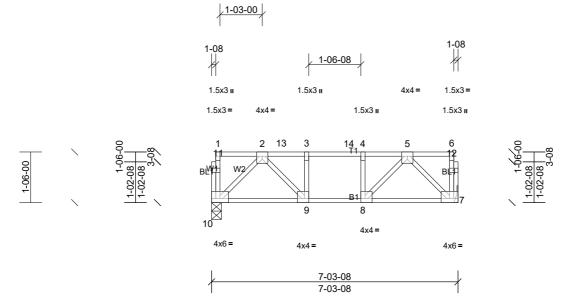
Job	Truss	Truss Type	Qty	Ply	
21071052BF	F200	Floor	4	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Thu Jul 29 09:22:35 ID:UCr259tOr0c32n9 1rNPL2yvAak-oHoC2eE5L28oTzUGwzTklke1Skj4?D9drcZe4ZytG9h

Page: 1



Scale = 1:34.2

Loading	(psf)	Spacing	1-07-03	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	0.90	TC	0.85	Vert(LL)	-0.06	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	0.90	ВС	0.61	Vert(TL)	-0.09	7-8	>973	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	Horiz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 33 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) 2x4 SPF No.2(flat) **OTHERS**

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=3-08, (min. 1-08)

Max Uplift 10=-4 (LC 4)

Max Grav 7=1033 (LC 5), 10=1207 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 10-11=-384/77, 1-11=-383/77, 2-13=-1399/0,

3-13=-1399/0, 3-14=-1399/0, 4-14=-1399/0,

4-5=-1399/0

BOT CHORD 9-10=0/891, 8-9=0/1399, 7-8=0/970 **WEBS** 5-7=-1368/0, 2-10=-1247/0, 5-8=0/763, 2-9=0/788, 3-9=-497/0, 4-8=-509/0

NOTES

- Unbalanced floor live loads have been considered for
- This truss is not designed to be used as a floor truss.
- Bearings are assumed to be: Joint 10 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint
- 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.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 367 lb down at 4-0-12, 367 lb down at 6-0-12, 391 lb down and 82 lb up at 0-2-4, and 203 lb down and 40 lb up at 4-0-12, and 203 lb down and 40 lb up at 6-0-12 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90
 - Uniform Loads (lb/ft)

Vert: 7-10=-8, 1-6=-16

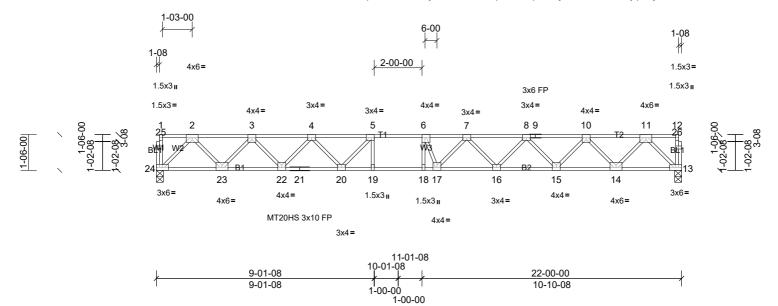
Concentrated Loads (lb)

Vert: 1=-391, 5=-283 (F=-100), 13=-283, 14=-283 (F=-100)

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F201	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 09:22:36 ID:0BpFeh8JKliW0UbsylnUf?zQX0n-K4FqrlDTbk0xrpv4MGyVDX6vVKKUGlzTcyq5Y6ytG9i

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Loading	(psf)	Spacing	1-07-03	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.33	17-18	>800	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(TL)	-0.51	17-18	>512	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	0.08	13	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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

5-8-1 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 13=3-08, (min. 1-08), 24=3-08,

(min. 1-08)

Max Grav 13=951 (LC 1), 24=951 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

2-3=-1586/0, 3-4=-2706/0, 4-5=-3418/0, 5-6=-3731/0, 6-7=-3744/0, 7-8=-3420/0,

8-9=-2705/0, 9-10=-2705/0, 10-11=-1586/0

BOT CHORD 23-24=0/913, 22-23=0/2241, 21-22=0/3148,

20-21=0/3148, 19-20=0/3731, 18-19=0/3731, 17-18=0/3731, 16-17=0/3671, 15-16=0/3154,

14-15=0/2239, 13-14=0/913

WEBS 5-19=-115/258, 6-18=-405/226

2-24=-1289/0, 2-23=0/1001, 3-23=-973/0, 3-22=0/691, 4-22=-657/0, 4-20=0/479, 5-20=-644/0, 11-13=-1290/0, 11-14=0/1001,

10-14=-970/0, 10-15=0/693, 8-15=-667/0, 8-16=0/397, 7-16=-372/0, 7-17=-84/326,

6-17=-411/395

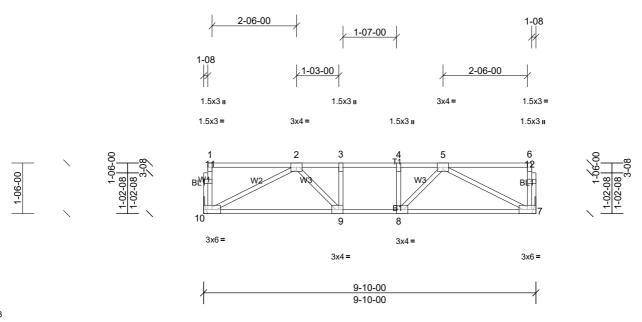
NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All bearings are assumed to be SPF 2100F 1.8E crushing capacity of 525 psi.
- 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.
- 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	F202	Floor	4	1	Job Reference (optional)

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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	0.25	Vert(LL)	-0.04	9-10	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(TL)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.01	7	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) 2x4 SPF No.2(flat) **OTHERS**

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=

Mechanical, (min. 1-08)

Max Grav 7=416 (LC 1), 10=416 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-723/0, 3-4=-723/0, 4-5=-723/0

BOT CHORD 9-10=0/610, 8-9=0/723, 7-8=0/610 **WEBS**

5-7=-685/0, 2-10=-685/0, 5-8=0/261,

2-9=0/261

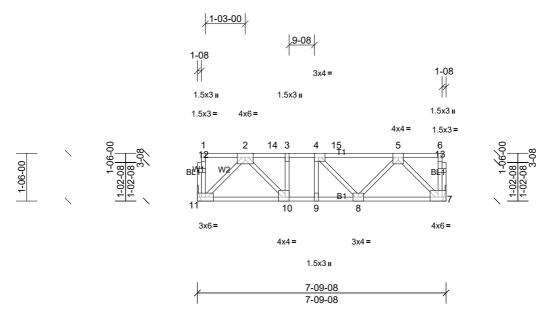
NOTES

- 1) 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 2012 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F203	Floor	4	1	Job Reference (optional)

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Scale = 1:36.3

Loading	(psf)	Spacing	1-07-03	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	0.90	TC	0.87	Vert(LL)	-0.05	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	0.90	BC	1.00	Vert(TL)	-0.09	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horiz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 36 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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

REACTIONS (size) 7= Mechanical, (min. 1-08), 11= Mechanical, (min. 1-08)

Max Grav 7=1087 (LC 7), 11=1398 (LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 11-12=-525/0, 1-12=-524/0, 2-14=-1567/0, 3-14=-1567/0, 3-4=-1567/0, 4-15=-1382/0,

5-15=-1382/0

BOT CHORD 10-11=0/912, 9-10=0/1567, 8-9=0/1567,

7-8=0/1117

WEBS 5-7=-1582/0, 2-11=-1256/0, 5-8=0/403, 2-10=0/963, 4-8=-348/0, 3-10=-511/0,

4-9=-303/26

NOTES

- 1) Unbalanced floor live loads have been considered for
- This truss is not designed to be used as a floor truss.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 367 lb down at 2-4-4, 367 lb down at 4-4-4, 367 lb down at 6-4-4, 203 lb down and 40 lb up at 2-4-4, and 206 lb down and 48 lb up at 4-4-4, and 206 lb down and 48 lb up at 6-4-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90

Uniform Loads (lb/ft) Vert: 7-11=-8, 1-6=-16

Concentrated Loads (lb)

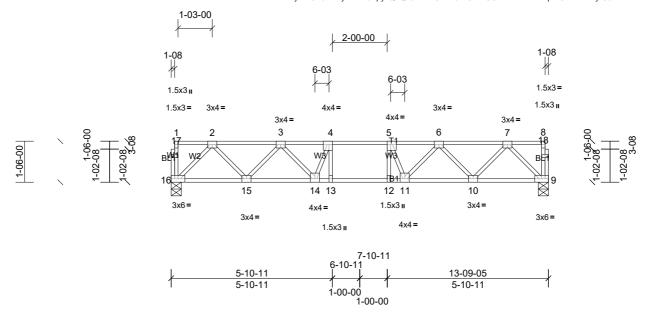
Vert: 1=-325, 5=-297 (F=-100), 14=-283 (F=-100),

15=-297 (F=-100)

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F204	Floor	1	1	Job Reference (optional)

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Loading	(psf)	Spacing	1-07-03	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.07	11-12	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	ВС	0.56	Vert(TL)	-0.10	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	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

BOT CHORD

FORCES

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 9=4-07, (min. 1-08), 16=4-07, (min.

1-08)

Max Grav 9=590 (LC 1), 16=590 (LC 1)

(lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-896/0, 3-4=-1374/0, 4-5=-1442/0,

5-6=-1374/0, 6-7=-896/0

BOT CHORD 15-16=0/555, 14-15=0/1216, 13-14=0/1442,

12-13=0/1442, 11-12=0/1442, 10-11=0/1216,

9-10=0/555

2-16=-784/0, 2-15=0/507, 3-15=-475/0,

3-14=0/305, 4-14=-341/37, 7-9=-784/0, 7-10=0/507, 6-10=-475/0, 6-11=0/305,

5-11=-341/37

NOTES

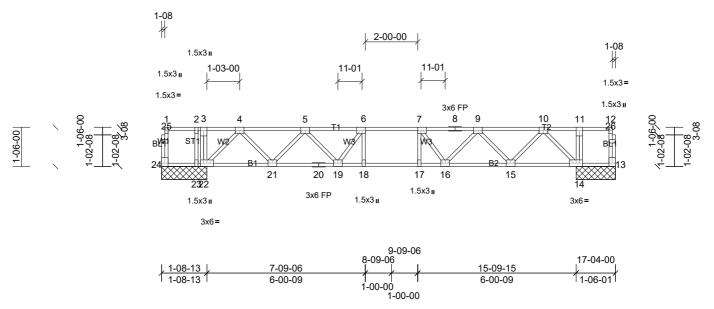
WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 3) 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.
- 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	F205	Floor	1	1	Job Reference (optional)

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Scale = 1:44.2

Loading	(psf)	Spacing	1-07-03	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.09	16-17	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(TL)	-0.12	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.03	13	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.

REACTIONS All bearings 1-08-13. except 13=1-06-01, 14=1-06-01

(lb) - Max Uplift All uplift 100 (lb) or less at joint(s)

except 23=-175 (LC 4)

Max Grav All reactions 250 (lb) or less at joint (s) 13, 23, 24 except 14=722 (LC

1), 22=829 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 4-5=-922/0, 5-6=-1463/0, 6-7=-1591/0, 7-8=-1464/0, 8-9=-1464/0, 9-10=-927/0
BOT CHORD 21-22=0/553, 20-21=0/1284, 19-20=0/1284,

18-19=0/1591, 17-18=0/1591, 16-17=0/1591,

15-16=0/1287, 14-15=0/557

WEBS 4-22=-780/0, 4-21=0/549, 5-21=-537/0, 5-19=0/313, 6-19=-351/0, 10-14=-786/0, 10-15=0/551, 9-15=-534/0, 9-16=0/311,

7-16=-350/0

NOTES

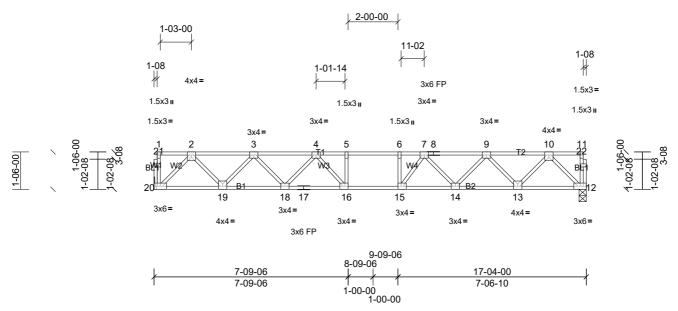
- Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 23.
- 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F206	Floor	7	1	Job Reference (optional)

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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	0.48	Vert(LL)	-0.15	16-18	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	ВС	0.71	Vert(TL)	-0.22	16-18	>912	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

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 12=3-08, (min. 1-08), 20= Mechanical, (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. 2-3=-1197/0, 3-4=-1940/0, 4-5=-2308/0,

Z-3--1197/0, 3-4--1940/0, 4-3--2300/0, E 6- 2300/0 6 7- 2300/0 7 9- 4027/0

 $5-6=-2308/0,\ 6-7=-2308/0,\ 7-8=-1937/0,$

8-9=-1937/0, 9-10=-1197/0

BOT CHORD 19-20=0/708, 18-19=0/1665, 17-18=0/2194,

16-17=0/2194, 15-16=0/2308, 14-15=0/2196,

13-14=0/1665, 12-13=0/708

WEBS 6-15=-264/13, 2-20=-999/0, 2-19=0/727,

3-19=-697/0, 3-18=0/408, 4-18=-378/0, 4-16=-73/407, 10-12=-999/0, 10-13=0/727,

9-13=-695/0, 9-14=0/405, 7-14=-384/0,

7-15=-72/433

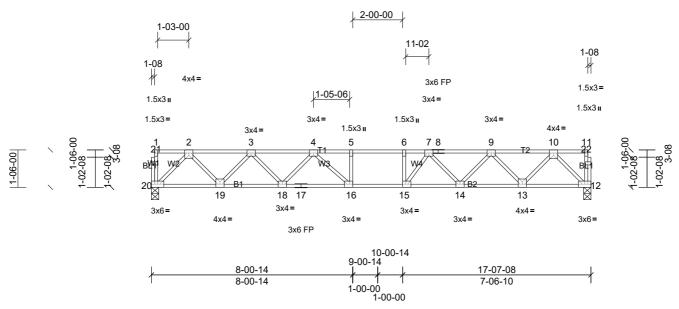
NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- Bearings are assumed to be: , Joint 12 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F207	Floor	4	1	Job Reference (optional)

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Page: 1



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	16-18	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(TL)	-0.26	16-18	>817	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: 72 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

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

REACTIONS (size)

12=3-08, (min. 1-08), 20=3-08,

(min. 1-08)

Max Grav 12=759 (LC 1), 20=759 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

2-3=-1220/0, 3-4=-1990/0, 4-5=-2388/0,

5-6=-2388/0, 6-7=-2388/0, 7-8=-1984/0,

8-9=-1984/0, 9-10=-1222/0

BOT CHORD 19-20=0/721, 18-19=0/1702, 17-18=0/2254,

16-17=0/2254, 15-16=0/2388, 14-15=0/2256,

13-14=0/1701, 12-13=0/721

WEBS 6-15=-280/4, 2-20=-1017/0, 2-19=0/743, 3-19=-715/0, 3-18=0/429, 4-18=-393/0,

4-16=-65/416, 10-12=-1017/0, 10-13=0/745,

9-13=-712/0, 9-14=0/420, 7-14=-406/0,

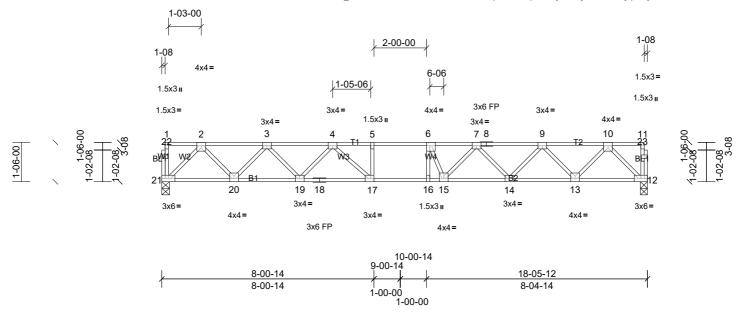
7-15=-59/465

NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F208	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 09:22:37 ID:J eeWO1KYkScV3h6nPbCEWz36xF-K4FqrlDTbk0xrpv4MGyVDX6yfKlUGmtTcyq5Y6ytG9i Page: 1



Scale = 1:44 1

Loading	(psf)	Spacing	1-07-03	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.18	16-17	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(TL)	-0.28	16-17	>795	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.06	12	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 76 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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

2-2-0 oc bracing: 16-17.

REACTIONS (size) 12=3-03, (min. 1-08), 21=3-08,

(min. 1-08)

Max Grav 12=797 (LC 1), 21=797 (LC 1)

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

2-3=-1293/0, 3-4=-2125/0, 4-5=-2631/0,

TOP CHORD

5-6=-2631/0, 6-7=-2577/0, 7-8=-2127/0,

8-9=-2127/0, 9-10=-1292/0

BOT CHORD 20-21=0/758, 19-20=0/1807, 18-19=0/2429, 17-18=0/2429, 16-17=0/2631, 15-16=0/2631,

14-15=0/2432, 13-14=0/1806, 12-13=0/758

2-21=-1070/0, 2-20=0/795, 3-20=-763/0,

3-19=0/473, 4-19=-451/0, 4-17=-13/488,

10-12=-1071/0, 10-13=0/794, 9-13=-763/0,

9-14=0/478, 7-14=-453/0, 7-15=0/361,

6-15=-417/166

NOTES

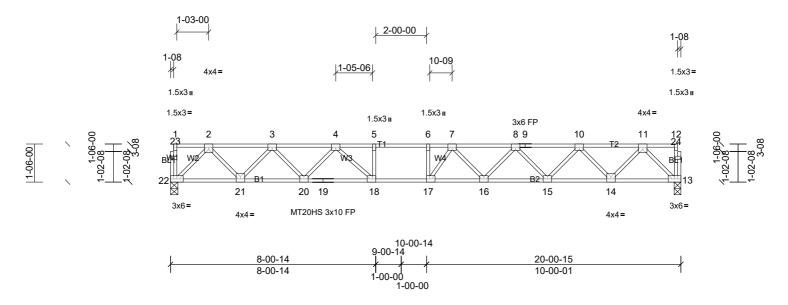
WEBS

- Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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.
- 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	F209	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 09:22:37 ID:GelqVuFE4ZrwH emOuRfWXz36wy-K4FqrlDTbk0xrpv4MGyVDX6tiKNqGmSTcyq5Y6ytG9i

Page: 1



Scale = 1:45.5

Loading	(psf)	Spacing	1-07-03	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.25	16-17	>952	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(TL)	-0.39	16-17	>610	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horiz(TL)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 82 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

BOT CHORD

TOP CHORD

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

5-5-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 13=3-03, (min. 1-08), 22=3-08,

(min. 1-08)

Max Grav 13=867 (LC 1), 22=867 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

2-3=-1429/0, 3-4=-2378/0, 4-5=-3083/0,

5-6=-3083/0, 6-7=-3083/0, 7-8=-2960/0,

8-9=-2389/0, 9-10=-2389/0, 10-11=-1426/0 21-22=0/829, 20-21=0/2003, 19-20=0/2755,

18-19=0/2755, 17-18=0/3083, 16-17=0/3110,

15-16=0/2766, 14-15=0/2001, 13-14=0/829

WEBS 5-18=-284/0, 2-22=-1170/0, 2-21=0/892,

3-21=-854/0, 3-20=0/557, 4-20=-561/0, 4-18=0/640, 11-13=-1171/0, 11-14=0/887,

10-14=-854/0, 10-15=0/577, 8-15=-561/0,

8-16=0/292, 7-16=-300/0, 7-17=-293/329

NOTES

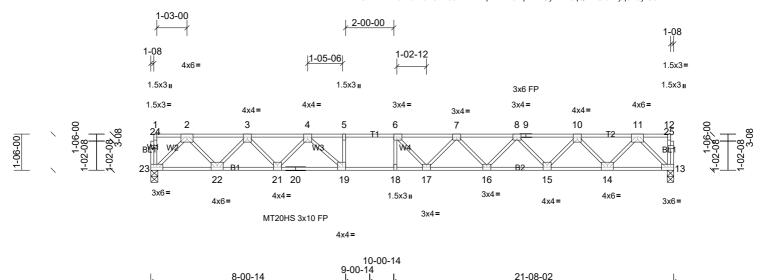
- Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
 All bearings are assumed to be SPF 2100F 1.8E
- 4) All bearings are assumed to be SPF 2100F 1.8E crushing capacity of 525 psi.
- 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F210	Floor	1	1	Job Reference (optional)

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11-07-04

Page: 1



Scale = 1:48

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	1.00	Vert(LL)	-0.37	17-18	>702	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	ВС	0.91	Vert(TL)	-0.57	17-18	>451	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	0.08	13	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 88 lb	FT = 20%F, 11%E

1-00-00

1-00-00

8-00-14

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,

except end verticals.

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

bracing, Except:

2-2-0 oc bracing: 18-19.

REACTIONS (size) 13=3-03, (min. 1-08), 23=3-08,

(min. 1-08)

Max Grav 13=937 (LC 1), 23=937 (LC 1)

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

TOP CHORD 2-3=-1565/0, 3-4=-2628/0, 4-5=-3543/0,

5-6=-3543/0, 6-7=-3630/0, 7-8=-3345/0,

8-9=-2651/0, 9-10=-2651/0, 10-11=-1560/0

22-23=0/899, 21-22=0/2198, 20-21=0/3086, 19-20=0/3086, 18-19=0/3543, 17-18=0/3543,

16-17=0/3600, 15-16=0/3082, 14-15=0/2201,

13-14=0/899

WEBS 5-19=-307/0, 6-18=-293/60, 2-23=-1270/0,

2-22=0/990, 3-22=-941/0, 3-21=0/639, 4-21=-681/0, 4-19=0/796, 11-13=-1269/0, 11-14=0/983, 10-14=-953/0, 10-15=0/670, 8-15=-641/0, 8-16=0/390, 7-16=-379/0,

6-17=-270/360

NOTES

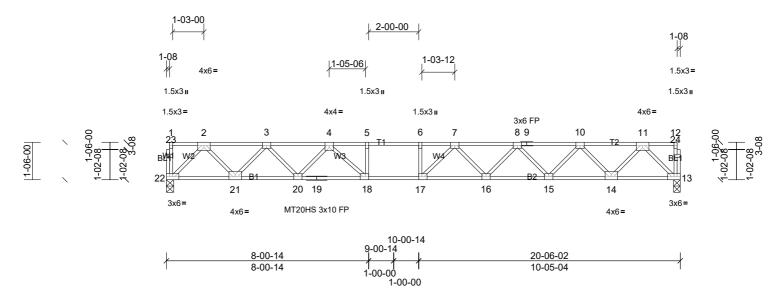
BOT CHORD

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- All bearings are assumed to be SPF 2100F 1.8E crushing capacity of 525 psi.
- 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.
- 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	F211	Floor	1	1	Job Reference (optional)

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Page: 1



Scale = 1:46.2

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	0.83	Vert(LL)	-0.28	16-17	>856	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(TL)	-0.45	16-17	>546	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horiz(TL)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 83 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

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 13=3-03, (min. 1-08), 22=3-08, (min. 1-08)

Max Grav 13=886 (LC 1), 22=886 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-1466/0, 3-4=-2446/0, 4-5=-3210/0,

5-6=-3210/0, 6-7=-3210/0, 7-8=-3070/0,

8-9=-2459/0, 9-10=-2459/0, 10-11=-1463/0

BOT CHORD 21-22=0/848, 20-21=0/2056, 19-20=0/2844,

18-19=0/2844, 17-18=0/3210, 16-17=0/3237,

15-16=0/2855, 14-15=0/2054, 13-14=0/848

WEBS 5-18=-302/0, 2-22=-1197/0, 2-21=0/919, 3-21=-878/0, 3-20=0/579, 4-20=-593/0,

4-18=0/689, 11-13=-1198/0, 11-14=0/913,

10-14=-879/0, 10-15=0/602, 8-15=-589/0,

8-16=0/320, 7-16=-292/0, 7-17=-279/332

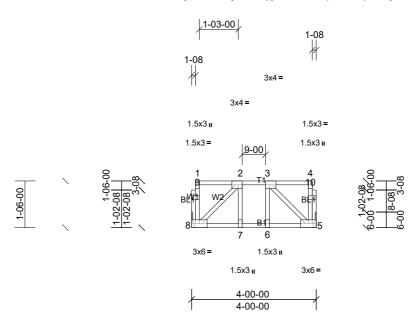
NOTES

- 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) All bearings are assumed to be SPF 2100F 1.8E crushing capacity of 525 psi.
- 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F212	Floor	10	1	Job Reference (optional)

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Page: 1



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

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size)

5= Mechanical, (min. 1-08), 8=

Mechanical, (min. 1-08)

Max Grav 5=160 (LC 1), 8=160 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

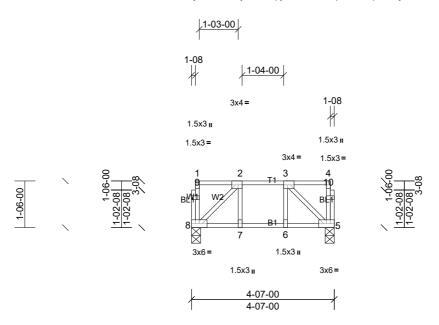
NOTES

- 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 2012 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F214	Floor	4	1	Job Reference (optional)

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Page: 1



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	0.08	Vert(TL)	-0.01	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: 22 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

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

4-7-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 5=3-08, (min. 1-08), 8=3-08, (min. 1-08)

Max Grav 5=186 (LC 1), 8=186 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

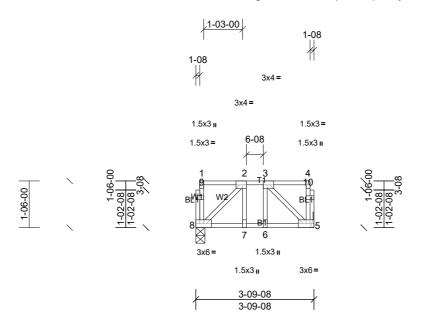
(lb) or less except when shown.

NOTES

- Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 3) 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.
- 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F215	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 09:22:38 ID:Y?FtQM7hZRafOL0gO1GF6nzQX0o-K4FqrIDTbk0xrpv4MGyVDX62pKWcGp1Tcyq5Y6ytG9i Page: 1



Scale = 1:37.2

Loading	(psf)	Spacing	1-07-03	csı		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	0.05	Vert(TL)	0.00	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

3-9-8 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 5= Mechanical, (min. 1-08),

8=3-08, (min. 1-08)

Max Grav 5=151 (LC 1), 8=151 (LC 1)

(lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

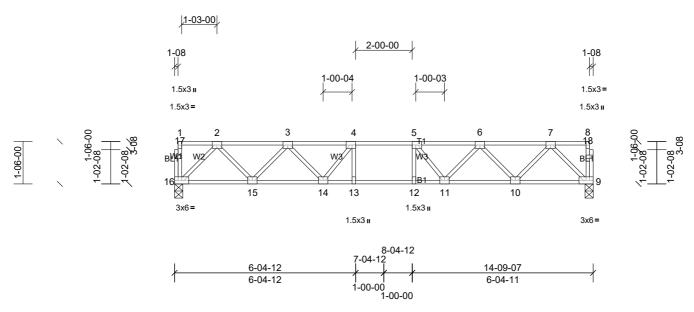
FORCES NOTES

- 1) Unbalanced floor live loads have been considered for
- Bearings are assumed to be: Joint 8 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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	F216	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 09:22:38 ID:4LILMeWNoakzsP20qTM ylzQX0H-K4FqrlDTbk0xrpv4MGyVDX6?9KMMGnsTcyq5Y6ytG9i

Page: 1



Scale = 1:40.9

Loading	(psf)	Spacing	1-07-03	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.09	13-14	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	ВС	0.64	Vert(TL)	-0.13	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

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 9=3-08, (min. 1-08), 16=3-08, (min.

1-08)

Max Grav 9=634 (LC 1), 16=634 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

2-3=-983/0, 3-4=-1527/0, 4-5=-1672/0,

5-6=-1527/0, 6-7=-983/0

BOT CHORD 15-16=0/598, 14-15=0/1346, 13-14=0/1672,

12-13=0/1672, 11-12=0/1672, 10-11=0/1346,

9-10=0/598

2-16=-843/0, 2-15=0/572, 3-15=-541/0,

3-14=0/318, 4-14=-368/0, 7-9=-843/0,

7-10=0/572, 6-10=-540/0, 6-11=0/318,

5-11=-369/0

NOTES

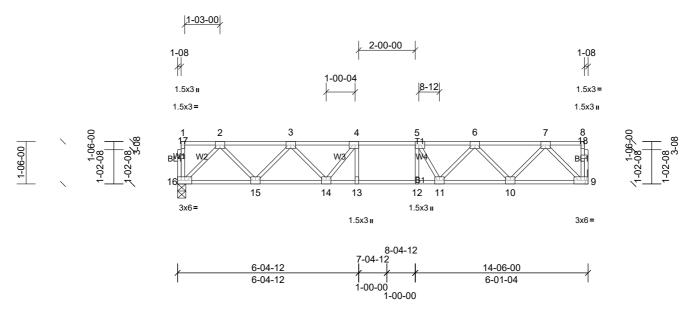
WEBS

- Unbalanced floor live loads have been considered for this design.
-) All plates are 3x4 MT20 unless otherwise indicated.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F217	Floor	10	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	0.32	Vert(LL)	-0.09	13-14	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(TL)	-0.13	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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

BOT CHORD

FORCES

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing. **REACTIONS** (size)

9= Mechanical, (min. 1-08),

16=3-08, (min. 1-08)

Max Grav 9=622 (LC 1), 16=622 (LC 1)

(lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

2-3=-959/0. 3-4=-1479/0. 4-5=-1605/0.

5-6=-1488/0, 6-7=-957/0

BOT CHORD 15-16=0/585, 14-15=0/1312, 13-14=0/1605,

12-13=0/1605, 11-12=0/1605, 10-11=0/1306,

9-10=0/587

WEBS 2-16=-825/0, 2-15=0/556, 3-15=-526/0,

3-14=0/300, 4-14=-337/0, 7-9=-828/0,

7-10=0/551, 6-10=-518/0, 6-11=0/329,

5-11=-379/0

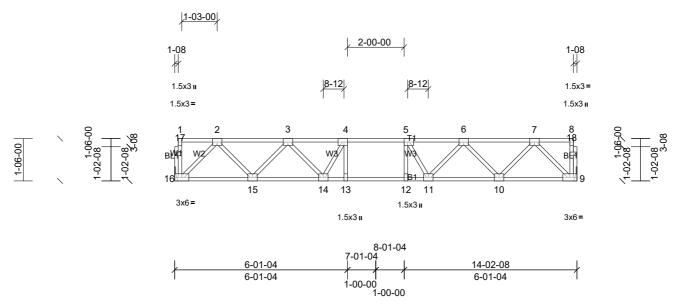
NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- 3) Bearings are assumed to be: Joint 16 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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	F218	Floor	2	1	Job Reference (optional)

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Loading	(psf)	Spacing	1-07-03	csı		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	0.60	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: 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

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. 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=609 (LC 1), 16=609 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

2-3=-933/0. 3-4=-1439/0. 4-5=-1538/0.

5-6=-1439/0, 6-7=-933/0 BOT CHORD 15-16=0/573, 14-15=0/1271, 13-14=0/1538,

12-13=0/1538, 11-12=0/1538, 10-11=0/1271,

9-10=0/573

WEBS 2-16=-809/0, 2-15=0/535, 3-15=-503/0,

3-14=0/310, 4-14=-344/7, 7-9=-809/0,

7-10=0/535, 6-10=-503/0, 6-11=0/310,

5-11=-344/7

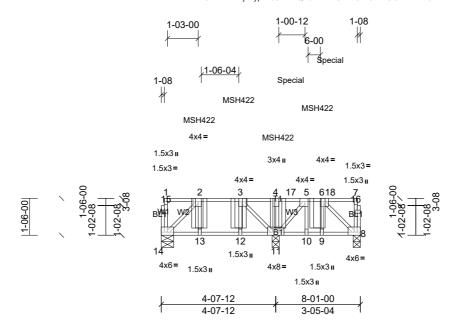
NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F219	Floor Girder	1	1	Job Reference (optional)

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Scale = 1:47

Loading	(psf)	Spacing	1-07-03	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.02	8-9	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	вс	0.69	Vert(TL)	-0.03	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.26	Horiz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 40 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 10-0-0 oc bracing.

|----

REACTIONS (size) 8=3-08, (min. 1-08), 11=3-08, (min. 2-03), 14=6-00, (min. 1-08)

Max Grav 8=1227 (LC 7), 11=3240 (LC 8),

14=1145 (LC 10)

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

2-3=-1154/0, 5-6=-1028/0

BOT CHORD 13-14=0/1154, 12-13=0/1154, 11-12=0/1154,

10-11=0/1028, 9-10=0/1028, 8-9=0/1028 4-11=-1306/0, 3-11=-1436/0, 2-14=-1595/0,

5-11=-1342/0, 6-8=-1410/0, 5-10=0/284,

6-9=-263/0

NOTES

WEBS

TOP CHORD

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 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.
- 6) CAUTION, Do not erect truss backwards.
- 7) Use USP MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 1-7-3 oc max. starting at 1-6-8 from the left end to 6-4-1 to connect truss(es) to front face of top chord.
- 8) Fill all nail holes where hanger is in contact with lumber.

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 596 lb down at 5-3-2, and 596 lb down at 6-10-5 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

 Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 8-14=-8, 1-7=-80

Veil. 0-14--0, 1-7--0

Concentrated Loads (lb)

Vert: 4=-875 (F), 3=-875 (F), 2=-875 (F), 6=-875 (F),

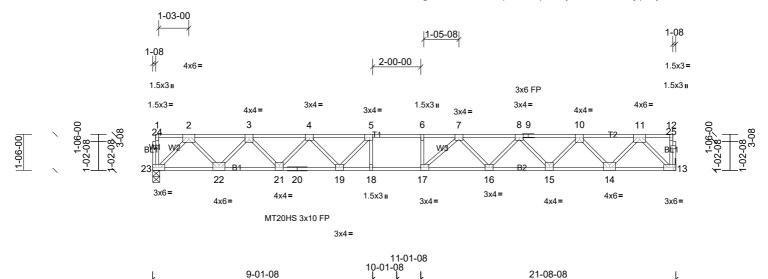
17=-545 (B), 18=-545 (B)

Job	Truss	Truss Type	Qty	Ply	
21071052BF	F220	Floor	5	1	Job Reference (optional)

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10-07-00

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Scale = 1:48

Loading	(psf)	Spacing	1-07-03	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.31	16-17	>826	480	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(TL)	-0.49	16-17	>525	360	MT20	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.28	Horiz(TL)	0.08	13	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-SH							Weight: 88 lb	FT = 20%F, 11%E

1-00-00

9-01-08

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

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

5-9-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 13= Mechanical, (min. 1-08),

23=3-08, (min. 1-08)

Max Grav 13=939 (LC 1), 23=939 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

2-3=-1562/0, 3-4=-2658/0, 4-5=-3349/0, 5-6=-3642/0, 6-7=-3642/0, 7-8=-3356/0,

8-9=-2656/0, 9-10=-2656/0, 10-11=-1562/0

BOT CHORD 22-23=0/900, 21-22=0/2205, 20-21=0/3089,

19-20=0/3089, 18-19=0/3642, 17-18=0/3642,

16-17=0/3579, 15-16=0/3097, 14-15=0/2202, 13-14=0/901

13-14=0/901

WEBS 2-23=-1271/0, 2-22=0/984, 3-22=-955/0,

3-21=0/673, 4-21=-641/0, 4-19=0/472, 5-19=-632/0, 11-13=-1272/0, 11-14=0/984,

10-14=-951/0, 10-15=0/674, 8-15=-656/0, 8-16=0/384, 7-16=-356/0, 7-17=-210/430

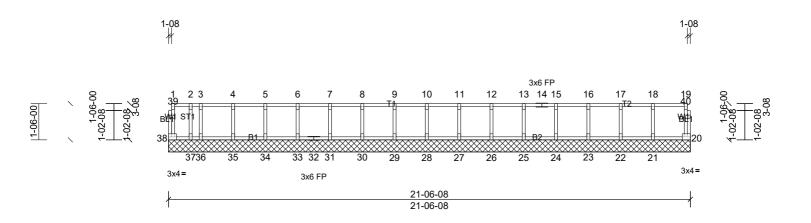
NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- Bearings are assumed to be: Joint 23 SPF 2100F 1.8E crushing capacity of 525 psi.
- 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.
- 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	K100	Floor Supported Gable	1	1	Job Reference (optional)

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Scale = 1:47 8

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-R							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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 21-06-08.

(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 33, 34, 35, 36, 37,

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250

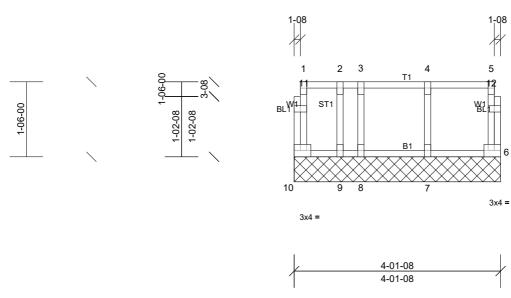
(lb) or less except when shown.

NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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.
- 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	K101	Floor Supported Gable	1	1	Job Reference (optional)

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Scale = 1:23.1

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 19 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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

4-1-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 4-01-08.

(lb) - Max Grav All reactions 250 (lb) or less at joint

(s) 6, 7, 8, 9, 10

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

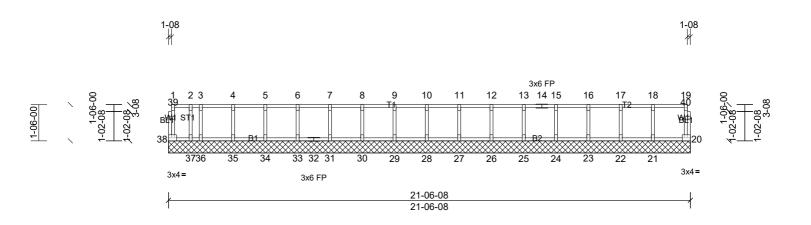
(lb) or less except when shown.

NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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.
- 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	K102	Floor Supported Gable	1	1	Job Reference (optional)

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Scale = 1:47 8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-R							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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 21-06-08.

(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 33, 34, 35, 36, 37,

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

NOTES

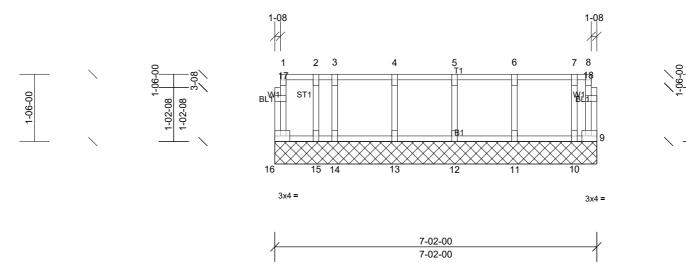
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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.
- 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	K103	Floor Supported Gable	1	1	Job Reference (optional)

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Page: 1

1-02-08



Scale = 1:25.8

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	ВС	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-R							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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 7-02-00.

(lb) - Max Uplift All uplift 100 (lb) or less at joint(s) 9 Max Grav All reactions 250 (lb) or less at joint (s) 9, 10, 11, 12, 13, 14, 15, 16

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

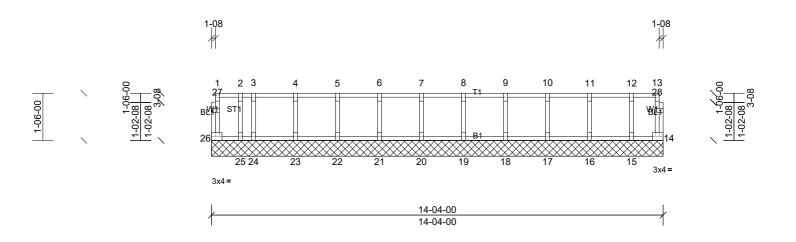
NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
- 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.
- 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	K104	Floor Supported Gable	1	1	Job Reference (optional)

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Scale = 1:36.7

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	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	5.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 53 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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 14-04-00.

(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 14, 15, 16, 17, 18, 19, 20, 21,

22, 23, 24, 25, 26

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

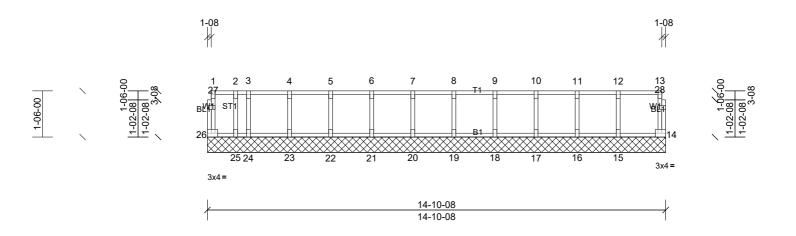
NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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.
- 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	K105	Floor Supported Gable	1	1	Job Reference (optional)

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Page: 1



Scale = 1:37 6

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.02	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	5.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 55 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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 14-10-08.

(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

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

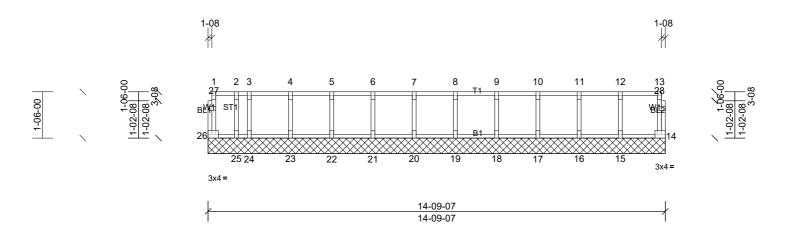
NOTES

- All plates are 1.5x3 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).
- 4) Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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.
- 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	K106	Floor Supported Gable	1	1	Job Reference (optional)

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Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.02	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	5.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 54 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

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 14-09-07.

(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 14, 15, 16, 17, 18, 19, 20, 21,

22, 23, 24, 25, 26

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

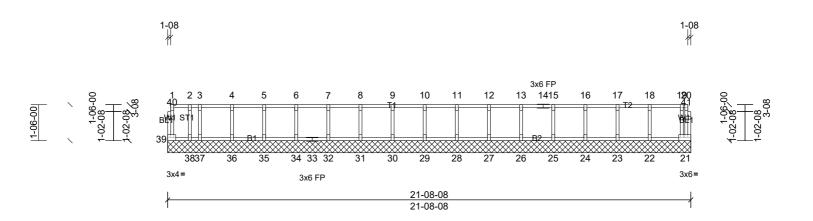
NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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	K200	Floor Supported Gable	1	1	Job Reference (optional)

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Page: 1



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Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	ВС	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	21	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 79 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

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 21-08-08.

(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 39

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

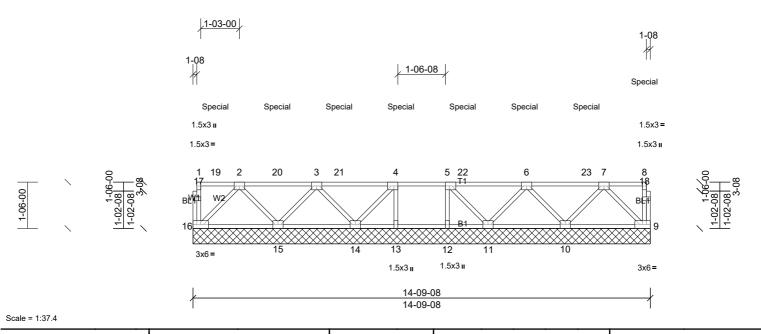
NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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	K201	Floor Supported Gable	1	1	Job Reference (optional)

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	0.90	TC	0.52	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	0.90	BC	0.10	Vert(TL)	n/a	-	n/a	999		
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: 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) 2x4 SPF No.2(flat) **OTHERS**

BRACING TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD** bracing.

REACTIONS All bearings 14-09-08.

(lb) - Max Uplift All uplift 100 (lb) or less at joint(s) 9, 11, 13, 14, 16

> Max Grav All reactions 250 (lb) or less at joint (s) 12, 16 except 9=321 (LC 2), 10=489 (LC 2), 11=339 (LC 2), 13=283 (LC 2), 14=344 (LC 2), 15=498 (LC 2)

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

WEBS 7-10=-299/8, 2-15=-318/11, 6-10=-320/12, 3-15=-315/11, 6-11=-317/12, 3-14=-315/12,

4-13=-269/12

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 9, 14, 13.
- 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.
- 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.

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 214 lb down and 33 lb up at 0-8-12, 209 lb down and 36 lb up at 2-8-12, 209 lb down and 36 lb up at 4-8-12, 209 lb down and 36 lb up at 6-8-12, 209 lb down and 36 lb up at 8-8-12, 209 lb down and 36 lb up at 10-8-12, and 209 lb down and 36 lb up at 12-8-12, and 220 lb down and 29 lb up at 14-7-4 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

Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90

Uniform Loads (lb/ft)

Vert: 9-16=-10, 1-8=-20

Concentrated Loads (lb)

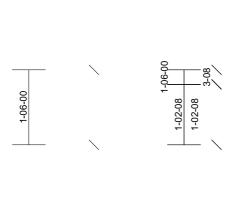
Vert: 8=-220 (F), 6=-209 (F), 4=-209 (F), 19=-214 (F), 20=-209 (F), 21=-209 (F), 22=-209 (F), 23=-209

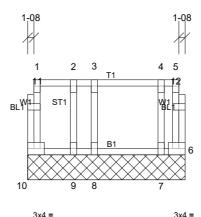
(F)

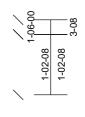
Job	Truss	Truss Type	Qty	Ply	
21071052BF	K202	Floor Supported Gable	1	1	Job Reference (optional)

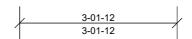
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Page: 1









Scale = 1:23.1

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	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	6	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 16 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

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

3-1-12 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 3-01-12.

(lb) - Max Uplift All uplift 100 (lb) or less at joint(s) 6
Max Grav All reactions 250 (lb) or less at joint

(s) 6, 7, 8, 9, 10

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

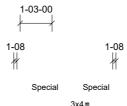
(lb) or less except when shown.

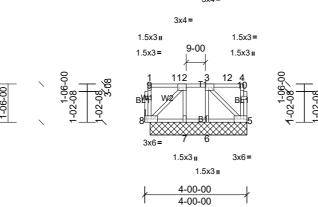
NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
- 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.

Job	Truss	Truss Type	Qty	Ply	
21071052BF	K203	Floor Supported Gable	1	1	Job Reference (optional)

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Scale = 1:45.3

Loading	(psf)	Spacing	2-00-00	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	0.90	TC	0.55	Vert(LL)	0.00	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	0.90	ВС	0.03	Vert(TL)	0.00	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2012/TPI2007	Matrix-P							Weight: 21 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) 2x4 SPF No.2(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 3-09-08. except 8= Mechanical (lb) - Max Uplift All uplift 100 (lb) or less at joint(s)

5, 6, 7, 8

Max Grav All reactions 250 (lb) or less at joint (s) 8 except 5=414 (LC 7), 6=348

(LC 7), 7=501 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD 5-10=-330/57, 4-10=-330/57 **WEBS** 2-7=-487/82, 3-6=-335/43

NOTES

- 1) Unbalanced floor live loads have been considered for
- This truss is not designed to be used as a floor truss.
- 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.
- Bearings are assumed to be: , Joint 6 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5, 7, 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.
- 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.

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 582 lb down and 134 lb up at 1-2-12, and 586 lb down and 131 lb up at 3-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of
- 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

Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90

Uniform Loads (lb/ft) Vert: 5-8=-10, 1-4=-20

Concentrated Loads (lb)

Vert: 11=-523 (B), 12=-528 (B)