



RE: P210577 - Floor -

Site Information:

Project Customer: Starr Homes Project Name: Milligan Residence
Lot/Block: 3A/4A Subdivision: Tiffany Woods
Model: Milligan Residence
Address: 512 NE Promised View Dr.
City: Lees Summit State: MO

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

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

Design Code: IRC2018/TPI2014

Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-16 Wind Speed: 115 mph

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Roof Load: 60.0 psf

Floor Load: N/A psf

Mean Roof Height (feet): 35

Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I58527938	F01	5/24/23	35	I58527972	F35	5/24/23
2	I58527939	F02	5/24/23	36	I58527973	F36	5/24/23
3	I58527940	F03	5/24/23	37	I58527974	F37	5/24/23
4	I58527941	F04	5/24/23	38	I58527975	F38	5/24/23
5	I58527942	F05	5/24/23	39	I58527976	F39	5/24/23
6	I58527943	F06	5/24/23	40	I58527977	F40	5/24/23
7	I58527944	F07	5/24/23	41	I58527978	F41	5/24/23
8	I58527945	F08	5/24/23	42	I58527979	F42	5/24/23
9	I58527946	F09	5/24/23	43	I58527980	F43	5/24/23
10	I58527947	F10	5/24/23	44	I58527981	F43A	5/24/23
11	I58527948	F11	5/24/23	45	I58527982	F44	5/24/23
12	I58527949	F12	5/24/23	46	I58527983	F45	5/24/23
13	I58527950	F13	5/24/23	47	I58527984	F46	5/24/23
14	I58527951	F14	5/24/23	48	I58527985	F47	5/24/23
15	I58527952	F15	5/24/23	49	I58527986	F48	5/24/23
16	I58527953	F16	5/24/23	50	I58527987	F49	5/24/23
17	I58527954	F17	5/24/23	51	I58527988	F50	5/24/23
18	I58527955	F18	5/24/23	52	I58527989	F51	5/24/23
19	I58527956	F19	5/24/23	53	I58527990	F52	5/24/23
20	I58527957	F20	5/24/23	54	I58527991	F53	5/24/23
21	I58527958	F21	5/24/23	55	I58527992	F54	5/24/23
22	I58527959	F22	5/24/23	56	I58527993	F55	5/24/23
23	I58527960	F23	5/24/23	57	I58527994	F56	5/24/23
24	I58527961	F24	5/24/23	58	I58527995	F57	5/24/23
25	I58527962	F25	5/24/23	59	I58527996	F58	5/24/23
26	I58527963	F26	5/24/23	60	I58527997	F59	5/24/23
27	I58527964	F27	5/24/23	61	I58527998	F60	5/24/23
28	I58527965	F28	5/24/23	62	I58527999	F61	5/24/23
29	I58527966	F29	5/24/23	63	I58528000	F62	5/24/23
30	I58527967	F30	5/24/23	64	I58528001	F63	5/24/23
31	I58527968	F31	5/24/23	65	I58528002	F64	5/24/23
32	I58527969	F32	5/24/23	66	I58528003	F65	5/24/23
33	I58527970	F33	5/24/23	67	I58528004	F66	5/24/23
34	I58527971	F34	5/24/23	68	I58528005	F67	5/24/23

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Nathan Fox

My license renewal date for the state of Missouri is December 31, 2024.

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



May 24, 2023



08/24/2023

RE: P210577 - Floor -

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

No.	Seal#	Truss Name	Date
69	I58528006	F68	5/24/23
70	I58528007	F69	5/24/23
71	I58528008	F70	5/24/23
72	I58528009	F71	5/24/23
73	I58528010	F72	5/24/23
74	I58528011	F73	5/24/23
75	I58528012	F74	5/24/23
76	I58528013	F75	5/24/23
77	I58528014	F76	5/24/23
78	I58528015	F77	5/24/23
79	I58528016	F78	5/24/23
80	I58528017	F79	5/24/23
81	I58528018	F80	5/24/23
82	I58528019	F81	5/24/23
83	I58528020	F82	5/24/23
84	I58528021	F83	5/24/23
85	I58528022	F84	5/24/23
86	I58528023	F85	5/24/23
87	I58528024	F86	5/24/23
88	I58528025	F87	5/24/23
89	I58528026	F88	5/24/23
90	I58528027	F89	5/24/23
91	I58528028	F90	5/24/23
92	I58528029	F91	5/24/23
93	I58528030	F92	5/24/23
94	I58528031	F93	5/24/23
95	I58528032	F94	5/24/23
96	I58528033	F95	5/24/23
97	I58528034	F96	5/24/23
98	I58528035	F97	5/24/23

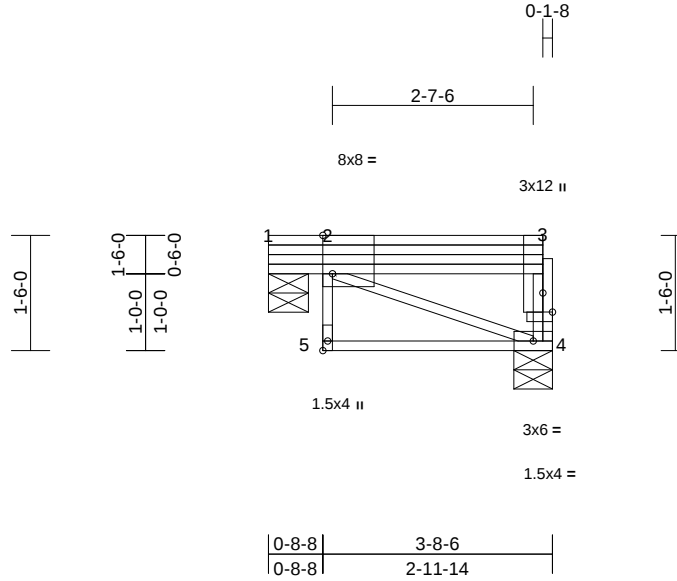
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F01	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:16 Page: 1

ID:xfaeJN2lyTqF7SKMM51al7zIRBV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK1VrCDoi7J42JG41

08/24/2023



Scale = 1:30

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	0.00	5	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.02	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
 3-8-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
 bracing.

REACTIONS (size) 1=0-6-4, 4=0-6-0
 Max Grav 1=217 (LC 1), 4=225 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 2-5=0/19, 3-4=-206/0, 1-2=0/0, 2-3=0/0
 BOT CHORD 4-5=0/0
 WEBS 2-4=0/0

NOTES

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

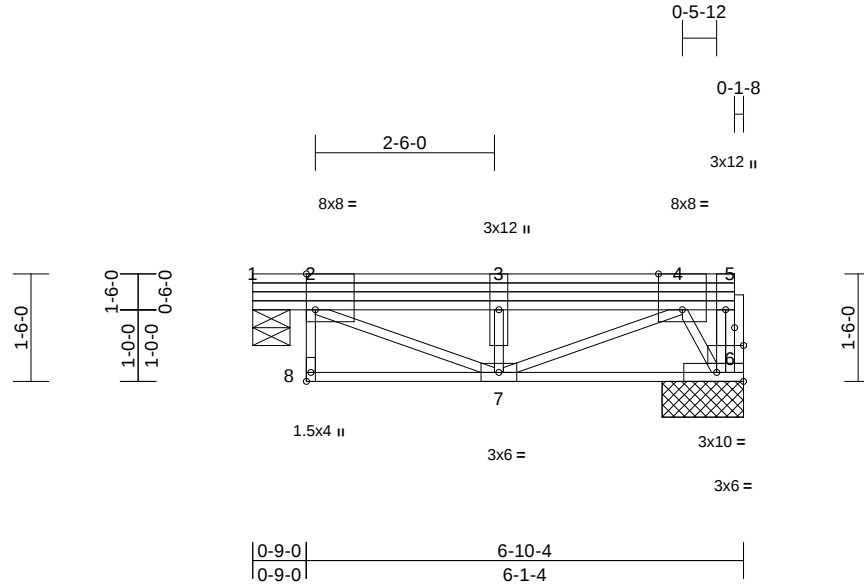
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F02	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:18 Page: 1

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08/24/2023



Scale = 1:32.2

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.01	7-8	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	-0.02	6-7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 65 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 1=0-6-4, 6=1-1-10
Max Grav 1=412 (LC 1), 6=422 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-8=0/13, 5-6=0/14, 1-2=0/0, 2-3=-635/0,
3-4=-635/0, 4-5=0/0

BOT CHORD 7-8=0/0, 6-7=0/255
WEBS 2-7=0/697, 3-7=-421/0, 4-7=0/421,
4-6=-489/0

NOTES

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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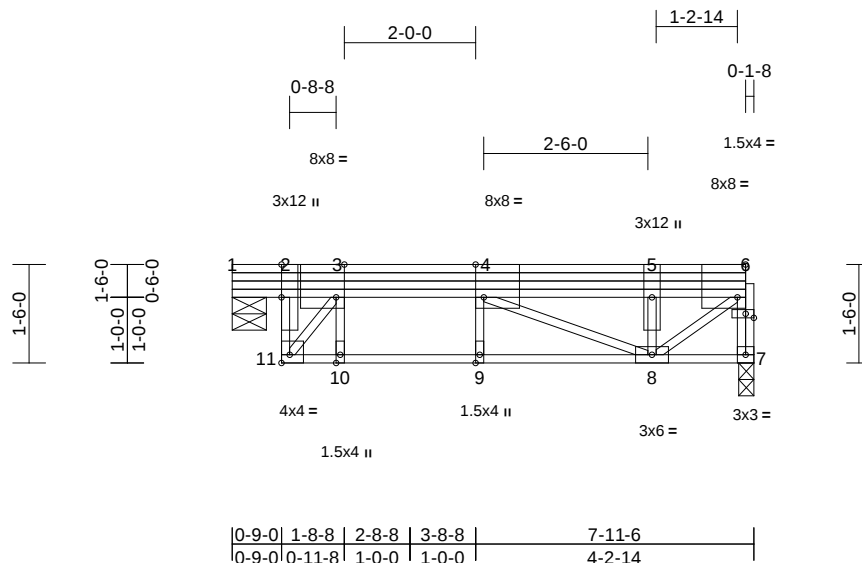
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F03	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:19 Page: 1

ID:QHsd1wLhnEPb65zNRnh?czlR95-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDof3423C4f

08/24/2023



Scale = 1:35.1

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.02	8-9	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.03	8-9	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 73 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 1=0-6-4, 7=0-2-12
 Max Grav 1=485 (LC 1), 7=495 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 2-11=0/992, 6-7=-490/0, 1-2=0/0, 2-3=0/0,
 3-4=-667/0, 4-5=-534/0, 5-6=-534/0

BOT CHORD 10-11=0/666, 9-10=0/667, 8-9=0/665,
 7-8=0/0

WEBS 3-10=0/39, 4-9=0/28, 3-11=-1200/0,
 4-8=-188/0, 5-8=-350/0, 6-8=0/695

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
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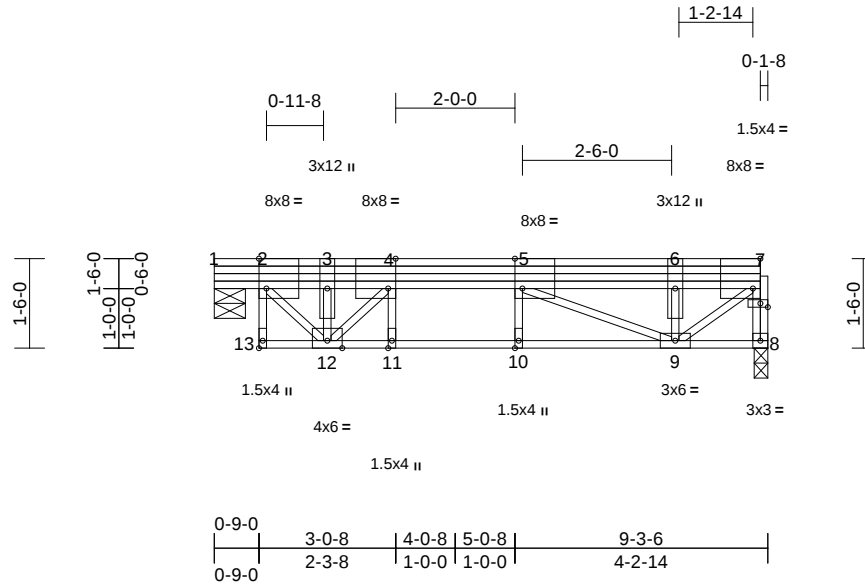
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F04	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:19 Page: 1

ID:cO20xo2F5AdrQpR4WEUGxwzIR8w-RfC?PsB70Hq3NSgPqnL8w3uITXb6KWrcD6HJ42JC?

08/24/2023



Scale = 1:38.6

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.02	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.03	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 87 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 1=0-6-4, 8=0-2-12
Max Grav 1=569 (LC 1), 8=579 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 2-13=0/10, 7-8=-574/0, 1-2=0/0, 2-3=-691/0,
3-4=-691/0, 4-5=-1022/0, 5-6=-628/0,
6-7=-628/0
BOT CHORD 12-13=0/0, 11-12=0/1020, 10-11=0/1022,
9-10=0/1019, 8-9=0/0
WEBS 4-11=0/32, 5-10=0/34, 4-12=-535/0,
3-12=-375/0, 2-12=0/1026, 5-9=-436/0,
6-9=-320/0, 7-9=0/817

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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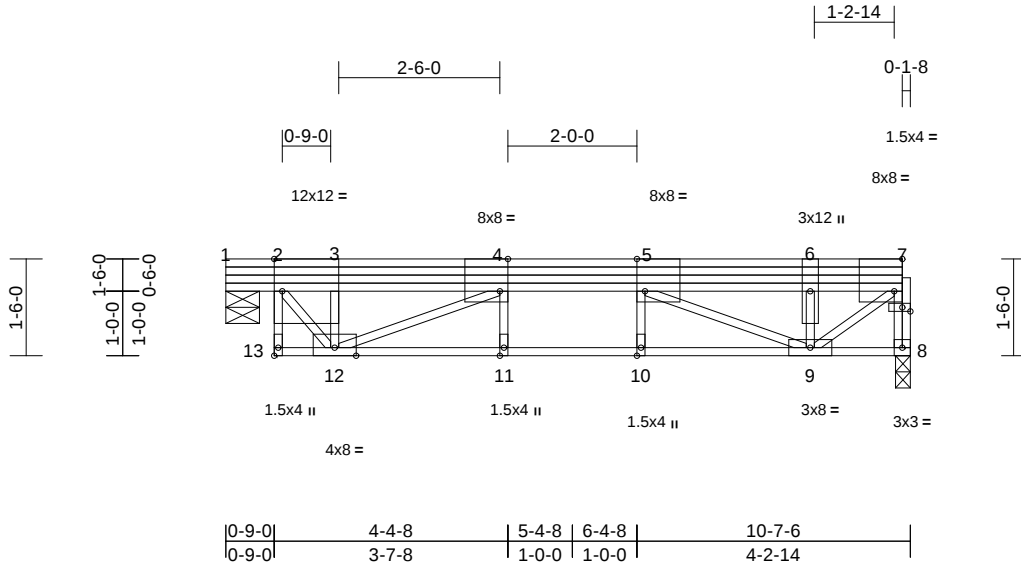
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F05	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:19 Page: 1

ID:4s8pijyGXsiulaapXa0pVgjzIR8e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J423C?r

08/24/2023



Scale = 1:35.7

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.03	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.04	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 1=0-6-4, 8=0-2-12
Max Grav 1=654 (LC 1), 8=664 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 2-13=-1/0, 7-8=-659/0, 1-2=0/0, 2-3=-805/0,
3-4=-805/0, 4-5=-1350/0, 5-6=-727/0,
6-7=-727/0
BOT CHORD 12-13=0/0, 11-12=0/1347, 10-11=0/1350,
9-10=0/1347, 8-9=0/0
WEBS 4-11=0/35, 5-10=0/36, 4-12=-616/0,
3-12=-807/0, 2-12=0/1357, 5-9=-685/0,
6-9=-314/0, 7-9=0/945

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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



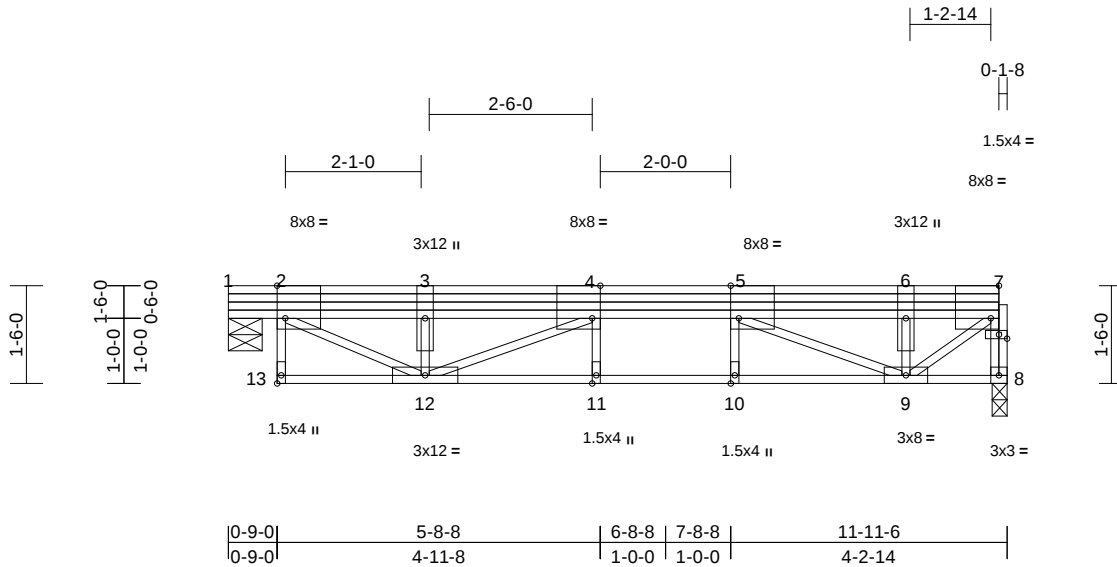
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F06	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:19 Page: 1
ID:JsieArarkh9chZpX5UHbjCzIR8E-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J42JCW

08/24/2023



Scale = 1:35.3

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.05	11-12	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.19	Vert(CT)	-0.07	11-12	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 1=0-6-4, 8=0-2-12
Max Grav 1=738 (LC 1), 8=748 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 2-13=0/13, 7-8=-743/0, 1-2=0/0, 2-3=-1490/0,
3-4=-1490/0, 4-5=-1692/0, 5-6=-822/0,
6-7=-822/0
BOT CHORD 12-13=0/0, 11-12=0/1690, 10-11=0/1692,
9-10=0/1689, 8-9=0/0
WEBS 4-11=0/31, 5-10=0/40, 4-12=-407/0,
3-12=-670/0, 2-12=0/1692, 5-9=-957/0,
6-9=-294/0, 7-9=0/1070

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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



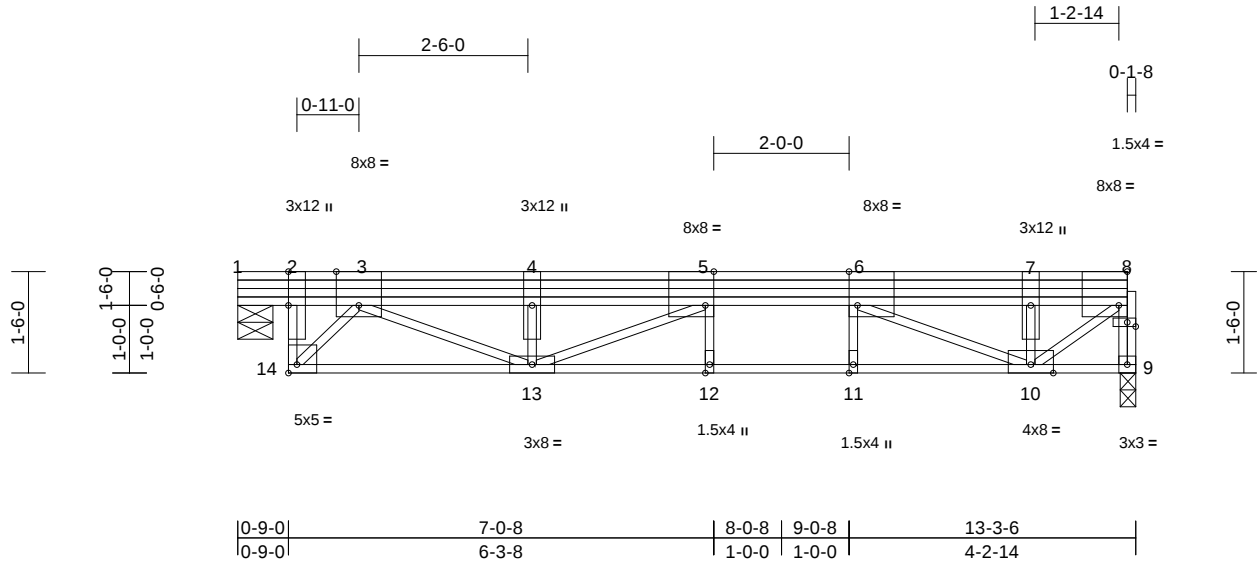
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F07	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:19 Page: 1
ID:21eY50A4KR7ENSAfeQ6nOKzIR4u-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWwCDn7J423C2f

08/24/2023



Scale = 1:34.1

Plate Offsets (X, Y): [2:0-6-0,Edge], [3:0-4-0,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [8:0-1-8,Edge], [8:0-1-8,0-0-12], [14:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.06	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.10	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 122 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 1=0-6-4, 9=0-2-12
Max Grav 1=823 (LC 1), 9=833 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-14=0/1271, 8-9=-827/0, 1-2=0/0, 2-3=0/0, 3-4=-2059/0, 4-5=-2059/0, 5-6=-2041/0, 6-7=-917/0, 7-8=-917/0

BOT CHORD 13-14=0/1083, 12-13=0/2040, 11-12=0/2041, 10-11=0/2038, 9-10=0/0

WEBS 5-12=0/23, 6-11=0/48, 5-13=-282/173, 4-13=-437/0, 3-13=0/1080, 3-14=-1654/0, 6-10=-1238/0, 7-10=-274/2, 8-10=0/1193

NOTES

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F08	Floor	1	1	

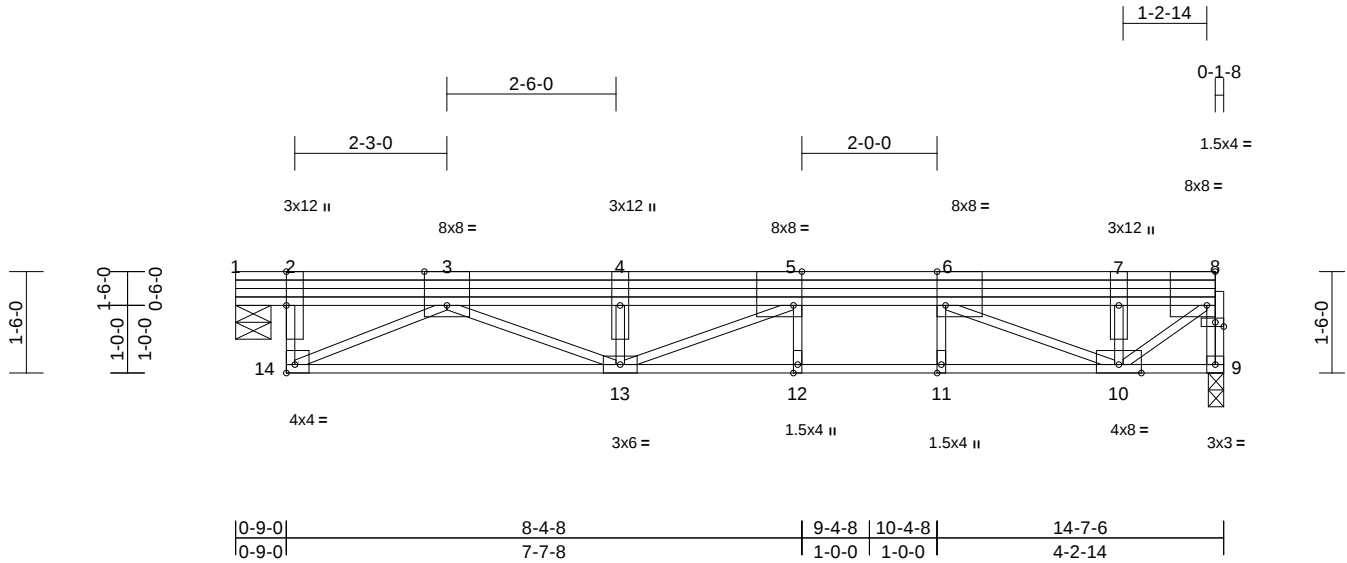
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527945
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:05:20 Page: 1

ID:frinCdfJUIFR1Uoul1?QoozIHV_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J42JCW

08/24/2023



Scale = 1:34.1

Plate Offsets (X, Y): [2:0-6-0,Edge], [3:0-4-0,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [8:0-1-8,Edge], [8:0-1-8,0-0-12], [14:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.09	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	-0.15	13-14	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 134 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 1=0-6-4, 9=0-2-12
Max Grav 1=907 (LC 1), 9=917 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-14=0/981, 8-9=-910/0, 1-2=0/0, 2-3=0/0, 3-4=-2690/0, 4-5=-2690/0, 5-6=-2388/0, 6-7=-1012/0, 7-8=-1012/0
BOT CHORD 13-14=0/1864, 12-13=0/2388, 11-12=0/2388, 10-11=0/2384, 9-10=0/0
WEBS 5-12=-4/12, 6-11=0/55, 6-10=-1515/0, 7-10=-257/36, 8-10=0/1317, 5-13=-120/472, 4-13=-474/0, 3-13=0/911, 3-14=-2094/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

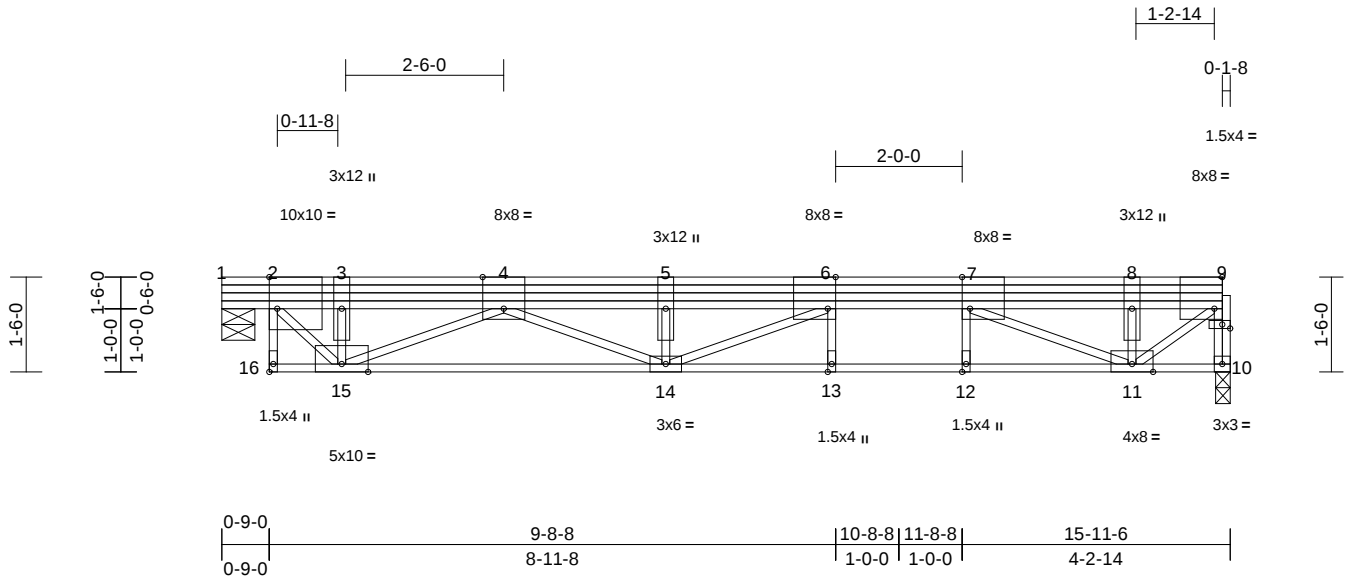
Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F09	Floor	1	1	Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:15:20 Page: 1

ID:yP8sEqyNqgH1vAeVi3R2mszlHUc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGfWwCDoi7J4z3C?f

08/24/2023



Scale = 1:36.4

Plate Offsets (X, Y): [2:0-1-8,Edge], [4:0-4-0,Edge], [6:0-1-8,Edge], [7:0-1-8,Edge], [9:0-1-8,Edge], [9:0-1-8,0-0-12], [16:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.11	13-14	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.18	13-14	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 147 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS (size)

(size) 1=0-6-4, 10=0-2-12
Max Grav 1=992 (LC 1), 10=1002 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-16=-16/0, 9-10=-995/0, 1-2=0/0,
2-3=-1481/0, 3-4=-1481/0, 4-5=-3330/0,
5-6=-3330/0, 6-7=-2735/0, 7-8=-1107/0,
8-9=-1107/0

BOT CHORD 15-16=0/0, 14-15=0/2548, 13-14=0/2735,
12-13=0/2735, 11-12=0/2730, 10-11=0/0

WEBS 6-13=-6/13, 7-12=0/59, 6-14=0/782,
5-14=-588/0, 4-14=0/863, 4-15=-1176/0,
3-15=-1069/0, 2-15=0/2198, 7-11=-1793/0,
8-11=-239/72, 9-11=0/1441

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

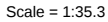


Plate Offsets (X, Y): [2:0-1-8,Edge], [7:0-4-0,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [13:0-1-8,Edge], [13:0-1-8,0-1-0], [20:0-5-12,Edge], [21:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.15	17-18	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.25	18-20	>827	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 159 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS (size)

(size) 1=0-6-4, 14=0-2-12
Max Grav 1=1076 (LC 1), 14=1086 (LC 1)

FORCES

Tension

TOP CHORD 2-21=0/9, 13-14=1079/0, 1-2=0/0,
2-3=-2497/0, 3-7=-2497/0, 7-8=-3965/0,
8-9=-3965/0, 9-10=-3081/0, 10-12=-1202/0,
12-13=-1202/0

BOT CHORD 20-21=0/0, 18-20=0/3298, 17-18=0/3082,
16-17=0/3081, 15-16=0/3076, 14-15=0/0/0

WEBS 9-17=-12/9, 10-16=0/064, 9-18=0/1088,
8-18=-662/0, 7-18=0/735, 7-20=-883/0,
3-20=-800/0, 2-20=0/2782, 10-15=-2070/0,
12-15=-222/107, 13-15=0/1564

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



May 24, 2023



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

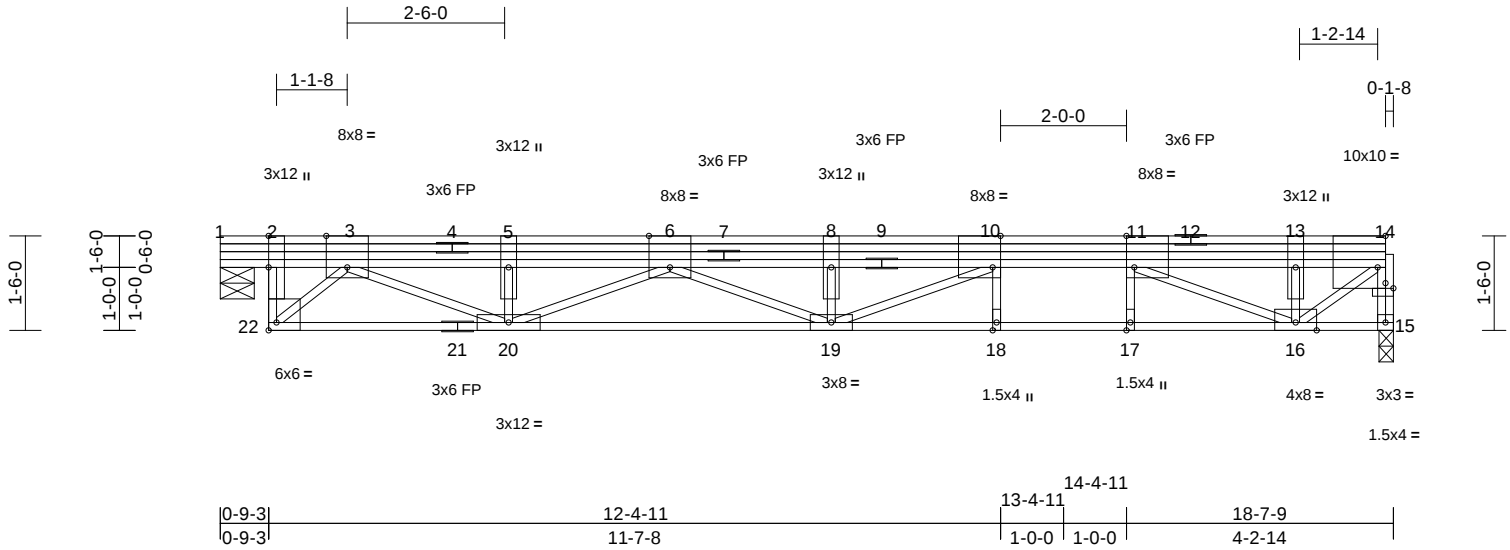
Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F11	Floor	1	1	Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:21 Page: 1

ID:fsoVTtUzTBpoBx?yHJDNY8zIHTw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi734z5C?

08/24/2023



Scale = 1:36.6

Plate Offsets (X, Y): [2:0-6-0,Edge], [3:0-4-0,Edge], [6:0-4-0,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [14:0-1-8,Edge], [14:0-1-8,0-1-0], [22:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.19	18-19	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.31	19-20	>722	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 171 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS (size)

(size) 1=0-6-7, 15=0-2-12
Max Grav 1=1161 (LC 1), 15=1172 (LC 1)

FORCES

Tension

TOP CHORD	2-22=0/1746, 14-15=-1164/0, 1-2=0/0, 2-3=0/0, 3-5=-3388/0, 5-6=-3388/0, 6-8=-4602/0, 8-10=-4602/0, 10-11=-3433/0, 11-13=-1299/0, 13-14=-1299/0
BOT CHORD	20-22=0/1789, 19-20=0/4081, 18-19=0/3434, 17-18=0/3433, 16-17=0/3428, 15-16=0/0
WEBS	10-18=-16/8, 11-17=0/69, 10-19=0/1394, 8-19=-728/0, 6-19=0/575, 6-20=-763/0, 5-20=-368/0, 3-20=0/1768, 3-22=-2487/0, 11-16=-2352/0, 13-16=-205/144, 14-16=0/1690

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION. Do not erect truss backwards.



May 24, 2023



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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F12	Floor	10	1	

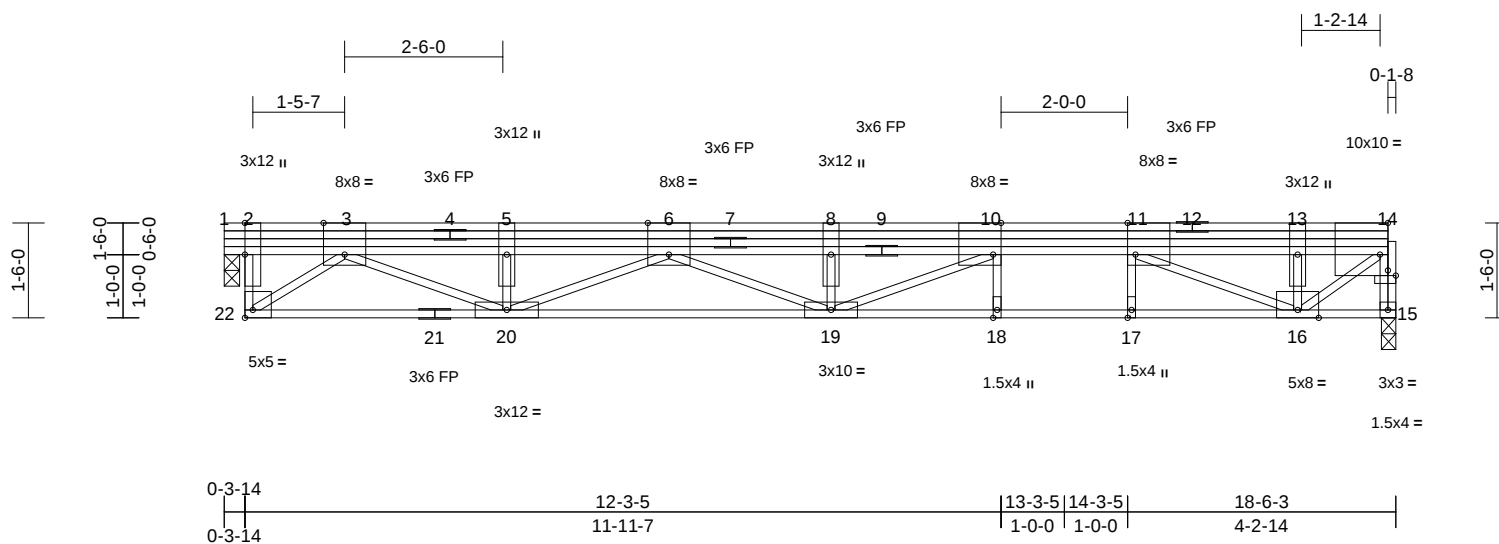
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527949
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:21 Page: 1

ID:ddWwJz3ujIFoulwLOQABVxzIH?U-RFC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDolr3423C7f

08/24/2023



Scale = 1:36.4

Plate Offsets (X, Y): [2:0-6-0,Edge], [3:0-4-0,Edge], [6:0-4-0,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [14:0-1-8,Edge], [14:0-1-8,0-1-0], [22:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.16	18-19	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.26	19-20	>835	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 172 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size) 1=0-2-14, 15=0-2-12
Max Grav 1=1160 (LC 1), 15=1165 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-22=0/1277, 14-15=-1158/0, 1-2=0/0,
2-3=0/0, 3-5=-3297/0, 5-6=-3297/0,
6-8=-4520/0, 8-10=-4520/0, 10-11=-3338/0,
11-13=-1325/0, 13-14=-1325/0

BOT CHORD 20-22=0/1638, 19-20=0/3925, 18-19=0/3338,
17-18=0/3338, 16-17=0/3333, 15-16=0/0

WEBS 10-18=-5/12, 11-17=0/58, 10-19=0/1404,
8-19=-766/0, 6-19=0/655, 6-20=-692/0,
5-20=-420/0, 3-20=0/1834, 3-22=-2064/0,
11-16=-2219/0, 13-16=-240/66,
14-16=0/1723

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15, 1.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



May 24, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

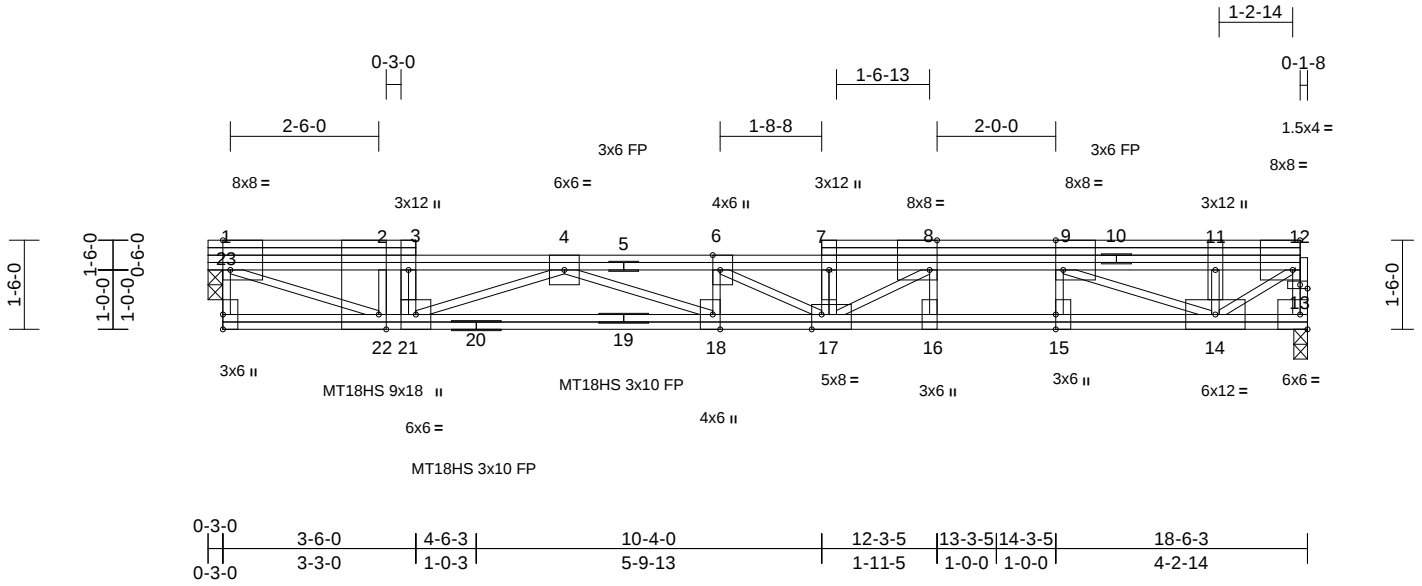
Job	Truss	Truss Type	Qty	Ply		RELEASE FOR CONSTRUCTION
P210577 - Floor	F13	Floor	5	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
						158527950
						LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:55:21 Page: 1

ID:qSyLIsFQ5J2j66F8VxwdL5zIGyf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwCDoi7J42Cw

08/24/2023



Scale = 1:38.8

Plate Offsets (X, Y): [1:0-1-8,Edge], [6:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [12:0-1-8,Edge], [12:0-1-8,0-0-12], [15:0-3-0,Edge], [17:0-2-0,Edge], [18:0-3-0,Edge], [22:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.16	18-21	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.25	18-21	>861	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S								
											Weight: 180 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 1=0-2-14, 13=0-2-12
 Max Grav 1=1145 (LC 1), 13=1145 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-23=-18/0, 12-13=-1135/0, 1-2=-2572/0, 2-3=-2572/0, 3-4=-2536/0, 4-6=-5109/0, 6-7=-4544/0, 7-8=-4496/0, 8-9=-3449/0, 9-11=-1381/0, 11-12=-1381/0
 BOT CHORD 22-23=0/0, 21-22=0/2572, 18-21=0/4421, 17-18=0/5109, 16-17=0/3455, 15-16=0/3449, 14-15=0/3438, 13-14=0/0
 WEBS 3-21=0/433, 7-17=-341/0, 8-16=-105/0, 9-15=0/127, 1-22=0/2799, 2-22=-727/0, 4-21=-2047/0, 4-18=0/778, 6-18=-231/0, 6-17=-687/0, 8-17=0/1342, 9-14=-2253/0, 11-14=-163/28, 12-14=0/1758

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1, 13.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



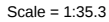
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:22 Page: 1

08/24/2023



Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.17	14-15	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.27	14-15	>730	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 112 lb	FT = 20%F, 11%E

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

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.

Max Grav 11=1045 (LC 1), 18=1045 (LC 1)

TOP CHORD 1-18=-1034/0, 10-11=-1026/0, 1-2=-1798/0,
2-4=-1797/0, 4-5=-3398/0, 5-6=-3398/0,
6-7=-2772/0, 7-9=-999/0, 9-10=-1000/0

WEBS 13-14=0/2772, 12-13=0/2772, 11-12=0/0
6-14=-93/0, 7-13=0/149, 6-15=0/840,
5-15=-545/0, 4-15=0/668, 4-17=-1130/0,
2-17=-328/0, 1-17=0/2008, 7-12=-1983/0,
9-12=-189/191, 10-12=0/1347

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
NATHANIEL
FOX
REGISTERED
PE-2022042259
PROFESSIONAL ENGINEER

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

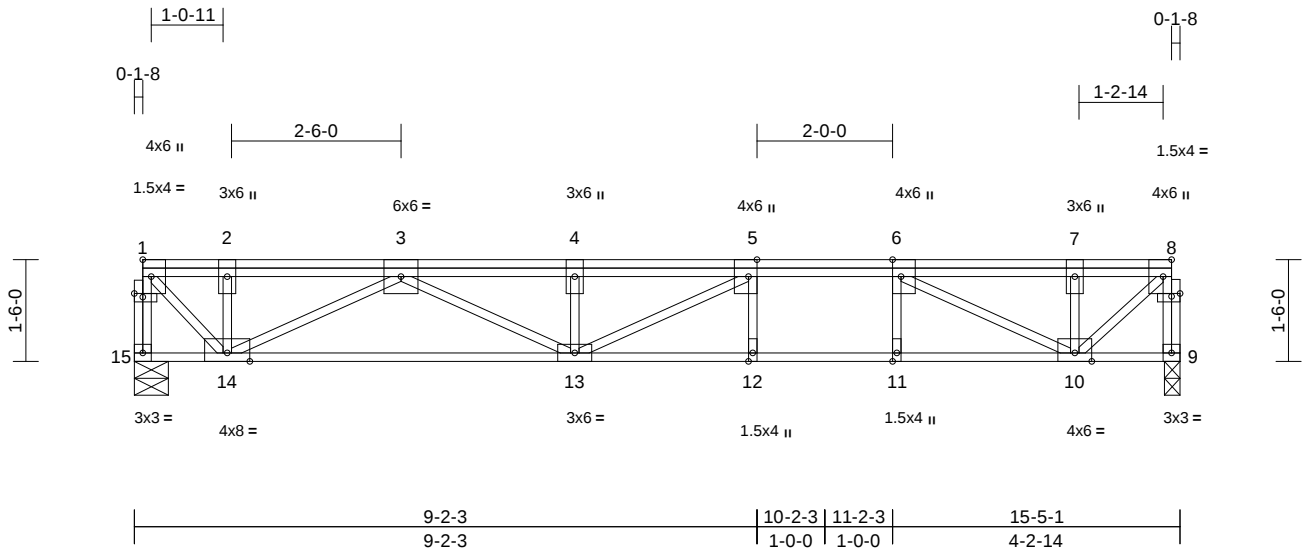
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F17	Floor	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527954
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:55:22 Page: 1
ID:Dj6emNT9zGVAw3RVhKIJe?zIH5P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDof7d43Cf

08/24/2023



Scale = 1:34
Plate Offsets (X, Y): [1:0-1-8,0-0-10], [5:0-3-0,Edge], [6:0-3-0,Edge], [8:0-3-0,Edge], [8:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.13	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.21	12-13	>887	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 104 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 9=0-2-12, 15=0-6-0
Max Grav 9=961 (LC 1), 15=961 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-15=-969/0, 8-9=-945/0, 1-2=-899/0, 2-3=-899/0, 3-4=-2816/0, 4-5=-2816/0, 5-6=-2445/0, 6-7=-925/0, 7-8=-926/0
BOT CHORD 14-15=0/0, 13-14=0/2084, 12-13=0/2445, 11-12=0/2445, 10-11=0/2445, 9-10=0/0
WEBS 5-12=-72/0, 6-11=0/128, 5-13=-100/566, 4-13=-498/0, 3-13=0/822, 3-14=-1332/0, 2-14=-265/0, 1-14=0/1293, 6-10=-1700/0, 7-10=-212/144, 8-10=0/1248

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F18	Floor	1	1	

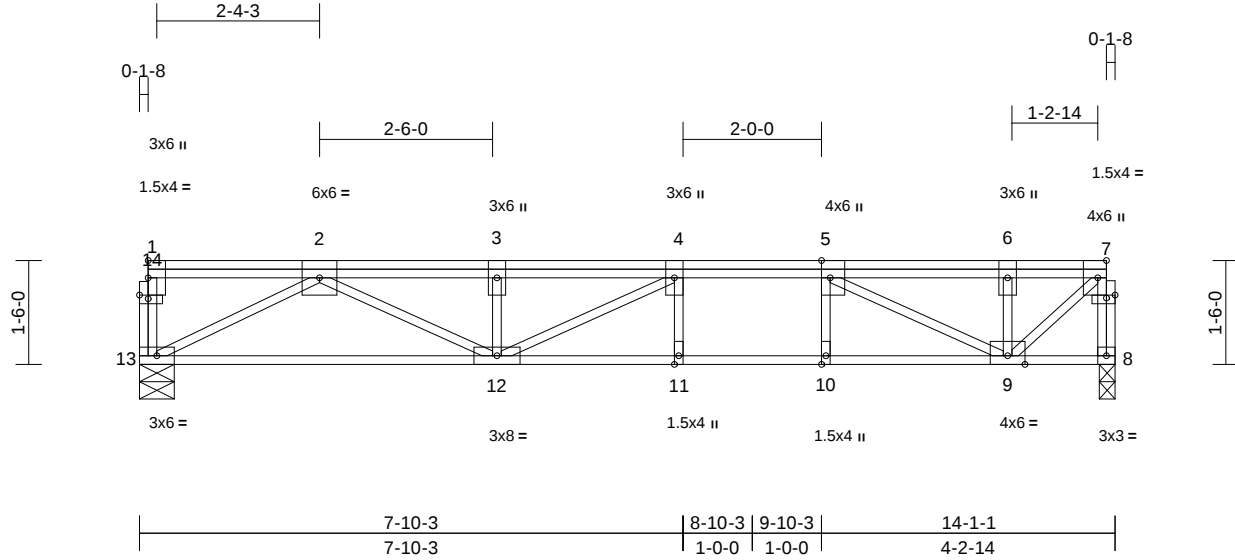
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527955
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:23 Page: 1

ID:t1qAHUcg8y?TMvMpOr577XzIH5D-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDof13423C7f

08/24/2023



Scale = 1:33.3									
Plate Offsets (X, Y): [5:0-3-0,Edge], [7:0-3-0,Edge], [7:0-1-8,0-0-8], [14:0-1-8,0-0-10]									
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.10	11-12	>999
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.15	11-12	>999
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	8	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S					n/a
						PLATES	GRIP		
						MT20	244/190		
						Weight: 94 lb	FT = 20%F, 11%E		

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

REACTIONS (size) 8=0-2-12, 13=0-6-0
Max Grav 8=876 (LC 1), 13=869 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-122/0, 7-8=-863/0, 1-2=-6/0, 2-3=-2239/0, 3-4=-2239/0, 4-5=-2119/0, 5-6=-852/0, 6-7=-853/0
BOT CHORD 12-13=0/1365, 11-12=0/2119, 10-11=0/2119, 9-10=0/2119, 8-9=0/0
WEBS 4-11=-56/5, 5-10=0/109, 4-12=-231/300, 3-12=-446/0, 2-12=0/981, 2-13=-1539/0, 5-9=-1417/0, 6-9=-237/96, 7-9=0/1149

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
 - 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



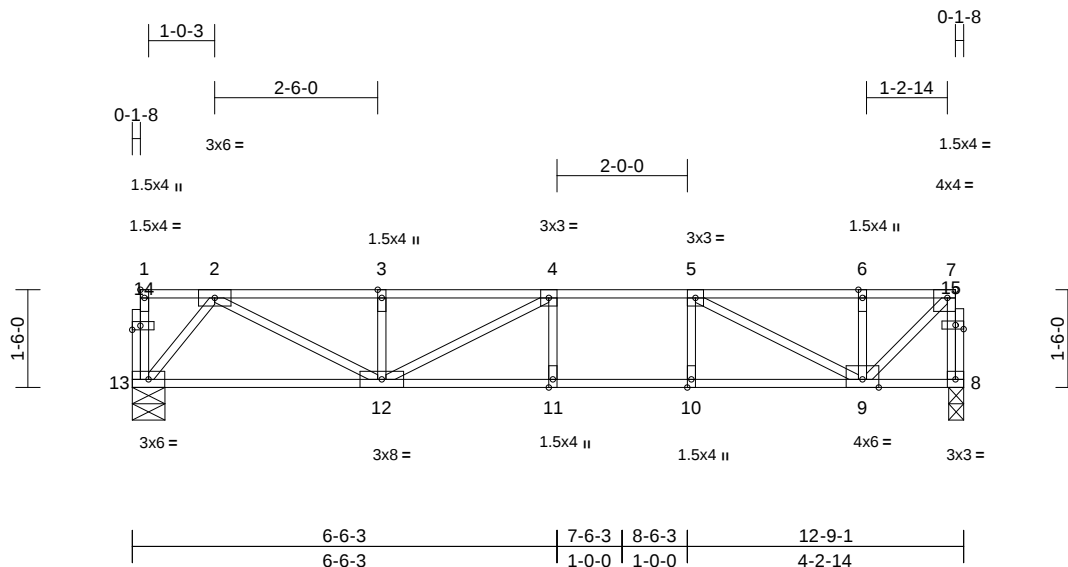
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F19	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:23 Page: 1

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08/24/2023



Scale = 1:35.3

Plate Offsets (X, Y): [1:Edge,0-0-12], [7:0-1-8,Edge], [14:0-1-8,0-0-12], [15:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.14	11-12	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.20	11-12	>769	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 69 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.2(flat)

OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 8=0-2-12, 13=0-6-0

Max Grav 8=785 (LC 1), 13=785 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-13=-27/0, 7-8=-764/0, 1-2=-1/0, 2-3=-1584/0, 3-4=-1584/0, 4-5=-1726/0, 5-6=-737/0, 6-7=-737/0

BOT CHORD 12-13=0/618, 11-12=0/1726, 10-11=0/1726, 9-10=0/1726, 8-9=0/35

WEBS 4-11=-129/26, 5-10=0/191, 4-12=-383/18, 3-12=-374/0, 2-12=0/1096, 2-13=-966/0, 5-9=-1116/0, 6-9=-262/11, 7-9=0/997

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

May 24, 2023

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:23 Page: 1

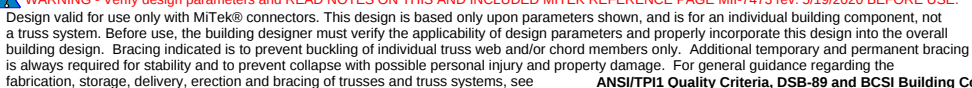
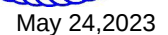
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[illegible]

Plate Offsets (X, Y): [1:Edge,0-1-8], [6:0-1-8,Edge], [13:0-1-8,0-0-12], [14:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.09	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.12	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard



ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



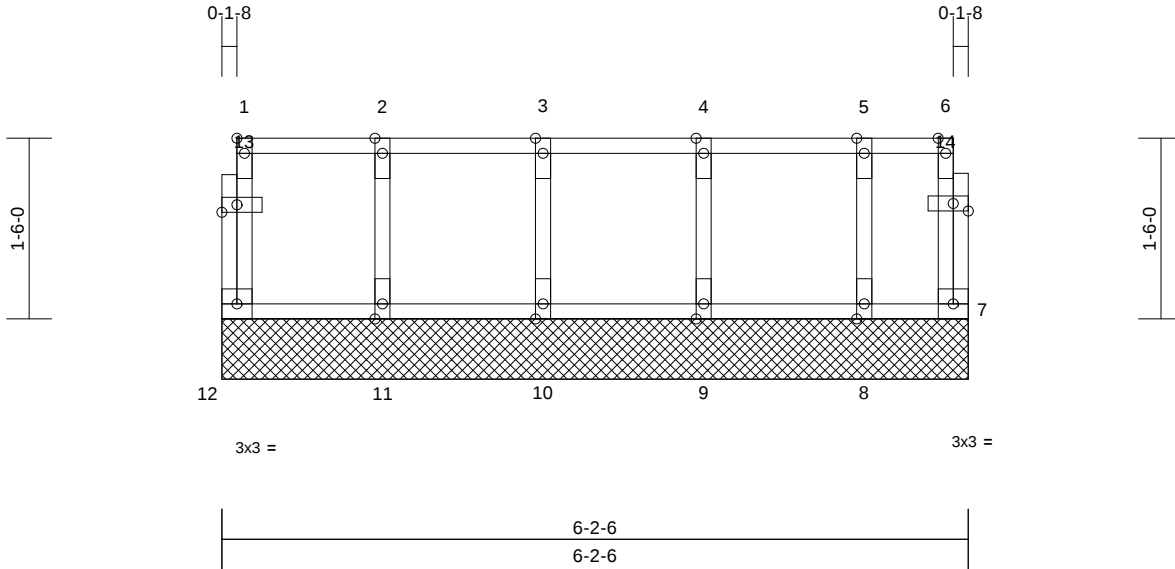
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F21	Floor Supported Gable	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:23 Page: 1

ID:mK7YGT4WBdo4wkG6dqm1gYzIH4d-RfC?PsB70Hq3NSgPqnL8w3uITXlGKWrCDor73423C1

08/24/2023



Scale = 1:19.1

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 32 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 7=6-2-6, 8=6-2-6, 9=6-2-6,
10=6-2-6, 11=6-2-6, 12=6-2-6
Max Grav 7=34 (LC 1), 8=132 (LC 1), 9=176
(LC 1), 10=167 (LC 1), 11=170 (LC
1), 12=61 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-12=-55/0, 6-7=-26/0, 1-2=-6/0, 2-3=-6/0,
3-4=-6/0, 4-5=-6/0, 5-6=-6/0
BOT CHORD 11-12=0/6, 10-11=0/6, 9-10=0/6, 8-9=0/6,
7-8=0/6
WEBS 2-11=-151/0, 3-10=-150/0, 4-9=-157/0,
5-8=-122/0

NOTES

- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely
braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at
10-00-00 oc and fastened to each truss with 3-10d
(0.131" X 3") nails. Strongbacks to be attached to walls
at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F22	Floor	1	1	
					Job Reference (optional)

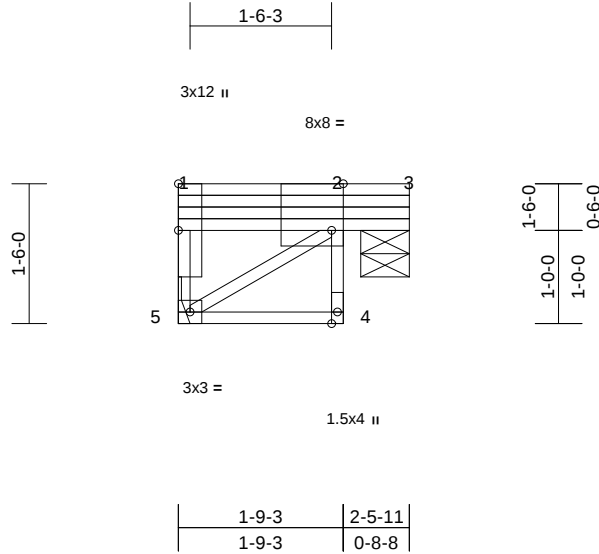
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527959
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:23 Page: 1

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08/24/2023



Scale = 1:24.7

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	0.00	4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	0.00	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or
2-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 3=0-6-4, 5= Mechanical
Max Grav 3=144 (LC 1), 5=151 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-5=-140/0, 2-4=0/11, 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/0
WEBS 2-5=0/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

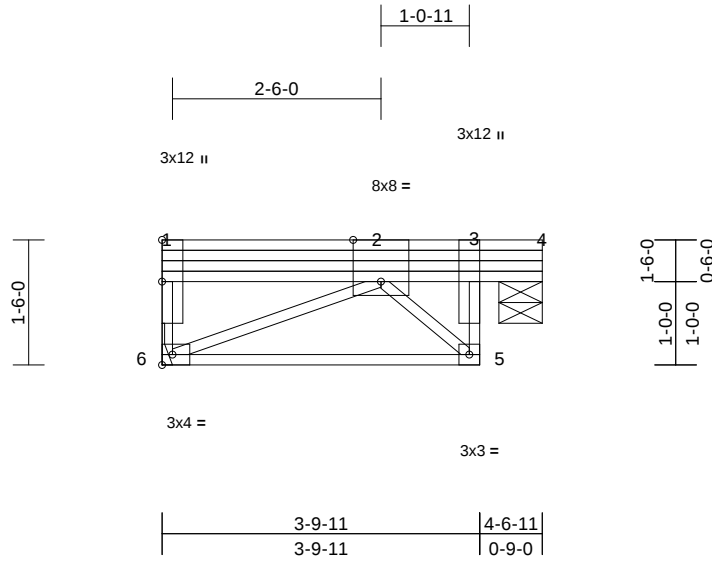
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F23	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:24 Page: 1

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08/24/2023



Scale = 1:27.6

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	0.00	5	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.10	Vert(CT)	-0.03	5-6	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 41 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or
4-6-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 4=0-6-4, 6= Mechanical
Max Grav 4=275 (LC 1), 6=284 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-6=-140/0, 3-5=0/282, 1-2=0/0, 2-3=0/0,
3-4=0/0

BOT CHORD 5-6=0/253

WEBS 2-6=-280/0, 2-5=-361/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F24	Floor	1	1	

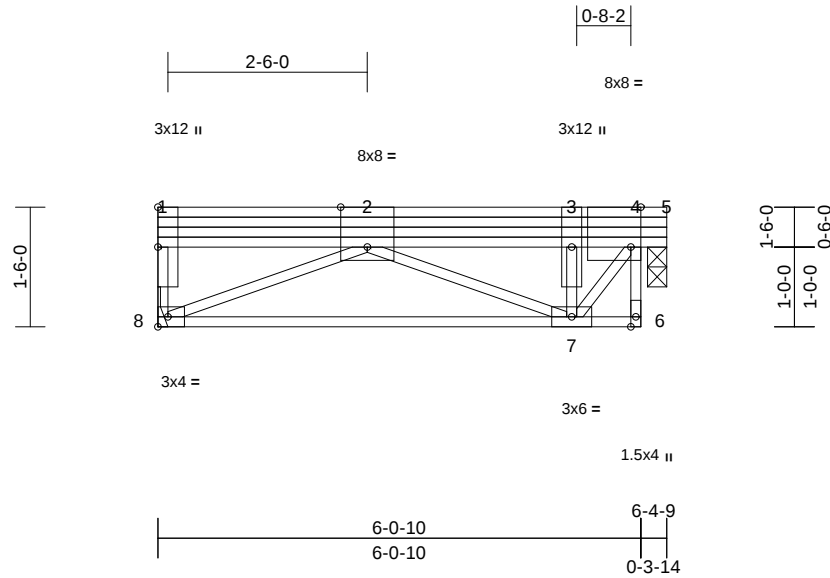
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527961
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:24 Page: 1

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08/24/2023



Scale = 1:28.9

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	0.00	7-8	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.06	7-8	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 60 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 5=0-2-14, 8= Mechanical
Max Grav 5=395 (LC 1), 8=400 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-8=-144/0, 4-6=-38/0, 1-2=0/0, 2-3=-357/0,
3-4=-357/0, 4-5=0/0

BOT CHORD 7-8=0/493, 6-7=0/0

WEBS 2-8=-543/0, 2-7=-150/0, 3-7=-373/0,
4-7=0/636

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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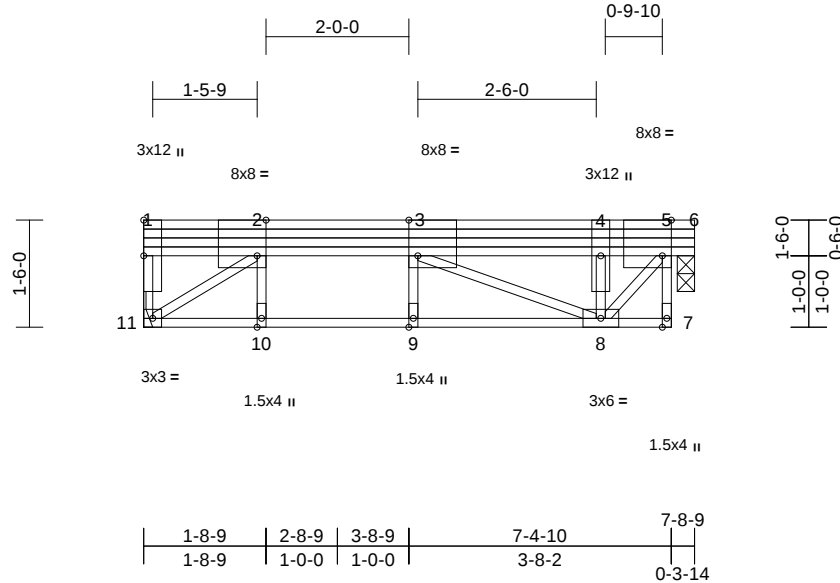
Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F25	Floor	1	1	Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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08/24/2023



Scale = 1:32.3

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	-0.01	8-9	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.02	8-9	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 72 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 6=0-2-14, 11= Mechanical
Max Grav 6=479 (LC 1), 11=484 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-11=-38/92, 5-7=-2/0, 1-2=0/0, 2-3=-645/0,
3-4=-487/0, 4-5=-487/0, 5-6=0/0

BOT CHORD 10-11=0/643, 9-10=0/645, 8-9=0/643,
7-8=0/0

WEBS 2-10=0/38, 3-9=0/28, 2-11=-815/0,
3-8=-214/0, 4-8=-517/0, 5-8=0/793

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



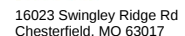
May 24, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F27	Floor	1	1	Job Reference (optional)

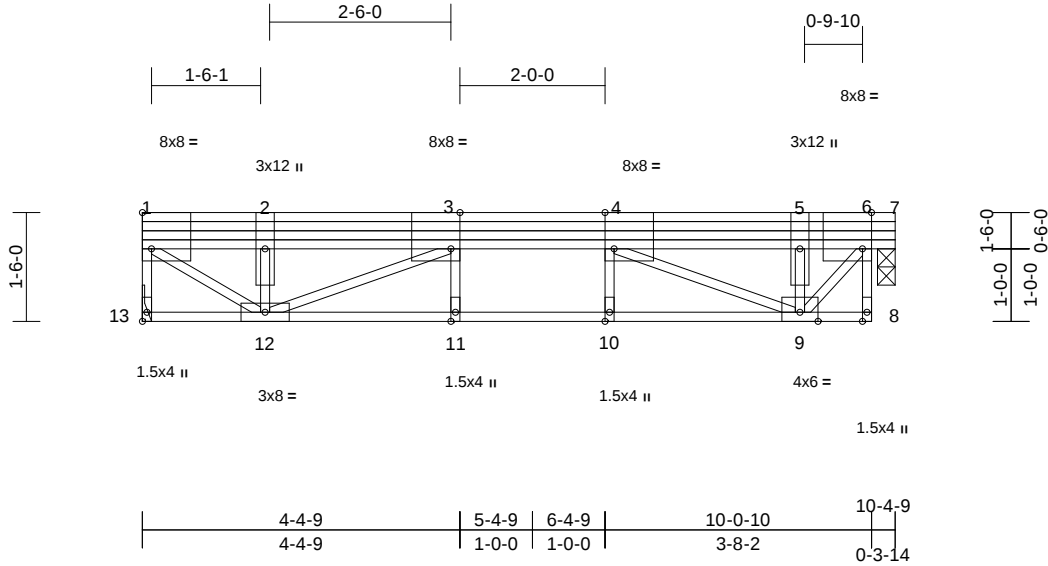
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:24 Page: 1

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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527964
LEE'S SUMMIT, MISSOURI

08/24/2023



Scale = 1:31.8

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.02	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.04	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 7=0-2-14, 13= Mechanical
Max Grav 7=648 (LC 1), 13=653 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-13=-646/0, 6-8=-1/0, 1-2=-789/0,
2-3=-789/0, 3-4=-1303/0, 4-5=-665/0,
5-6=-665/0, 6-7=0/0
BOT CHORD 12-13=0/0, 11-12=0/1300, 10-11=0/1303,
9-10=0/1300, 8-9=0/0
WEBS 3-11=0/34, 4-10=0/36, 3-12=-588/0,
2-12=-329/0, 1-12=0/976, 4-9=-702/0,
5-9=-524/0, 6-9=0/1082

NOTES

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

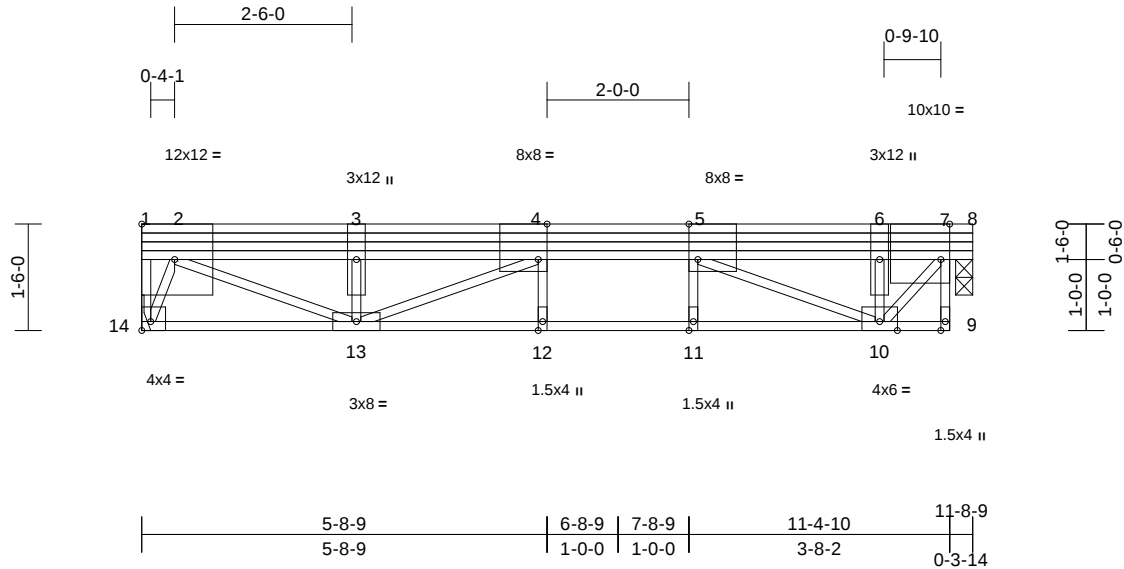
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F28	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:25 Page: 1

ID:rDNngvcNJfZ?uihCwal13rzIHMO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKvtrCDoi7J42dC4

08/24/2023



Scale = 1:32.5

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	-0.04	12	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.06	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 109 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 8=0-2-14, 14= Mechanical
 Max Grav 8=733 (LC 1), 14=738 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 1-14=0/106, 7-9=-1/0, 1-2=0/0, 2-3=-1381/0,
 3-4=-1381/0, 4-5=-1644/0, 5-6=-751/0,
 6-7=-751/0, 7-8=0/0

BOT CHORD 13-14=0/321, 12-13=0/1642, 11-12=0/1644,
 10-11=0/1641, 9-10=0/0

WEBS 4-12=0/28, 5-11=0/42, 4-13=-436/0,
 3-13=-362/0, 2-13=0/1173, 2-14=-888/0,
 5-10=-982/0, 6-10=-521/0, 7-10=0/1223

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

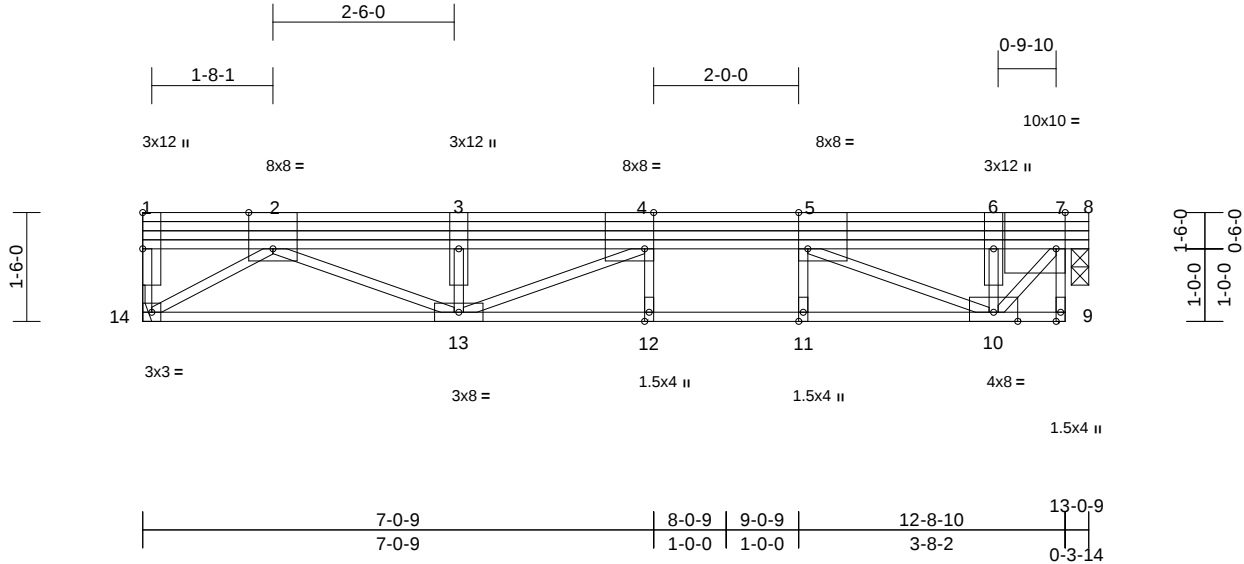
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F29	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:25 Page: 1

ID:1b4NYTxxjF51F?qbZSobBlzIHLa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKw/rCDoi7J4zJCp

08/24/2023



Scale = 1:31.8

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.06	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	-0.09	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 121 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 8=0-2-14, 14= Mechanical
 Max Grav 8=817 (LC 1), 14=822 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-104/0, 7-9=0/1, 1-2=0/0, 2-3=-2012/0, 3-4=-2012/0, 4-5=-1982/0, 5-6=-839/0, 6-7=-839/0, 7-8=0/0

BOT CHORD 13-14=0/1030, 12-13=0/1981, 11-12=0/1982, 10-11=0/1978, 9-10=0/0

WEBS 4-12=0/18, 5-11=0/49, 4-13=-263/188, 3-13=-433/0, 2-13=0/1084, 2-14=-1243/0, 5-10=-1259/0, 6-10=-520/0, 7-10=0/1365

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

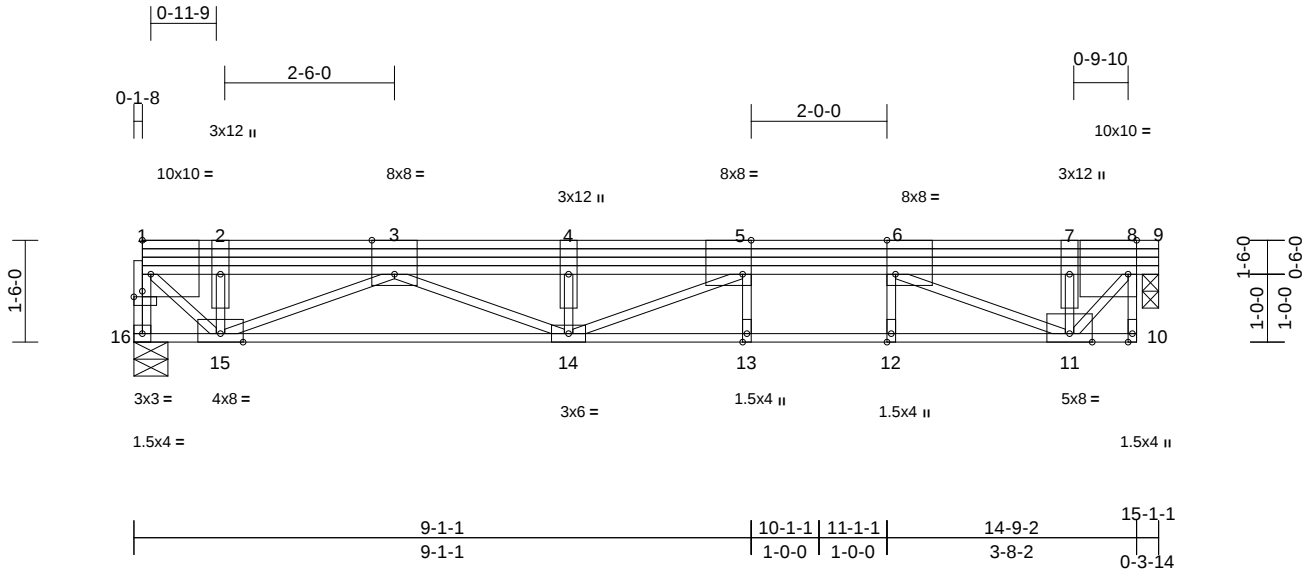
Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F30	Floor	1	1	Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:25 Page: 1

ID:Kx?00t1K3P_1b4sTQQEzDzILt-RfC?PsB70Hq3NSgPqnL8w3uITXbGWrCDoi13420C7A

08/24/2023



Scale = 1:33.9

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.09	13-14	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	-0.14	13-14	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 141 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 9=0-2-14, 16=0-6-0
Max Grav 9=943 (LC 1), 16=948 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-961/0, 8-10=0/3, 1-2=-942/0, 2-3=-942/0, 3-4=-2943/0, 4-5=-2943/0, 5-6=-2485/0, 6-7=-968/0, 7-8=-968/0, 8-9=0/0
BOT CHORD 15-16=0/0, 14-15=0/2096, 13-14=0/2485, 12-13=0/2485, 11-12=0/2481, 10-11=0/0
WEBS 5-13=-3/14, 6-12=0/57, 5-14=-31/637, 4-14=-556/0, 3-14=0/933, 3-15=-1272/0, 2-15=-375/0, 1-15=0/1354, 6-11=-1671/0, 7-11=-517/0, 8-11=0/1576

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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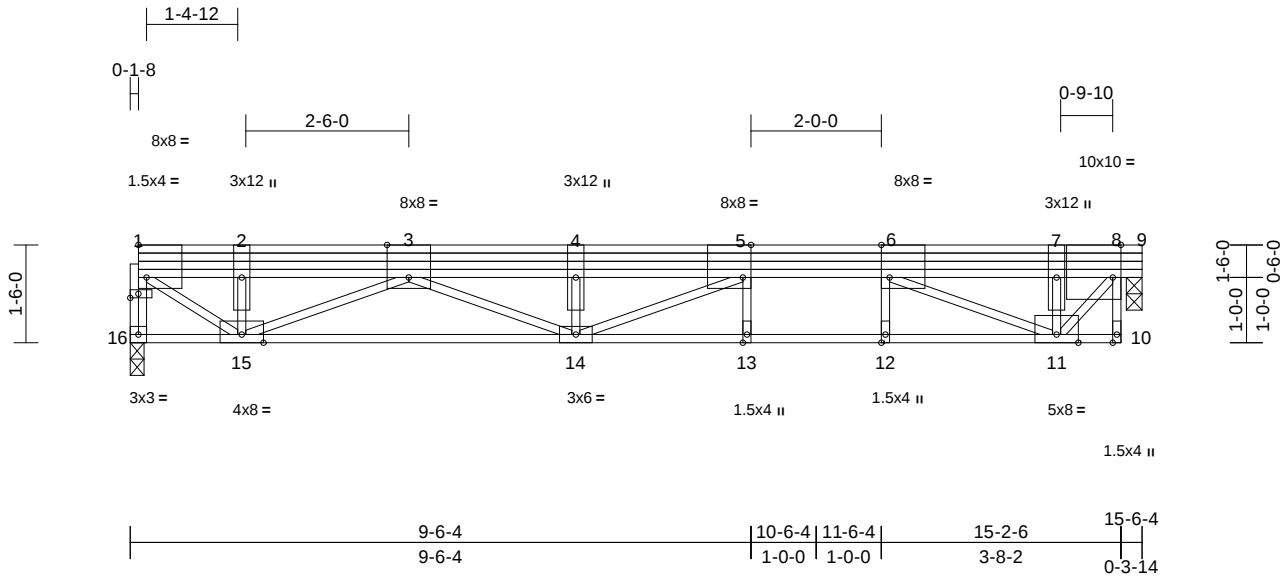
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F31	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:25 Page: 1
ID:LVzs4_w6bRbVGaiXvyJz31zIHPU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi734zjC%

08/24/2023



Scale = 1:35.3

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.10	13-14	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.16	13-14	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 145 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 9=0-2-14, 16=0-2-8
Max Grav 9=970 (LC 1), 16=975 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-978/0, 8-10=0/3, 1-2=-1238/0, 2-3=-1238/0, 3-4=-3147/0, 4-5=-3147/0, 5-6=-2596/0, 6-7=-996/0, 7-8=-996/0, 8-9=0/0
BOT CHORD 15-16=0/0, 14-15=0/2345, 13-14=0/2596, 12-13=0/2596, 11-12=0/2592, 10-11=0/0
WEBS 5-13=-5/13, 6-12=0/59, 5-14=0/735, 4-14=-577/0, 3-14=0/884, 3-15=-1219/0, 2-15=-356/0, 1-15=0/1547, 6-11=-1762/0, 7-11=-517/0, 8-11=0/1622

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16, 9.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

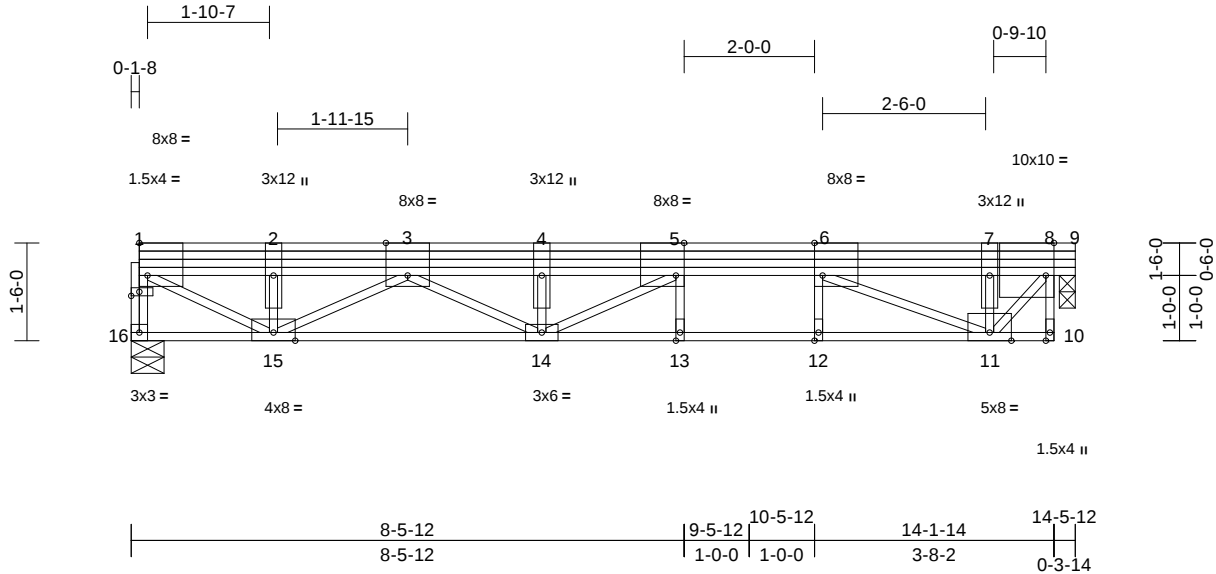
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F32	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:55:26 Page: 1

ID: LmUHeo7nagk5oBWP17yFcziHPD-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWwCD0nJ423C?P

08/24/2023



Scale = 1:35.3

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.08	13-14	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	-0.12	13-14	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 136 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 9=0-2-14, 16=0-6-0
Max Grav 9=904 (LC 1), 16=909 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-901/0, 8-10=0/2, 1-2=-1345/0, 2-3=-1345/0, 3-4=-2703/0, 4-5=-2703/0, 5-6=-2318/0, 6-7=-931/0, 7-8=-931/0, 8-9=0/0
BOT CHORD 15-16=0/0, 14-15=0/2127, 13-14=0/2318, 12-13=0/2318, 11-12=0/2314, 10-11=0/0
WEBS 5-13=-4/13, 6-12=0/54, 5-14=-36/572, 4-14=-520/0, 3-14=0/664, 3-15=-903/0, 2-15=-278/0, 1-15=0/1553, 6-11=-1528/0, 7-11=-522/0, 8-11=0/1515

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

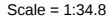
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017



Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.06	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	-0.09	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 122 lb	FT = 20%F, 11%E

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

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.

Max Grav 8=820 (LC 1), 14=825 (LC 1)

TOP CHORD 1-14=-108/0, 7-9=0/2, 1-2=0/0, 2-3=-2031/0,
3-4=-2031/0, 4-5=-1992/0, 5-6=-841/0,
6-7=-841/0, 7-8=0/0

WEBS 4-12=0/18, 5-11=0/50, 4-13=-258/198,
3-13=-437/0, 2-13=0/1084, 2-14=-1258/0,
5-10=-1267/0, 6-10=-520/0, 7-10=0/1369

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

STATE OF MISSOURI
NATHANIEL
FOX
MEMBER
PE-2022042259
PROFESSIONAL ENGINEER

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

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

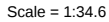
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Chesterfield, MO 63017



Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.02	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.04	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%F, 11%E

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

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.

Max Grav 7=651 (LC 1), 13=656 (LC 1)

TOP CHORD 1-13=-648/0, 6-8=-1/0, 1-2=-806/0,
2-3=-806/0, 3-4=-1313/0, 4-5=-667/0,
5-6=-667/0, 6-7=0/0

WEBS 3-11=0/34, 4-10=0/36, 3-12=-584/0,
2-12=-330/0, 1-12=0/990, 4-9=-710/0,
5-9=-524/0, 6-9=0/1086

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION. Do not erect truss backwards.

STATE OF MISSOURI
NATHANIEL
FOX
MEMBER
PE-2022042259
PROFESSIONAL ENGINEER

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

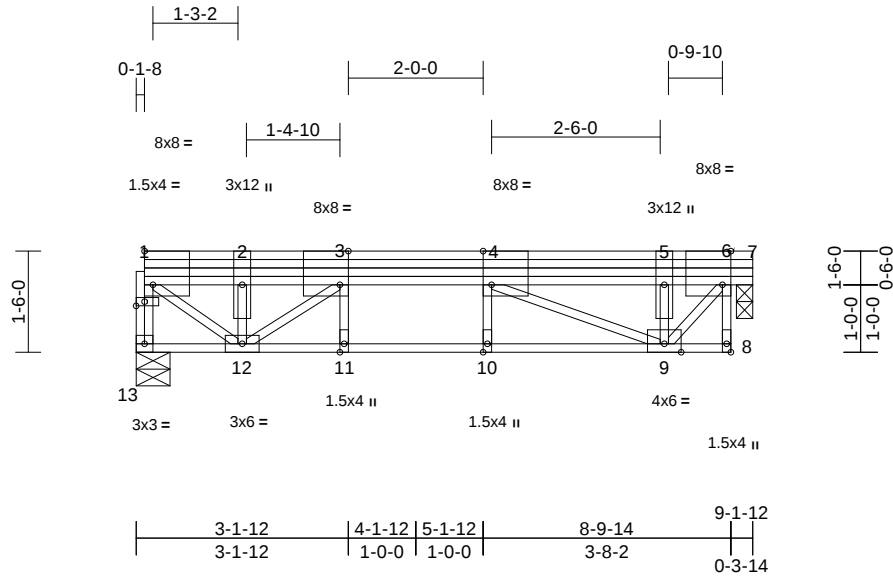
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F36	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:27 Page: 1

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08/24/2023



Scale = 1:34.2

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	-0.02	10	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.02	9-10	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 87 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 7=0-2-14, 13=0-6-0
 Max Grav 7=566 (LC 1), 13=571 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 1-13=-562/0, 6-8=-1/0, 1-2=-564/0,
 2-3=-564/0, 3-4=-987/0, 4-5=-578/0,
 5-6=-578/0, 6-7=0/0

BOT CHORD 12-13=0/0, 11-12=0/985, 10-11=0/987,
 9-10=0/985, 8-9=0/0

WEBS 3-11=0/31, 4-10=0/33, 3-12=-560/0,
 2-12=-157/42, 1-12=0/729, 4-9=-453/0,
 5-9=-519/0, 6-9=0/941

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

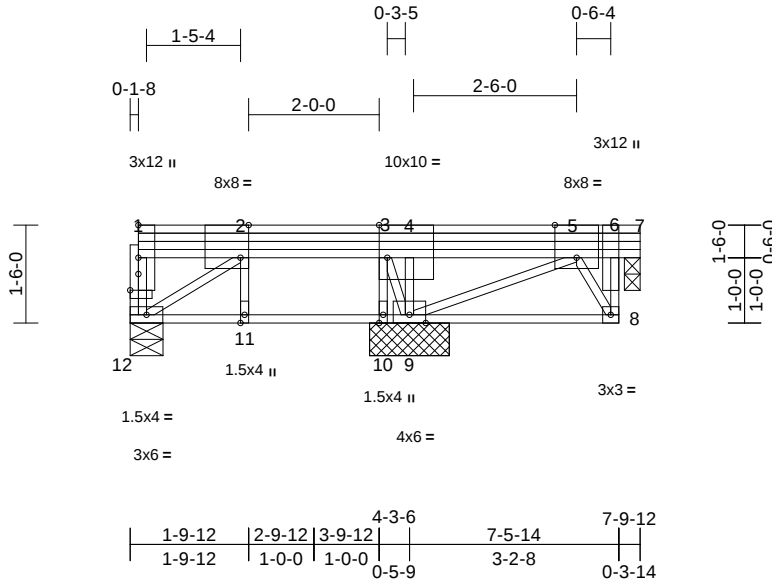
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F37	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:27 Page: 1

ID:hjNBm0iStc15Jh8hIBRNf1zIHkb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKw/rCDoi7J4zJCA

08/24/2023



Scale = 1:35.3

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	0.00	11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.05	Vert(CT)	-0.01	8-9	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 74 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 7=0-2-14, 9=1-2-11, 10=1-2-11,
12=0-6-0
Max Grav 7=217 (LC 5), 9=397 (LC 12),
10=123 (LC 3), 12=265 (LC 3)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-12=-128/0, 6-8=0/228, 1-2=0/0, 2-3=-171/0,
3-4=-108/0, 4-5=-108/0, 5-6=0/0, 6-7=0/0
BOT CHORD 11-12=0/170, 10-11=0/171, 9-10=0/174,
8-9=0/114
WEBS 2-11=0/27, 3-10=-121/0, 4-9=-192/27,
2-12=-213/0, 3-9=-225/0, 5-9=-103/69,
5-8=-240/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

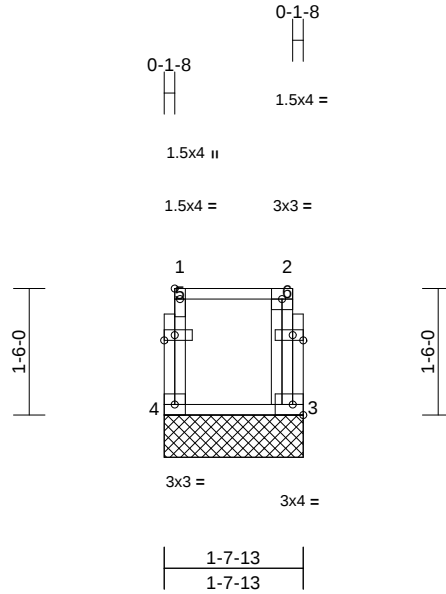
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F38	Floor Supported Gable	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:27 Page: 1

ID:VtkS13nDTS0E1cbr5SYnUizIHKV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCD0i754z3G4f

08/24/2023



Scale = 1:27.3

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 13 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or
1-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 3=1-7-13, 4=1-7-13
Max Grav 3=85 (LC 1), 4=78 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-4=-68/0, 2-3=-77/0, 1-2=-13/0
BOT CHORD 3-4=0/13

NOTES

- N/A
- 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 1-4-0 oc.
- This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at
10-00-00 oc and fastened to each truss with 3-10d
(0.131" X 3") nails. Strongbacks to be attached to walls
at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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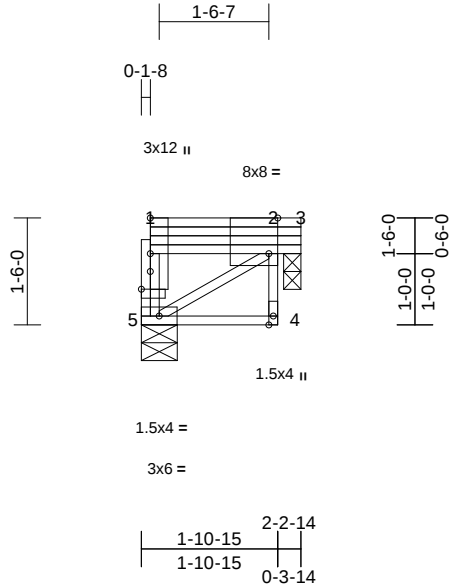
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F39	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:27 Page: 1

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08/24/2023



Scale = 1:32.3

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.01	Vert(LL)	0.00	4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	0.00	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 3=0-2-14, 5=0-6-0
Max Grav 3=129 (LC 1), 5=133 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-122/0, 2-4=0/12, 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/0
WEBS 2-5=0/0

NOTES

- 1) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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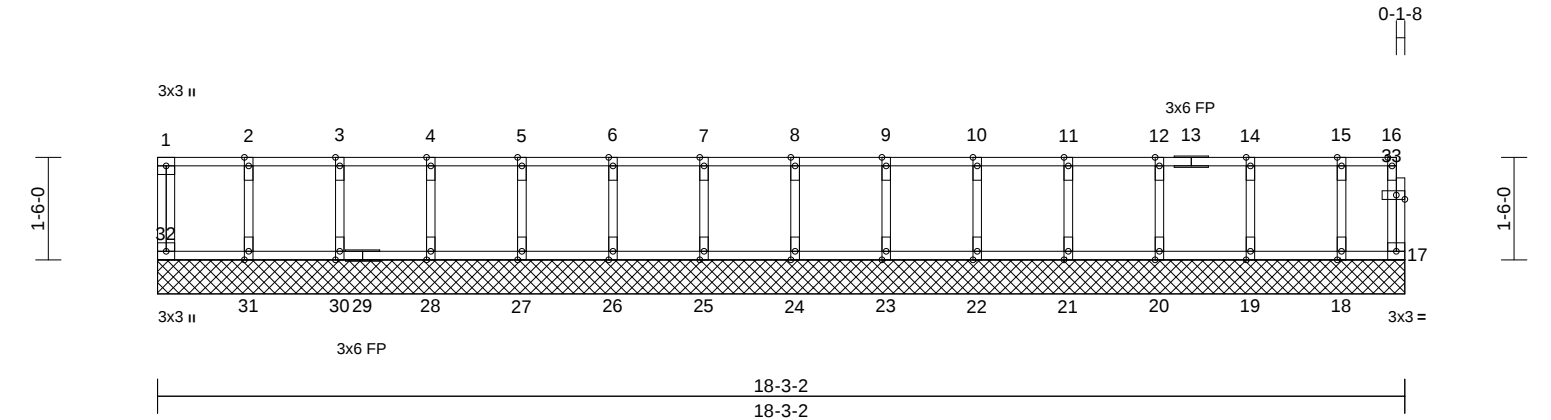
Job	Truss	Truss Type	Qty	Ply		RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158527977 LEE'S SUMMIT, MISSOURI
P210577 - Floor	F40	Floor Supported Gable	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:27 Page: 1

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08/24/2023



Scale = 1:33.7									
Plate Offsets (X, Y): [33:0-1-8,0-0-12]									
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	17	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R					
						PLATES	GRIP		
						MT20	244/190		
						Weight: 85 lb	FT = 20%F, 11%E		

LUMBER	
TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 17=18-3-2, 18=18-3-2, 19=18-3-2, 20=18-3-2, 21=18-3-2, 22=18-3-2, 23=18-3-2, 24=18-3-2, 25=18-3-2, 26=18-3-2, 27=18-3-2, 28=18-3-2, 30=18-3-2, 31=18-3-2, 32=18-3-2
	Max Grav 17=38 (LC 1), 18=136 (LC 1), 19=176 (LC 1), 20=167 (LC 1), 21=169 (LC 1), 22=169 (LC 1), 23=169 (LC 1), 24=169 (LC 1), 25=169 (LC 1), 26=169 (LC 1), 27=169 (LC 1), 28=169 (LC 1), 30=169 (LC 1), 31=169 (LC 1), 32=68 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-32=-61/0, 16-17=-30/0, 1-2=-6/0, 2-3=-6/0, 3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0, 7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-11=-6/0, 11-12=-6/0, 12-14=-6/0, 14-15=-6/0, 15-16=-6/0
BOT CHORD	31-32=0/6, 30-31=0/6, 28-30=0/6, 27-28=0/6, 26-27=0/6, 25-26=0/6, 24-25=0/6, 23-24=0/6, 22-23=0/6, 21-22=0/6, 20-21=0/6, 19-20=0/6, 18-19=0/6, 17-18=0/6
WEBS	2-31=-151/0, 3-30=-152/0, 4-28=-151/0, 5-27=-151/0, 6-26=-151/0, 7-25=-151/0, 8-24=-151/0, 9-23=-151/0, 10-22=-151/0, 11-21=-151/0, 12-20=-150/0, 14-19=-157/0, 15-18=-125/0

- NOTES**
- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard



May 24,2023

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F41	Floor	17	1	

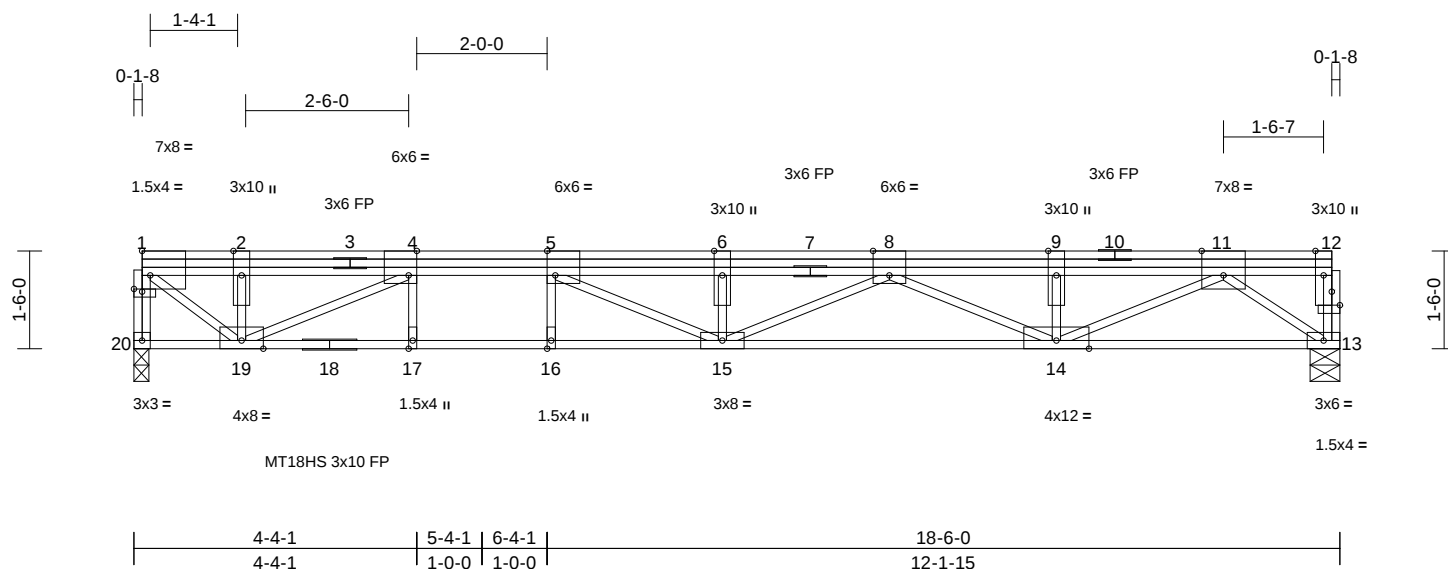
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527978
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:28 Page: 1

ID:rfH2Ww6udEzE4Z6PS6nQT_zlH2?-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDotf3423C4f

08/24/2023



Scale = 1:35.3

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.17	15-16	>999	720	MT20 244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.27	15-16	>824	720	MT18HS 244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06	13	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 148 lb FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.2(flat)

OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 13=0-5-8, 20=0-2-12

Max Grav 13=1156 (LC 1), 20=1156 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-20=-1146/0, 12-13=-86/0, 1-2=-1273/0, 2-4=-1273/0, 4-5=-3320/0, 5-6=-4325/0, 6-8=-4325/0, 8-9=-3040/0, 9-11=-3040/0, 11-12=0/0

BOT CHORD 19-20=0/0, 17-19=0/3320, 16-17=0/3320, 15-16=0/3320, 14-15=0/3813, 13-14=0/1414

WEBS 4-17=0/78, 5-16=-25/7, 4-19=-2267/0, 2-19=-209/173, 1-19=0/1646, 5-15=0/1240, 6-15=-672/0, 8-15=0/569, 8-14=-860/0, 9-14=-355/0, 11-14=0/1813, 11-13=-1760/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

May 24, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F43	Floor	14	1	

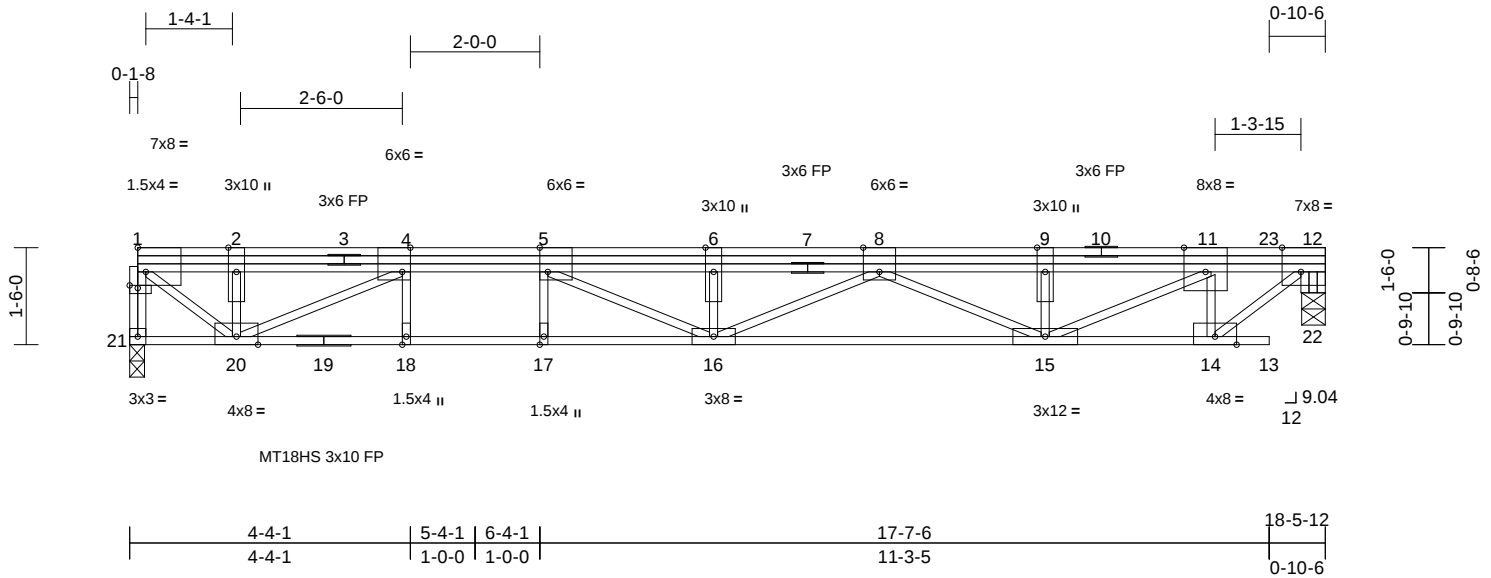
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527980
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:55:28 Page: 1

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08/24/2023



Scale = 1:35.6

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.17	16-17	>999	720	MT20 244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.26	15-16	>832	720	MT18HS 244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	22	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 146 lb FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard**BRACING**

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

REACTIONS (size) 21=0-2-12, 22=0-4-6

Max Grav 21=1150 (LC 1), 22=1142 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-21=-1141/0, 1-2=-1267/0, 2-4=-1267/0, 4-5=-3298/0, 5-6=-4288/0, 6-8=-4288/0, 8-9=-2973/0, 9-11=-2973/0, 11-12=-1339/0, 12-22=-1142/0
BOT CHORD 20-21=0/0, 18-20=0/3298, 17-18=0/3298, 16-17=0/3298, 15-16=0/3763, 14-15=0/1383, 13-14=0/0
WEBS 4-18=0/78, 5-17=-26/5, 4-20=-2249/0, 2-20=-211/169, 1-20=0/1638, 5-16=0/1220, 6-16=-667/0, 8-16=0/584, 8-15=-878/0, 9-15=-353/0, 11-15=0/1777, 11-14=-1037/0, 12-14=0/1709

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 24, 2023

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

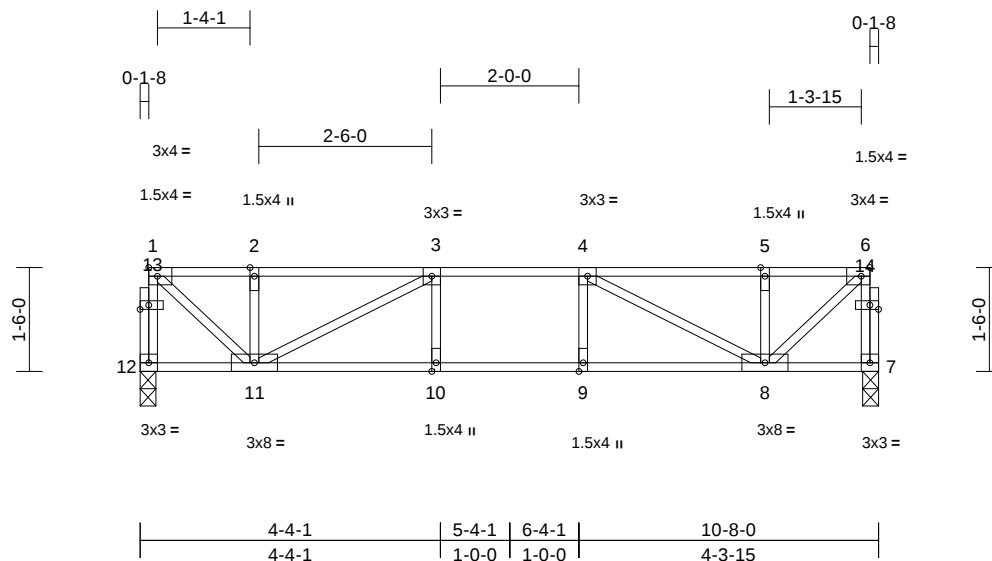
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F43A	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:55:29 Page: 1

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08/24/2023



Scale = 1:33.3

Plate Offsets (X, Y): [6:0-1-8,Edge], [13:0-1-8,0-0-12], [14:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.06	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.07	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.2(flat)

OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=0-2-12, 12=0-2-12

Max Grav 7=653 (LC 1), 12=653 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-12=-647/0, 6-7=-647/0, 1-2=-669/0, 2-3=-669/0, 3-4=-1236/0, 4-5=-665/0, 5-6=-665/0

BOT CHORD 11-12=0/29, 10-11=0/1236, 9-10=0/1236, 8-9=0/1236, 7-8=0/29

WEBS 3-10=-32/93, 4-9=-32/93, 3-11=-662/0, 2-11=-296/0, 1-11=0/877, 4-8=-665/0, 5-8=-296/0, 6-8=0/875

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 7.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

May 24, 2023

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

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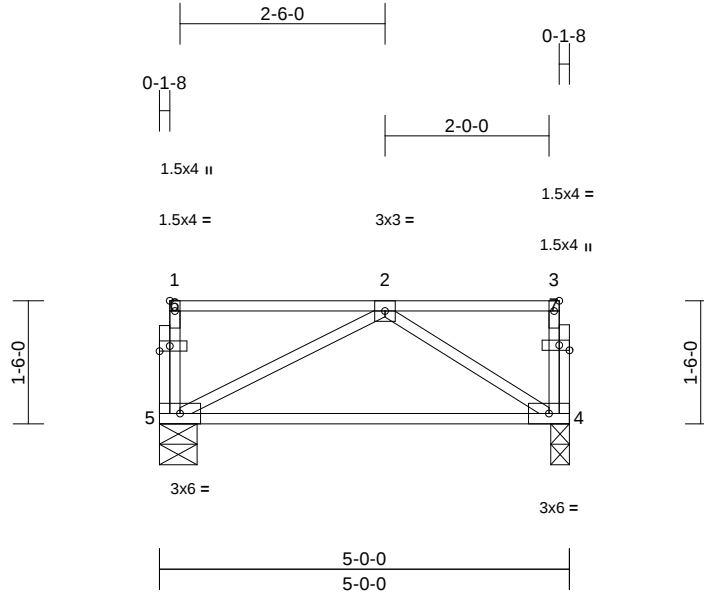
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F44	Floor	4	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:29 Page: 1
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08/24/2023



Scale = 1:28.1

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.08	4-5	>735	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 4=0-2-12, 5=0-5-8
 Max Grav 4=294 (LC 1), 5=294 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 1-5=-116/0, 3-4=-80/0, 1-2=-5/0, 2-3=-4/0
 BOT CHORD 4-5=0/285
 WEBS 2-5=-316/0, 2-4=-335/0

NOTES

- 1) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

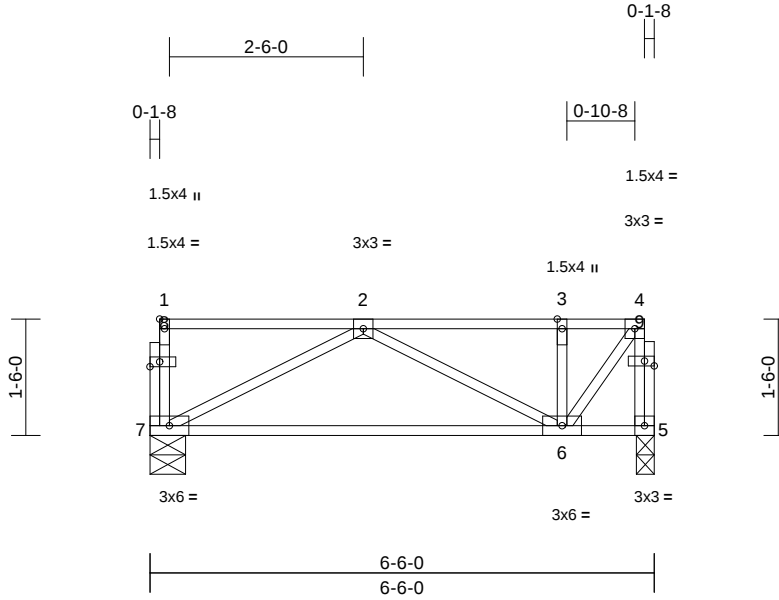
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F45	Floor	5	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527983
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:29 Page: 1
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05/24/2023



Scale = 1:29.7

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	0.00	6-7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.06	6-7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 5=0-2-12, 7=0-5-8
Max Grav 5=389 (LC 1), 7=389 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-7=-114/0, 4-5=-415/0, 1-2=-5/0, 2-3=-308/0,
3-4=-308/0

BOT CHORD 6-7=0/477, 5-6=0/19
WEBS 2-7=-532/0, 2-6=-191/0, 3-6=-226/0,
4-6=0/492

NOTES

- 1) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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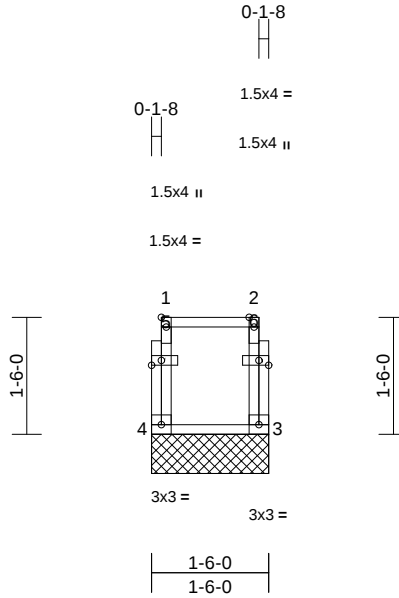
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F46	Floor Supported Gable	2	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:29 Page: 1
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08/24/2023



Scale = 1:29.5

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 11 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 3=1-6-0, 4=1-6-0
Max Grav 3=72 (LC 1), 4=72 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-4=-64/0, 2-3=-64/0, 1-2=-10/0
BOT CHORD 3-4=0/10

NOTES

- 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 1-4-0 oc.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

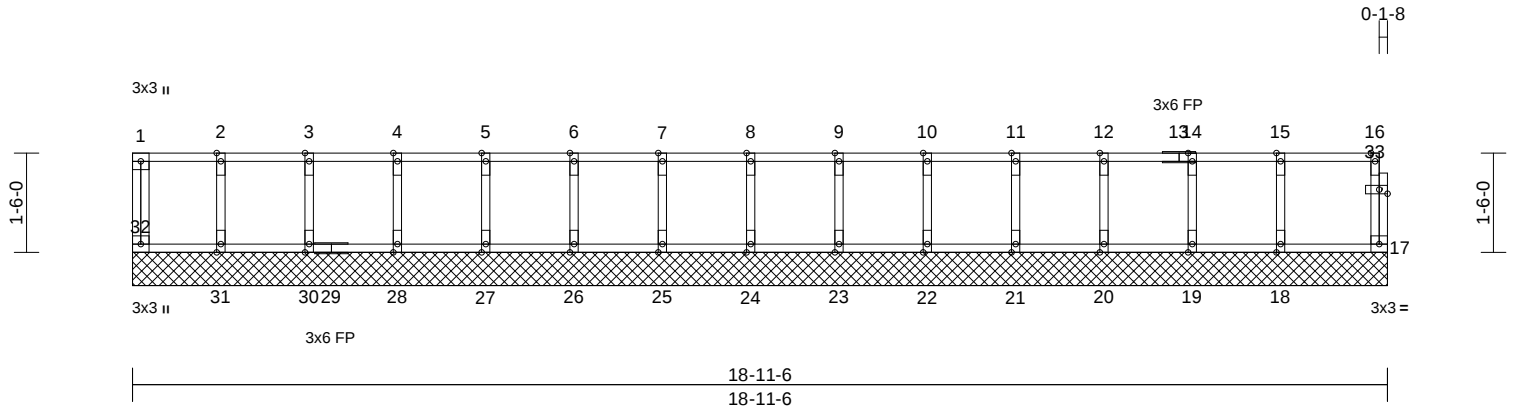
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158527985 LEE'S SUMMIT, MISSOURI
P210577 - Floor	F47	Floor Supported Gable	1	1		

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:29 Page: 1

ID:n1MxwF2?TuunayIW6CvGMizlGjQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwrcDof73423C41

08/24/2023



Scale = 1:34.8

Plate Offsets (X, Y): [33:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	17	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							
										Weight: 87 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

WEBS

2-31=-146/0, 3-30=-153/0, 4-28=-151/0,
5-27=-151/0, 6-26=-151/0, 7-25=-151/0,
8-24=-151/0, 9-23=-151/0, 10-22=-151/0,
11-21=-151/0, 12-20=-152/0, 14-19=-147/0,
15-18=-167/0

BRACING

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

NOTES

- All plates are 1.5x4 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 1-4-0 oc.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S)

Standard

REACTIONS (size)	17=18-11-6, 18=18-11-6, 19=18-11-6, 20=18-11-6, 21=18-11-6, 22=18-11-6, 23=18-11-6, 24=18-11-6, 25=18-11-6, 26=18-11-6, 27=18-11-6, 28=18-11-6, 30=18-11-6, 31=18-11-6, 32=18-11-6
Max Grav	17=83 (LC 1), 18=187 (LC 1), 19=164 (LC 1), 20=170 (LC 1), 21=169 (LC 1), 22=169 (LC 1), 23=169 (LC 1), 24=169 (LC 1), 25=169 (LC 1), 26=169 (LC 1), 27=169 (LC 1), 28=168 (LC 1), 30=171 (LC 1), 31=159 (LC 1), 32=76 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-32=-65/0, 16-17=-74/0, 1-2=-12/0, 2-3=-12/0, 3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-7=-12/0, 7-8=-12/0, 8-9=-12/0, 9-10=-12/0, 10-11=-12/0, 11-12=-12/0, 12-14=-12/0, 14-15=-12/0, 15-16=-12/0
BOT CHORD	31-32=0/12, 30-31=0/12, 28-30=0/12, 27-28=0/12, 26-27=0/12, 25-26=0/12, 24-25=0/12, 23-24=0/12, 22-23=0/12, 21-22=0/12, 20-21=0/12, 19-20=0/12, 18-19=0/12, 17-18=0/12



May 24, 2023

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



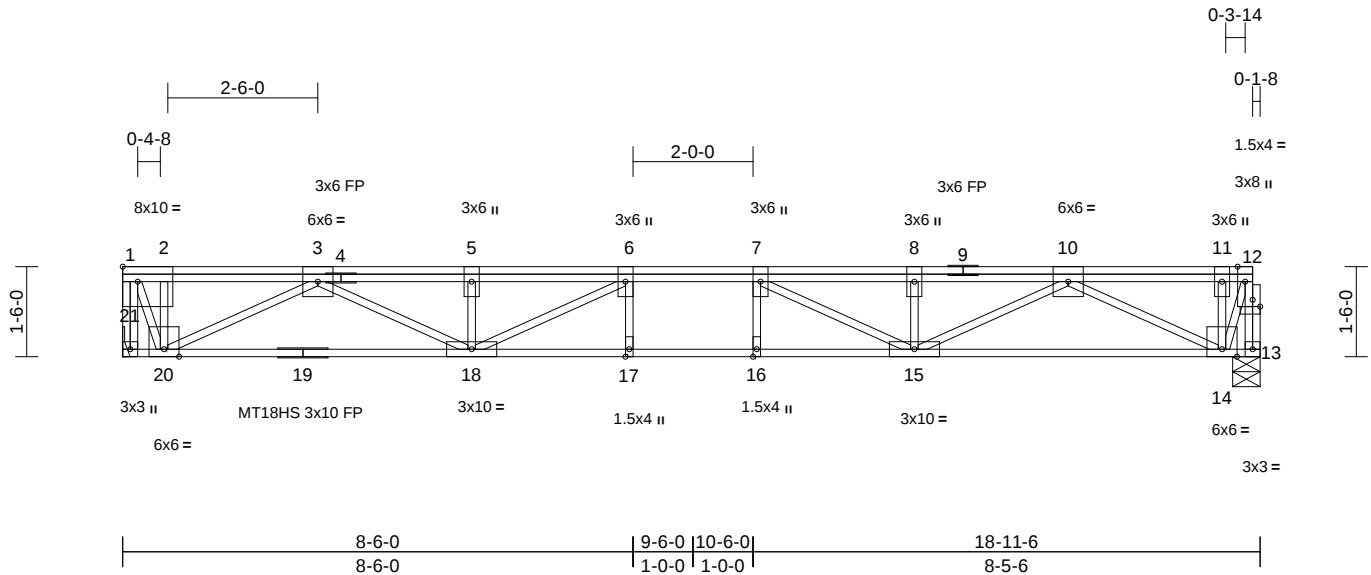
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F48	Floor	14	1	Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:30 Page: 1

ID:c_IUukkl2P4Hwj9TygRe9kzIGiX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWfCDoi7J42jC:f



Scale = 1:38.4

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.16	16-17	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.26	16-17	>867	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS (size)

(size) 13=0-5-8, 21= Mechanical
Max Grav 13=1184 (LC 1), 21=1184 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-21=-1228/0, 12-13=-1234/0, 1-2=-562/0,
2-3=-562/0, 3-5=-3622/0, 5-6=-3622/0,
6-7=-4163/0, 7-8=-3602/0, 8-10=-3602/0,
10-11=-518/0, 11-12=-513/0

BOT CHORD 20-21=0/0, 18-20=0/2351, 17-18=0/4163,
16-17=0/4163, 15-16=0/4163, 14-15=0/2320,
13-14=0/0

WEBS 6-17=-18/62, 7-16=-17/64, 6-18=-903/0,
5-18=-396/0, 3-18=0/1428, 3-20=-2010/0,
2-20=-306/0, 1-20=0/1426, 7-15=-919/0,
8-15=-394/0, 10-15=0/1441, 10-14=-2024/0,
11-14=-291/0, 12-14=0/1405

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" x 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

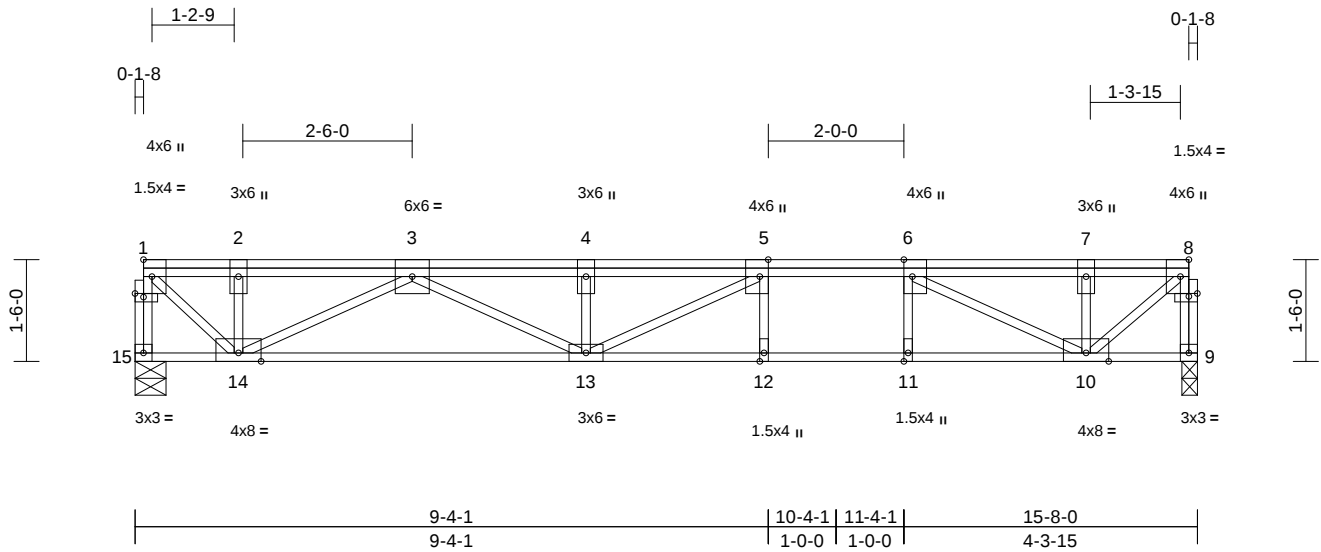
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F49	Floor	21	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527987
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:50
ID:Lb66?4nenXIVblQCzB8Z1BzIGso-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4ZJC4H Page: 1

08/24/2023



Scale = 1:34

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.14	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.21	12-13	>870	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 9=0-2-12, 15=0-5-8

Max Grav 9=976 (LC 1), 15=976 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-15=-981/0, 8-9=-960/0, 1-2=-1009/0, 2-3=-1008/0, 3-4=-2911/0, 4-5=-2911/0, 5-6=-2527/0, 6-7=-995/0, 7-8=-996/0
BOT CHORD 14-15=0/0, 13-14=0/2186, 12-13=0/2527, 11-12=0/2527, 10-11=0/2527, 9-10=0/0
WEBS 5-13=-98/585, 4-13=-501/0, 3-13=0/815, 3-14=-1323/0, 2-14=-268/0, 1-14=0/1369, 6-10=-1712/0, 7-10=-216/141, 8-10=0/1308, 5-12=-74/0, 6-11=0/129

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F50	Floor	11	1	Job Reference (optional)

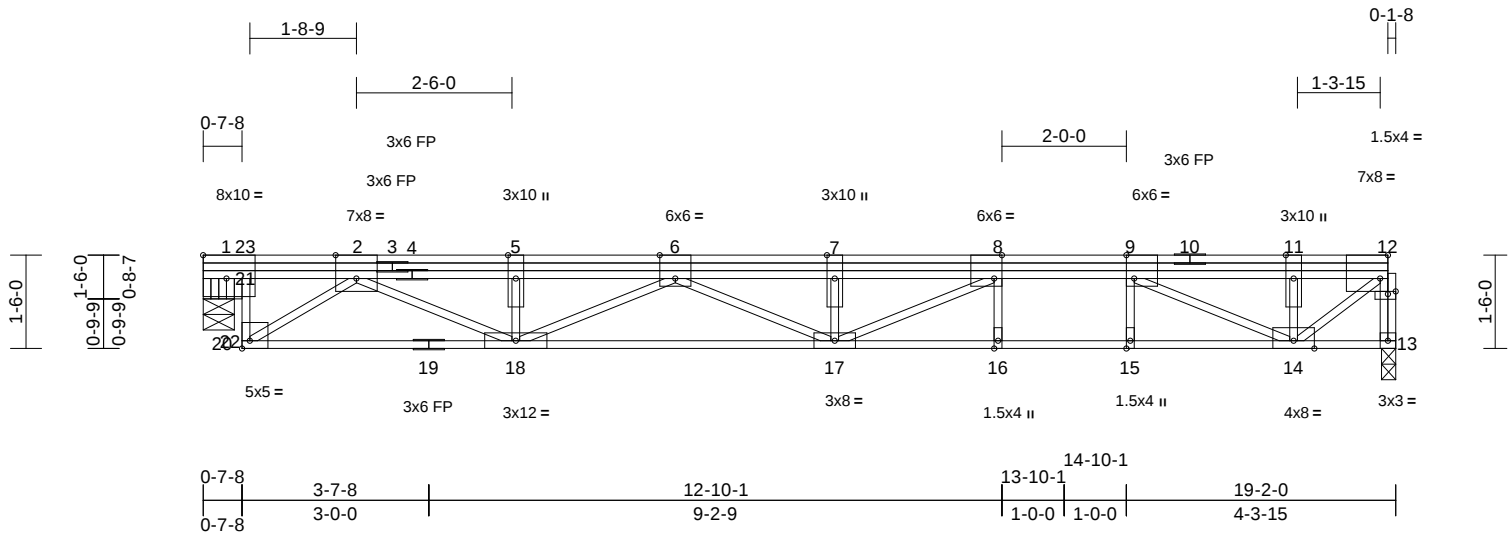
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527988
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:50 Page: 1

ID:dLxckom41WnDcn8pR1SZ6fzIGhC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDof3423C7f

08/24/2023



Scale = 1:37

Plate Offsets (X, Y): [1:Edge,0-4-8], [2:0-4-0,Edge], [6:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [12:0-1-8,Edge], [12:0-1-8,0-0-8], [20:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.18	16-17	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.29	16-17	>782	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 152 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard**BRACING**

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

REACTIONS (size) 13=0-2-12, 22=0-6-0

Max Grav 13=1178 (LC 1), 22=1182 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 20-21=0/1139, 1-21=0/1219, 12-13=-1168/0, 1-2=-95/0, 2-5=-3295/0, 5-6=-3295/0, 6-7=-4486/0, 7-8=-4486/0, 8-9=-3406/0, 9-11=-1289/0, 11-12=-1289/0
BOT CHORD 18-20=0/1700, 17-18=0/4012, 16-17=0/3406, 15-16=0/3406, 14-15=0/3406, 13-14=0/0
WEBS 8-16=-26/6, 9-15=0/80, 8-17=0/1319, 7-17=-688/0, 6-17=0/528, 6-18=-797/0, 5-18=-366/0, 2-18=0/1778, 2-20=-1954/0, 9-14=-2344/0, 11-14=-204/184, 12-14=0/1671, 1-22=-1220/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 24, 2023

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

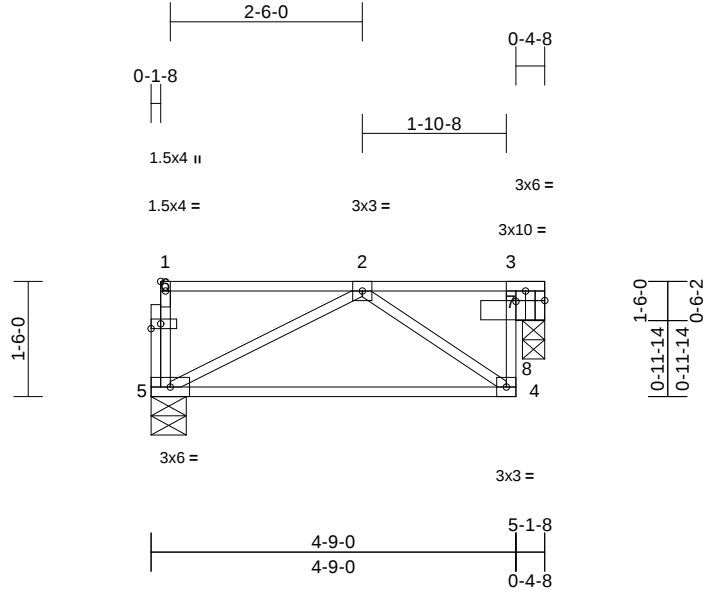
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F51	Floor	9	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:30 Page: 1

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08/24/2023



Scale = 1:30

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	0.00	4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.07	4-5	>846	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5=0-5-8, 8=0-3-8
Max Grav 5=295 (LC 1), 8=276 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-116/0, 4-7=0/207, 3-7=0/207, 1-2=-5/0, 2-3=-38/0

BOT CHORD 4-5=0/288
WEBS 2-5=-319/0, 2-4=-306/0, 3-8=-315/0

NOTES

- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



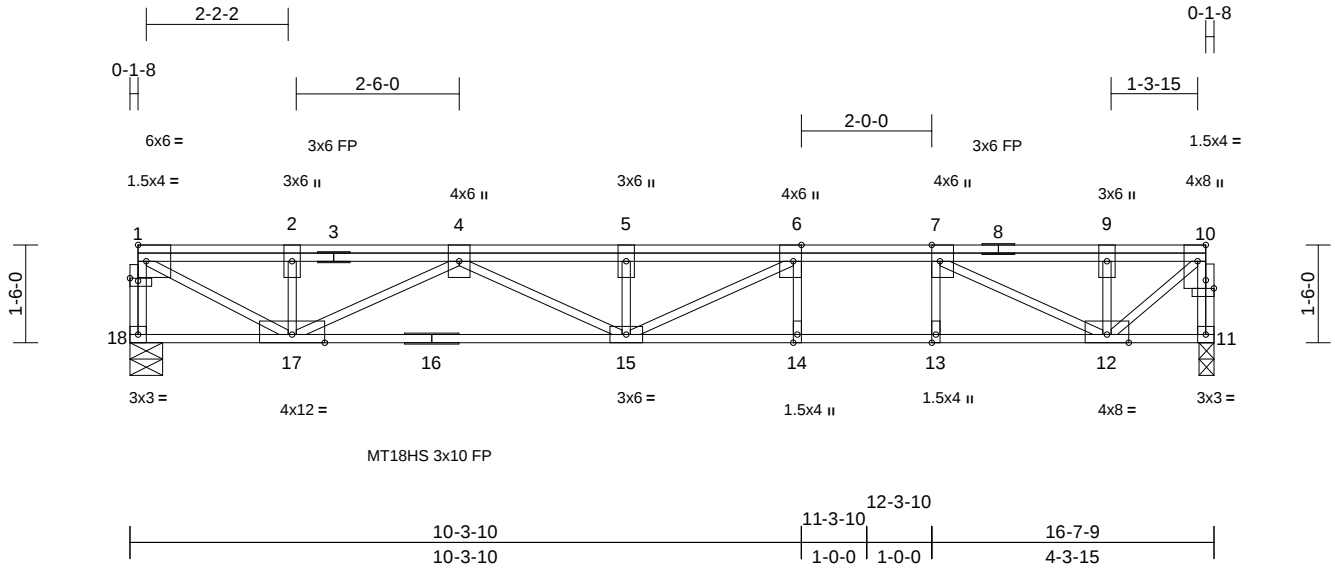
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply		RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158527990 LEE'S SUMMIT, MISSOURI
P210577 - Floor	F52	Floor	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 11:57:55 AM Page: 1
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08/24/2023



Scale = 1:35.3

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.17	14-15	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.26	14-15	>755	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 11=0-2-12, 18=0-6-0
Max Grav 11=1037 (LC 1), 18=1037 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-1028/0, 10-11=-1019/0, 1-2=-1660/0, 2-4=-1659/0, 4-5=-3335/0, 5-6=-3335/0, 6-7=-2766/0, 7-9=-1053/0, 9-10=-1054/0
BOT CHORD 17-18=0/0, 15-17=0/2708, 14-15=0/2766, 13-14=0/2766, 12-13=0/2766, 11-12=0/0
WEBS 6-14=-89/0, 7-13=0/144, 6-15=-2/783, 5-15=-535/0, 4-15=0/704, 4-17=-1179/0, 2-17=-314/0, 1-17=0/1889, 7-12=-1916/0, 9-12=-200/175, 10-12=0/1383

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

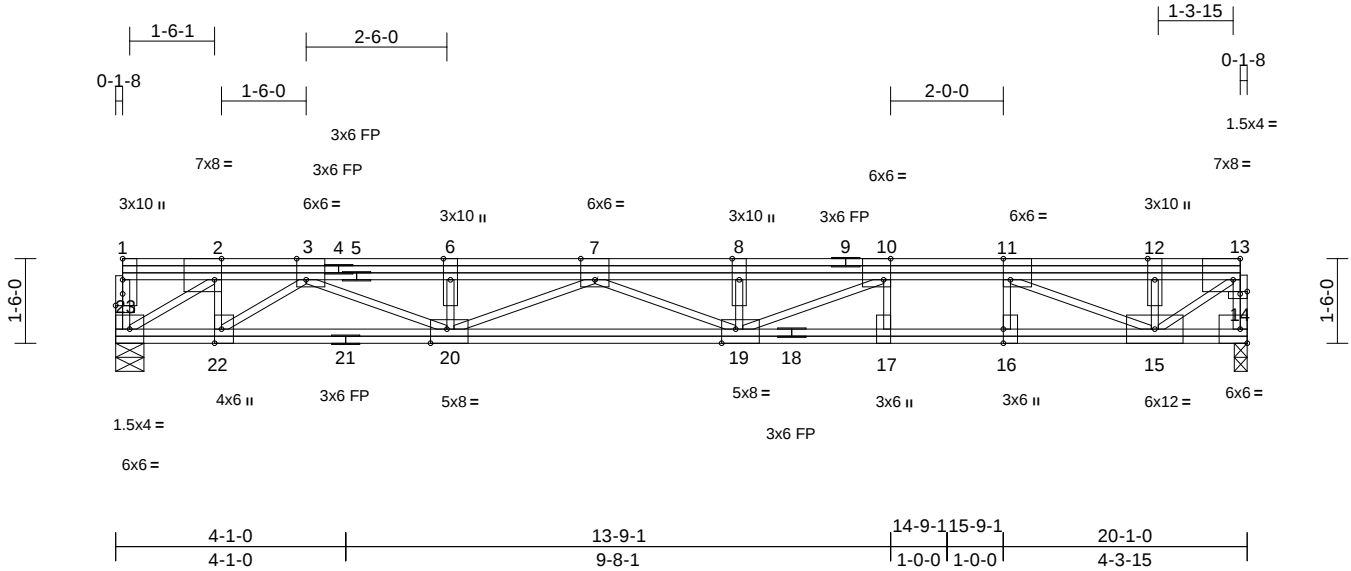
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F53	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:51 Page: 1

ID:JfAPJqDPIWIK9WqZ_01LjzEGAB-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcDoi734zjGZ

08/24/2023



Scale = 1:40.9

[1:0-1-8,0-2-8], [2:0-1-8,Edge], [3:0-2-0,Edge], [7:0-3-0,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [13:0-1-8,Edge], [13:0-1-8,0-0-8], [16:0-3-0,Edge], [19:0-3-0,Edge],

Plate Offsets (X, Y): [20:0-3-8,Edge], [22:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.17	17-19	>999	480	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.27	17-19	>883	480		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 189 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size) 14=0-2-12, 23=0-6-0
Max Grav 14=1252 (LC 1), 23=1259 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-23=-89/0, 13-14=-1231/0, 1-2=0/5, 2-3=-1592/0, 3-6=-4291/0, 6-7=-4291/0, 7-8=-5225/0, 8-10=-5225/0, 10-11=-3928/0, 11-12=-1446/0, 12-13=-1446/0
BOT CHORD 22-23=0/1597, 20-22=0/2830, 19-20=0/4989, 17-19=0/3928, 16-17=0/3928, 15-16=0/3928, 14-15=0/0
WEBS 10-17=-188/0, 11-16=0/237, 10-19=0/1549, 8-19=-588/0, 7-19=0/307, 7-20=-770/0, 6-20=-304/0, 3-20=0/1613, 3-22=-1545/0, 2-22=0/843, 2-23=-1906/0, 11-15=-2724/0, 12-15=-195/165, 13-15=0/1837

NOTES

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F54	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:55:51 Page: 1

ID:10W1XZBevq3ZNC79cjRFR5zEG7e-RfC?PsB70Hq3NSgPqnL8w3uITXb6KWrcD0rJ422C7?

RELEASE FOR CONSTRUCTION

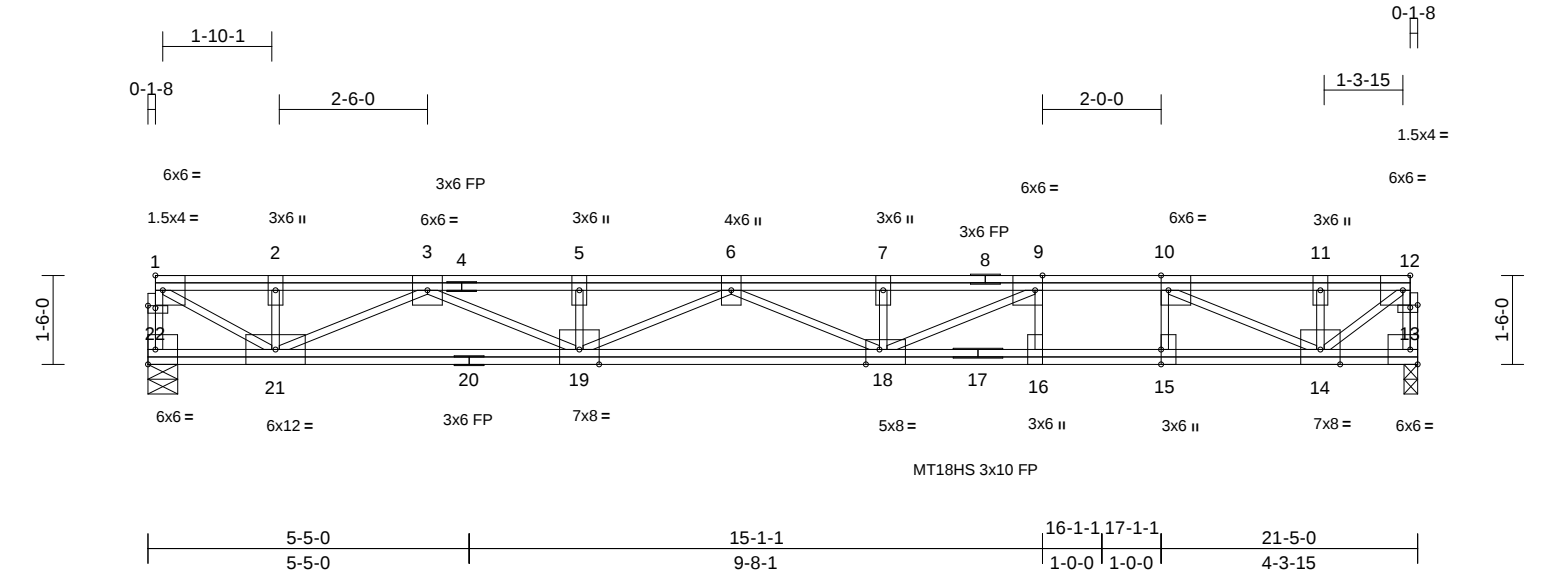
AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES

158527992

LEE'S SUMMIT, MISSOURI

08/24/2023



Scale = 1:38.9									
Plate Offsets (X, Y): [1:0-1-8,0-0-8], [9:0-1-8,Edge], [10:0-1-8,Edge], [12:0-1-8,Edge], [12:0-1-8,0-0-8], [15:0-3-0,Edge], [18:0-2-12,Edge]									
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	60.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.26 16-18	>967	480
TCDL	25.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.42 16-18	>612	480
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.05 13	n/a	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S					
Weight: 171 lb FT = 20%F, 11%E									

LUMBER			6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
TOP CHORD	2x4 SP 2400F 2.0E(flat)		
BOT CHORD	2x4 SP 2400F 2.0E(flat)		
WEBS	2x4 SP No.2(flat)		
OTHERS	2x4 SP No.2(flat)		

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 13=0-2-12, 22=0-6-0
	Max Grav 13=1341 (LC 1), 22=1341 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-22=-1334/0, 12-13=-1275/0, 1-2=-2018/0, 2-3=-2017/0, 3-5=-5090/0, 5-6=-5090/0, 6-7=-5653/0, 7-9=-5653/0, 9-10=-4155/0, 10-11=-1415/0, 11-12=-1416/0
BOT CHORD	21-22=0/0, 19-21=0/3848, 18-19=0/5620, 16-18=0/4155, 15-16=0/4155, 14-15=0/4155, 13-14=0/0
WEBS	9-16=-500/0, 10-15=0/564, 9-18=0/1778, 7-18=-516/0, 6-18=-30/198, 6-19=-589/0, 5-19=-297/0, 3-19=0/1382, 3-21=-2037/0, 2-21=-265/0, 1-21=0/2356, 10-14=-3035/0, 11-14=-175/178, 12-14=0/1822



NOTES		
1)	Unbalanced floor live loads have been considered for this design.	
2)	All plates are MT20 plates unless otherwise indicated.	
3)	All plates are 3x6 MT20 unless otherwise indicated.	
4)	Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.	
5)	This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.	



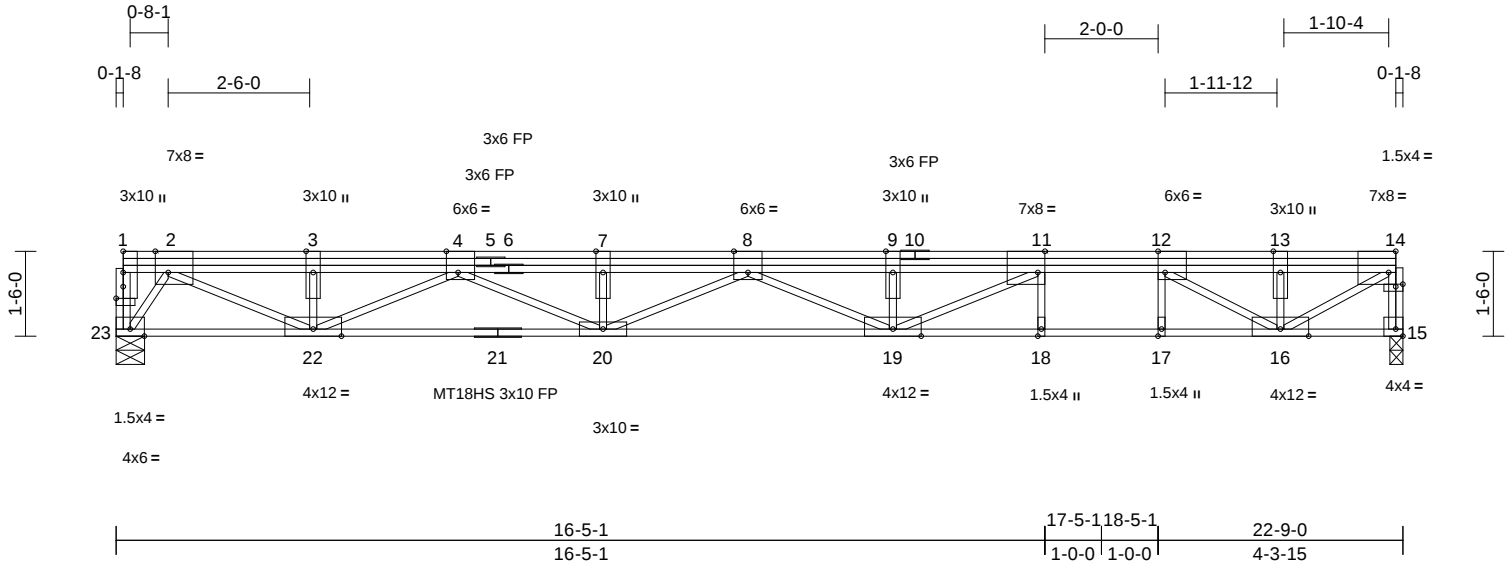
May 24,2023

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F55	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:32 Page: 1
ID:Hqg8hu6xnUme61sydOJJ3KzEG6R-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWwCDn7J423C2f

08/24/2023



Scale = 1:40.7

Plate Offsets (X, Y): [1:0-1-8,0-2-8], [2:0-2-12,Edge], [4:0-2-8,Edge], [8:0-3-0,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [14:0-1-8,Edge], [14:0-1-8,0-0-8], [15:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.32	19-20	>832	480	MT18HS	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.54	19-20	>500	480	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.10	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 182 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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) 15=0-2-12, 23=0-6-0
Max Grav 15=1425 (LC 1), 23=1425 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-23=0/57, 14-15=-1409/0, 1-2=0/0, 2-3=-3285/0, 3-4=-3285/0, 4-7=-6068/0, 7-8=-6068/0, 8-9=-6271/0, 9-11=-6271/0, 11-12=-4443/0, 12-13=-2014/0, 13-14=-2014/0
BOT CHORD 22-23=0/989, 20-22=0/4819, 19-20=0/6186, 18-19=0/4443, 17-18=0/4443, 16-17=0/4443, 15-16=0/0
WEBS 11-18=-44/0, 12-17=0/102, 11-19=0/2121, 9-19=-842/0, 8-19=0/235, 8-20=-161/0, 7-20=-483/0, 4-20=0/1389, 4-22=-1707/0, 3-22=-330/0, 2-22=0/2564, 2-23=-1768/0, 12-16=-2825/0, 13-16=-80/416, 14-16=0/2363

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 24, 2023

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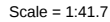


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:32 Page: 1

ID:5DsGinMtET_g1nTcV3lvq4zIGa_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7J4zJC?



Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.35	20-21	>803	480	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.58	20-21	>482	480	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.11	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 218 lb	FT = 20%F, 11%E

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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.

Max Grav 16=1466 (LC 1), 24=1466 (LC 1)

TOP CHORD 1-24=-81/0, 15-16=-1452/0, 1-2=0/0,
2-3=-4069/0, 3-4=-4069/0, 4-8=-6798/0,
8-9=-6798/0, 9-10=-6787/0, 10-12=-6787/0,
12-13=-4680/0, 13-14=-2199/0,
14-15=-2199/0

WEBS 12-20=0/2401, 10-20=-1013/0, 9-20=0/318,
9-21=-5/281, 8-21=-697/0, 4-21=0/1585,
4-23=-1422/0, 3-23=-445/0, 2-23=0/2608,
2-24=-2187/0, 12-19=-15/8, 13-18=0/69,
13-17=-2872/0, 14-17=-76/370,
15-17=0/2544

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 22 = 11%
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:32 Page: 1

ID:mvwVtwZDWMtdWU10fbTSwezEG4Z-RfC?PsB70Hq3NSgPqnL8w3uITXlGKWrcDol7J4ZJC:

Technical drawing of a roof truss system (Dachstuhl) showing a side elevation and a plan view.

Side Elevation:

- Roof height: 1.6-0
- Truss members: 1-15 (vertical posts), 16-23 (horizontal members).
- Labels: 3x6 FP, 8x10 =, 3x12 II, 8x8 =, MT18HS 3x10 FP, 10x10 =, 1.5x4 =, 3x6 =, 1.5x4 =, 3x10 =, 4x12 =, 4x4 =.

Plan View:

- Dimensions: 1-2-10, 2-6-0, 2-0-0, 1-11-12, 1-10-4, 0-1-8.
- Labels: 16-11-10, 16-11-10, 17-11-10, 18-11-10, 1-0-0, 1-0-0, 23-3-9, 4-3-15.

Plate Offsets (X, Y): [1:0-1-8,0-3-0], [2:0-4-0,Edge], [4:0-4-0,Edge], [9:0-4-0,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [15:0-1-8,Edge], [15:0-1-8,0-1-0], [16:Edge,0-1-8], [17:0-5-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.34	20-21	>813	480	MT18HS	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.57	20-21	>488	480	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 217 lb	FT = 20%F, 11%E

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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.

Max Grav 16=1460 (LC 1), 24=1460 (LC 1)

TOP CHORD 1-24=-58/0, 15-16=-1446/0, 1-2=0/0,
2-3=-3959/0, 3-4=-3959/0, 4-8=-6718/0,
8-9=-6718/0, 9-10=-6736/0, 10-12=-6736/0,
12-13=-4652/0, 13-14=-2188/0,
14-15=-2188/0

WEBS 12-19=-15/9, 13-18=0/68, 12-20=0/2376,
10-20=-1007/0, 9-20=0/322, 9-21=-14/260,
8-21=-692/0, 4-21=0/1593, 4-23=-1447/0,
3-23=-432/0, 2-23=0/2597, 2-24=-2121/0,
13-17=-2852/0, 14-17=-77/367,
15-17=0/2532

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 22 = 11%
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.



May 24, 2023



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F58	Floor	1	1	Job Reference (optional)

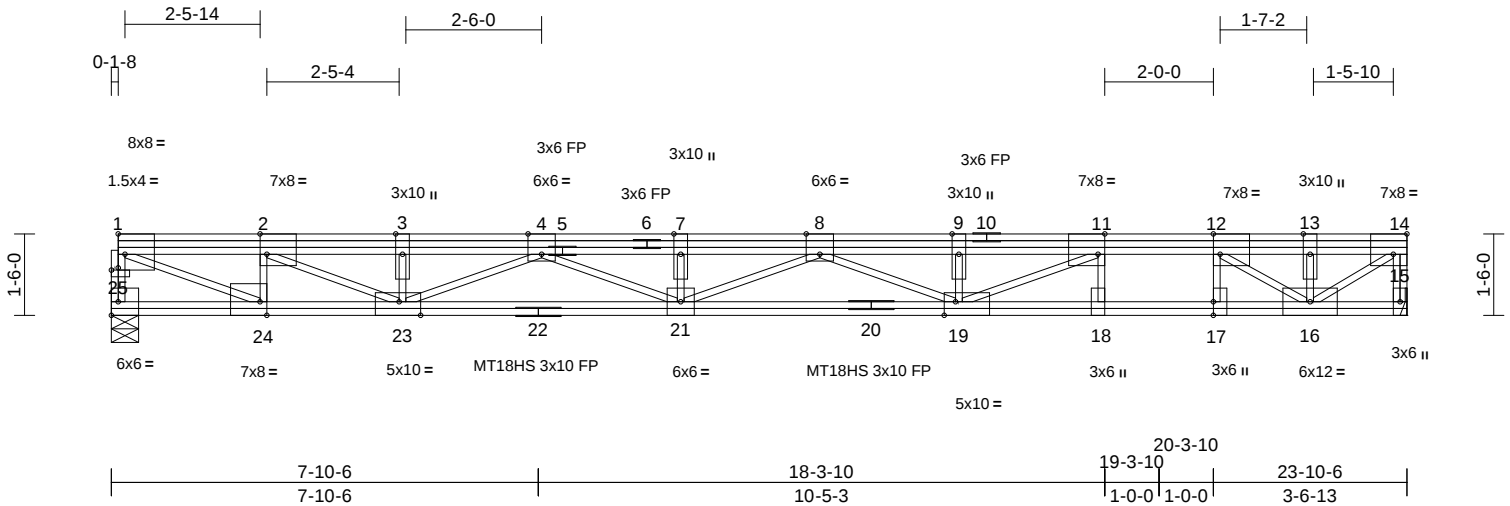
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527996
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:53 Page: 1

ID: QmiuXf73hVg51YYsMFIEoLzEG3r-RfC?PsB70Hq3NSgPqnL8w3uITXbGhWrCDoi7342067

08/24/2023



Scale = 1:42.4

[1:Edge,0-4-8], [1:0-1-8,0-0-8], [2:0-1-8,Edge], [4:0-3-0,Edge], [8:0-3-0,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [14:0-3-0,Edge], [17:0-3-0,Edge], [19:0-2-8,Edge],

Plate Offsets (X, Y): [23:0-4-12,Edge], [24:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.30	19-21	>941	480	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.48	19-21	>589	480	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.06	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 224 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 15= Mechanical, 25=0-6-0
Max Grav 15=1496 (LC 1), 25=1496 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-25=-1471/0, 14-15=-1457/0, 1-2=-2961/0, 2-3=-5113/0, 3-4=-5113/0, 4-7=-7285/0, 7-8=-7285/0, 8-9=-6796/0, 9-11=-6796/0, 11-12=-4506/0, 12-13=-1805/0, 13-14=-1805/0

BOT CHORD 24-25=0/0, 23-24=0/2961, 21-23=0/6461, 19-21=0/7229, 18-19=0/4506, 17-18=0/4506, 16-17=0/4506, 15-16=0/0

WEBS 11-18=-281/0, 12-17=0/407, 11-19=0/2579, 9-19=-694/0, 8-19=-521/0, 8-21=-69/105, 7-21=-346/0, 4-21=0/908, 4-23=-1486/0, 3-23=-316/0, 12-16=-3282/0, 13-16=0/562, 14-16=0/2220, 2-23=0/2371, 2-24=-1290/0, 1-24=0/3240

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

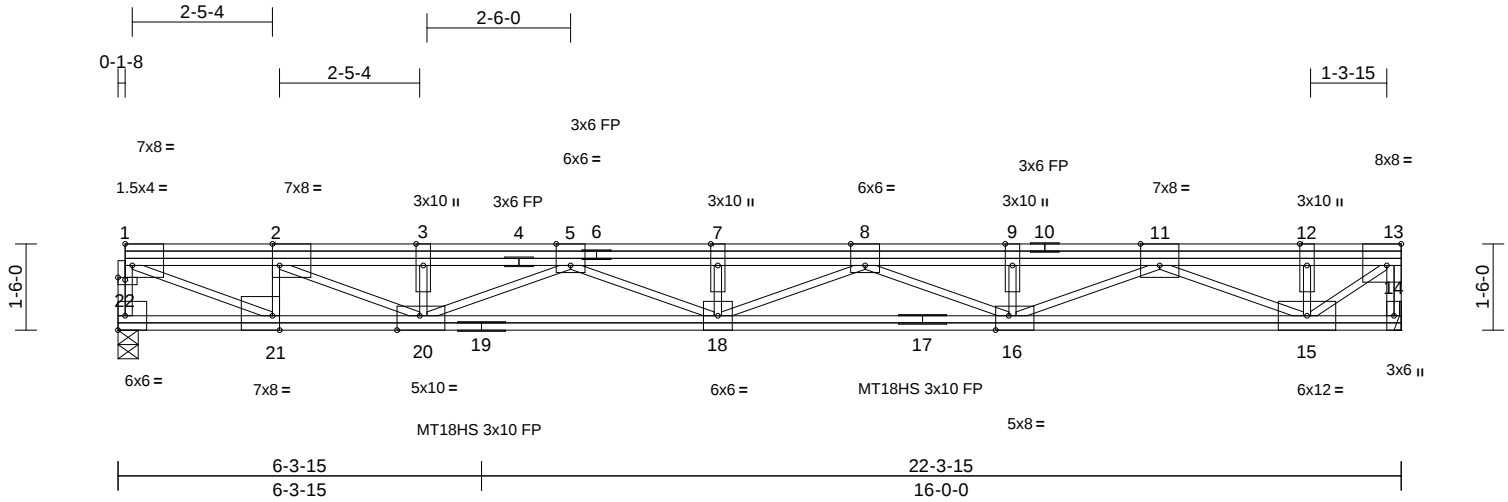
Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F59	Floor	1	1	Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:53 Page: 1

ID:wzILL_UKQjyBWYnqu4t_oTzIFvC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7J4ZJC4F

08/24/2023



Scale = 1:40.1

Plate Offsets (X, Y): [1:Edge,0-4-8], [1:0-1-8,0-0-8], [2:0-1-8,Edge], [5:0-3-0,Edge], [8:0-3-0,Edge], [11:0-4-0,Edge], [13:0-3-0,Edge], [16:0-2-12,Edge], [20:0-4-12,Edge], [21:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.21	16-18	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.34	16-18	>783	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 211 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 14= Mechanical, 22=0-4-4
Max Grav 14=1398 (LC 1), 22=1398 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-1375/0, 13-14=-1401/0, 1-2=-2704/0, 2-3=-4654/0, 3-5=-4654/0, 5-7=-6440/0, 7-8=-6440/0, 8-9=-5445/0, 9-11=-5445/0, 11-12=-1743/0, 12-13=-1743/0
BOT CHORD 21-22=0/0, 20-21=0/2704, 18-20=0/5818, 16-18=0/6209, 15-16=0/3846, 14-15=0/0
WEBS 3-20=-310/0, 5-20=-1283/0, 5-18=0/685, 7-18=-326/0, 8-18=0/254, 8-16=-842/0, 9-16=-324/0, 11-16=0/1763, 11-15=-2318/0, 12-15=-330/0, 13-15=0/2215, 2-20=0/2149, 2-21=-1198/0, 1-21=0/2968

NOTES

- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F60	Floor	1	1	

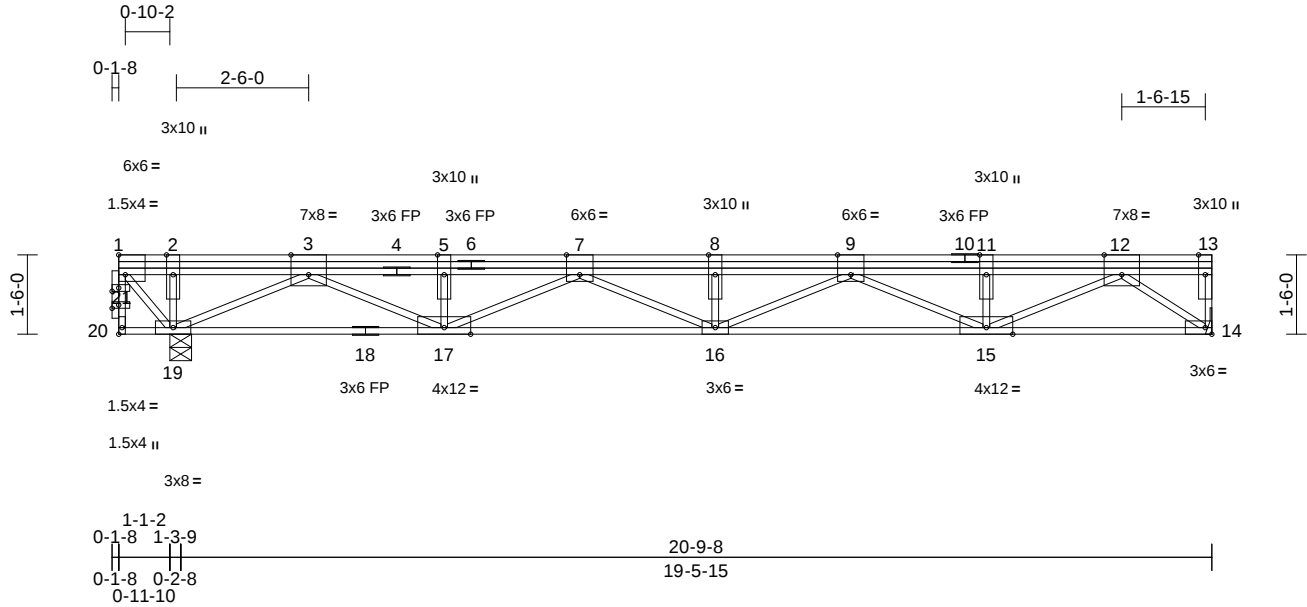
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158527998
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:55:33 Page: 1

ID: O410H4hIC7Vh_F9yTWAGbLzIFwF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDotR4423C41

08/24/2023



Scale = 1:43.6

Plate Offsets (X, Y): [1:Edge,0-4-8], [1:0-1-8,0-0-12], [3:0-4-0,Edge], [7:0-3-0,Edge], [9:0-3-0,Edge], [12:0-4-0,Edge], [20:Edge,0-0-12], [21:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.18	16-17	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.28	16-17	>826	720		
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.07	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 166 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-20.

REACTIONS (size) 14= Mechanical, 19=0-4-15
Max Grav 14=1219 (LC 4), 19=2425 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-20=-28/0, 13-14=-84/0, 1-2=0/739,
2-3=0/739, 3-5=-3559/0, 5-7=-3559/0,
7-8=-4729/0, 8-9=-4729/0, 9-11=-3239/0,
11-12=-3239/0, 12-13=0/0
BOT CHORD 19-20=-1/0, 17-19=0/1858, 16-17=0/4299,
15-16=0/4151, 14-15=0/1482
WEBS 2-19=-595/0, 1-19=-1161/0, 3-19=-2249/0,
3-17=0/1961, 5-17=-402/0, 7-17=-916/0,
7-16=0/546, 8-16=-424/0, 9-16=0/643,
9-15=-1015/0, 11-15=-352/0, 12-15=0/1958,
12-14=-1854/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1000 lb down at 0-1-8 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 14-20=-13, 1-13=-113
Concentrated Loads (lb)
Vert: 1=-1000 (F)



May 24, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



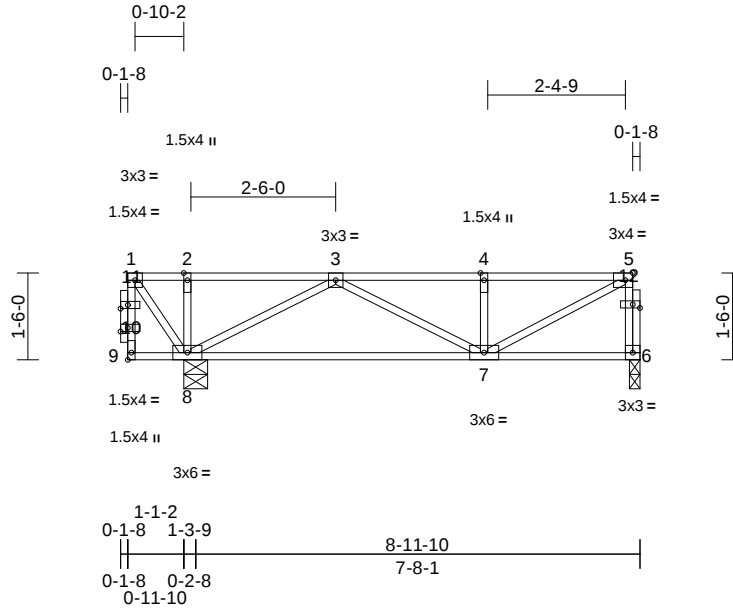
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F61	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:34 Page: 1
ID:ZOKuuPCCdrTMB65G76SuzvzIFwt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrdOn7d423C#f

08/24/2023



Scale = 1:39.8

Plate Offsets (X, Y): [5:0-1-8,Edge], [9:Edge,0-0-12], [10:0-1-8,0-0-12], [11:0-1-8,0-0-12], [12:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.01	7-8	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.04	7-8	>999	720		
BCLL	0.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 51 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS

(size) 6=0-2-3, 8=0-4-15
Max Grav 6=431 (LC 4), 8=1743 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-9=-29/0, 5-6=-422/0, 1-2=0/704, 2-3=0/704, 3-4=-580/0, 4-5=-580/0
BOT CHORD	8-9=0/0, 7-8=-275/452, 6-7=0/19
WEBS	2-8=-260/0, 1-8=-1224/0, 3-8=-927/0, 3-7=0/324, 4-7=-321/0, 5-7=0/640

NOTES

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1000 lb down at 0-2-4 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 6-9=-13, 1-5=-113
Concentrated Loads (lb)
Vert: 1=-1000 (F)



May 24, 2023

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

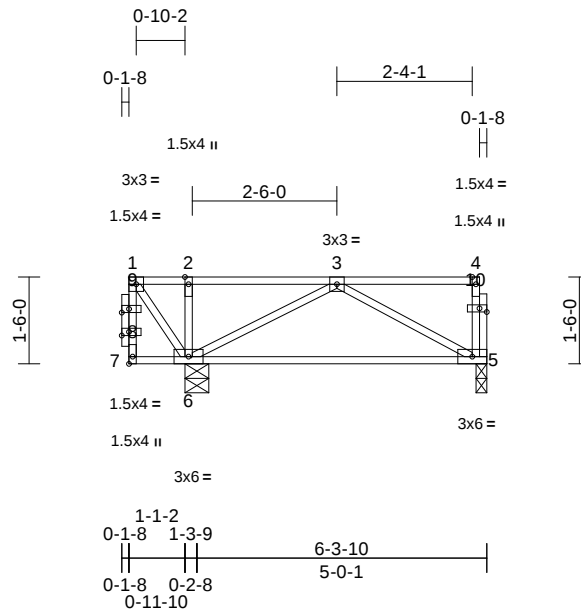
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F62	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:34 Page: 1

ID: GmtqrCv9HTRmIQGfj40G?rziFxF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwVrCDoi7J42JG4H

08/24/2023



Scale = 1:39.8

Plate Offsets (X, Y): [7:Edge,0-0-12], [8:0-1-8,0-0-12], [9:0-1-8,0-0-12], [10:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	0.00	5-6	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.05	5-6	>999	720		
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 37 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 5=0-2-3, 6=0-4-15

Max Uplift 5=-89 (LC 3)

Max Grav 5=236 (LC 4), 6=1645 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
TensionTOP CHORD 1-7=-35/0, 4-5=-106/0, 1-2=0/699, 2-3=0/699,
3-4=-5/0

BOT CHORD 6-7=0/0, 5-6=-260/192

WEBS 2-6=-247/0, 1-6=-1216/0, 3-6=-726/0,
3-5=-214/300**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 5.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1000 lb down at 0-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 5-7=-13, 1-4=-113

Concentrated Loads (lb)

Vert: 1=-1000 (F)



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

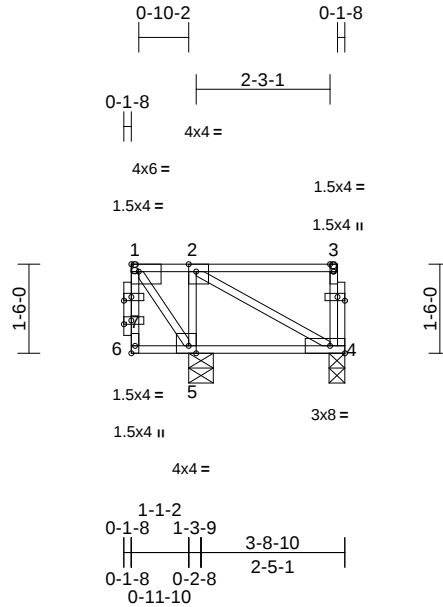
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F63	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:34 Page: 1

ID:fatYlQ5EIMVqx5SGQunyeOzEFX0-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi73423C71

08/24/2023



Scale = 1:38.8

Plate Offsets (X, Y): [1:Edge,0-1-8], [2:0-1-8,Edge], [5:0-1-8,Edge], [6:Edge,0-0-12], [7:0-1-8,0-0-12], [8:0-1-8,0-0-12], [9:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	0.00	4-5	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	0.00	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 4=0-3-3, 5=0-4-15
Max Uplift 4=-563 (LC 3)
Max Grav 4=-80 (LC 4), 5=2395 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-17/0, 3-4=-109/0, 1-2=0/1057, 2-3=-5/0
BOT CHORD 5-6=0/0, 4-5=-1057/0
WEBS 2-5=-877/0, 1-5=-1838/0, 2-4=0/1214

NOTES

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 563 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1500 lb down at 0-2-4 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 4-6=-13, 1-3=-113
Concentrated Loads (lb)
Vert: 1=-1500 (F)



May 24, 2023

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

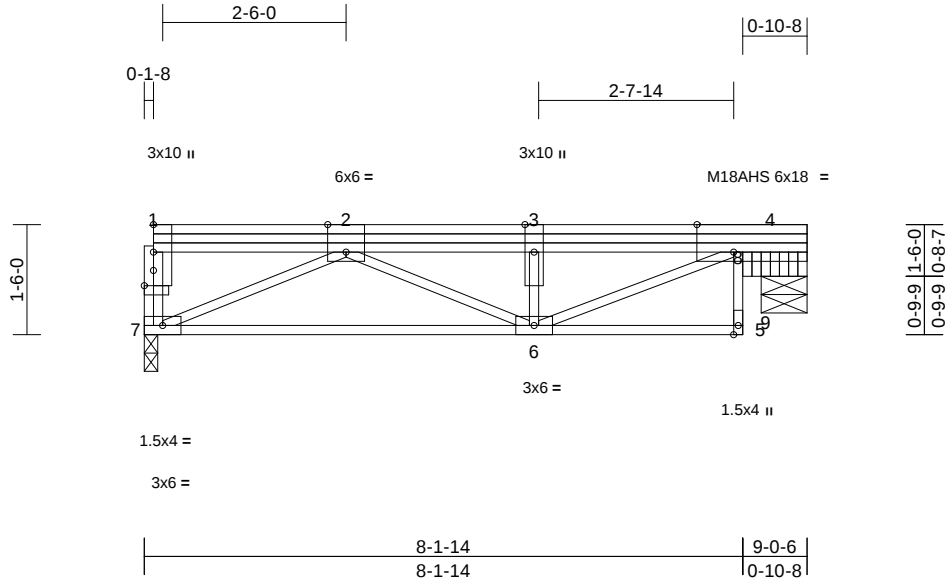
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F64	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:34 Page: 1

ID:11rQy7oVPiJ2j14whhM97xzIFxO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKw/rCDoi7J4zJC8

08/24/2023



Scale = 1:31.4

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.01	6-7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.08	6-7	>999	720	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 74 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 7=0-2-3, 9=0-7-8
Max Grav 7=528 (LC 1), 9=531 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-7=-140/0, 5-8=0/8, 4-8=-44/0, 1-2=0/0,
2-3=-876/0, 3-4=-876/0

BOT CHORD 6-7=0/754, 5-6=0/45

WEBS 2-7=-835/0, 2-6=0/136, 3-6=-313/0,
4-6=0/892, 4-9=-512/0

NOTES

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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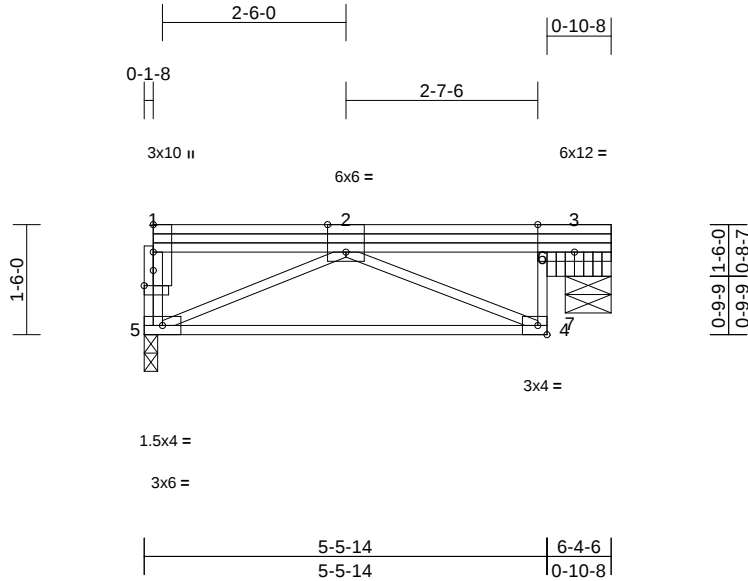
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F65	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:55 Page: 1

ID:JrIDluTZIPvt_tWkcWNpXFzIFxp-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWCD0i7J423C44

08/24/2023



Scale = 1:31.4

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	0.00	4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.12	4-5	>557	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 52 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 5=0-2-3, 7=0-7-8
Max Grav 5=359 (LC 1), 7=362 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-5=-128/0, 4-6=0/201, 3-6=0/183, 1-2=0/0,
2-3=-57/0

BOT CHORD 4-5=0/411
WEBS 2-5=-455/0, 2-4=-391/0, 3-7=-358/0

NOTES

- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F66	Floor	1	1	Job Reference (optional)

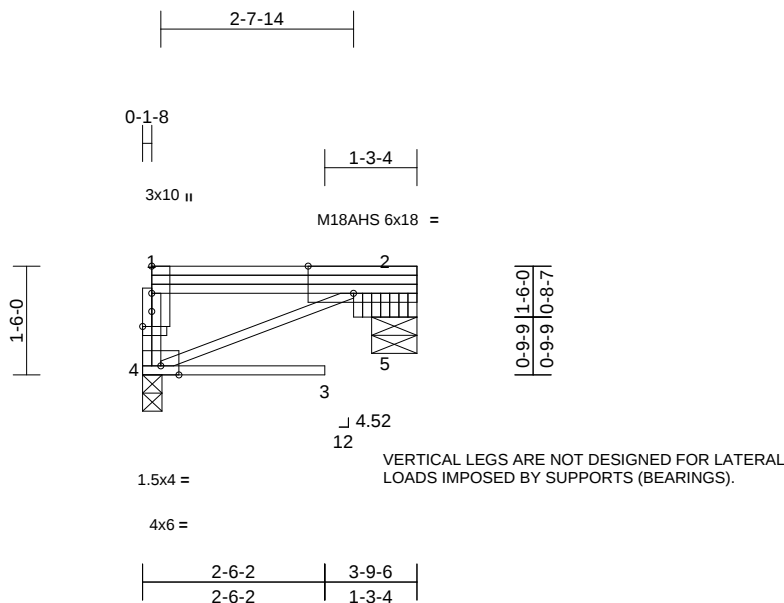
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:35 Page: 1

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Page: 1

08/24/2023



Scale = 1:31.8

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	0.00	4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.06	3	>678	720	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.2(flat)

OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 4=0-3-3, 5=0-7-8

Max Grav 4=202 (LC 1), 5=194 (LC 1)

FORCES

(Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-182/0, 1-2=-28/0, 2-5=-194/0

BOT CHORD 3-4=0/0

WEBS 2-4=0/31

NOTES

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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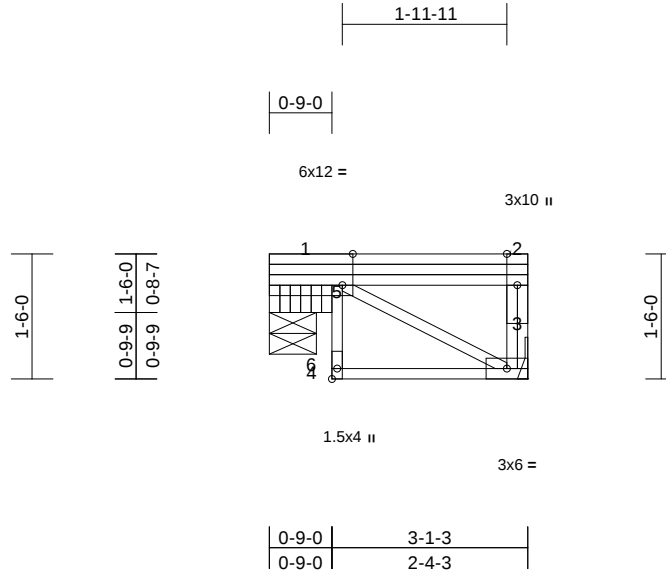
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F67	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:35 Page: 1

ID:UKipBmNUBSRoZu3EnvEUL3zIFzE-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWwCD0rJ423C?F

08/24/2023



Scale = 1:27.6

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	0.00	4	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	0.00	3-4	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 3= Mechanical, 6=0-6-12
 Max Grav 3=156 (LC 1), 6=160 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 4-5=0/14, 1-5=-2/0, 2-3=-133/0, 1-2=0/0
 BOT CHORD 3-4=0/18
 WEBS 1-3=-20/0, 1-6=-154/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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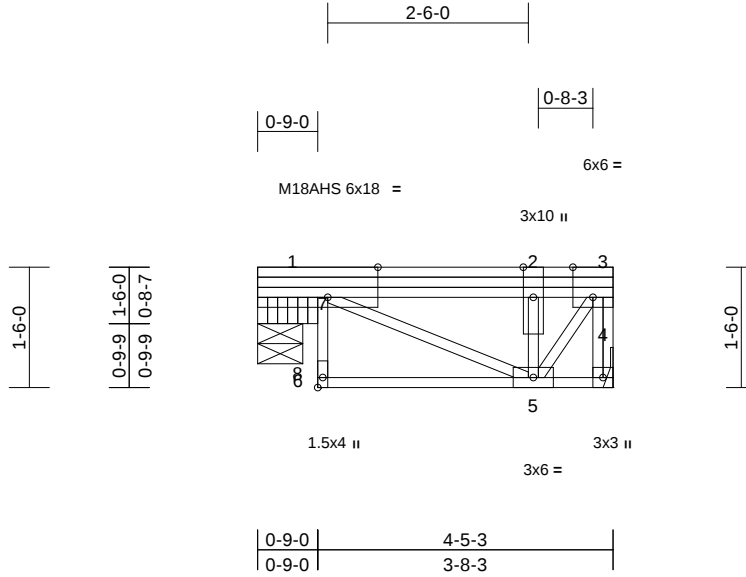
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F68	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:35 Page: 1

ID:mbWIOwdDYilSIXuWibeANCzIG_B-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDof423C7f

08/24/2023



Scale = 1:28.7

Plate Offsets (X, Y): [1:0-7-8,Edge], [3:0-3-0,Edge], [6:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	0.00	5-6	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	-0.01	5-6	>999	720	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 40 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

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.

REACTIONS (size) 4= Mechanical, 8=0-6-12
 Max Grav 4=241 (LC 1), 8=244 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 6-7=0/15, 1-7=-11/0, 3-4=-243/0, 1-2=-171/0,
 2-3=-171/0
 BOT CHORD 5-6=0/26, 4-5=0/0
 WEBS 1-5=0/156, 2-5=-271/0, 3-5=0/299,
 1-8=-235/0

NOTES

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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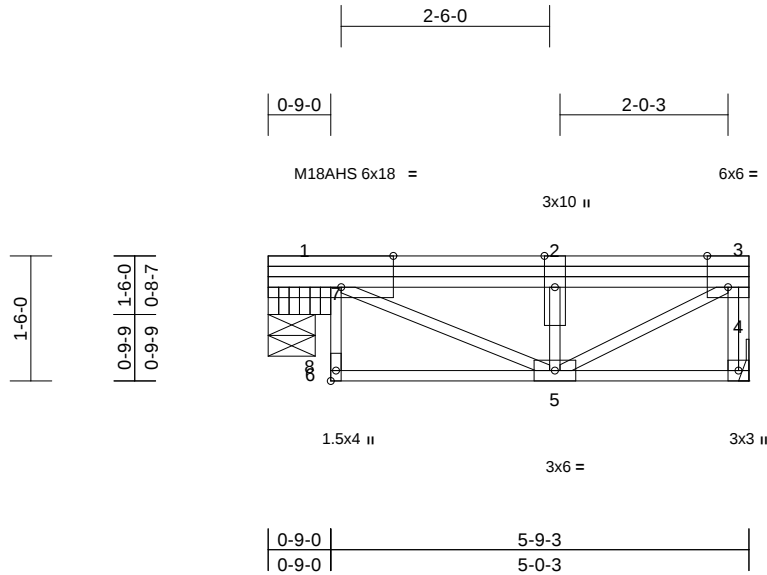
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F69	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:35 Page: 1

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08/24/2023



Scale = 1:27.6

Plate Offsets (X, Y): [1:0-7-8,Edge], [3:0-3-0,Edge], [6:Edge,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	0.00	5	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	-0.01	5-6	>999	720	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 49 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.2(flat)

OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-3 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 8=0-6-12

Max Grav 4=325 (LC 1), 8=329 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 6-7=0/15, 1-7=-14/0, 3-4=-314/0, 1-2=-366/0, 2-3=-366/0

BOT CHORD 5-6=0/30, 4-5=0/0

WEBS 1-5=0/364, 2-5=-310/0, 3-5=0/421, 1-8=-317/0

NOTES

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

May 24, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

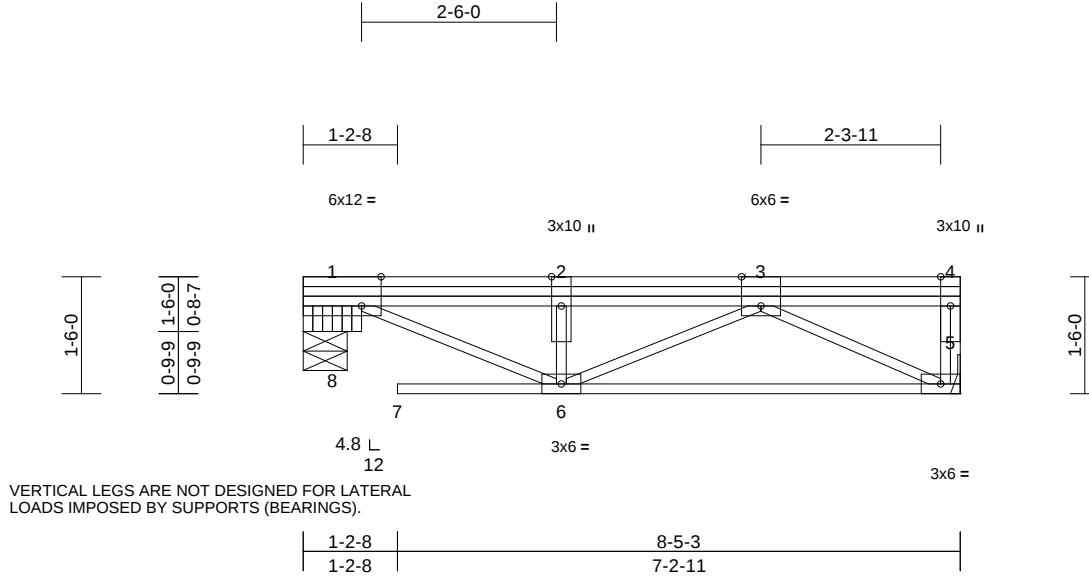
Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F71	Floor	1	1	Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Wed May 24 11:22:10 Page: 1

ID:AUrcGJ5xP_2Ro8tVtPQmpczlG5L-SxxSQvJRDtqd0wwj16x_dBmNOZMSHQCfDolwSS_2DSGZ

08/24/2023



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

Scale = 1:29.6

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	-0.01	7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.06	5-6	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 67 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (lb/size) 5=502/ Mechanical, 8=492/0-6-12

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

TOP CHORD 1-2=-796/0, 2-3=-796/0, 1-8=-492/0

BOT CHORD 5-6=0/672

WEBS 1-6=0/866, 2-6=-333/0, 3-5=-755/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F72	Floor	1	1	

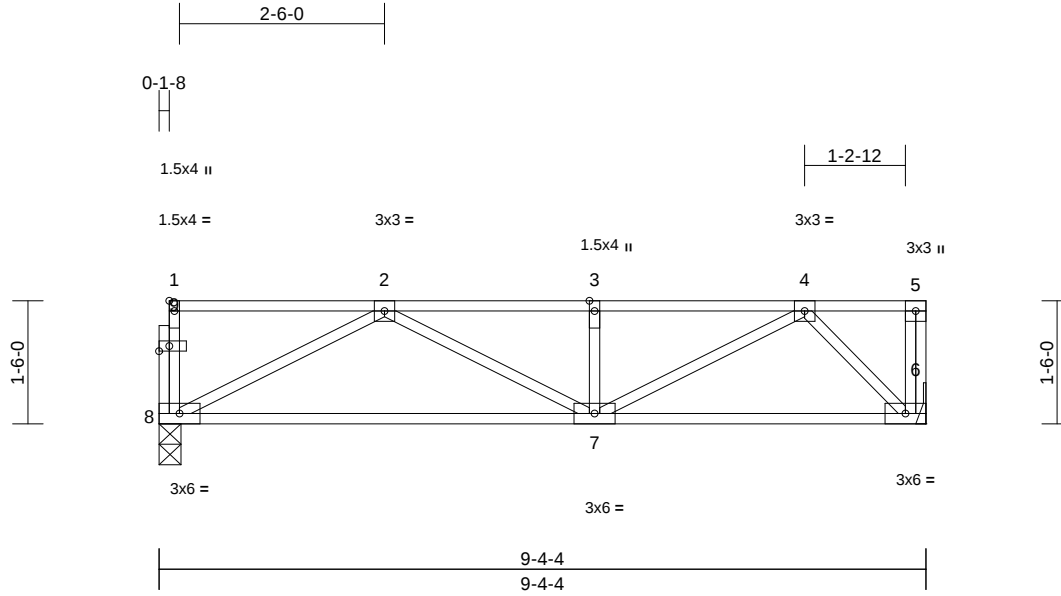
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158528010
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:36 Page: 1

ID: _c?1q86FBZLTmg?PmHyAuCzEFhK-RfC?PsB70Hq3NSgPqnL8w3uITXb3KWrcD6wJ42JC?

08/24/2023



Scale = 1:28.1									
Plate Offsets (X, Y): [1:Edge,0-0-12], [9:0-1-8,0-0-12]									
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.02 7-8	>999	720
TCDL	25.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.07 7-8	>999	720
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01 6	n/a	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S					
					PLATES		GRIP		
					MT20		244/190		
					Weight: 52 lb		FT = 20%F, 11%E		

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

REACTIONS (size) 6= Mechanical, 8=0-3-3
Max Grav 6=577 (LC 1), 8=570 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-116/0, 5-6=-40/0, 1-2=-5/0, 2-3=-1001/0, 3-4=-1001/0, 4-5=0/0
BOT CHORD 7-8=0/817, 6-7=0/511
WEBS 2-8=-916/0, 2-7=0/208, 3-7=-286/0, 4-7=0/555, 4-6=-728/0

- NOTES**
- 1) Refer to girder(s) for truss to truss connections.
 - 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F73	Floor	1	1	Job Reference (optional)

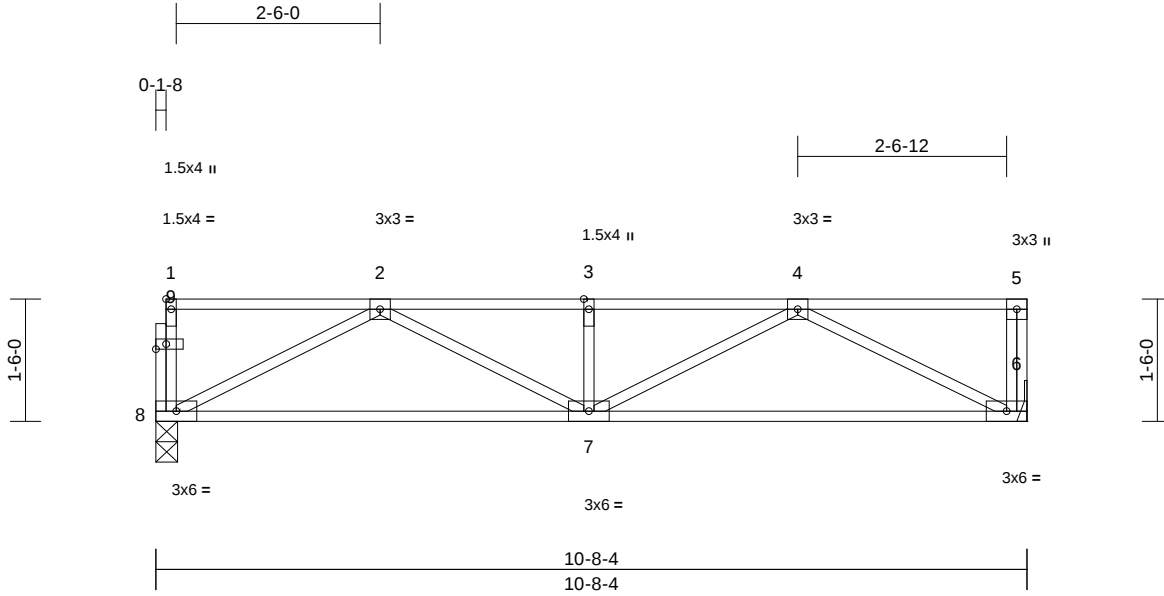
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158528011
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:36 Page: 1

ID:9SemZ52UbjbJ2lXGQ0rmexzEFhQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDof3423C4f

08/24/2023



Scale = 1:28.3

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.03	7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.08	6-7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 6= Mechanical, 8=0-3-3
Max Grav 6=661 (LC 1), 8=654 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-115/0, 5-6=-122/0, 1-2=-5/0,
2-3=-1318/0, 3-4=-1318/0, 4-5=0/0

BOT CHORD 7-8=0/982, 6-7=0/1000
WEBS 2-8=-1103/0, 2-7=0/381, 3-7=-266/0,
4-7=0/361, 4-6=-1124/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10'-00" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F74	Floor	1	1	

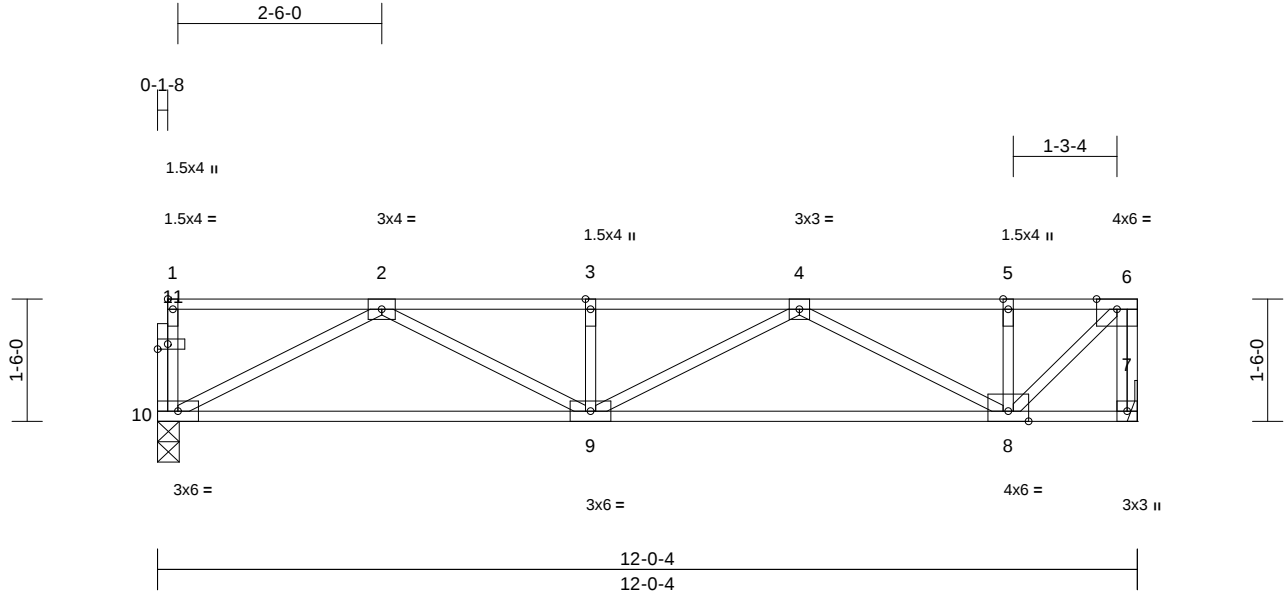
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158528012
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:36 Page: 1

ID:pVrtWO_LmBz1x_fldTFbxuzEFhV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4z3G4f

08/24/2023



Scale = 1:28.3

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.04	8-9	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.09	9-10	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 66 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 7= Mechanical, 10=0-3-3
Max Grav 7=746 (LC 1), 10=738 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-10=-116/0, 6-7=-748/0, 1-2=-5/0,
2-3=-1635/0, 3-4=-1635/0, 4-5=-740/0,
5-6=-740/0

BOT CHORD 9-10=0/1140, 8-9=0/1468, 7-8=0/0

WEBS 2-10=-1281/0, 2-9=0/562, 3-9=-277/0,
4-9=0/190, 4-8=-826/0, 5-8=-255/0,
6-8=0/1018

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F75	Floor	1	1	
					Job Reference (optional)

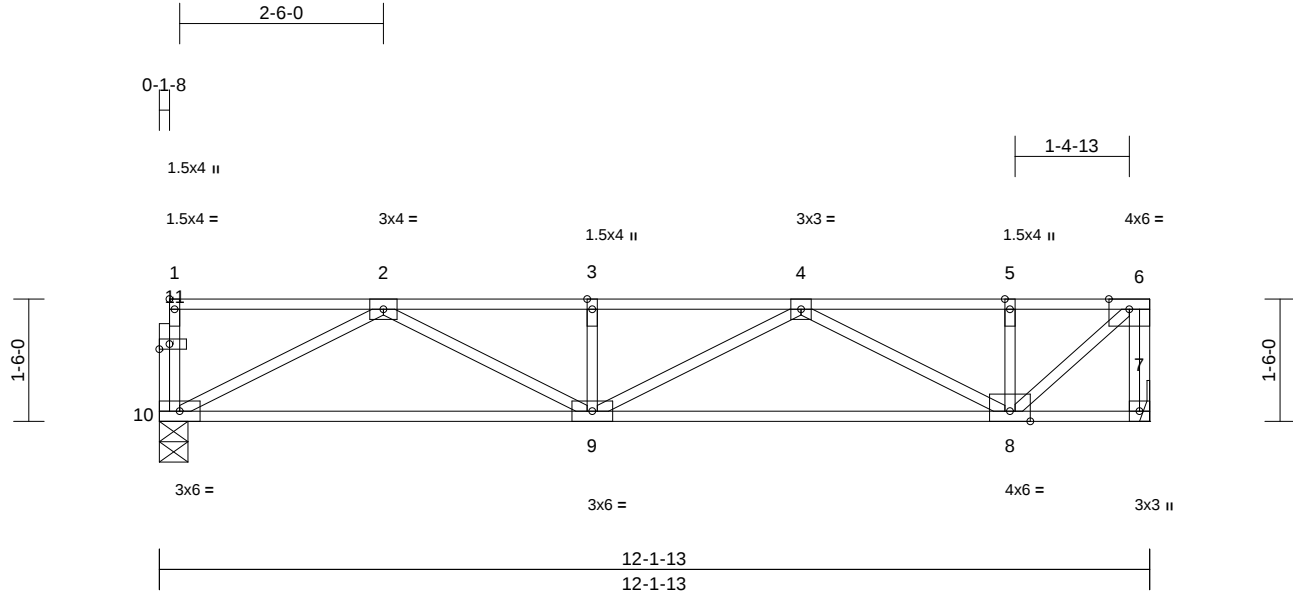
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158528013
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:37 Page: 1

ID:4YXXb_pa?11kPeEb3haStgzIG9Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJG7

08/24/2023



Scale = 1:28.3

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.04	8-9	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.09	9-10	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 66 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 7= Mechanical, 10=0-4-4
Max Grav 7=754 (LC 1), 10=747 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-10=-116/0, 6-7=-754/0, 1-2=-5/0,
2-3=-1666/0, 3-4=-1666/0, 4-5=-803/0,
5-6=-803/0

BOT CHORD 9-10=0/1156, 8-9=0/1514, 7-8=0/0

WEBS 2-10=-1299/0, 2-9=0/579, 3-9=-277/0,
4-9=0/173, 4-8=-807/0, 5-8=-261/0,
6-8=0/1062

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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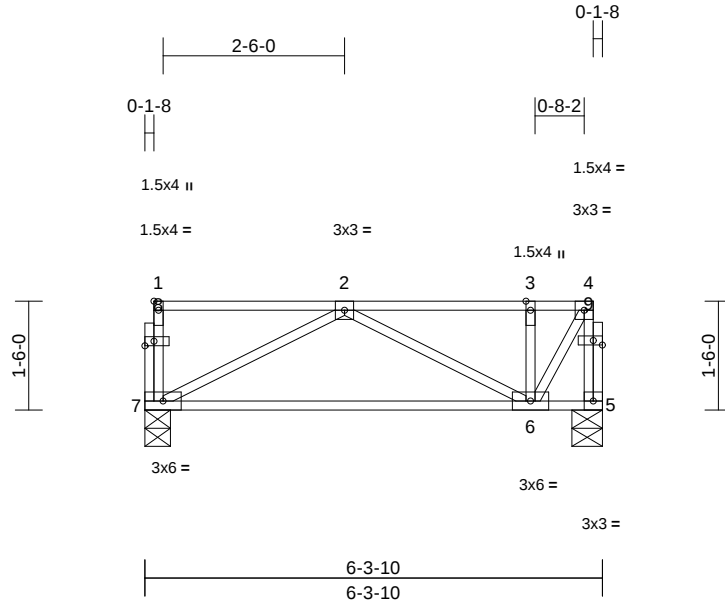
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F76	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:37 Page: 1
ID:v9ryjPU0bQVj2L5DQp4ukmziGA?RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCD0i734z3G4f

08/24/2023



Scale = 1:31.7

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	0.00	6-7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.06	6-7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 5=0-5-0, 7=0-4-4
Max Grav 5=376 (LC 1), 7=376 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-7=-114/0, 4-5=-413/0, 1-2=-5/0, 2-3=-262/0,
3-4=-262/0

BOT CHORD 6-7=0/453, 5-6=0/19
WEBS 2-7=-506/0, 2-6=-217/0, 3-6=-225/0,
4-6=0/482

NOTES

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

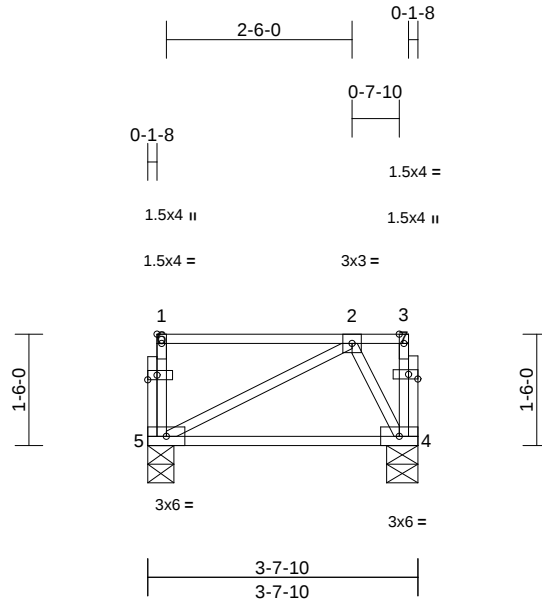
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F77	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:57 Page: 1

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08/24/2023



Scale = 1:31

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.02	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.2(flat)

OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4=0-5-0, 5=0-4-4

Max Grav 4=207 (LC 1), 5=207 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-117/0, 3-4=0/64, 1-2=-5/0, 2-3=0/3

BOT CHORD 4-5=0/135

WEBS 2-5=-146/0, 2-4=-284/0

NOTES

1) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

2) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

May 24, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

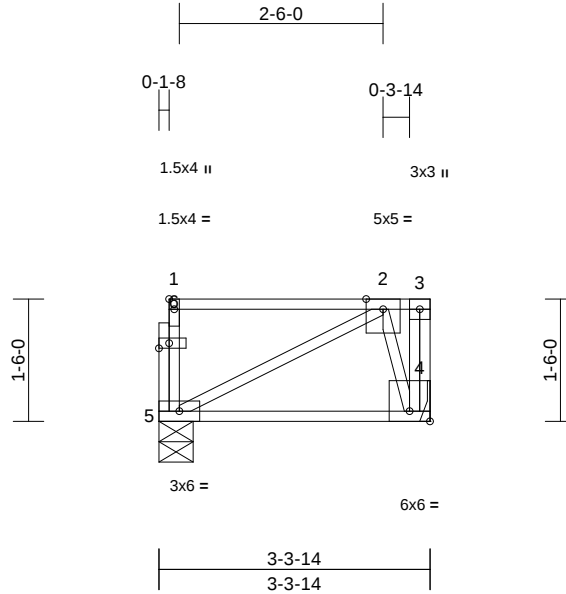
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F78	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:57 Page: 1

ID:lemx9KS4HDWZYi3rj8iyVSzIGLf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKvtrCDoi7J4zJC-R

08/24/2023



Scale = 1:28.3

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	-0.01	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 4= Mechanical, 5=0-5-0
Max Grav 4=195 (LC 1), 5=188 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-116/0, 3-4=0/144, 1-2=-5/0, 2-3=0/0
BOT CHORD 4-5=0/104
WEBS 2-5=-112/0, 2-4=-335/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

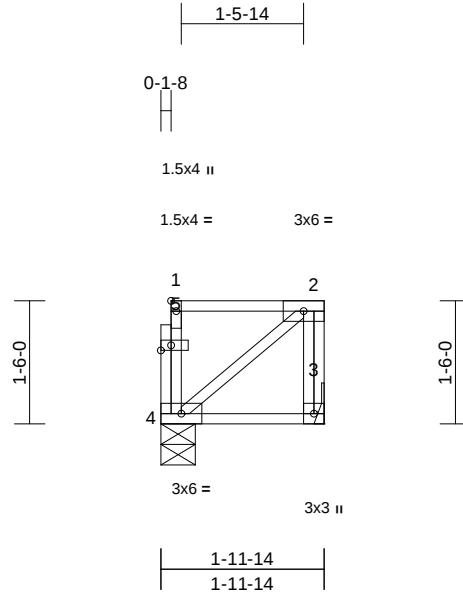
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F79	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:37 Page: 1

ID:dbQAIuFubLnEPTzpSmMw5YziGMO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDm7J420C2

08/24/2023



Scale = 1:28.1

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	0.00	3-4	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4=0-5-0
Max Grav 3=110 (LC 1), 4=103 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-95/0, 2-3=-99/0, 1-2=-4/0
BOT CHORD 3-4=0/0
WEBS 2-4=0/6

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F81	Floor	11	1	Job Reference (optional)

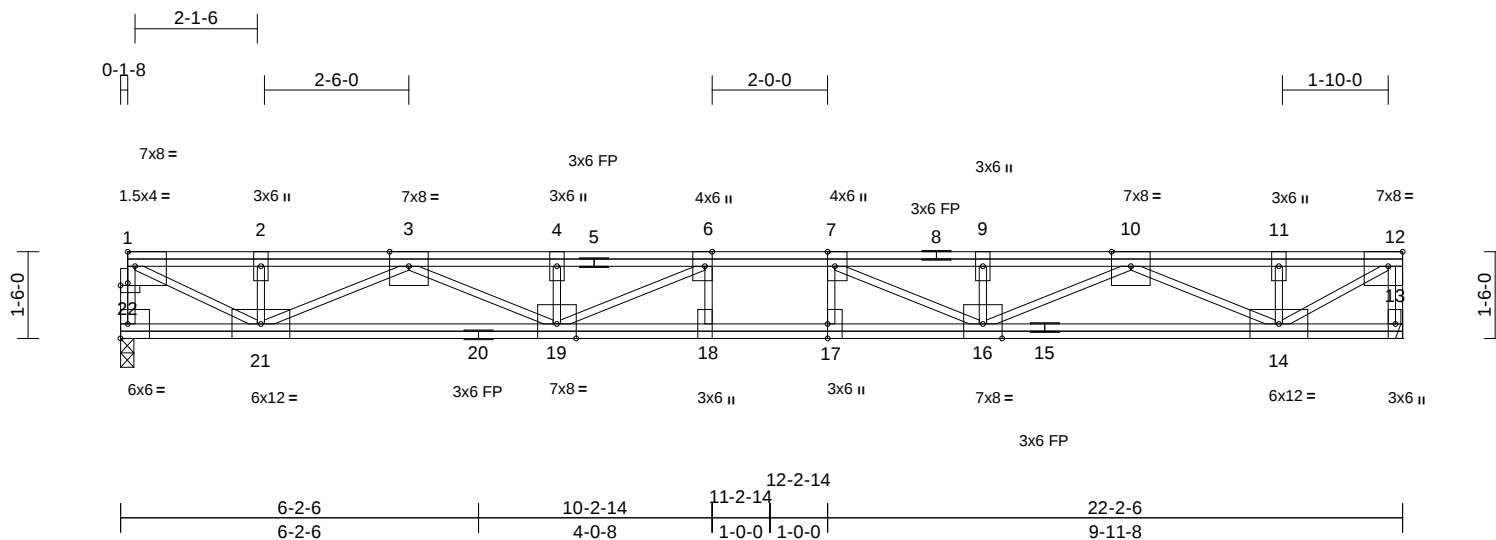
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158528019
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:38 Page: 1

ID:pBSTOu4dII1nIDzT3qjIMKzIGRI-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWCDoi7J423C4

08/24/2023



Scale = 1:39.9

Plate Offsets (X, Y): [1:Edge,0-3-0], [1:0-1-8,0-0-8], [6:0-3-0,Edge], [7:0-3-0,Edge], [12:0-3-0,Edge], [17:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.22	17-18	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.35	17-18	>748	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 177 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard**BRACING**

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

REACTIONS

(size) 13= Mechanical, 22=0-2-12
Max Grav 13=1390 (LC 1), 22=1390 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-1377/0, 12-13=-1383/0, 1-2=-2340/0, 2-3=-2339/0, 3-4=-5483/0, 4-6=-5483/0, 6-7=-6029/0, 7-9=-5370/0, 9-10=-5370/0, 10-11=-2088/0, 11-12=-2088/0
BOT CHORD 21-22=0/0, 19-21=0/4203, 18-19=0/6029, 17-18=0/6029, 16-17=0/6029, 14-16=0/4024, 13-14=0/0
WEBS 6-18=-126/151, 7-17=-106/170, 6-19=-1022/0, 4-19=-357/0, 3-19=0/1425, 3-21=-2073/0, 2-21=-289/0, 1-21=0/2651, 7-16=-1111/0, 9-16=-349/0, 10-16=0/1497, 10-14=-2155/0, 11-14=-291/0, 12-14=0/2456

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x6 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 24, 2023

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

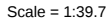
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017



Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.17	18-20	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.32	Vert(CT)	-0.26	18-20	>915	720	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 164 lb	FT = 20%F, 11%E

- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

WEBS 6-20=-760/124, 4-20=-366/0, 3-20=0/1255,
3-21=-1896/0, 2-21=-292/0, 1-21=0/2247,
7-15=-1110/0, 9-15=-267/39, 10-15=0/1200,
10-14=-1658/0, 11-14=-234/0, 12-14=0/2213,
6-18=-152/92, 7-17=-58/215

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F83	Floor	1	1	

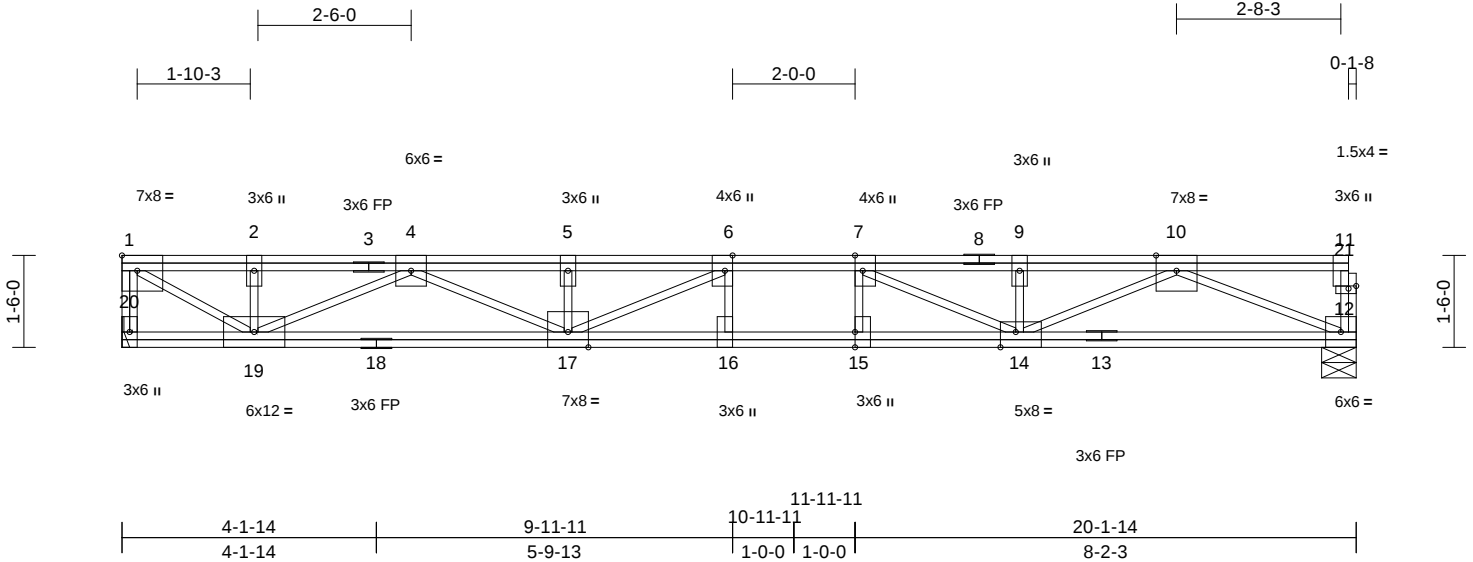
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158528021
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:59 Page: 1

ID:9X5o1jvn8VpYcJ3quyUYxtzIGSp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKw/rCDoi7J4zJC8

08/24/2023



Scale = 1:37.6

Plate Offsets (X, Y): [1:Edge,0-3-0], [6:0-3-0,Edge], [7:0-3-0,Edge], [14:0-3-0,Edge], [15:0-3-0,Edge], [21:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.17	16-17	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.26	16-17	>906	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 160 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 12=0-6-12, 20= Mechanical
Max Grav 12=1257 (LC 1), 20=1257 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-20=-1247/0, 11-12=-134/0, 1-2=-1883/0,
2-4=-1883/0, 4-5=-4641/0, 5-6=-4641/0,
6-7=-4885/0, 7-9=-3887/0, 9-10=-3887/0,
10-11=0/0

BOT CHORD 19-20=0/0, 17-19=0/3548, 16-17=0/4885,
15-16=0/4885, 14-15=0/4885, 12-14=0/2491

WEBS 6-16=-164/84, 7-15=-25/216, 6-17=-717/175,
5-17=-372/0, 4-17=0/1215, 4-19=-1853/0,
2-19=-293/0, 1-19=0/2210, 7-14=-1304/0,
9-14=-316/0, 10-14=0/1556, 10-12=-2690/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x6 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F84	Floor	1	1	

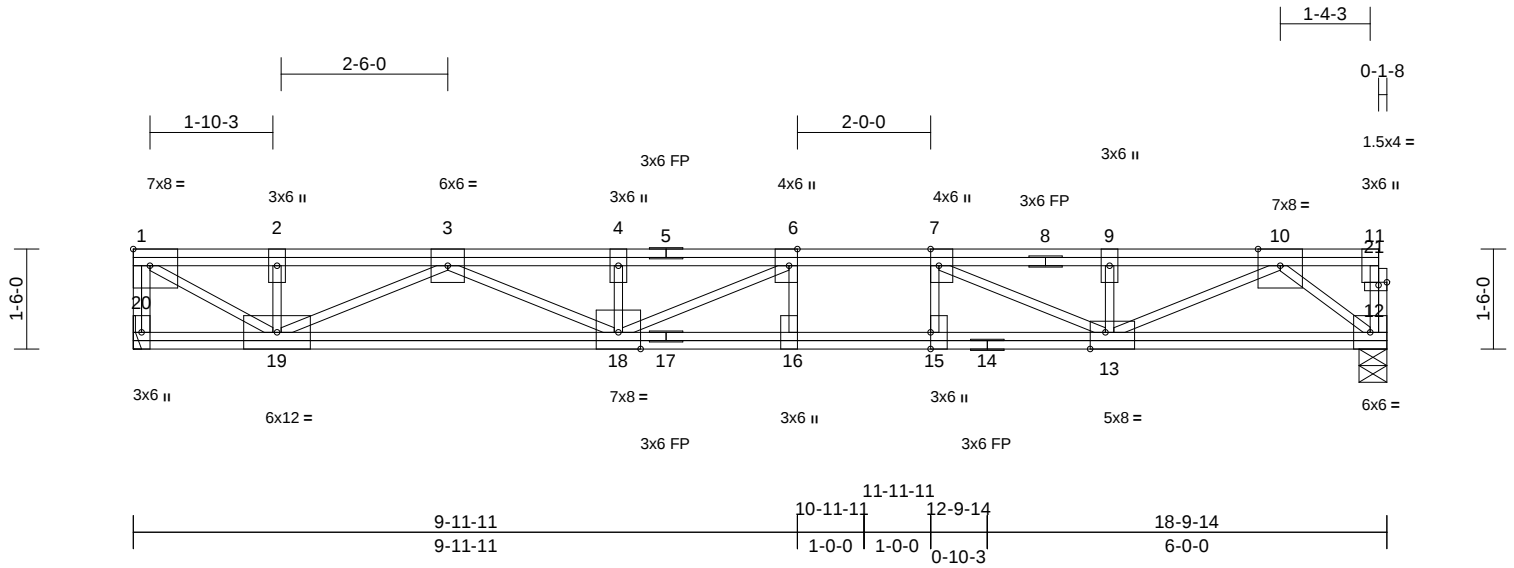
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158528022
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:39 Page: 1

ID:Oj4LnAc61pg56Te0wCXhQbzIGTC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDot74423C7f

08/24/2023



Scale = 1:34.6

Plate Offsets (X, Y): [1:Edge,0-3-0], [6:0-3-0,Edge], [7:0-3-0,Edge], [13:0-2-12,Edge], [15:0-3-0,Edge], [21:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.14	16-18	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.22	16-18	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 151 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 12=0-5-0, 20= Mechanical
Max Grav 12=1172 (LC 1), 20=1172 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-1162/0, 11-12=-42/1, 1-2=-1744/0, 2-3=-1744/0, 3-4=-4175/0, 4-6=-4175/0, 6-7=-4155/0, 7-9=-2928/0, 9-10=-2928/0, 10-11=0/0
BOT CHORD 19-20=0/0, 18-19=0/3240, 16-18=0/4155, 15-16=0/4155, 13-15=0/4155, 12-13=0/1339
WEBS 6-18=-472/353, 4-18=-389/0, 3-18=0/1041, 3-19=-1664/0, 2-19=-293/0, 1-19=0/2047, 7-13=-1470/0, 9-13=-298/21, 10-13=0/1769, 10-12=-1710/0, 6-16=-199/36, 7-15=0/245

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:39 Page: 1
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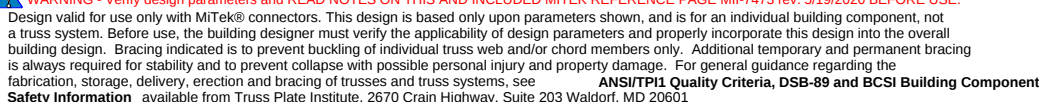
Structural drawing of a roof truss system. The drawing shows a side elevation of the truss with various timber members and their dimensions. The roof pitch is indicated as 1:6.0 on both sides. The truss is supported by a wall on the left and a foundation on the right. The drawing includes the following dimensions and member specifications:

- Overall width: 2-6-0
- Overall height: 1-6-0
- Member 1: 7x8 =
- Member 2: 3x6 II
- Member 3: 6x6 =
- Member 4: 3x6 II
- Member 5: 4x6 II
- Member 6: 4x6 II
- Member 7: 3x6 FP
- Member 8: 6x6 =
- Member 9: 3x6 II
- Member 10: 6x6 =
- Member 11: 3x6 II
- Member 12: 3x6 FP
- Member 13: 5x10 =
- Member 14: 3x6 FP
- Member 15: 6x6 =
- Member 16: 3x6 II
- Member 17: 5x10 =
- Member 18: 3x6 II
- Member 19: 3x6 II
- Member 20: 6x6 =
- Member 21: 3x6 II
- Member 22: 6x6 =
- Member 23: 3x6 II
- Member 24: 6x6 =
- Member 25: 3x6 II
- Member 26: 6x6 =
- Member 27: 3x6 II
- Member 28: 6x6 =
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- Member 232: 6x6 =
- Member 233: 3x6 II
- Member 234: 6x6 =
- Member 235: 3x6 II
- Member 236: 6x6 =
- Member 237: 3x6 II
- Member 238: 6x6 =
- Member 239: 3x6 II
- Member 2

Plate Offsets (X, Y): [1:Edge,0-3-0], [6:0-3-0,Edge], [7:0-3-0,Edge], [10:0-1-8,Edge], [10:0-1-8,0-0-8], [12:0-3-8,Edge], [14:0-3-0,Edge], [18:0-4-12,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.13	15-16	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.20	15-16	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 140 lb	FT = 20%F, 11%E

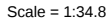
LOAD CASE(S) Standard



Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:39 Page: 1

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Page: 1



Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.11	15-16	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.18	15-16	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 130 lb	FT = 20%F, 11%E

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

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.

FORCES (lb) - Maximum Compression/Maximum Tension

BOT CHORD 18-19=0/0, 16-18=0/2638, 15-16=0/2737,
14-15=0/2737, 12-14=0/2737, 11-12=0/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

STATE OF MISSOURI
NATHANIEL
FOX
NUMBER
PE-2022042259
PROFESSIONAL ENGINEER

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



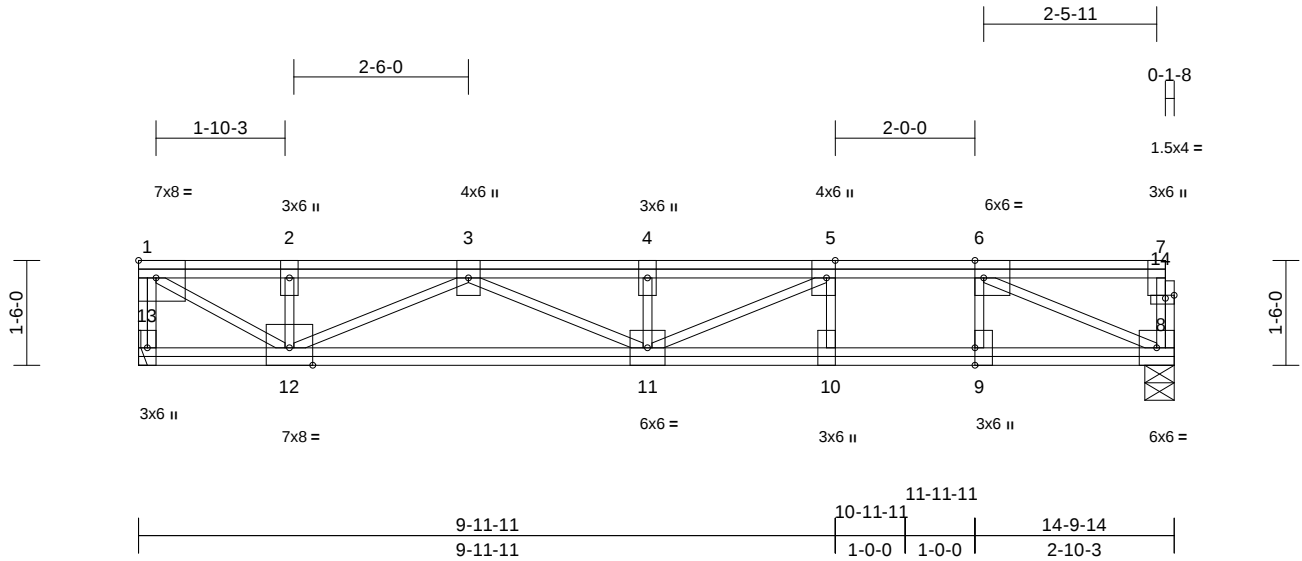
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F87	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:40 Page: 1

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08/24/2023



Scale = 1:33

Plate Offsets (X, Y): [1:Edge,0-3-0], [5:0-3-0,Edge], [6:0-1-8,Edge], [9:0-3-0,Edge], [14:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.11	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.17	10-11	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 119 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 8=0-5-0, 13= Mechanical
Max Grav 8=919 (LC 1), 13=919 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-13=-905/0, 7-8=-90/61, 1-2=-1328/0, 2-3=-1328/0, 3-4=-2778/0, 4-5=-2778/0, 5-6=-1974/0, 6-7=0/0

BOT CHORD 12-13=0/0, 11-12=0/2315, 10-11=0/1974, 9-10=0/1974, 8-9=0/1973

WEBS 5-10=-330/0, 6-9=0/281, 5-11=0/967, 4-11=-445/0, 3-11=0/515, 3-12=-1098/0, 2-12=-295/0, 1-12=0/1559, 6-8=-2151/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

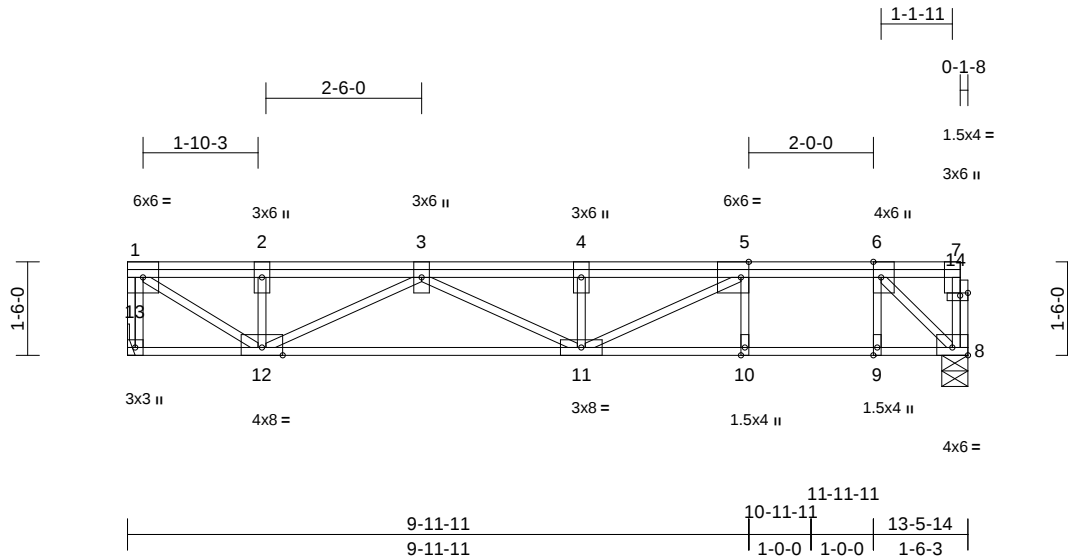
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F88	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:40 Page: 1

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08/24/2023



Scale = 1:37

Plate Offsets (X, Y): [5:0-1-8,Edge], [6:0-3-0,Edge], [8:Edge,0-1-8], [14:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.13	10-11	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.21	10-11	>759	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 91 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 8=0-5-0, 13= Mechanical
 Max Grav 8=831 (LC 1), 13=838 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 1-13=-833/0, 7-8=0/416, 1-2=-1158/0,
 2-3=-1158/0, 3-4=-2244/0, 4-5=-2244/0,
 5-6=-1268/0, 6-7=0/20

BOT CHORD 12-13=0/0, 11-12=0/1910, 10-11=0/1268,
 9-10=0/1268, 8-9=0/1268

WEBS 5-10=-111/0, 6-9=0/203, 5-11=0/1110,
 4-11=-560/0, 3-11=0/376, 3-12=-845/0,
 2-12=-310/0, 1-12=0/1378, 6-8=-1806/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F89	Floor	1	1	

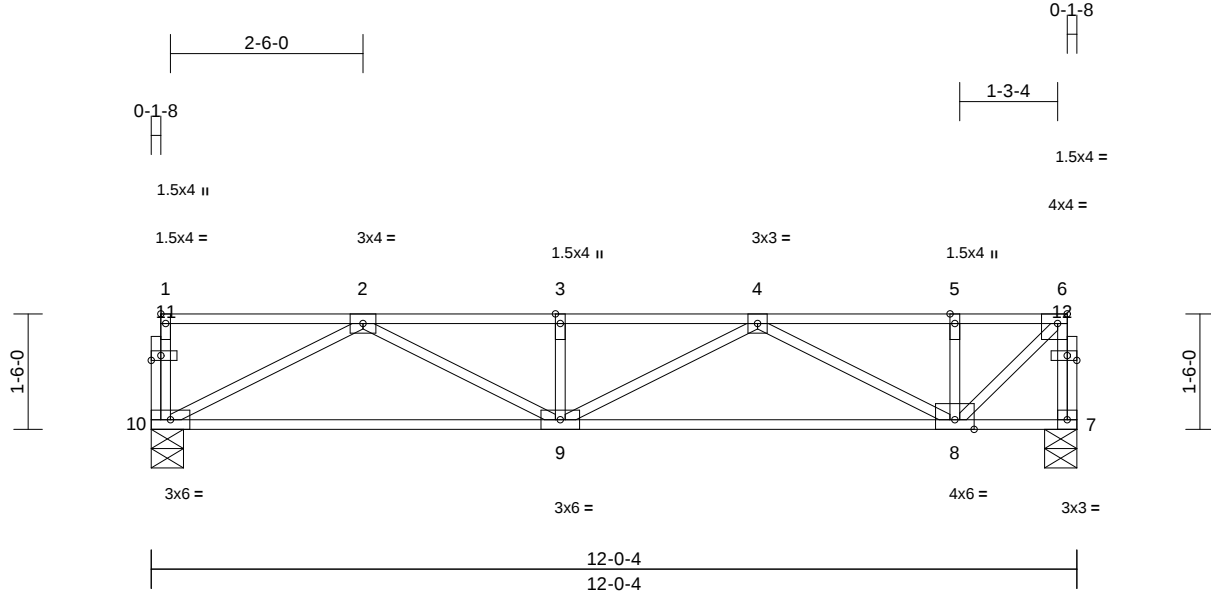
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158528027
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:40 Page: 1

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08/24/2023



Scale = 1:29.9

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.04	8-9	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.09	9-10	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 65 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 7=0-5-0, 10=0-5-0
Max Grav 7=738 (LC 1), 10=738 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-10=-116/0, 6-7=-742/0, 1-2=-5/0,
2-3=-1635/0, 3-4=-1635/0, 4-5=-740/0,
5-6=-740/0

BOT CHORD 9-10=0/1140, 8-9=0/1468, 7-8=0/34

WEBS 2-10=-1281/0, 2-9=0/562, 3-9=-277/0,
4-9=0/190, 4-8=-826/0, 5-8=-252/0,
6-8=0/991

NOTES

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

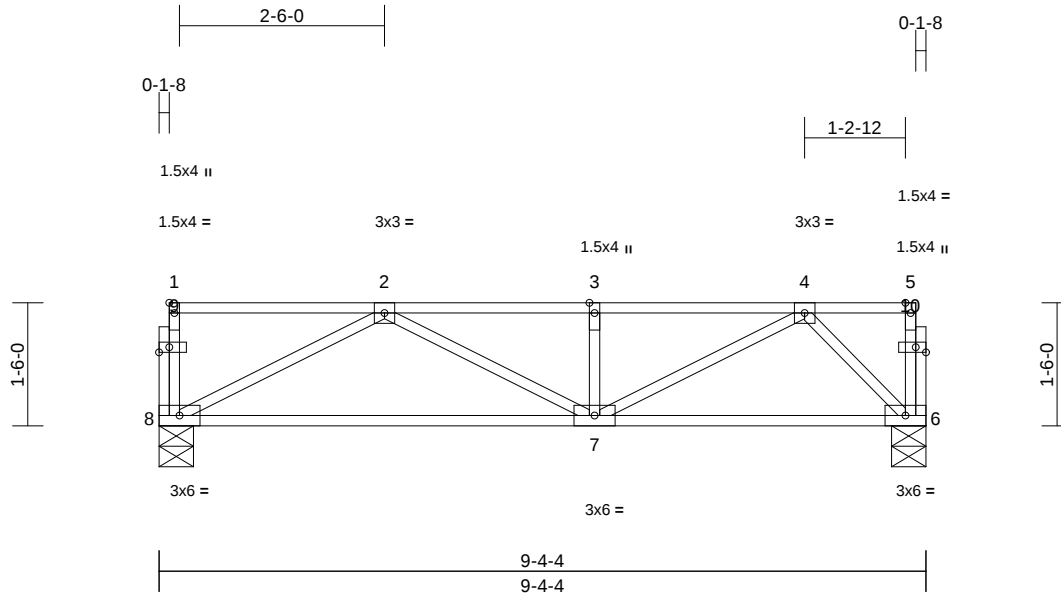
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F90	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:41 Page: 1

ID: qxr1laMRqgEUouQG08C3uNzIGW6-RfC?PsB70Hq3NSgPqnL8w3uiTXbCKWwCD0rJ4Z3C?F

08/24/2023



Scale = 1:28.1

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.02	7-8	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.07	7-8	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 6=0-5-0, 8=0-5-0

Max Grav 6=570 (LC 1), 8=570 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
TensionTOP CHORD 1-8=-116/0, 5-6=-35/0, 1-2=-5/0, 2-3=-1001/0,
3-4=-1001/0, 4-5=-2/0

BOT CHORD 7-8=0/817, 6-7=0/511

WEBS 2-8=-916/0, 2-7=0/209, 3-7=-286/0,
4-7=0/556, 4-6=-725/0**NOTES**

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

May 24, 2023

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

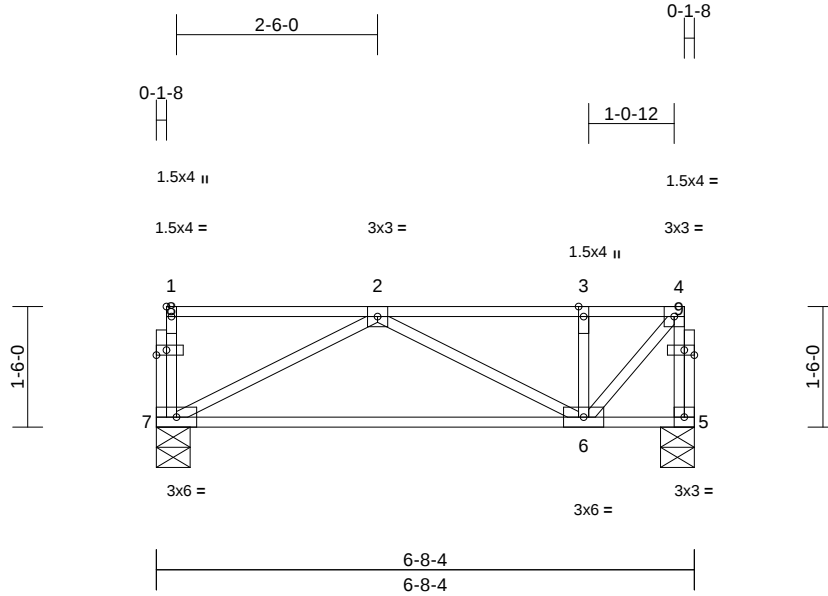
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F91	Floor	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:41 Page: 1

ID:Uz28isII?7cBh7YJEbcuBKzIGWB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwVrCDoi7J42JG41

08/24/2023



Scale = 1:28.6

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	0.00	6-7	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.06	6-7	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 5=0-5-0, 7=0-5-0

Max Grav 5=401 (LC 1), 7=401 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-7=-114/0, 4-5=-420/0, 1-2=-5/0, 2-3=-353/0,
3-4=-353/0

BOT CHORD 6-7=0/499, 5-6=0/19

WEBS 2-7=-557/0, 2-6=-166/0, 3-6=-231/0,
4-6=0/510

NOTES

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F92	Floor	1	1	Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:41 Page: 1

ID:fpgsRpDXQHr2zC49tKVUx3zIGWH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCrCDor7J4z3C?f

08/24/2023

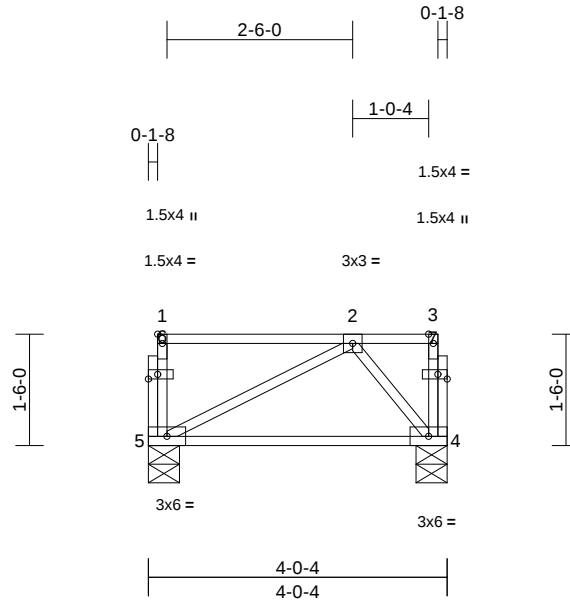


Plate Offsets (X, Y): [1:Edge,0-0-12], [6:0-1-8,0-0-12], [7:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.03	4-5	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%F, 11%E

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

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

Max Grav 4=232 (LC 1), 5=232 (LC 1)

TOP CHORD 1-5=-119/0, 3-4=0/2, 1-2=-5/0, 2-3=0/0
BOT CHORD 4-5=0/174
WEBS 2-5=-190/0, 2-4=-271/0

- 1) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
NATHANIEL
FOX
PROFESSIONAL ENGINEER
NUMBER
PE-2022042259

May 24, 2023



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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



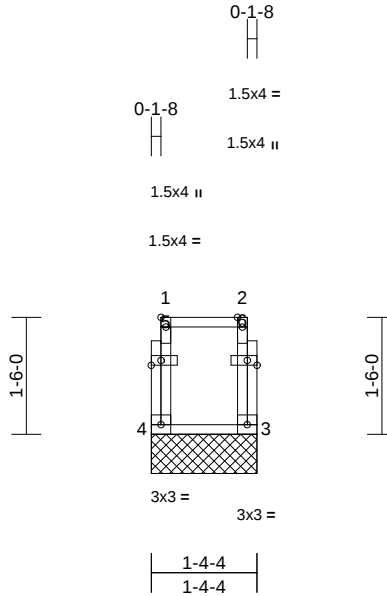
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F93	Floor Supported Gable	1	1	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:41 Page: 1
ID:MfAxG_W94TXH0Hf?U8SubqzIGXB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCD0rJ423C?r

08/24/2023



Scale = 1:29.5

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.00	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 11 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

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

REACTIONS (size) 3=1-4-4, 4=1-4-4
Max Grav 3=63 (LC 1), 4=63 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-4=-56/0, 2-3=-56/0, 1-2=-8/0
BOT CHORD 3-4=0/8

NOTES

- N/A
- 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 1-4-0 oc.
- This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at
10-00-00 oc and fastened to each truss with 3-10d
(0.131" X 3") nails. Strongbacks to be attached to walls
at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
P210577 - Floor	F94	Floor Supported Gable	1	1	

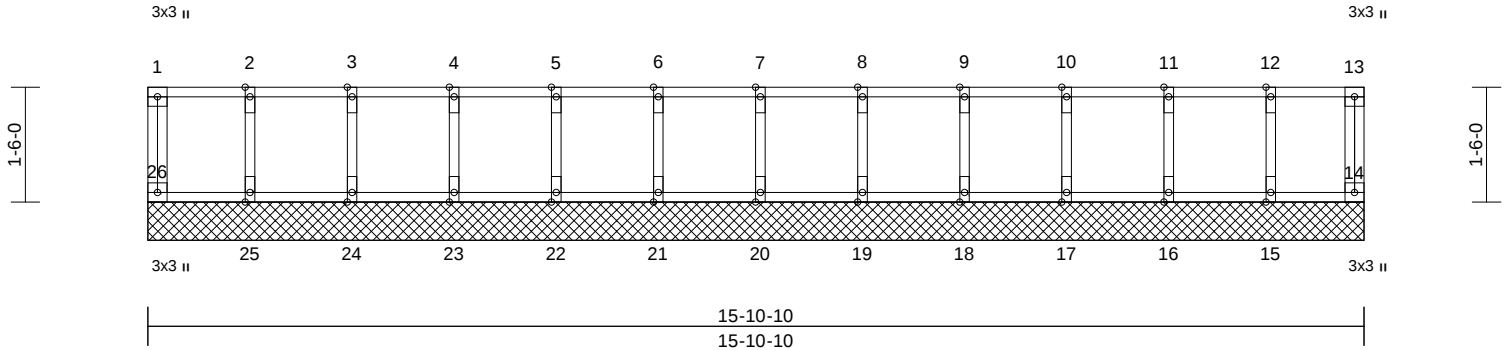
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158528032
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 16:25:41 Page: 1

ID:QNCm7vPiDiAvGlgypKY_TRzIGqi-RfC?PsB70Hq3NSgPqnL8w3uITXbGtWwCDoi73420C77

08/24/2023



Scale = 1:30.1

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 75 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS

(size)	14=15-10-10, 15=15-10-10, 16=15-10-10, 17=15-10-10, 18=15-10-10, 19=15-10-10, 20=15-10-10, 21=15-10-10, 22=15-10-10, 23=15-10-10, 24=15-10-10, 25=15-10-10, 26=15-10-10
Max Grav	14=65 (LC 1), 15=156 (LC 1), 16=172 (LC 1), 17=168 (LC 1), 18=169 (LC 1), 19=169 (LC 1), 20=169 (LC 1), 21=169 (LC 1), 22=169 (LC 1), 23=169 (LC 1), 24=170 (LC 1), 25=166 (LC 1), 26=71 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-26=-63/0, 13-14=-56/0, 1-2=-8/0, 2-3=-8/0, 3-4=-8/0, 4-5=-8/0, 5-6=-8/0, 6-7=-8/0, 7-8=-8/0, 8-9=-8/0, 9-10=-8/0, 10-11=-8/0, 11-12=-8/0, 12-13=-8/0
BOT CHORD	25-26=0/8, 24-25=0/8, 23-24=0/8, 22-23=0/8, 21-22=0/8, 20-21=0/8, 19-20=0/8, 18-19=0/8, 17-18=0/8, 16-17=0/8, 15-16=0/8, 14-15=0/8
WEBS	2-25=-149/0, 3-24=-152/0, 4-23=-151/0, 5-22=-151/0, 6-21=-151/0, 7-20=-151/0, 8-19=-151/0, 9-18=-151/0, 10-17=-150/0, 11-16=-154/0, 12-15=-141/0

NOTES

- All plates are 1.5x4 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 1-4-0 oc.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 24, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
P210577 - Floor	F95	Floor	11	1	Job Reference (optional)

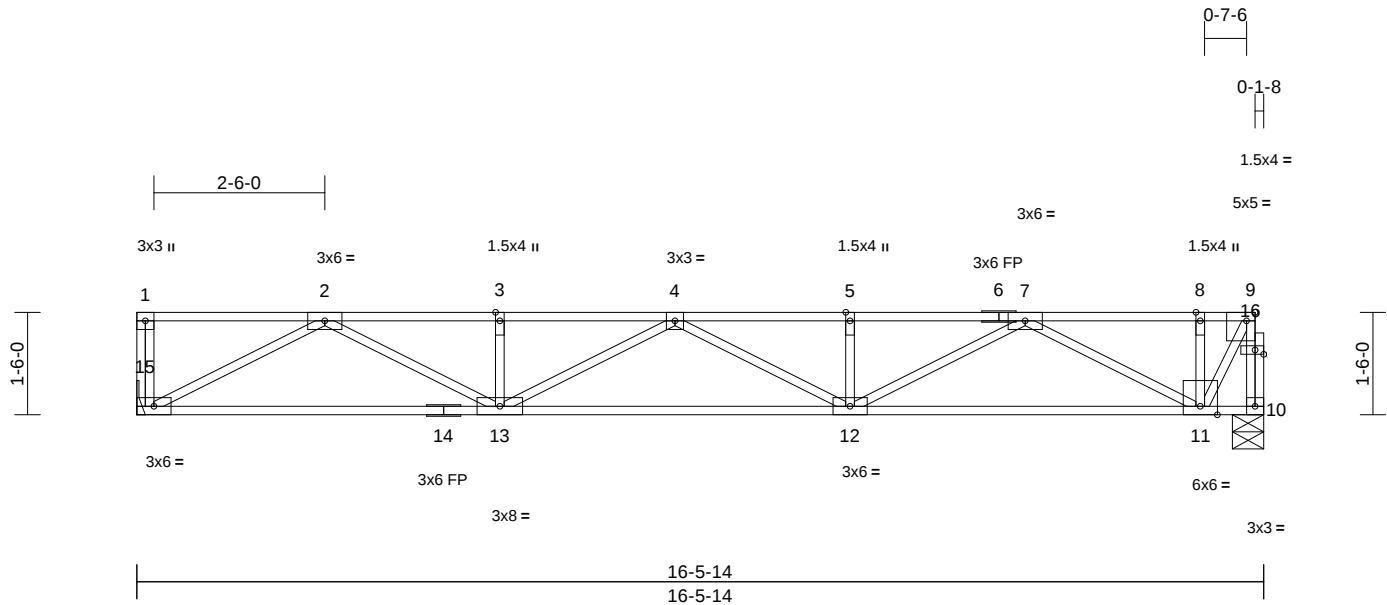
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
158528033
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:55:42 Page: 1

ID:ySApUNbkSdBDbou1lirI6pziGqS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKvtrCDoi7J4zJC9

08/24/2023



Scale = 1:33.7

Plate Offsets (X, Y): [9:0-1-8,Edge], [16:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	60.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.11	12-13	>999	720	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.19	12-13	>999	720		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.2(flat)

OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 10=0-5-8, 15= Mechanical

Max Grav 10=1021 (LC 1), 15=1028 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-15=-120/0, 9-10=-1048/0, 1-2=0/0, 2-3=-2699/0, 3-4=-2699/0, 4-5=-2869/0, 5-7=-2869/0, 7-8=-624/0, 8-9=-624/0

BOT CHORD 13-15=0/1680, 12-13=0/3059, 11-12=0/2024, 10-11=0/48

WEBS 2-15=-1897/0, 2-13=0/1156, 3-13=-277/0, 4-13=-409/0, 4-12=-215/0, 5-12=-286/0, 7-12=0/959, 7-11=-1588/0, 8-11=-249/0, 9-11=0/1217

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

May 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

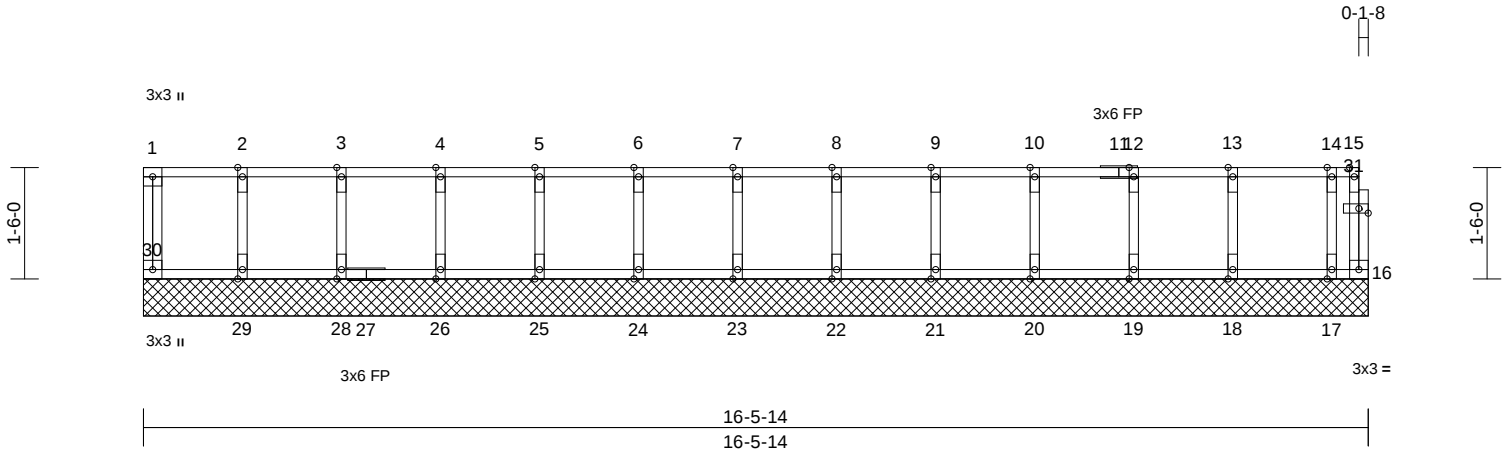
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158528034 LEE'S SUMMIT, MISSOURI
P210577 - Floor	F96	Floor Supported Gable	1	1		

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 23 15:25:42 Page: 1

ID:UX8srrmhYCyWF66h37VmBzIGqC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCD0rJ423C?r

08/24/2023



Scale = 1:31

Plate Offsets (X, Y): [31:0-1-8,0-0-12]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	16	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							
										Weight: 78 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS	(size)	16=16-5-14, 17=16-5-14, 18=16-5-14, 19=16-5-14, 20=16-5-14, 21=16-5-14, 22=16-5-14, 23=16-5-14, 24=16-5-14, 25=16-5-14, 26=16-5-14, 28=16-5-14, 29=16-5-14, 30=16-5-14
Max Grav		16=6 (LC 1), 17=111 (LC 1), 18=177 (LC 1), 19=167 (LC 1), 20=169 (LC 1), 21=169 (LC 1), 22=169 (LC 1), 23=169 (LC 1), 24=169 (LC 1), 25=169 (LC 1), 26=169 (LC 1), 28=169 (LC 1), 29=169 (LC 1), 30=68 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-30=-61/0, 15-16=0/6, 1-2=-6/0, 2-3=-6/0, 3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0, 7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-12=-6/0, 12-13=-6/0, 13-14=-6/0, 14-15=-6/0
BOT CHORD	29-30=0/6, 28-29=0/6, 26-28=0/6, 25-26=0/6, 24-25=0/6, 23-24=0/6, 22-23=0/6, 21-22=0/6, 20-21=0/6, 19-20=0/6, 18-19=0/6, 17-18=0/6, 16-17=0/6
WEBS	2-29=-151/0, 3-28=-152/0, 4-26=-151/0, 5-25=-151/0, 6-24=-151/0, 7-23=-151/0, 8-22=-151/0, 9-21=-151/0, 10-20=-152/0, 12-19=-149/0, 13-18=-158/0, 14-17=-110/0

NOTES

- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 24, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Chesterfield, MO 63017

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Technical drawing of a rectangular frame structure. The drawing includes a top view and a side elevation view.

Top View:

- The frame is composed of four vertical members (labeled 1, 2, 3, 4) and four horizontal members (labeled 5, 6, 7, 8).
- Dimensions:
 - Overall width: 4-2-0 (420 units)
 - Overall height: 1-6-0 (160 units)
 - Member 1: 0-1-8 (18 units)
 - Member 2: 1.5x4 II
 - Member 3: 1.5x4 II
 - Member 4: 0-1-8 (18 units)
 - Member 5: 3x3 =
 - Member 6: 1.5x4 II
 - Member 7: 1.5x4 II
 - Member 8: 1.5x4 II

Side Elevation View:

- Shows the profile of the frame with a height dimension of 1-6-0 (160 units).
- Indicates the thickness of the members.

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	25.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 23 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

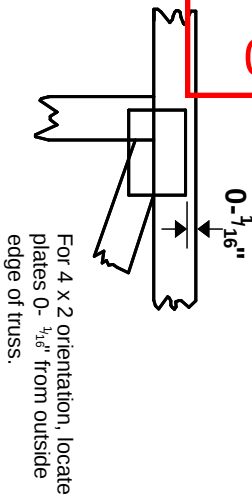


08/24/2023

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.



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

*** Plate location details available in MiTek 20120 software or upon request.**

PLATE SIZE

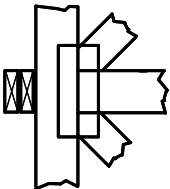
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



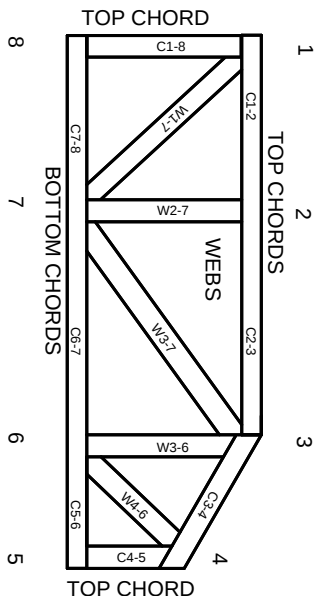
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.