LC 6), 9=-355 (LC 6)
Max Uplift	1=-820 (LC 8), 6=-548 (LC 11), 7=-456 (LC 9), 8=-935 (LC 10), 9=-820 (LC 8)
Max Grav	1=831 (LC 7), 6=522 (LC 19), 7=900 (LC 11), 8=793 (LC 18), 9=831 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension	
---	--

TOP CHORD	1-2=-908/876, 2-3=-600/718, 3-4=-589/570, 4-5=-292/220
-----------	--

BOT CHORD	1-8=-149/166, 7-8=-12/60, 6-7=-12/60, 5-6=-91/104
-----------	---

WEBS	3-7=-929/680, 2-8=-1020/1086, 4-6=-943/966
------	--

NOTES

- Unbalancing roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-0-3 to 2-11-13, Exterior(2R) 2-11-13 to 6-7-3, Exterior(2E) 6-7-3 to 9-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 820 lb uplift at joint 1, 456 lb uplift at joint 7, 935 lb uplift at joint 8, 548 lb uplift at joint 6 and 820 lb uplift at joint 1.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5, 9.

LOAD CASE(S) Standard

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

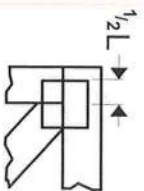
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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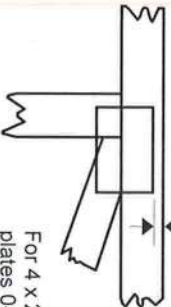
Symbols

PLATE LOCATION AND ORIENTATION

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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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



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

PLATE SIZE

4 X 4

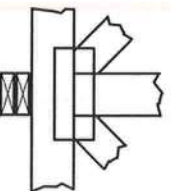
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

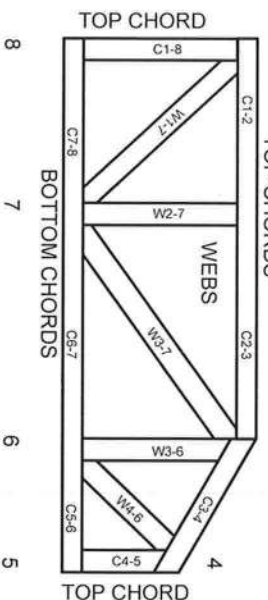
Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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

1 2 3 Joint ID typ.



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-EES Reports:

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

Design General Notes

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

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

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 1 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.