Job	Truss	Truss Type	Qty	Ply	
21071052BF	F100	Floor	8	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Thu Jul 29 09:22:30 Page: 1
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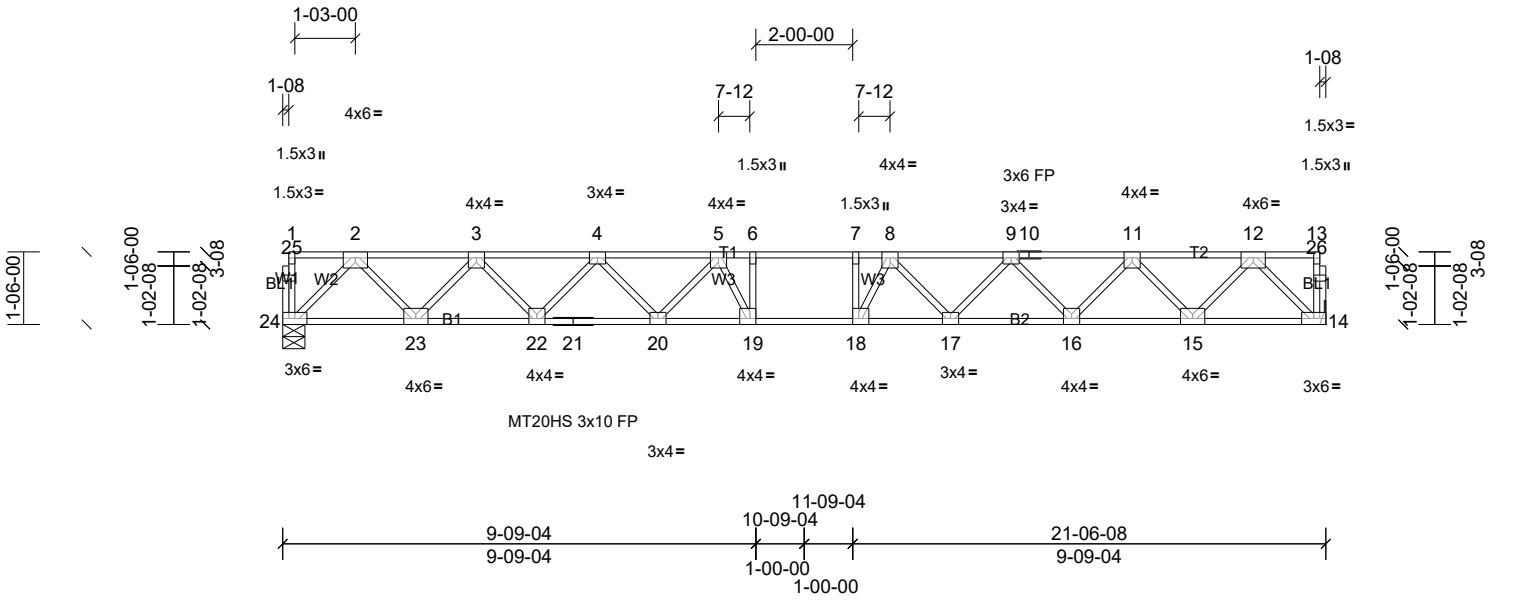

Scale = 1:47.8

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.31	18-19	>817	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(TL)	-0.49	18-19	>522	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 88 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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 2-2-0 oc bracing.

REACTIONS (size) 14= Mechanical, (min. 1-08), 24=5-08, (min. 1-08)
Max Grav 14=931 (LC 1), 24=931 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1548/0, 3-4=-2631/0, 4-5=-3307/0, 5-6=-3596/0, 6-7=-3596/0, 7-8=-3596/0, 8-9=-3307/0, 9-10=-2631/0, 10-11=-2631/0, 11-12=-1548/0
BOT CHORD 23-24=0/893, 22-23=0/2182, 21-22=0/3062, 20-21=0/3062, 19-20=0/3535, 18-19=0/3596, 17-18=0/3535, 16-17=0/3062, 15-16=0/2182, 14-15=0/893
WEBS 6-19=-343/122, 7-18=-343/122, 2-24=-1262/0, 2-23=0/973, 3-23=-943/0, 3-22=0/667, 4-22=-641/0, 4-20=0/370, 5-20=-402/0, 5-19=-219/503, 12-14=-1262/0, 12-15=0/973, 11-15=-943/0, 11-16=0/667, 9-16=-641/0, 9-17=0/370, 8-17=-402/0, 8-18=-219/503

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 4x4 MT20 unless otherwise indicated.
4) Bearings are assumed to be: Joint 24 SPF No.2 crushing capacity of 425 psi.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F101	Floor	10	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Thu Jul 29 09:22:31 Page: 1
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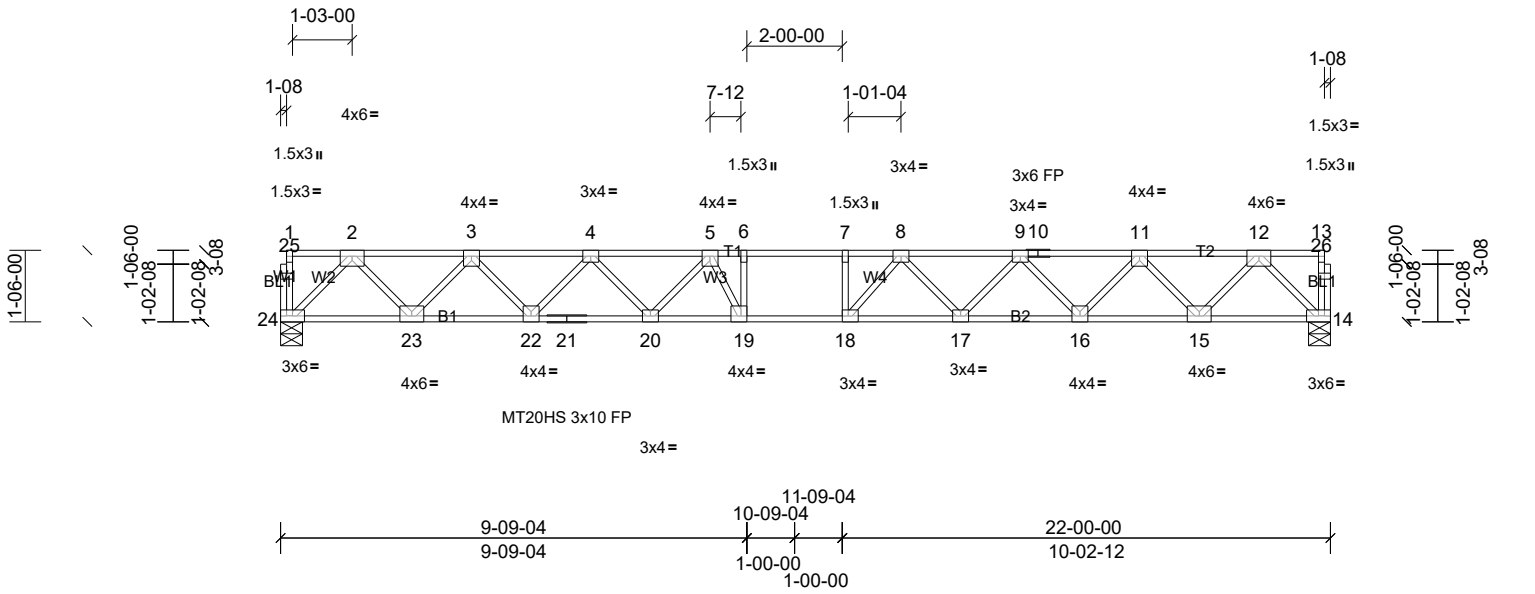


Scale = 1:48.5

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.31	18	>848	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(TL)	-0.48	18	>542	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	0.08	14	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 90 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF No.2(flat)

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

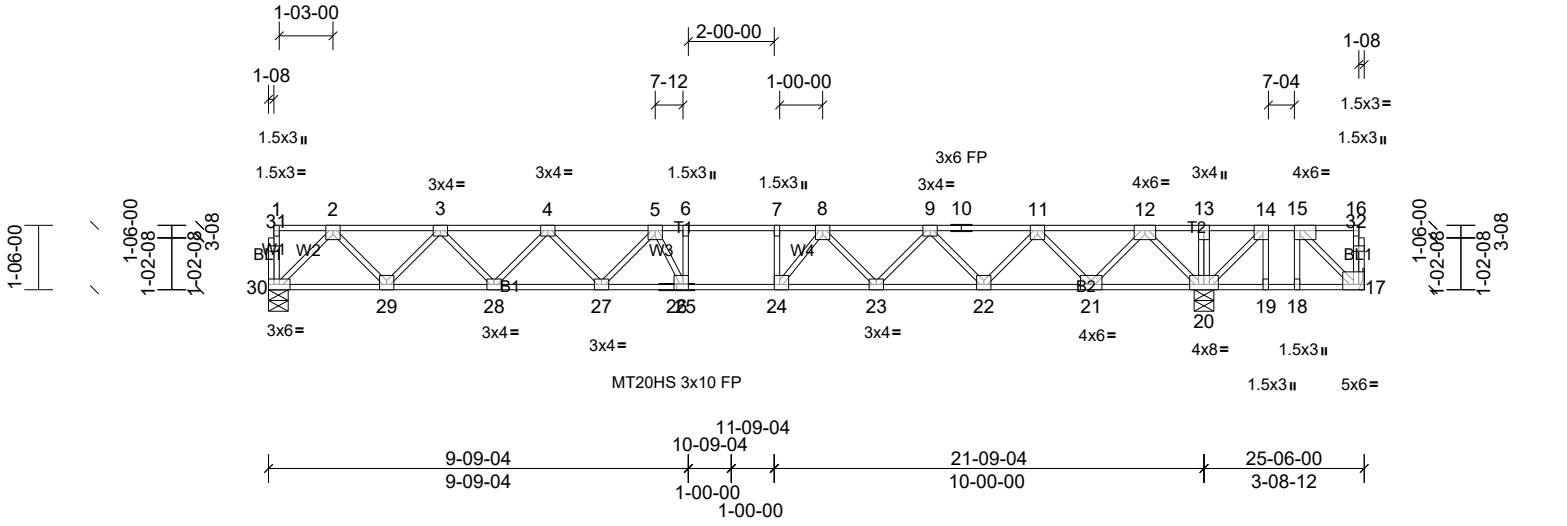
REACTIONS (size) 14=5-08, (min. 1-08), 24=5-08, (min. 1-08)
Max Grav 14=951 (LC 1), 24=951 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1586/0, 3-4=-2706/0, 4-5=-3416/0, 5-6=-3752/0, 6-7=-3752/0, 7-8=-3752/0, 8-9=-3421/0, 9-10=-2705/0, 10-11=-2705/0, 11-12=-1586/0
BOT CHORD 23-24=0/913, 22-23=0/2239, 21-22=0/3155, 20-21=0/3155, 19-20=0/3668, 18-19=0/3752, 17-18=0/3662, 16-17=0/3156, 15-16=0/2238, 14-15=0/914
WEBS 6-19=-349/87, 2-24=-1290/0, 2-23=0/1000, 3-23=-970/0, 3-22=0/695, 4-22=-667/0, 4-20=0/390, 5-20=-443/0, 5-19=-193/543, 12-14=-1290/0, 12-15=0/1000, 11-15=-969/0, 11-16=0/694, 9-16=-670/0, 9-17=0/393, 8-17=-394/0, 8-18=-177/468

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All bearings are assumed to be SPF 2100F 1.8E crushing capacity of 525 psi.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F102	Floor	2	1	Job Reference (optional)



Scale = 1:53.9

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.25	25-27	>999	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(TL)	-0.39	25-27	>666	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horiz(TL)	0.07	20	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 107 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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 2-2-0 oc bracing.

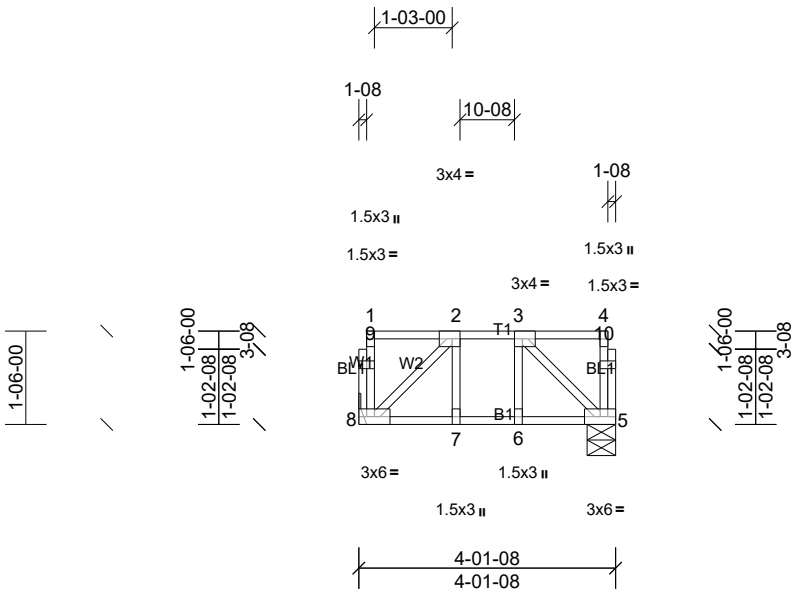
REACTIONS (size) 17= Mechanical, (min. 1-08), 20=5-08, (min. 1-08), 30=5-08, (min. 1-08)
Max Uplift 17=-641 (LC 3)
Max Grav 17=-35 (LC 4), 20=1909 (LC 1), 30=834 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1364/0, 3-4=-2269/0, 4-5=-2780/0, 5-6=-2846/0, 6-7=-2846/0, 7-8=-2846/0, 8-9=-2242/0, 9-10=-1344/0, 10-11=-1344/0, 12-13=0/1834, 13-14=0/1834, 14-15=0/860
BOT CHORD 29-30=0/797, 28-29=0/1910, 27-28=0/2615, 26-27=0/2903, 25-26=0/2903, 24-25=0/2846, 23-24=0/2595, 22-23=0/1890, 21-22=0/777, 20-21=-790/0, 19-20=-860/0, 18-19=-860/0, 17-18=-860/0
WEBS 7-24=-378/0, 2-30=-1125/0, 2-29=0/844, 3-29=-811/0, 3-28=0/534, 4-28=-515/0, 4-27=0/267, 5-27=-262/0, 5-25=-374/295, 12-20=-1485/0, 12-21=0/1153, 11-21=-1115/0, 11-22=0/847, 9-22=-816/0, 9-23=0/526, 8-23=-531/0, 8-24=0/626, 14-20=-1421/0, 15-17=0/1198, 14-19=0/392, 15-18=-363/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 4x4 MT20 unless otherwise indicated.
4) Bearings are assumed to be: Joint 30 SPF No.2 crushing capacity of 425 psi, Joint 20 SPF No.2 crushing capacity of 425 psi.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 641 lb uplift at joint 17.
7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) 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.
9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F103	Floor	8	1	Job Reference (optional)



Scale = 1:37.2

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	0.00	7-8	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(TL)	0.00	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 21 lb	FT = 20%F, 11%E

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

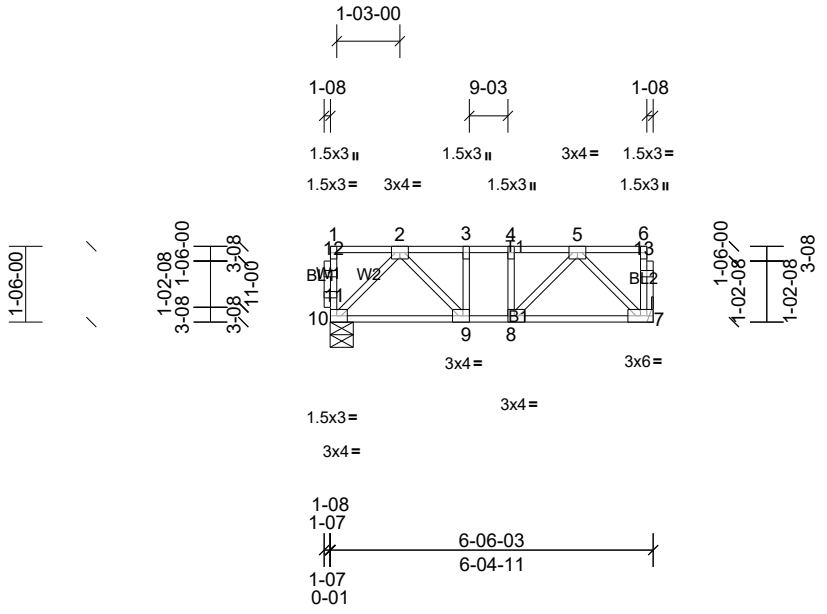
REACTIONS (size) 5=5-08, (min. 1-08), 8= Mechanical, (min. 1-08)
Max Grav 5=165 (LC 1), 8=165 (LC 1)

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

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F106	Floor	1	1	Job Reference (optional)



Scale = 1:45.8

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	-0.01	7-8	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(TL)	-0.01	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 30 lb	FT = 20%F, 11%E

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

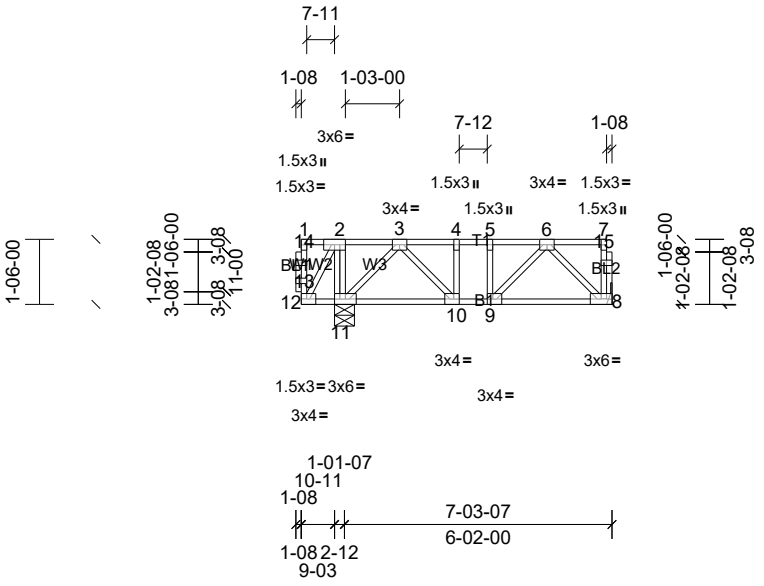
REACTIONS (size) 7= Mechanical, (min. 1-08), 10=5-08, (min. 1-08)
Max Grav 7=268 (LC 1), 10=273 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-308/0, 3-4=-308/0, 4-5=-308/0
BOT CHORD 8-9=0/308
WEBS 5-7=-307/0, 2-10=-307/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 10 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F107	Floor	1	1	Job Reference (optional)



Scale = 1:53.3

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	-0.01	8-9	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.10	Vert(TL)	-0.01	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 37 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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: 11-12.

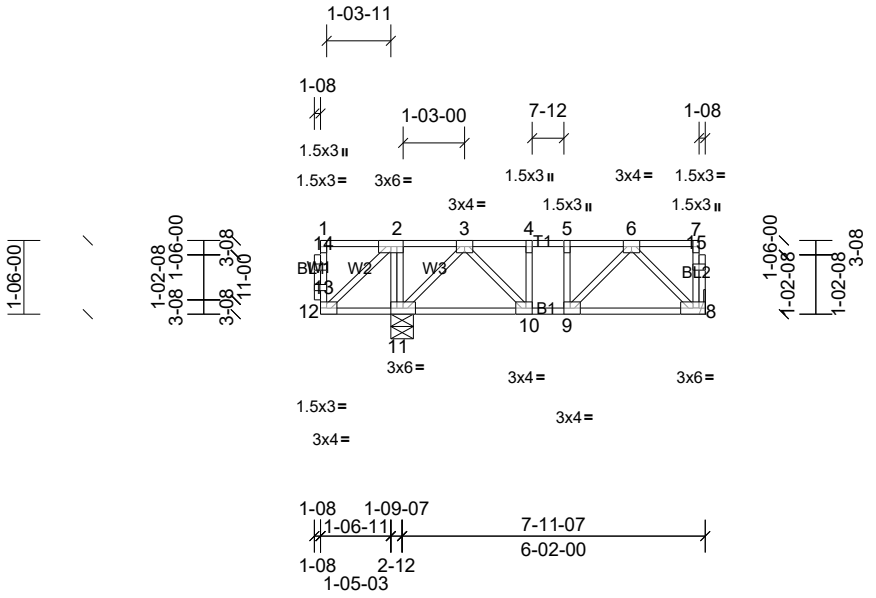
REACTIONS (size) 8= Mechanical, (min. 1-08), 11=5-08, (min. 1-08)
Max Grav 8=264 (LC 4), 11=348 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-301/0, 4-5=-301/0, 5-6=-301/0
BOT CHORD 9-10=0/301
WEBS 3-11=-296/0, 6-8=-302/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 11 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F108	Floor	1	1	Job Reference (optional)



Scale = 1:47.1

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	-0.01	8-9	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.10	Vert(TL)	-0.01	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 39 lb	FT = 20%F, 11%E

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

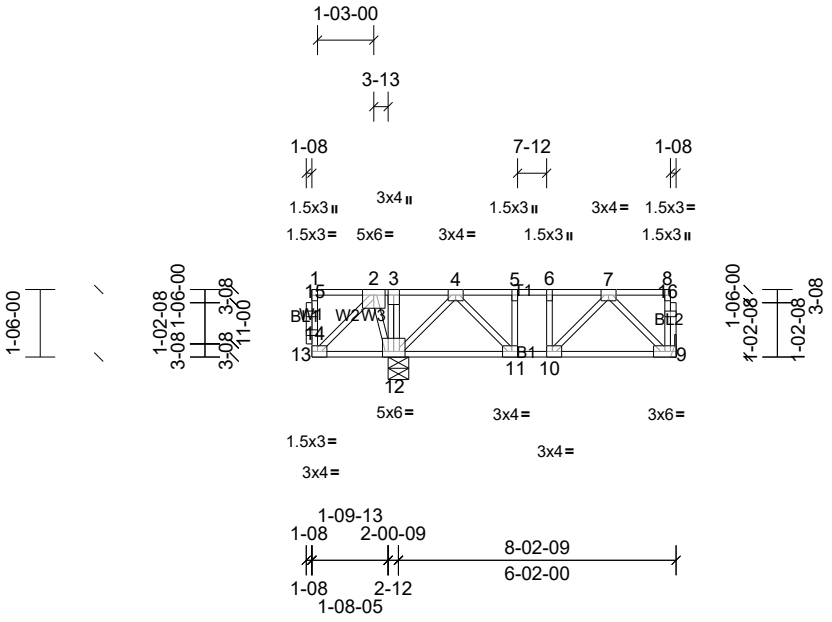
REACTIONS (size) 8= Mechanical, (min. 1-08), 11=5-08, (min. 1-08)
Max Grav 8=261 (LC 4), 11=417 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-294/0, 4-5=-294/0, 5-6=-294/0
BOT CHORD 9-10=0/294
WEBS 3-11=-302/0, 6-8=-298/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 11 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F109	Floor	1	1	Job Reference (optional)



Scale = 1:51.4

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	-0.01	9-10	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.10	Vert(TL)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 41 lb	FT = 20%F, 11%E

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

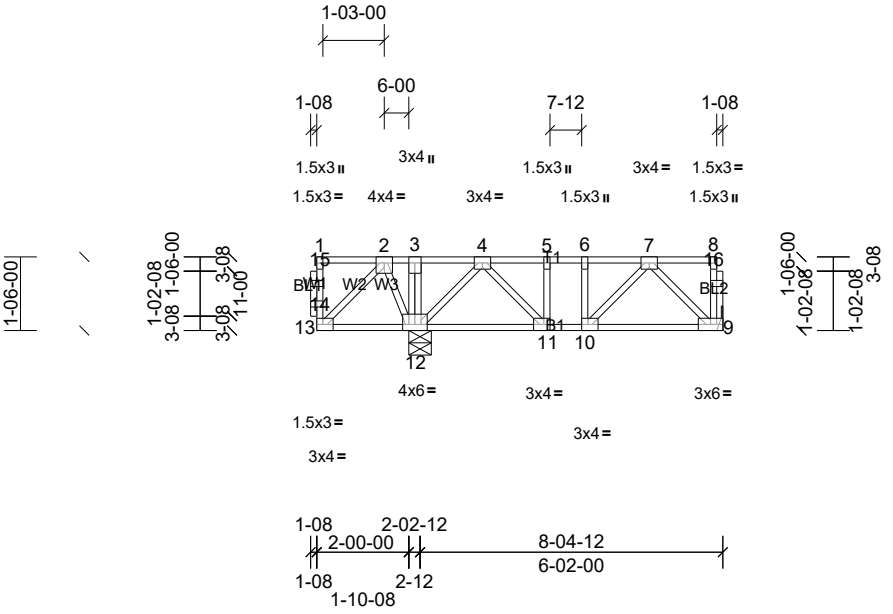
REACTIONS (size) 9= Mechanical, (min. 1-08), 12=5-08, (min. 1-08)
Max Grav 9=259 (LC 4), 12=448 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-289/0, 5-6=-289/0, 6-7=-289/0
BOT CHORD 10-11=0/289
WEBS 4-12=-321/0, 7-9=-294/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 12 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F110	Floor	2	1	Job Reference (optional)



Scale = 1:47.1

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	-0.01	9-10	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.10	Vert(TL)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 41 lb	FT = 20%F, 11%E

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

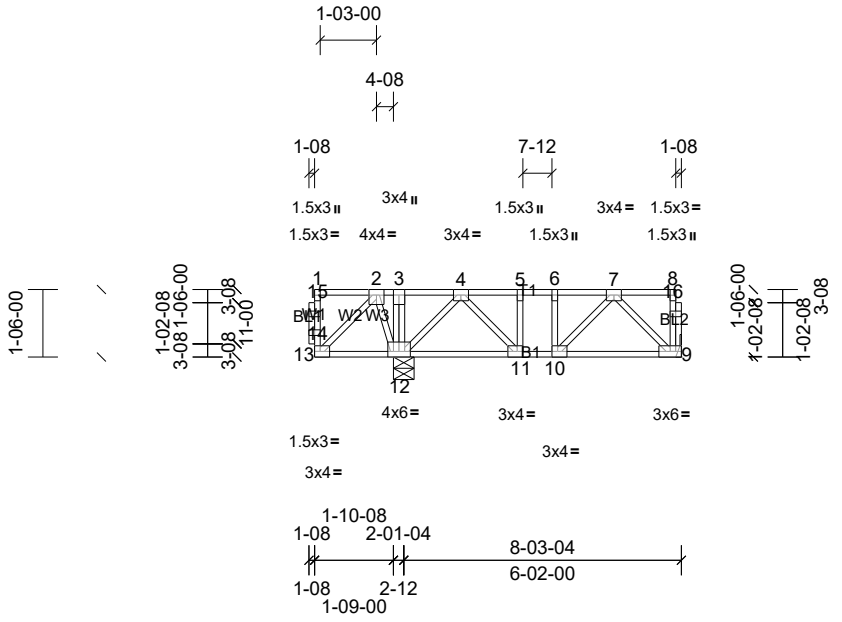
REACTIONS (size) 9= Mechanical, (min. 1-08), 12=5-08, (min. 1-08)
Max Grav 9=257 (LC 4), 12=468 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-286/0, 5-6=-286/0, 6-7=-286/0
BOT CHORD 10-11=0/286
WEBS 4-12=-329/0, 7-9=-293/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 12 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F111	Floor	1	1	Job Reference (optional)



Scale = 1:51.4

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	-0.01	9-10	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.10	Vert(TL)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 41 lb	FT = 20%F, 11%E

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

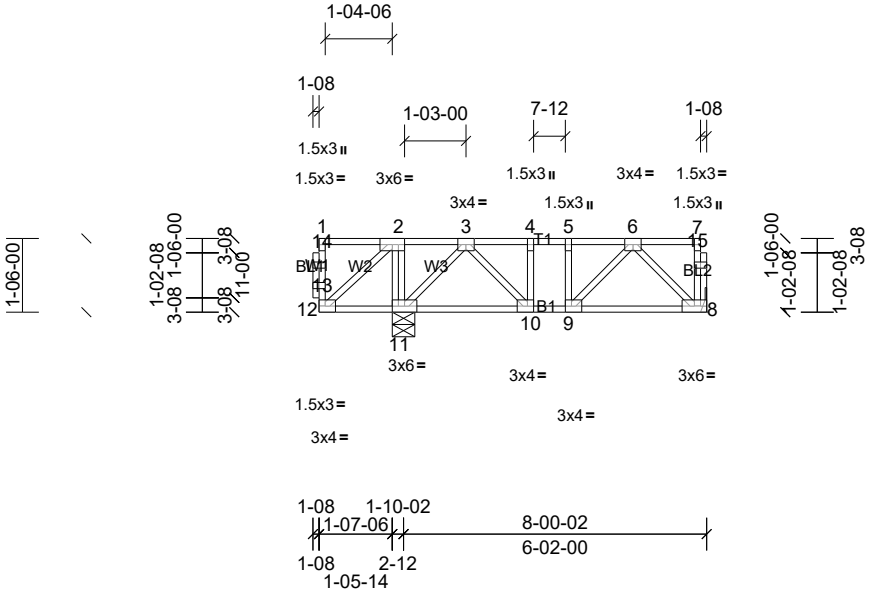
REACTIONS (size) 9= Mechanical, (min. 1-08), 12=5-08, (min. 1-08)
Max Grav 9=258 (LC 4), 12=454 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-288/0, 5-6=-288/0, 6-7=-288/0
BOT CHORD 10-11=0/288
WEBS 4-12=-323/0, 7-9=-294/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 12 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F112	Floor	1	1	Job Reference (optional)



Scale = 1:47.1

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	-0.01	8-9	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.10	Vert(TL)	-0.02	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 39 lb	FT = 20%F, 11%E

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

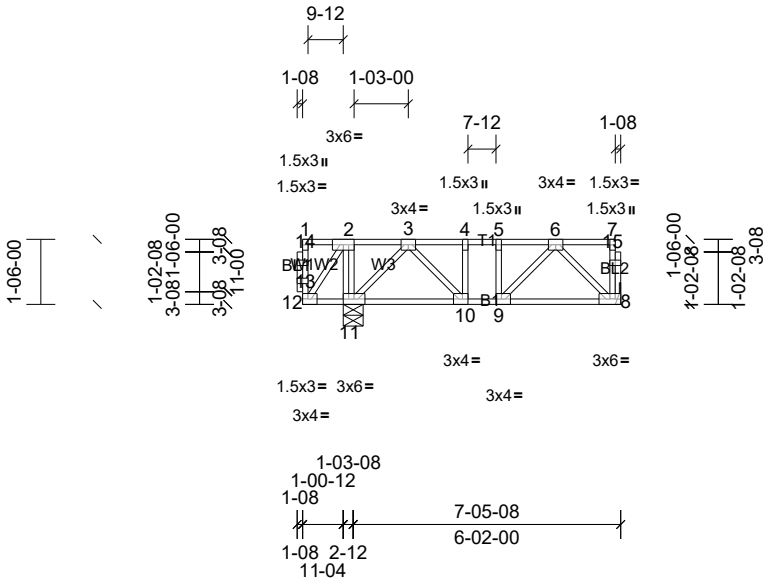
REACTIONS (size) 8= Mechanical, (min. 1-08), 11=5-08, (min. 1-08)
Max Grav 8=261 (LC 4), 11=424 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-293/0, 4-5=-293/0, 5-6=-293/0
BOT CHORD 9-10=0/293
WEBS 3-11=-302/0, 6-8=-297/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 11 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F113	Floor	1	1	Job Reference (optional)



Scale = 1:53.3

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	-0.01	8-9	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.10	Vert(TL)	-0.01	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 37 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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: 11-12.

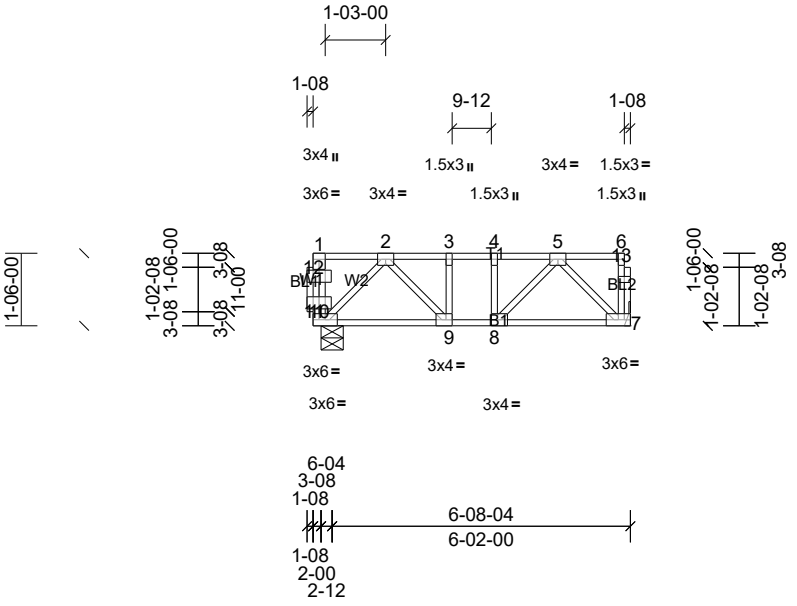
REACTIONS (size) 8= Mechanical, (min. 1-08), 11=5-08, (min. 1-08)
Max Grav 8=263 (LC 4), 11=365 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-300/0, 4-5=-300/0, 5-6=-300/0
BOT CHORD 9-10=0/300
WEBS 3-11=-298/0, 6-8=-301/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 11 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F114	Floor	1	1	Job Reference (optional)



Scale = 1:47.8

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	-0.01	7-8	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(TL)	-0.01	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 32 lb	FT = 20%F, 11%E

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

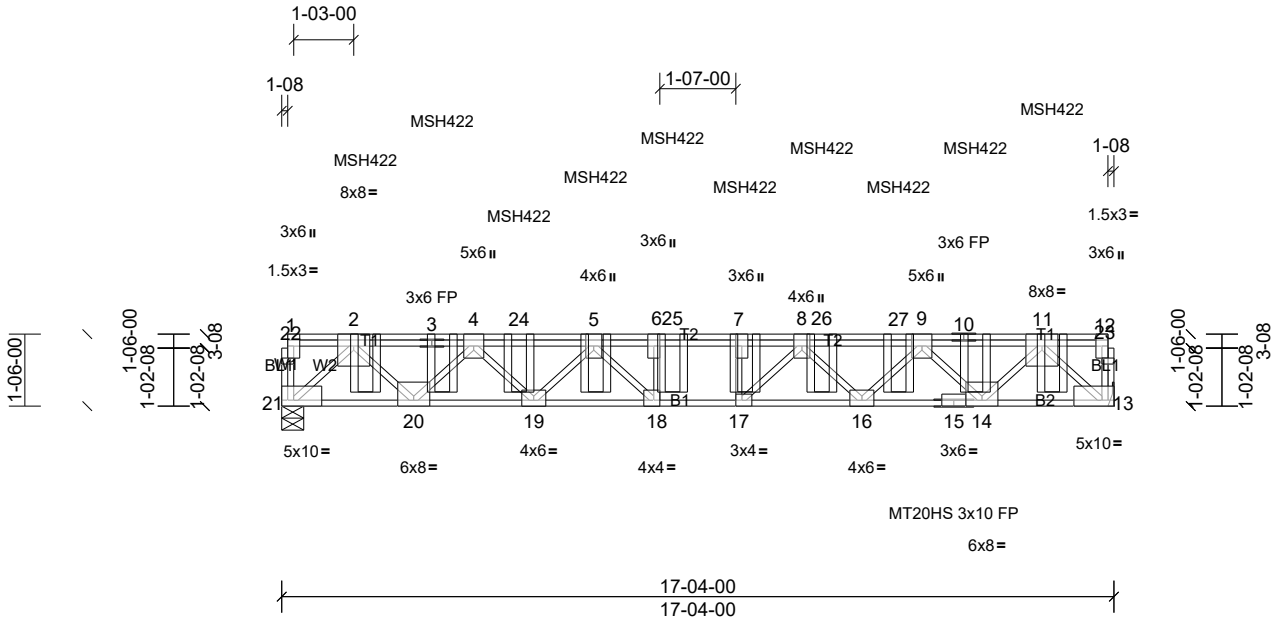
REACTIONS (size) 7= Mechanical, (min. 1-08), 10=5-08, (min. 1-08)
Max Grav 7=272 (LC 1), 10=277 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-319/0, 3-4=-319/0, 4-5=-319/0
BOT CHORD 8-9=0/319
WEBS 5-7=-314/0, 2-10=-317/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 10 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F115	Floor Girder	1	1	Job Reference (optional)



Scale = 1:48.2

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.25	16-17	>816	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(TL)	-0.38	16-17	>536	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horiz(TL)	0.10	13	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 89 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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.

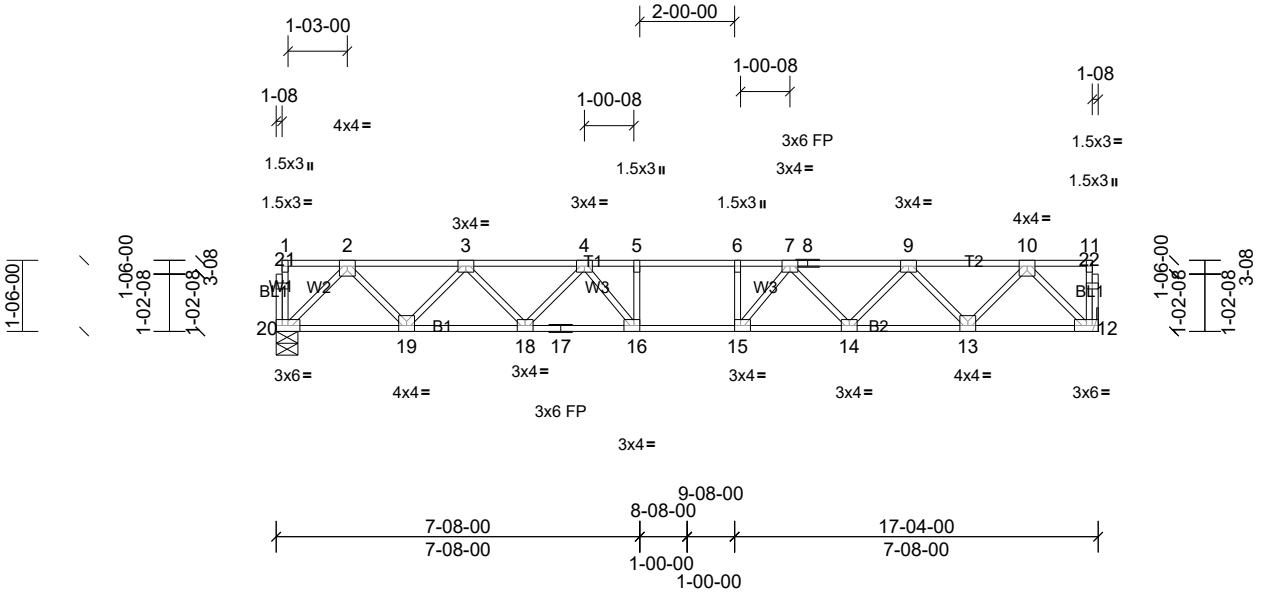
REACTIONS (size) 13= Mechanical, (min. 1-08), 21=5-08, (min. 1-08)
Max Grav 13=1901 (LC 4), 21=1863 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3190/0, 3-4=-3190/0, 4-24=-5137/0, 5-24=-5137/0, 5-6=-5984/0, 6-25=-5984/0, 7-25=-5984/0, 7-8=-5984/0, 8-26=-5203/0, 26-27=-5203/0, 9-27=-5203/0, 9-10=-3261/0, 10-11=-3261/0
BOT CHORD 20-21=0/1917, 19-20=0/4443, 18-19=0/5804, 17-18=0/5984, 16-17=0/5831, 15-16=0/4547, 14-15=0/4547, 13-14=0/1957
WEBS 11-13=-2703/0, 2-21=-2649/0, 11-14=0/1891, 2-20=0/1844, 9-14=-1865/0, 4-20=-1818/0, 9-16=0/1015, 4-19=0/1069, 8-16=-998/0, 5-19=-1056/0, 8-17=0/711, 5-18=0/749, 6-18=-485/0, 7-17=-465/0

NOTES
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 15 = 11%
4) Bearings are assumed to be: Joint 21 SPF 2100F 1.8E crushing capacity of 525 psi.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) 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.
8) Use USP MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 1-7-3 oc max. starting at 1-8-15 from the left end to 16-0-9 to connect truss(es) to back face of top chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 13-21=-8, 1-12=-80
Concentrated Loads (lb)
Vert: 10=-199 (B), 3=-200 (B), 11=-209 (B), 2=-204 (B), 5=-195 (B), 7=-193 (B), 24=-197 (B), 25=-193 (B), 26=-194 (B), 27=-197 (B)

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F117	Floor	11	1	Job Reference (optional)



Scale = 1:48.8

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.14	16-18	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(TL)	-0.22	16-18	>950	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.05	12	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 71 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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= Mechanical, (min. 1-08), 20=5-08, (min. 1-08)
Max Grav 12=746 (LC 1), 20=746 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1197/0, 3-4=-1939/0, 4-5=-2308/0, 5-6=-2308/0, 6-7=-2308/0, 7-8=-1939/0, 8-9=-1939/0, 9-10=-1197/0
BOT CHORD 19-20=0/708, 18-19=0/1665, 17-18=0/2195, 16-17=0/2195, 15-16=0/2308, 14-15=0/2195, 13-14=0/1665, 12-13=0/708
WEBS 2-20=-999/0, 2-19=0/727, 3-19=-696/0, 3-18=0/406, 4-18=-381/0, 4-16=-72/419, 10-12=-999/0, 10-13=0/727, 9-13=-696/0, 9-14=0/406, 7-14=-381/0, 7-15=-72/419

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Bearings are assumed to be: Joint 20 SPF No.2 crushing capacity of 425 psi.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F119	Floor	3	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Thu Jul 29 09:22:33 Page: 1
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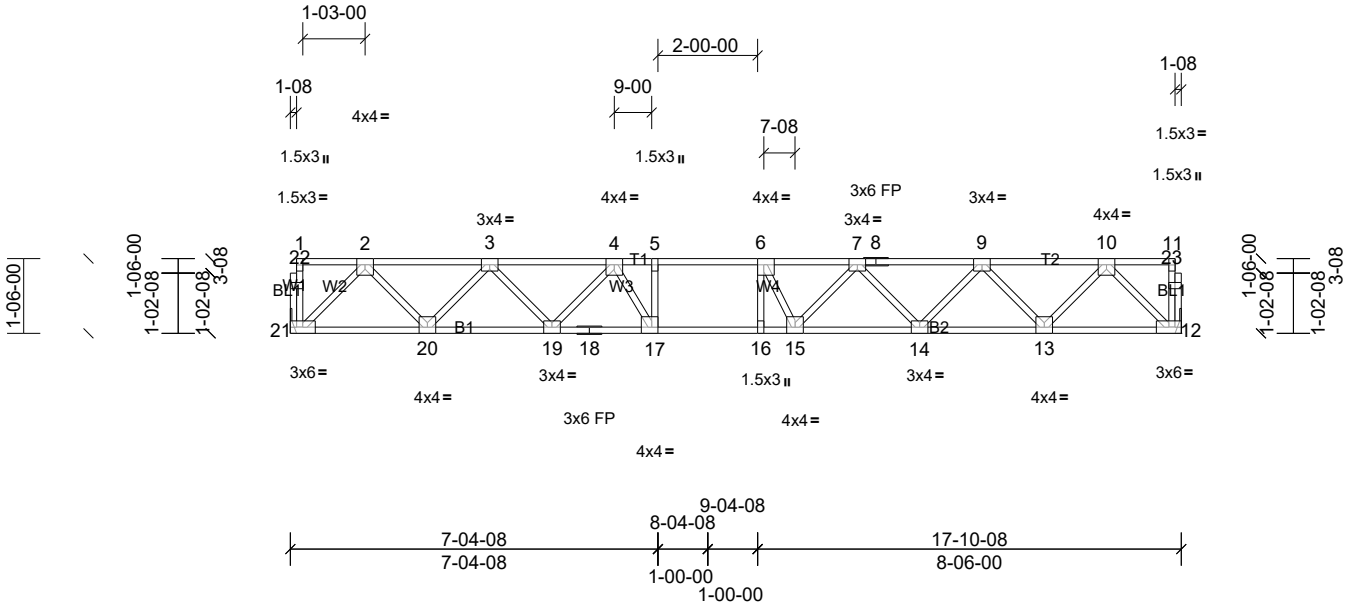


Scale = 1:46.4

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.17	16	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(TL)	-0.26	16	>799	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.06	12	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 74 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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:
2-2-0 oc bracing: 16-17.

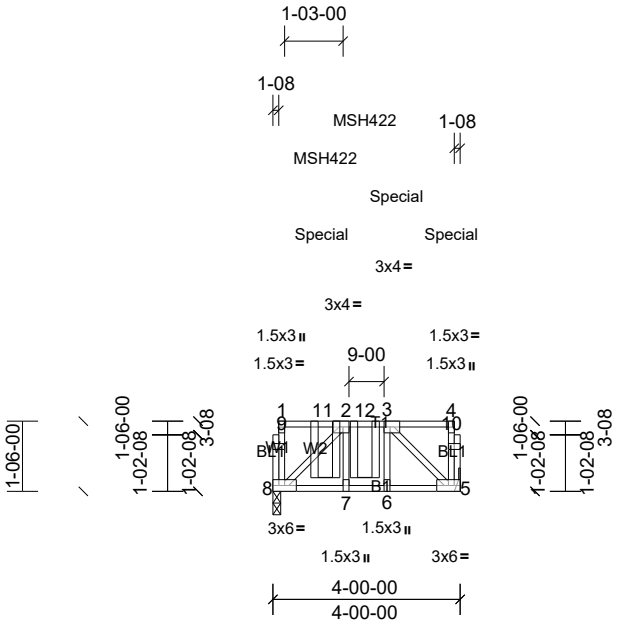
REACTIONS (size) 12= Mechanical, (min. 1-08), 21= Mechanical, (min. 1-08)
Max Grav 12=770 (LC 1), 21=770 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1244/0, 3-4=-2022/0, 4-5=-2449/0, 5-6=-2449/0, 6-7=-2423/0, 7-8=-2029/0, 8-9=-2029/0, 9-10=-1242/0
BOT CHORD 20-21=0/732, 19-20=0/1731, 18-19=0/2313, 17-18=0/2313, 16-17=0/2449, 15-16=0/2449, 14-15=0/2313, 13-14=0/1730, 12-13=0/732
WEBS 5-17=-300/0, 2-21=-1033/0, 2-20=0/761, 3-20=-724/0, 3-19=0/432, 4-19=-433/0, 4-17=-38/500, 10-12=-1034/0, 10-13=0/757, 9-13=-726/0, 9-14=0/445, 7-14=-422/0, 7-15=0/310, 6-15=-326/177

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 4x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F120	Floor Girder	1	1	Job Reference (optional)



Scale = 1:49.4

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.03	7-8	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(TL)	-0.04	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.15	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 21 lb	FT = 20%F, 11%E

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

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

REACTIONS (size) 5= Mechanical, (min. 1-08), 8=2-00, (min. 1-08)
Max Uplift 5=-130 (LC 9), 8=-402 (LC 10)
Max Grav 5=1312 (LC 4), 8=934 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-10=-742/0, 4-10=-742/0, 2-12=-673/328, 3-12=-673/328
BOT CHORD 7-8=-328/673, 6-7=-328/673, 5-6=-328/673
WEBS 3-5=-887/467, 2-8=-919/448, 3-6=0/253

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: Joint 8 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 402 lb uplift at joint 8 and 130 lb uplift at joint 5.
6) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) 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.
8) Use USP MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 0-10-2 oc max. starting at 1-1-7 from the left end to 1-11-9 to connect truss(es) to back face of top chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 705 lb up at 2-7-11, and 762 lb down at 3-9-12 on top chord. The design/selection of such connection device (s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 5-8=-8, 1-4=-80
Concentrated Loads (lb)
Vert: 4=-728 (B), 3=157 (F), 11=-549 (F=157, B=-706), 12=-706 (B)

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F121	Floor	2	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Thu Jul 29 09:22:33 Page: 1
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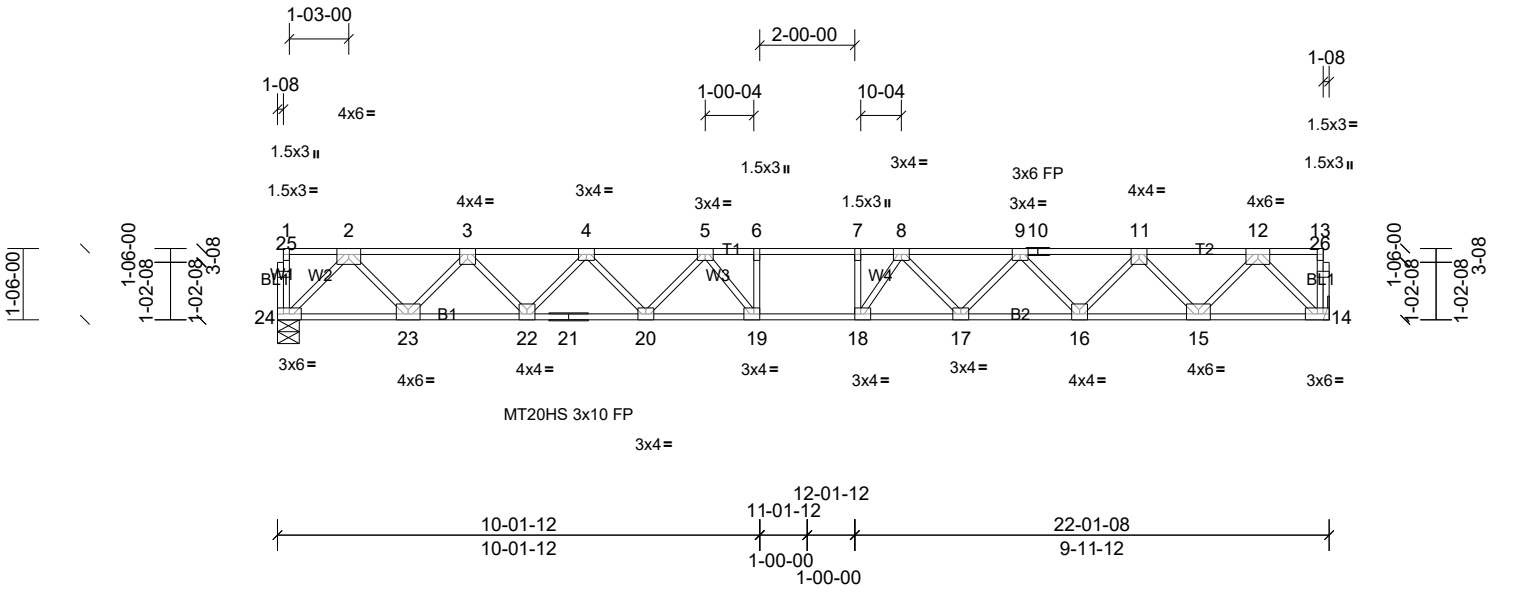

Scale = 1:48.7

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.31	18-19	>843	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(TL)	-0.49	18-19	>539	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	0.08	14	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 90 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF No.2(flat)

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

REACTIONS (size) 14= Mechanical, (min. 1-08), 24=5-08, (min. 1-08)
Max Grav 14=957 (LC 1), 24=957 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1597/0, 3-4=-2726/0, 4-5=-3449/0, 5-6=-3796/0, 6-7=-3796/0, 7-8=-3796/0, 8-9=-3448/0, 9-10=-2726/0, 10-11=-2726/0, 11-12=-1597/0
BOT CHORD 23-24=0/919, 22-23=0/2254, 21-22=0/3181, 20-21=0/3181, 19-20=0/3698, 18-19=0/3796, 17-18=0/3700, 16-17=0/3181, 15-16=0/2254, 14-15=0/919
WEBS 6-19=-268/47, 7-18=-300/60, 2-24=-1298/0, 2-23=0/1008, 3-23=-977/0, 3-22=0/702, 4-22=-677/0, 4-20=0/399, 5-20=-410/0, 5-19=-172/488, 12-14=-1298/0, 12-15=0/1008, 11-15=-977/0, 11-16=0/702, 9-16=-676/0, 9-17=0/397, 8-17=-427/0, 8-18=-175/510

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Bearings are assumed to be: Joint 24 SPF 2100F 1.8E crushing capacity of 525 psi.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F122	Floor	9	1	Job Reference (optional)

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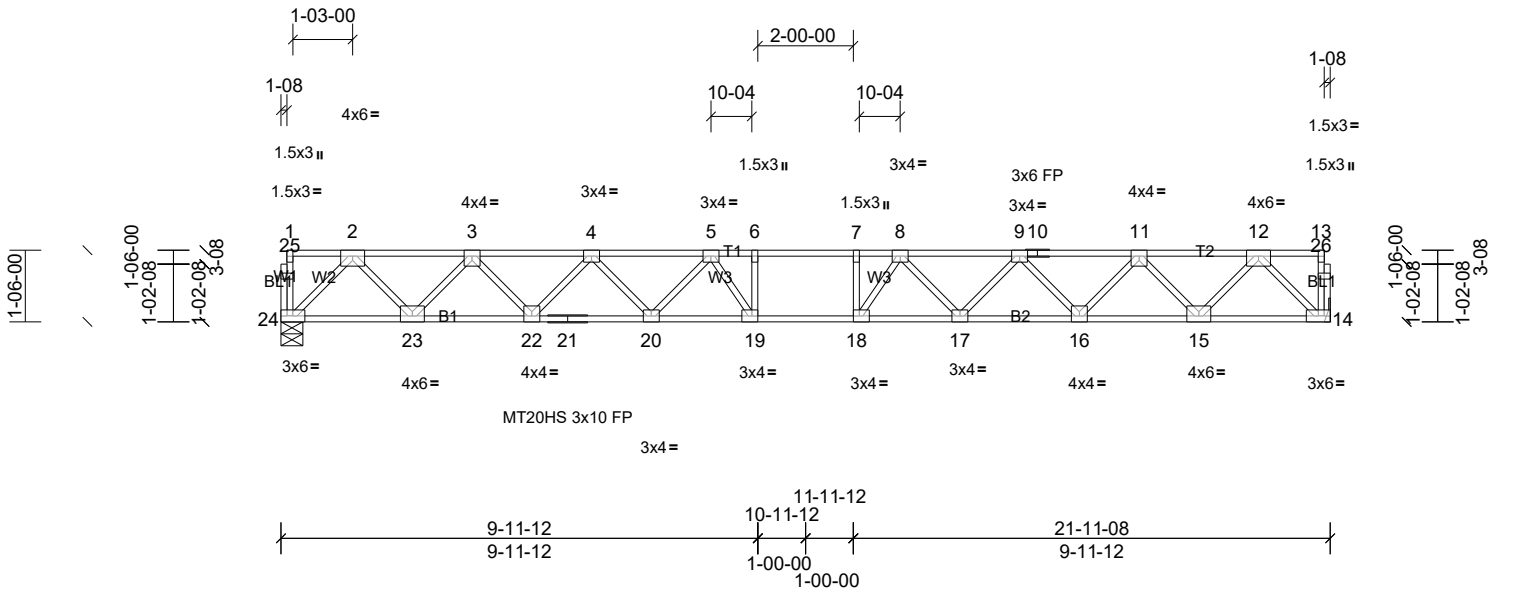


Scale = 1:48.4

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.30	18-19	>865	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(TL)	-0.47	18-19	>552	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	0.08	14	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 90 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF No.2(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

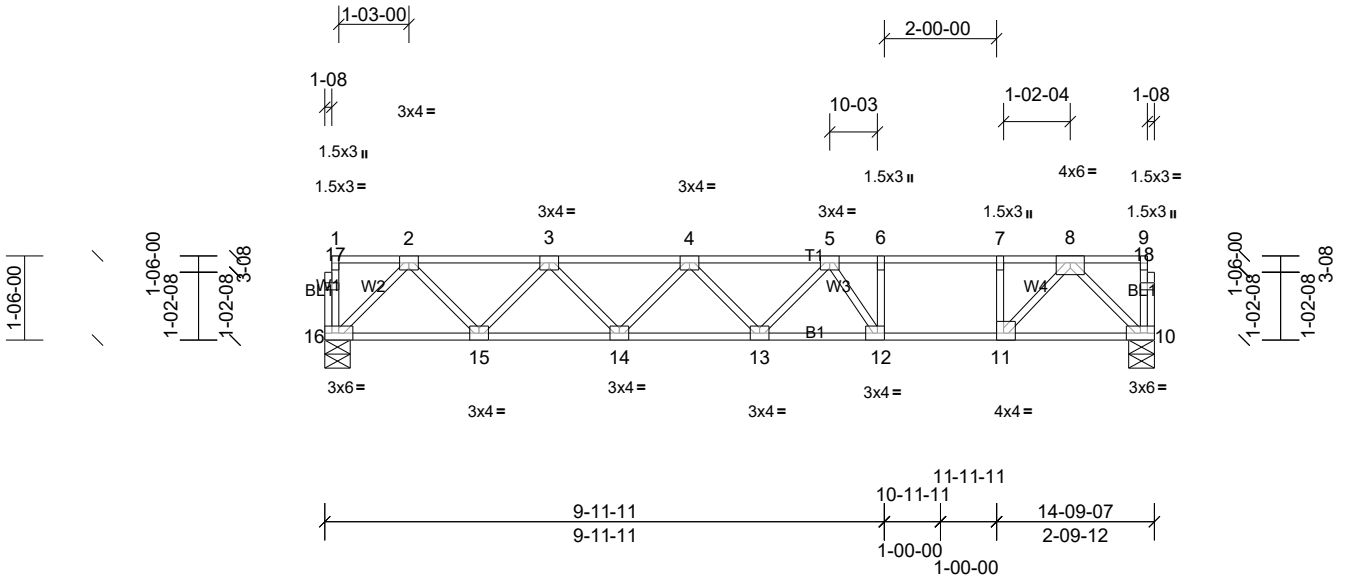
REACTIONS (size) 14= Mechanical, (min. 1-08), 24=5-08, (min. 1-08)
Max Grav 14=950 (LC 1), 24=950 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1583/0, 3-4=-2699/0, 4-5=-3408/0, 5-6=-3738/0, 6-7=-3738/0, 7-8=-3738/0, 8-9=-3408/0, 9-10=-2699/0, 10-11=-2699/0, 11-12=-1583/0
BOT CHORD 23-24=0/912, 22-23=0/2233, 21-22=0/3147, 20-21=0/3147, 19-20=0/3652, 18-19=0/3738, 17-18=0/3652, 16-17=0/3147, 15-16=0/2233, 14-15=0/912
WEBS 6-19=-291/65, 7-18=-291/65, 2-24=-1287/0, 2-23=0/998, 3-23=-967/0, 3-22=0/692, 4-22=-666/0, 4-20=0/388, 5-20=-416/0, 5-19=-181/493, 12-14=-1287/0, 12-15=0/998, 11-15=-967/0, 11-16=0/692, 9-16=-666/0, 9-17=0/388, 8-17=-416/0, 8-18=-181/493

LOAD CASE(S) Standard

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Bearings are assumed to be: Joint 24 SPF 2100F 1.8E crushing capacity of 525 psi.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F123	Floor	3	1	Job Reference (optional)



Scale = 1:41.2

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.22	12-13	>806	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(TL)	-0.33	12-13	>522	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.02	10	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 61 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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=5-08, (min. 1-08), 16=5-07, (min. 1-08)
Max Grav 10=634 (LC 1), 16=634 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-985/0, 3-4=-1518/0, 4-5=-1696/0, 5-6=-1248/0, 6-7=-1248/0, 7-8=-1248/0
BOT CHORD 15-16=0/597, 14-15=0/1346, 13-14=0/1692, 12-13=0/1596, 11-12=0/1248, 10-11=0/593
WEBS 6-12=0/363, 7-11=-534/0, 2-16=-843/0, 2-15=0/575, 3-15=-538/0, 3-14=0/256, 4-14=-259/0, 5-12=-668/0, 8-10=-833/0, 8-11=0/974

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) All bearings are assumed to be SPF 2100F 1.8E crushing capacity of 525 psi.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F124	Floor	1	1	Job Reference (optional)

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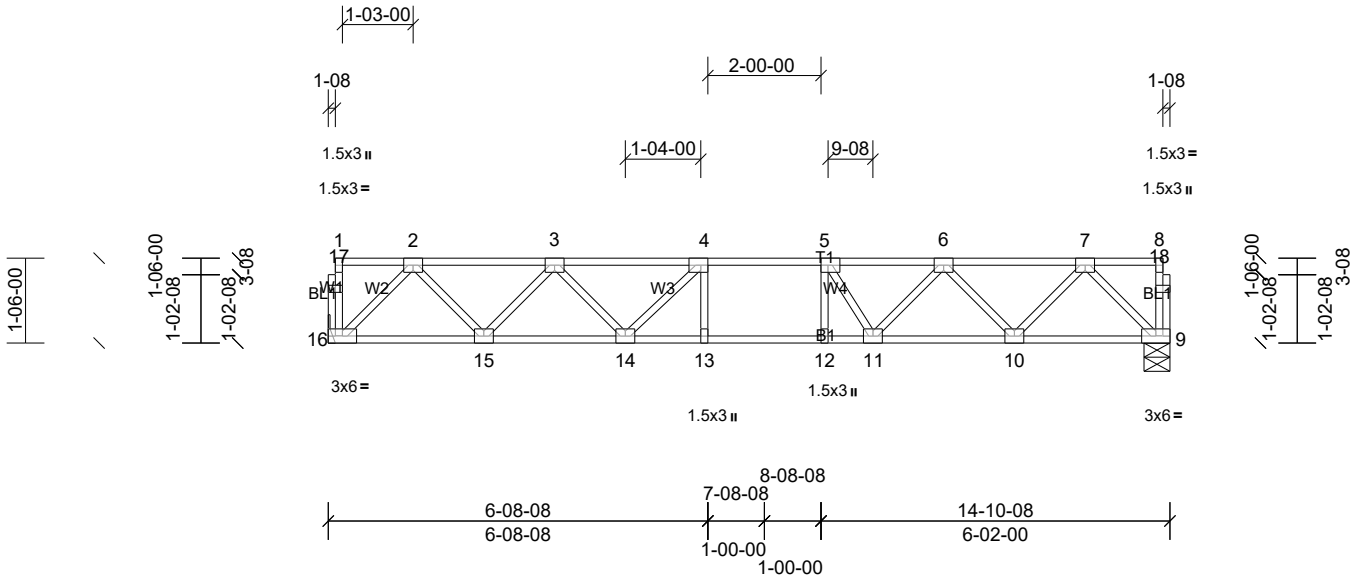

Scale = 1:40.9

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.11	13-14	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(TL)	-0.16	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 62 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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=5-08, (min. 1-08), 16= Mechanical, (min. 1-08)
Max Grav 9=638 (LC 1), 16=638 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-992/0, 3-4=-1535/0, 4-5=-1693/0, 5-6=-1548/0, 6-7=-989/0
BOT CHORD 15-16=0/599, 14-15=0/1365, 13-14=0/1693, 12-13=0/1693, 11-12=0/1693, 10-11=0/1352, 9-10=0/603
WEBS 2-16=-845/0, 2-15=0/584, 3-15=-555/0, 3-14=0/295, 4-14=-350/0, 7-9=-852/0, 7-10=0/573, 6-10=-539/0, 6-11=0/347, 5-11=-413/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Bearings are assumed to be: , Joint 9 SPF No.2 crushing capacity of 425 psi.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F126	Floor	10	1	Job Reference (optional)

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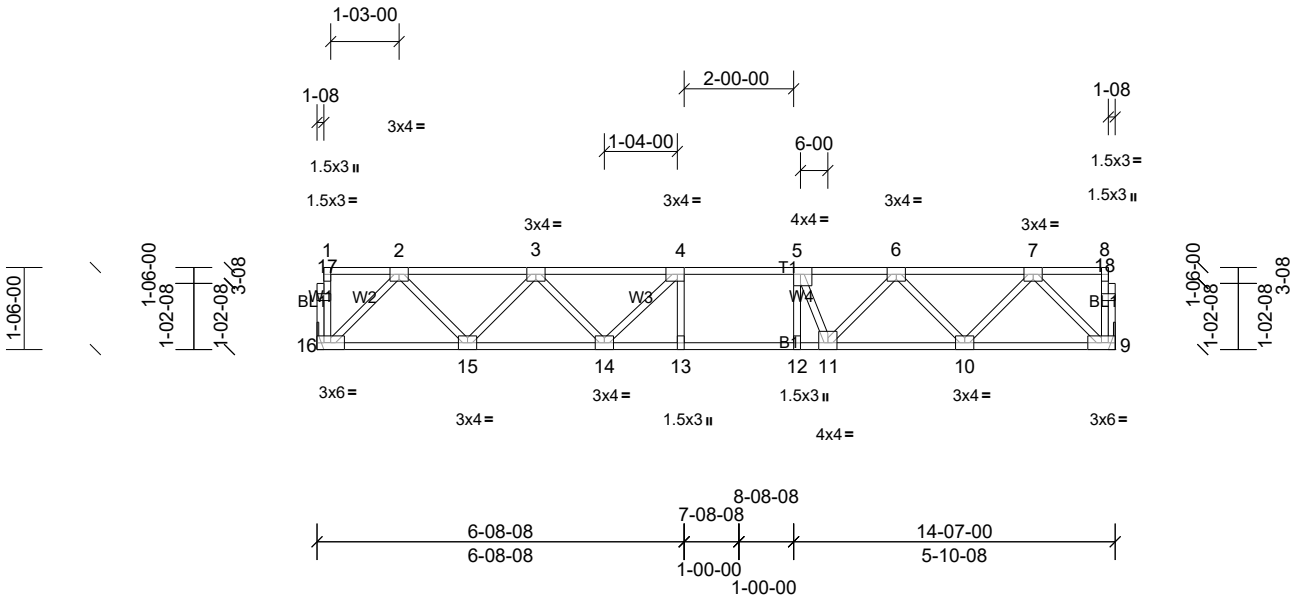

Scale = 1:42.3

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.11	13-14	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(TL)	-0.15	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 61 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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= Mechanical, (min. 1-08), 16= Mechanical, (min. 1-08)
Max Grav 9=625 (LC 1), 16=625 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-967/0, 3-4=-1488/0, 4-5=-1622/0, 5-6=-1512/0, 6-7=-963/0
BOT CHORD 15-16=0/586, 14-15=0/1331, 13-14=0/1622, 12-13=0/1622, 11-12=0/1622, 10-11=0/1312, 9-10=0/592
WEBS 2-16=-826/0, 2-15=0/567, 3-15=-540/0, 3-14=0/278, 4-14=-320/0, 7-9=-835/0, 7-10=0/552, 6-10=-519/0, 6-11=0/363, 5-11=-456/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F128	Floor	14	1	Job Reference (optional)

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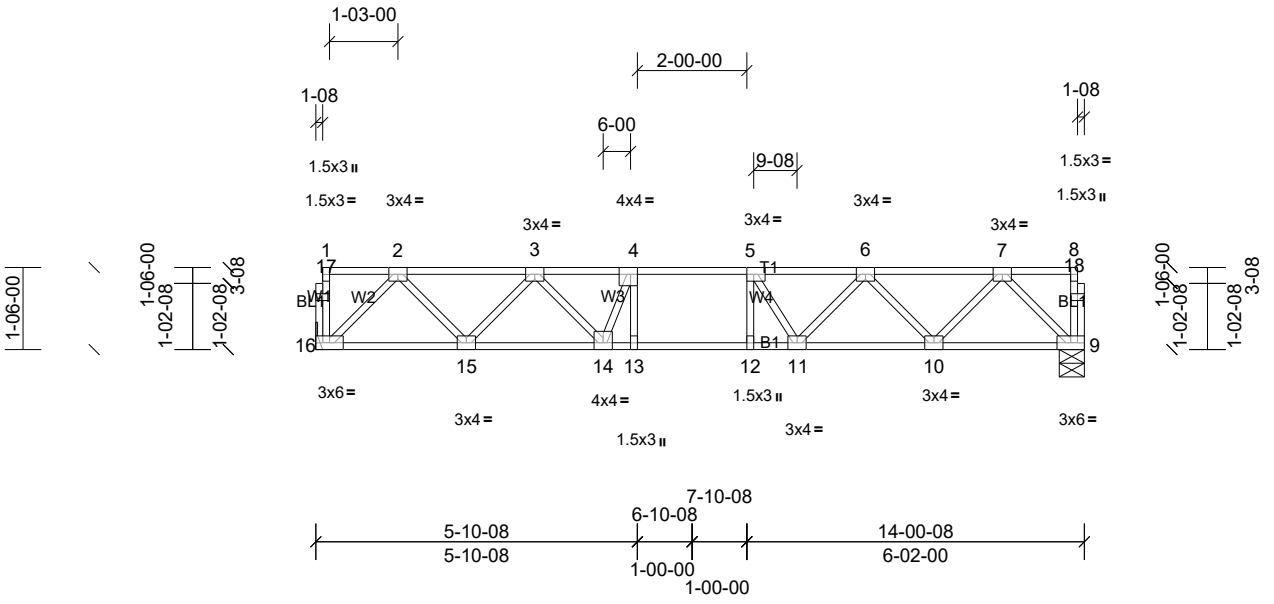


Scale = 1:42.3

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.08	11-12	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(TL)	-0.11	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 59 lb	FT = 20%F, 11%E

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

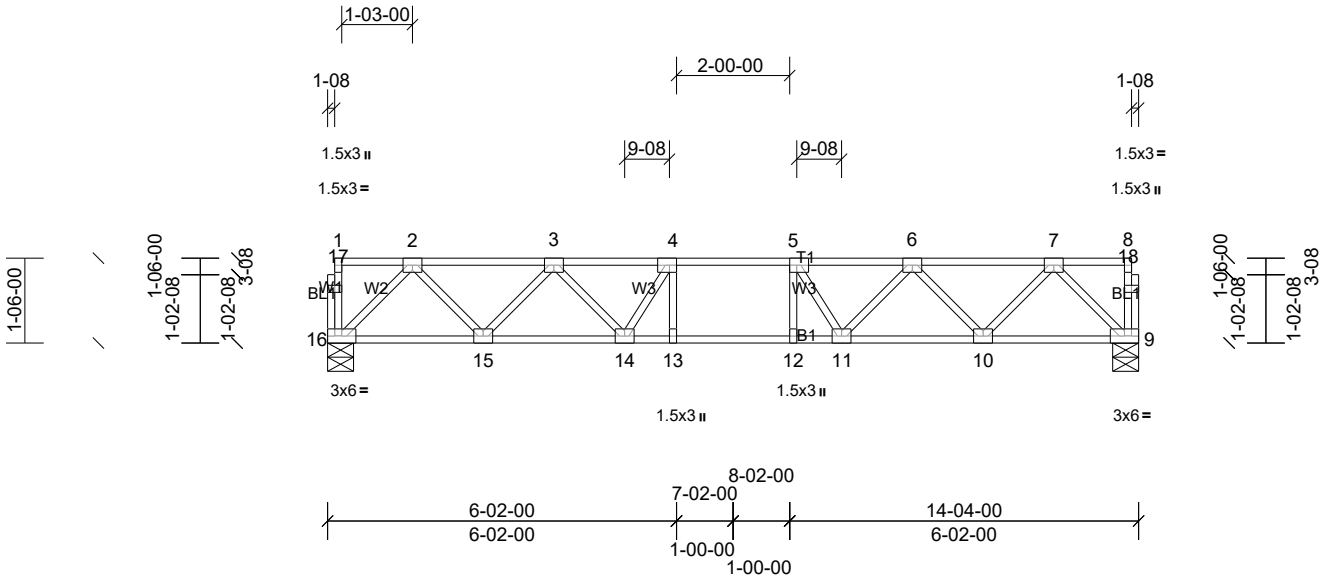
REACTIONS (size) 9=5-08, (min. 1-08), 16= Mechanical, (min. 1-08)
Max Grav 9=601 (LC 1), 16=601 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-918/0, 3-4=-1419/0, 4-5=-1500/0, 5-6=-1409/0, 6-7=-919/0
BOT CHORD 15-16=0/567, 14-15=0/1247, 13-14=0/1500, 12-13=0/1500, 11-12=0/1500, 10-11=0/1253, 9-10=0/566
WEBS 2-16=-800/0, 2-15=0/522, 3-15=-489/0, 3-14=0/325, 4-14=-379/24, 7-9=-798/0, 7-10=0/526, 6-10=-495/0, 6-11=0/293, 5-11=-316/13

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Bearings are assumed to be: , Joint 9 SPF No.2 crushing capacity of 425 psi.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F129	Floor	4	1	Job Reference (optional)



Scale = 1:40.9

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.08	13-14	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(TL)	-0.12	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 60 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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=5-08, (min. 1-08), 16=5-08, (min. 1-08)
Max Grav 9=614 (LC 1), 16=614 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-944/0, 3-4=-1458/0, 4-5=-1567/0, 5-6=-1458/0, 6-7=-944/0
BOT CHORD 15-16=0/579, 14-15=0/1287, 13-14=0/1567, 12-13=0/1567, 11-12=0/1567, 10-11=0/1287, 9-10=0/579
WEBS 2-16=-817/0, 2-15=0/543, 3-15=-511/0, 3-14=0/312, 4-14=-348/0, 7-9=-817/0, 7-10=0/543, 6-10=-511/0, 6-11=0/312, 5-11=-348/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
4) This truss is designed in accordance with the 2012 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

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F131	Floor	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Thu Jul 29 09:22:34 Page: 1
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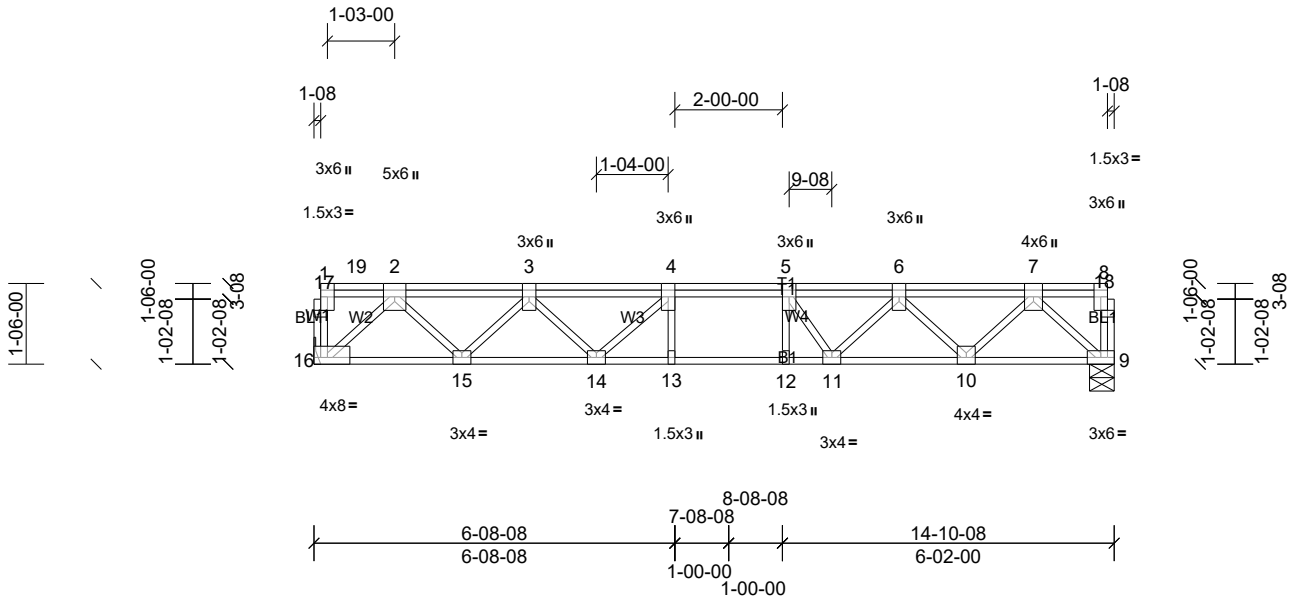


Scale = 1:43

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.09	13-14	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(TL)	-0.14	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.28	Horiz(TL)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 77 lb	FT = 20%F, 11%E

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

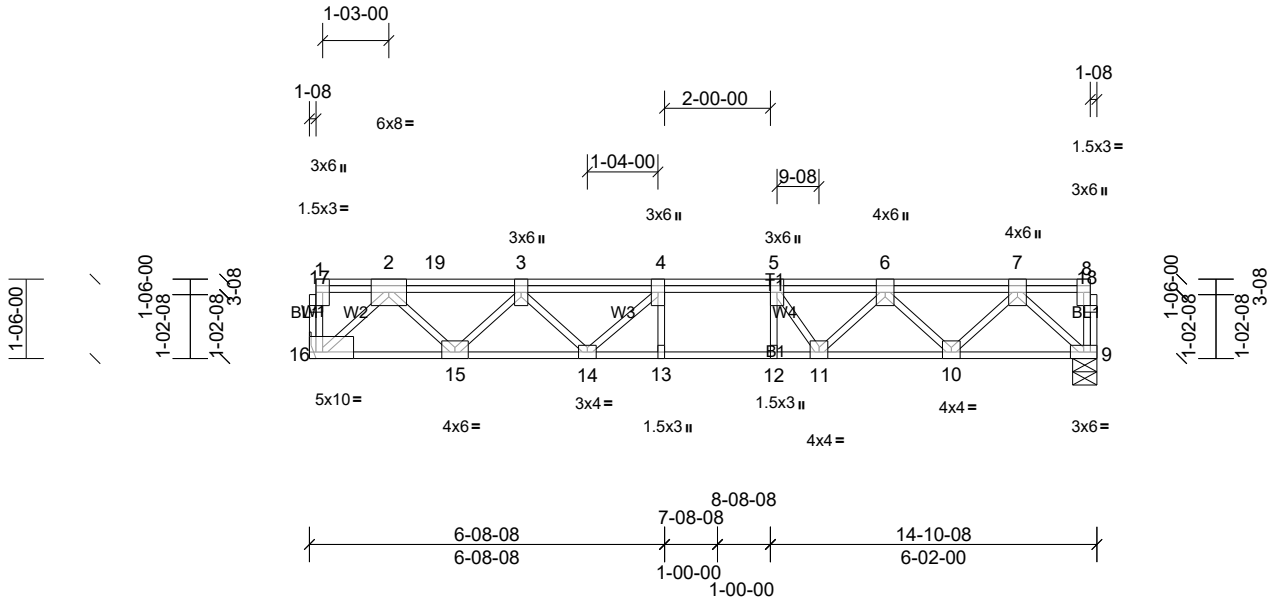
REACTIONS (size) 9=5-08, (min. 1-08), 16= Mechanical, (min. 1-08)
Max Grav 9=698 (LC 1), 16=1910 (LC 1)
Vert: 19=-1332

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=-691/0, 1-17=-690/0, 2-3=-1614/0, 3-4=-2013/0, 4-5=-2091/0, 5-6=-1873/0, 6-7=-1146/0
BOT CHORD 15-16=0/1304, 14-15=0/1906, 13-14=0/2091, 12-13=0/2091, 11-12=0/2091, 10-11=0/1574, 9-10=0/694
WEBS 2-16=-1757/0, 2-15=0/450, 3-15=-424/0, 3-14=0/295, 4-14=-308/74, 7-9=-957/0, 7-10=0/656, 6-10=-621/0, 6-11=0/518, 5-11=-509/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: , Joint 9 SPF No.2 crushing capacity of 425 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-16=-8, 1-8=-80
Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F132	Floor	1	1	Job Reference (optional)



Scale = 1:43.7

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.11	13-14	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(TL)	-0.18	13-14	>993	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.45	Horiz(TL)	0.05	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 77 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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=5-08, (min. 1-08), 16= Mechanical, (min. 1-08)
Max Grav 9=843 (LC 1), 16=1766 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-2647/0, 3-19=-2647/0, 3-4=-3091/0, 4-5=-2847/0, 5-6=-2470/0, 6-7=-1426/0
BOT CHORD 15-16=0/2032, 14-15=0/3250, 13-14=0/2847, 12-13=0/2847, 11-12=0/2847, 10-11=0/1977, 9-10=0/849
WEBS 2-16=-2821/0, 2-15=0/893, 3-15=-873/0, 3-14=-376/190, 4-14=-187/516, 7-9=-1173/0, 7-10=0/836, 6-10=-798/0, 6-11=0/800, 5-11=-800/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: , Joint 9 SPF 2100F 1.8E crushing capacity of 525 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-16=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 19=-1332

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F133	Floor	1	1	Job Reference (optional)

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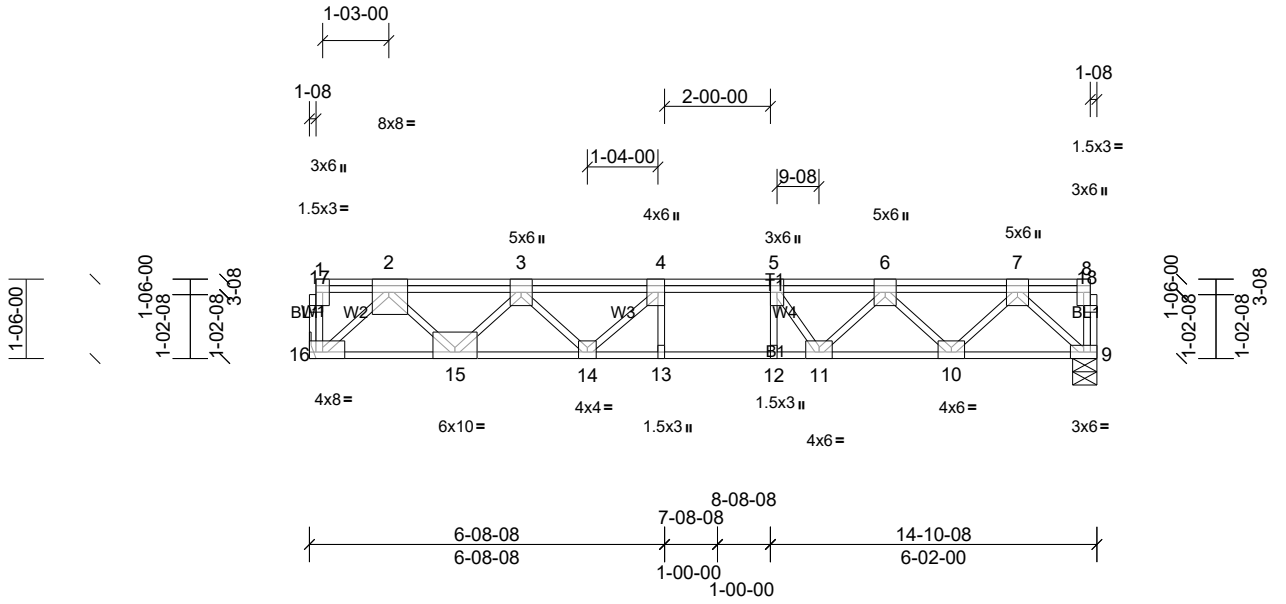


Scale = 1:43.7

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.18	13-14	>982	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(TL)	-0.28	13-14	>630	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.56	Horiz(TL)	0.06	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 77 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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.

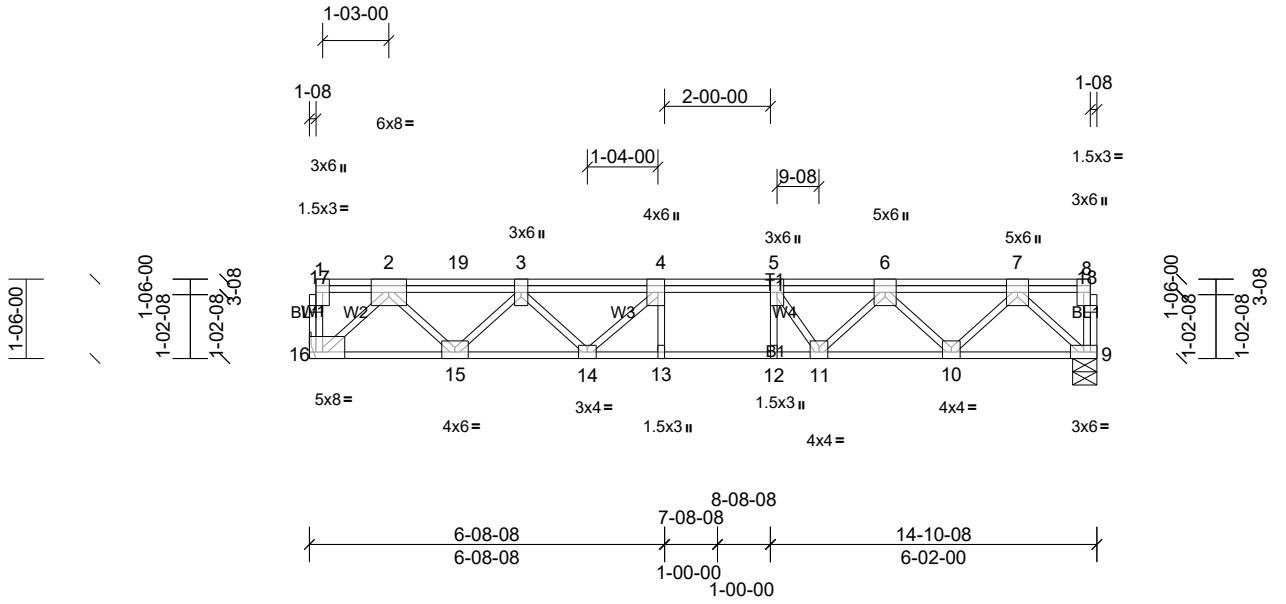
REACTIONS (size) 9=5-08, (min. 1-08), 16= Mechanical, (min. 1-08)
Max Grav 9=991 (LC 1), 16=1617 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2990/0, 3-4=-4081/0, 4-5=-3663/0, 5-6=-3086/0, 6-7=-1717/0
BOT CHORD 15-16=0/1626, 14-15=0/4345, 13-14=0/3663, 12-13=0/3663, 11-12=0/3663, 10-11=0/2390, 9-10=0/1013
WEBS 5-12=0/339, 2-16=-2245/0, 2-15=0/1978, 3-15=-1964/0, 3-14=-525/146, 4-14=-124/757, 7-9=-1399/0, 7-10=0/1021, 6-10=-976/0, 6-11=0/1090, 5-11=-1171/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: , Joint 9 SPF 2100F 1.8E crushing capacity of 525 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-16=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 3=-1332

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F134	Floor	1	1	Job Reference (optional)



Scale = 1:43.7

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.12	13-14	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(TL)	-0.19	13-14	>909	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horiz(TL)	0.05	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 77 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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=5-08, (min. 1-08), 16= Mechanical, (min. 1-08)
Max Grav 9=882 (LC 1), 16=1726 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-2807/0, 3-19=-2807/0, 3-4=-3391/0, 4-5=-3055/0, 5-6=-2635/0, 6-7=-1504/0
BOT CHORD 15-16=0/1971, 14-15=0/3628, 13-14=0/3055, 12-13=0/3055, 11-12=0/3055, 10-11=0/2088, 9-10=0/893
WEBS 2-16=-2737/0, 2-15=0/1211, 3-15=-1192/0, 3-14=-490/159, 4-14=-152/643, 7-9=-1232/0, 7-10=0/886, 6-10=-848/0, 6-11=0/878, 5-11=-879/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: , Joint 9 SPF 2100F 1.8E crushing capacity of 525 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-16=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 19=-1332

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F135	Floor	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Thu Jul 29 09:22:35 Page: 1
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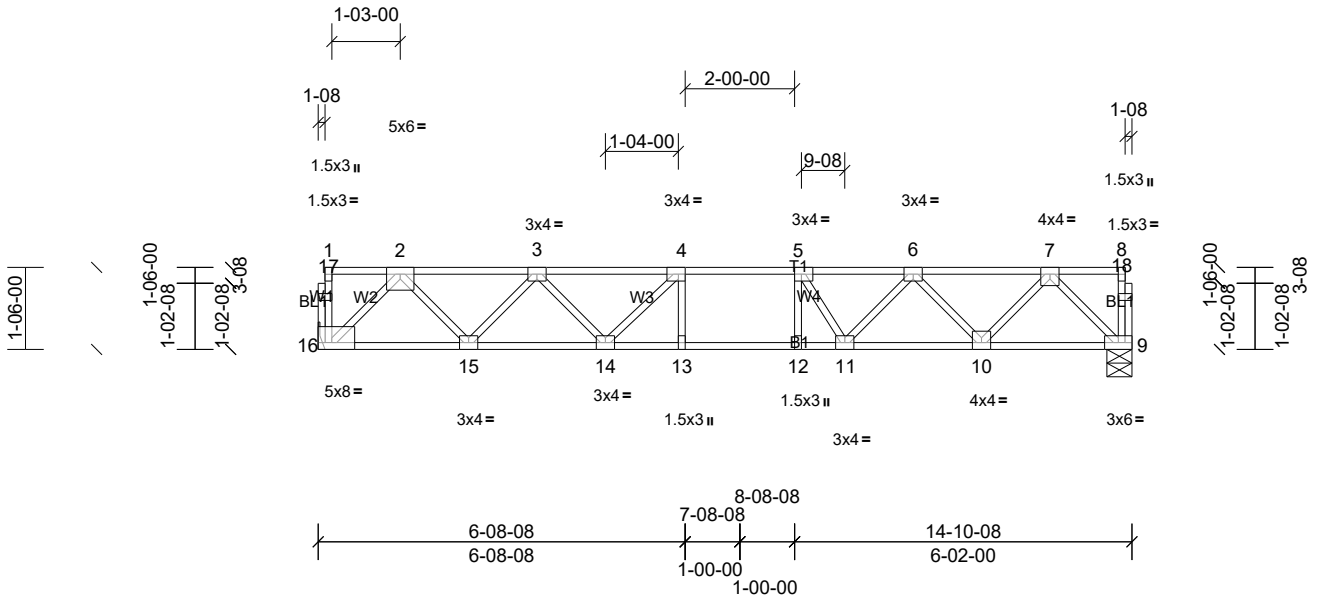

Scale = 1:42.3

Loading	(psf)	Spacing	1-07-03	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.17	13-14	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(TL)	-0.26	13-14	>687	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horiz(TL)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 62 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF 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=5-08, (min. 1-08), 16= Mechanical, (min. 1-08)
Max Grav 9=763 (LC 1), 16=1845 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2078/0, 3-4=-2400/0, 4-5=-2337/0, 5-6=-2021/0, 6-7=-1227/0
BOT CHORD 15-16=0/1795, 14-15=0/2354, 13-14=0/2337, 12-13=0/2337, 11-12=0/2337, 10-11=0/1692, 9-10=0/732
WEBS 4-13=-277/62, 5-12=-53/399, 2-16=-2536/0, 2-15=0/422, 3-15=-410/0, 4-14=-268/285, 7-9=-1034/0, 7-10=0/735, 6-10=-692/0, 6-11=0/540, 5-11=-741/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Bearings are assumed to be: , Joint 9 SPF 2100F 1.8E crushing capacity of 525 psi.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2012 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-16=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 2=-1332