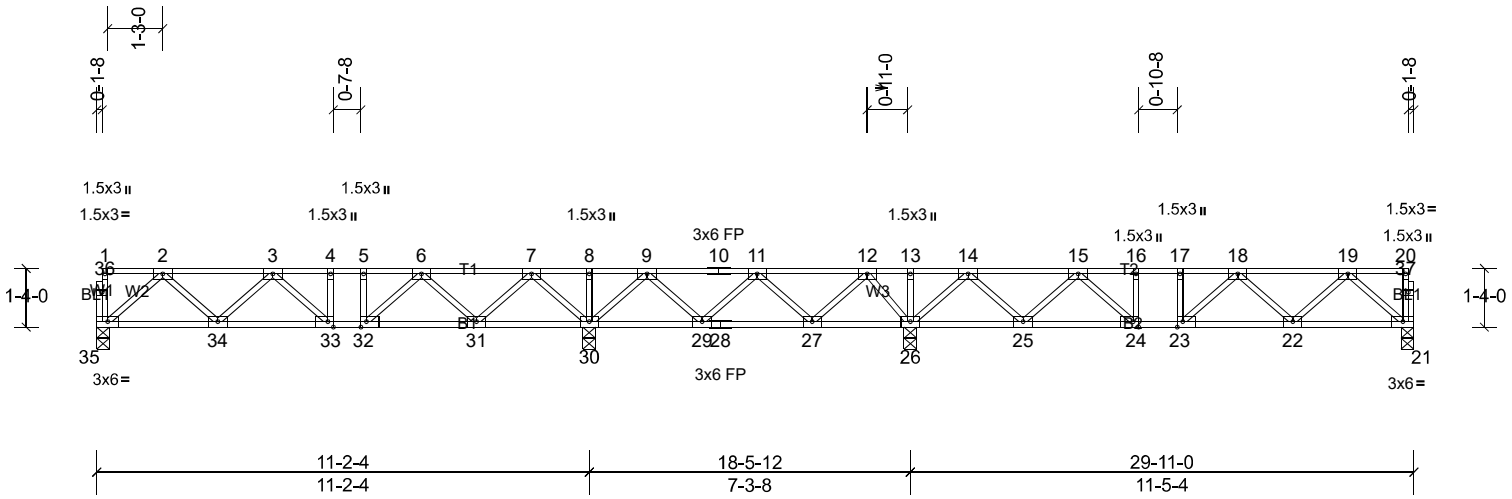
Job	Truss	Truss Type	Qty	Ply	
Lamco_Ash_Engr	FG	Floor Girder	1	1	Job Reference (optional)



Scale = 1:52.3

Plate Offsets (X, Y): [23:0-1-8,Edge], [24:0-1-8,Edge], [32:0-1-8,Edge], [33:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.04	22-23	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.06	22-23	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.02	21	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 158 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS All bearings 0-3-8.
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) except 21=542 (LC 5), 26=1217 (LC 4), 30=1205 (LC 3), 35=527 (LC 5)

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

TOP CHORD 2-3=-822/0, 3-4=-1040/0, 4-5=-1040/0, 5-6=-1040/0, 6-7=-432/7, 7-8=0/871, 8-9=0/871, 9-10=-174/541, 10-11=-174/541, 11-12=-137/555, 12-13=0/874, 13-14=0/874, 14-15=-450/0, 15-16=-1096/0, 16-17=-1096/0, 17-18=-1096/0, 18-19=-854/0

BOT CHORD 34-35=0/551, 33-34=0/1055, 32-33=0/1040, 31-32=0/837, 29-30=-587/30, 28-29=-520/293, 27-28=-520/293, 26-27=-612/0, 24-25=0/869, 23-24=0/1096, 22-23=0/1101, 21-22=0/567

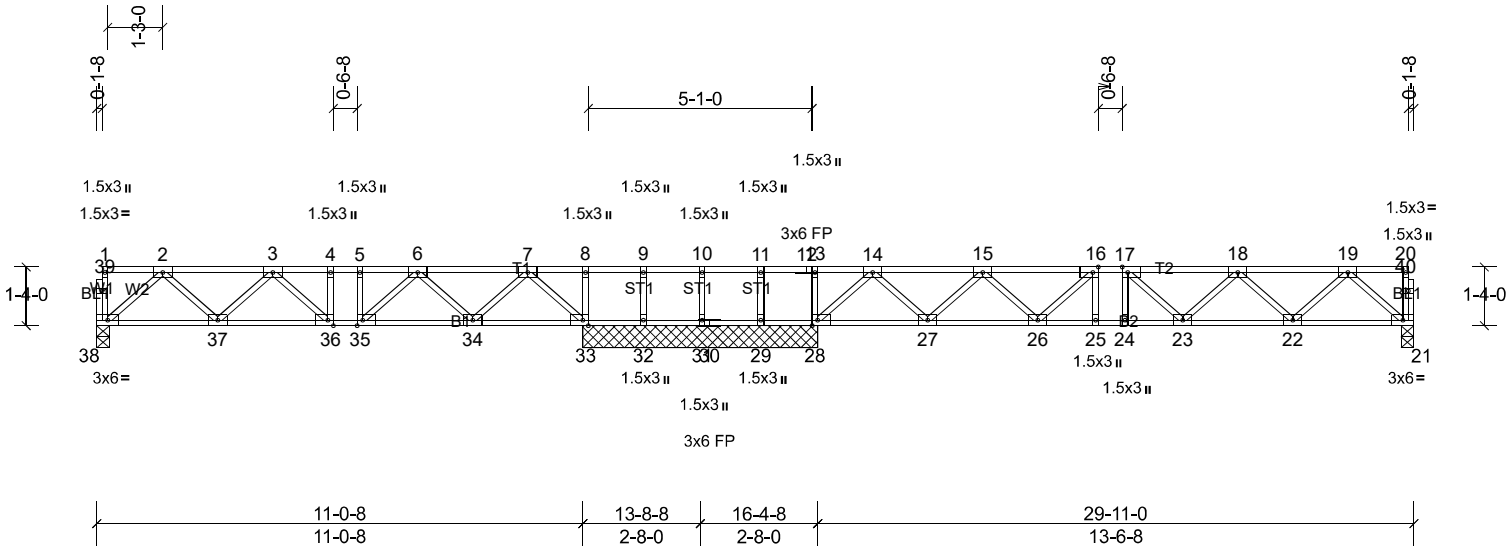
WEBS 7-30=-959/0, 2-35=-731/0, 7-31=0/618, 2-34=0/377, 6-31=-596/0, 3-34=-325/0, 6-32=0/377, 9-30=-651/0, 9-29=0/339, 11-29=-307/0, 11-27=-360/0, 12-27=0/388, 12-26=-606/0, 14-26=-981/0, 19-21=-753/0, 14-25=0/632, 19-22=0/399, 15-25=-614/0, 18-22=-343/0, 15-24=0/408

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 35, 30, 26, and 21. This connection is for uplift only and does not consider lateral forces.
4) This truss is designed in accordance with the 2015 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	
Lamco_Ash_Engr	FG1	Floor Girder	1	1	Job Reference (optional)



Scale = 1:52.3

Plate Offsets (X, Y): [16:0-1-8,Edge], [17:0-1-8,Edge], [28:0-1-8,Edge], [33:0-1-8,Edge], [35:0-1-8,Edge], [36:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.07	23-24	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.10	23-24	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.02	21	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 153 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat) *Except* BL1:2x4 SP No.2(flat)

BRACING

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

REACTIONS All bearings 5-4-0. except 38=0-3-8, 21=0-3-8
(lb) - Max Uplift All uplift 100 (lb) or less at joint(s) 29
Max Grav All reactions 250 (lb) or less at joint(s) 29, 31, 32 except
21=667 (LC 4), 28=927 (LC 1), 33=795 (LC 1), 38=539 (LC 3)

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

TOP CHORD 2-3=-845/0, 3-4=-1095/0, 4-5=-1095/0, 5-6=-1095/0, 6-7=-537/294, 7-8=0/977, 8-9=0/977, 9-10=0/977, 10-11=0/977, 11-12=0/977, 12-13=0/977, 13-14=0/977, 14-15=-630/78, 15-16=-1436/0, 16-17=-1704/0, 17-18=-1628/0, 18-19=-1126/0

BOT CHORD 37-38=0/563, 36-37=0/1091, 35-36=0/1095, 34-35=-132/922, 33-34=-479/135, 32-33=-977/0, 31-32=-977/0, 30-31=-977/0, 29-30=-977/0, 28-29=-977/0, 27-28=-271/68, 26-27=0/1171, 25-26=0/1704, 24-25=0/1704, 23-24=0/1704, 22-23=0/1520, 21-22=0/703

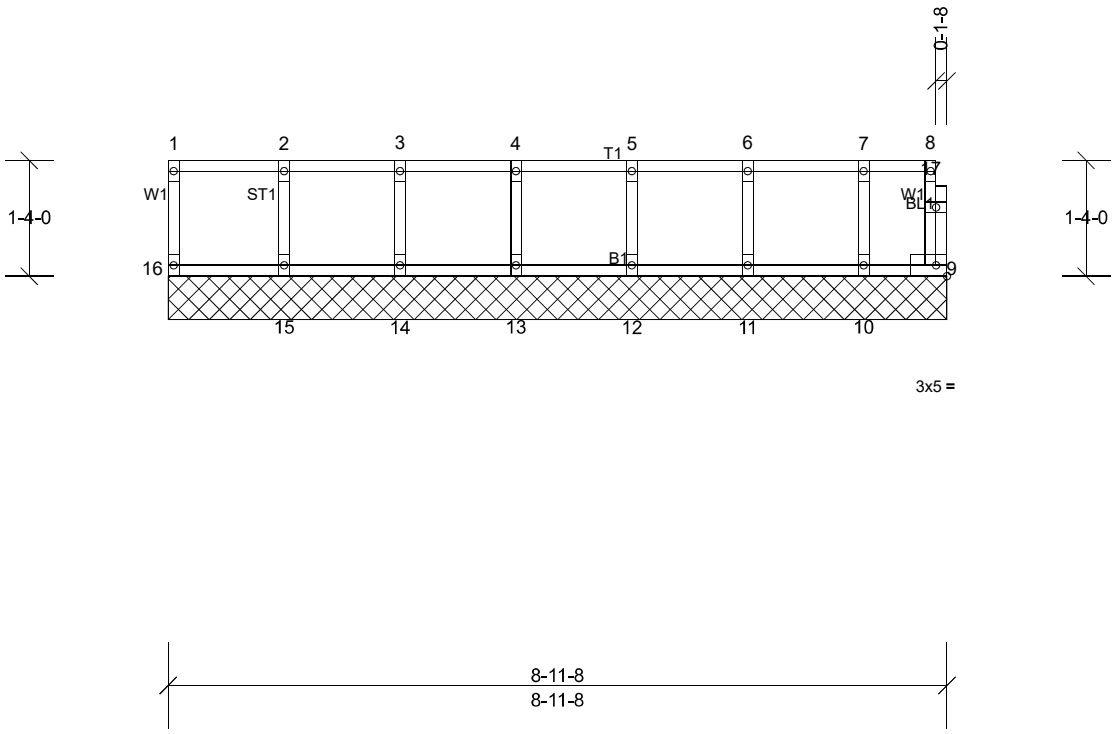
WEBS 7-33=-965/0, 2-38=-748/0, 7-34=0/631, 2-37=0/392, 6-34=-609/0, 3-37=-343/18, 6-35=0/327, 14-28=-1116/0, 19-21=-934/0, 14-27=0/814, 19-22=0/588, 15-27=-783/0, 18-22=-548/0, 15-26=0/401, 16-26=-405/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 38, 33, 28, 21, 32, 31, and 29. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
Lamco_Ash_Engr	FGE	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:26.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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	0.03	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 41 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat) *Except* BL1:2x4 SP No.2(flat)

BRACING

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

REACTIONS All bearings 8-11-8.
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 9, 10, 11, 12, 13, 14, 15, 16

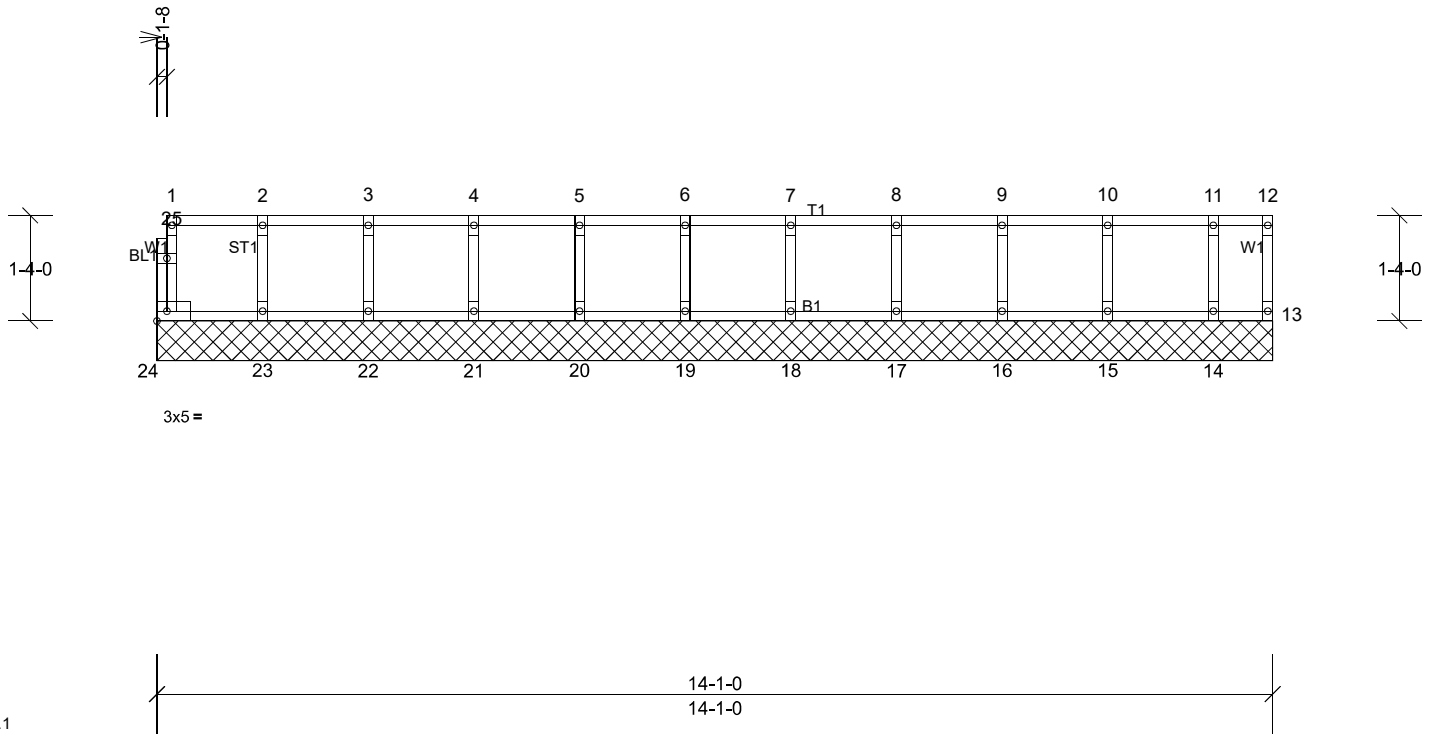
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16, 9, 15, 14, 13, 12, 11, and 10. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
Lamco_Ash_Engr	FGE1	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:29.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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	0.03	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 62 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat) *Except* BL1:2x4 SP No.2(flat)

BRACING

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

REACTIONS All bearings 14-1-0.
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

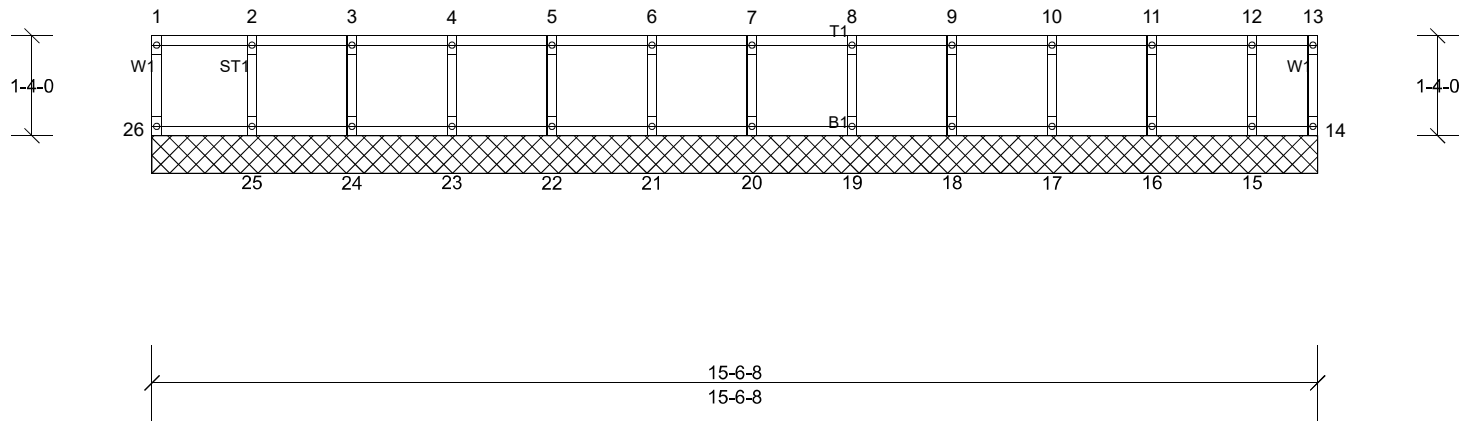
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, and 14. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
Lamco_Ash_Engr	FGE2	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:30.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 67 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(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 15-6-8.
(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

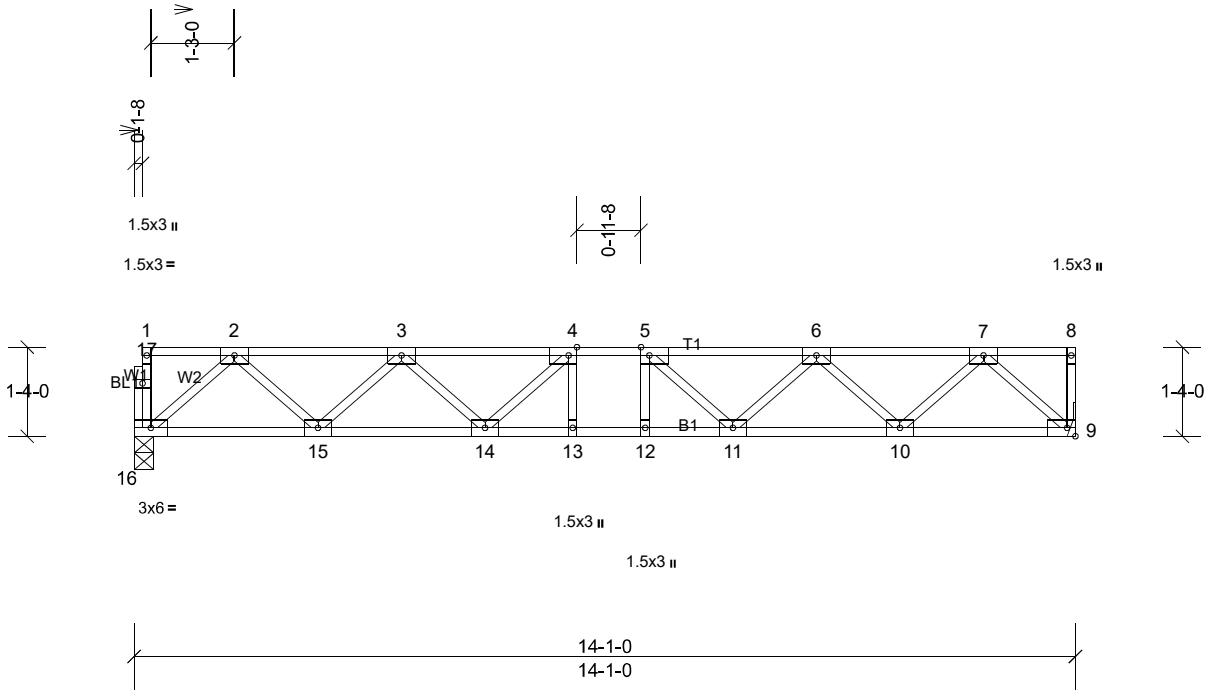
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, and 15. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 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	
Lamco_Ash_Engr	FL	Floor	7	1	Job Reference (optional)



Scale = 1:34.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.10	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.13	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 74 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS (lb/size) 9=764/ Mechanical, (min. 0-1-8), 16=758/0-3-8, (min. 0-1-8)

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

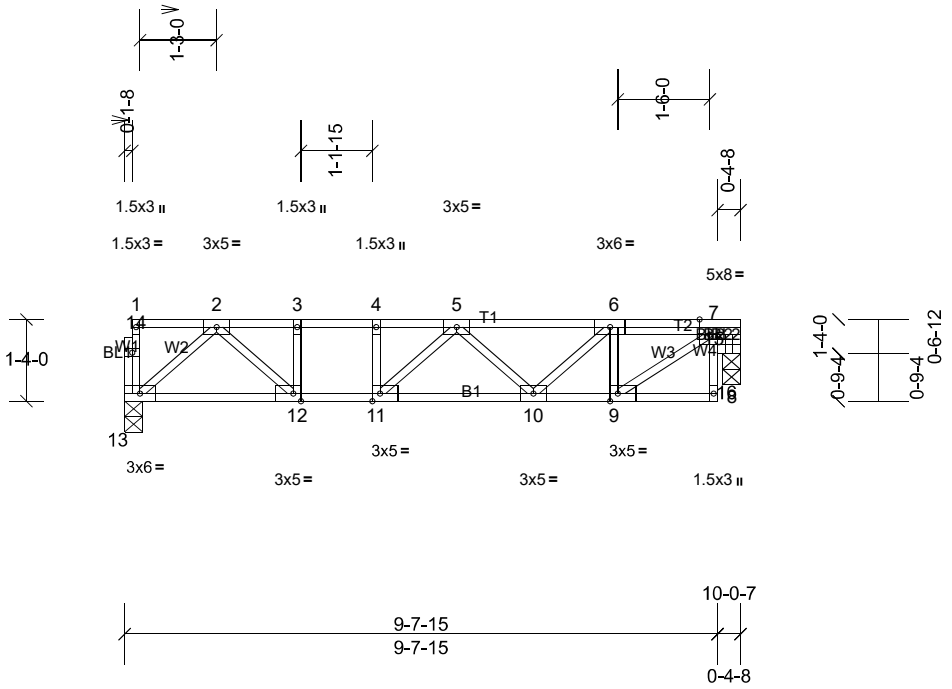
TOP CHORD	2-3=-1323/0, 3-4=-2013/0, 4-5=-2205/0, 5-6=-2003/0, 6-7=-1299/0
BOT CHORD	15-16=0/807, 14-15=0/1810, 13-14=0/2205, 12-13=0/2205, 11-12=0/2205, 10-11=0/1792, 9-10=0/776
WEBS	7-9=-1055/0, 2-16=-1072/0, 7-10=0/727, 2-15=0/718, 6-10=-685/0, 3-15=-676/0, 6-11=0/342, 3-14=0/335, 5-11=-394/0, 4-14=-385/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
Lamco_Ash_Engr	FL1	Floor	1	1	Job Reference (optional)



Scale = 1:37.6

Plate Offsets (X, Y): [7:0-2-0,Edge], [9:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.07	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.09	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.00	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 58 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat) *Except* BL1:2x4 SP No.2(flat)

BRACING

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

REACTIONS (lb/size) 13=526/0-3-8, (min. 0-1-8), 16=510/0-3-8, (min. 0-1-8)

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

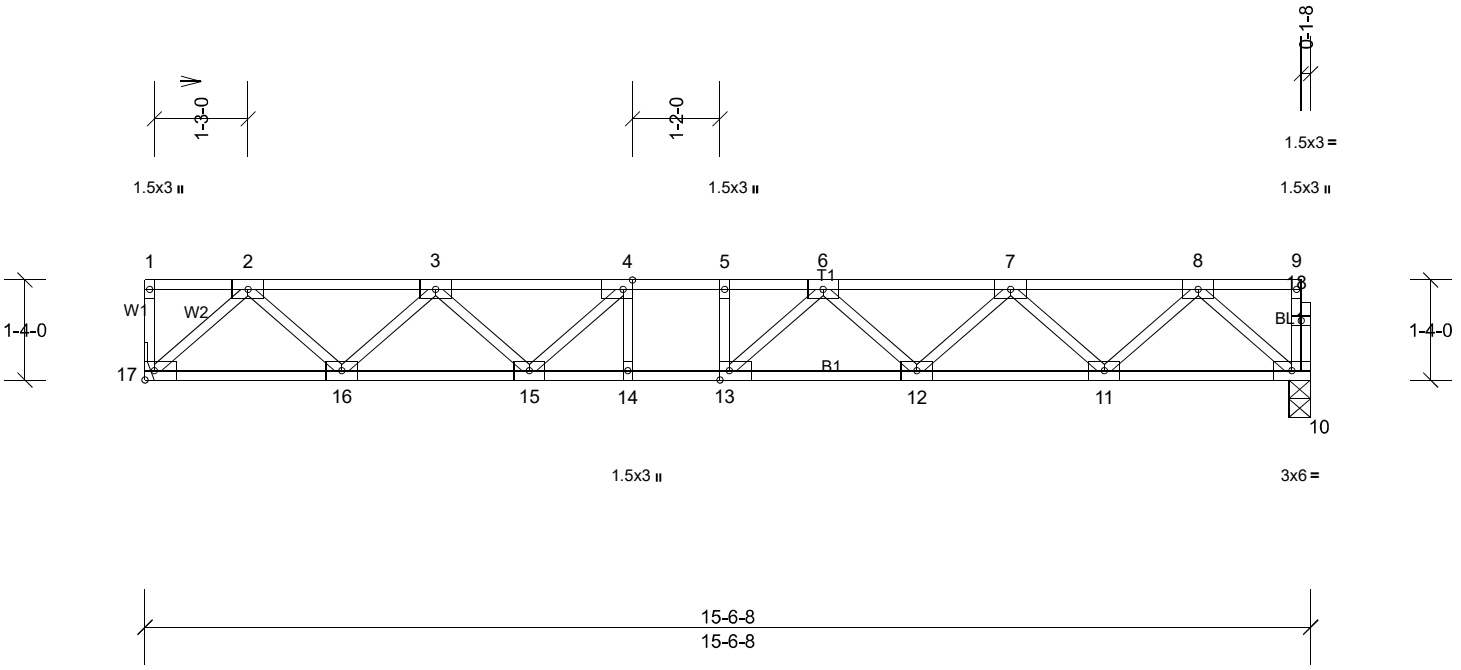
TOP CHORD	2-3=-951/0, 3-4=-951/0, 4-5=-951/0, 5-6=-922/0, 6-7=-695/0
BOT CHORD	12-13=0/530, 11-12=0/951, 10-11=0/1082, 9-10=0/694
WEBS	6-9=-453/0, 7-9=0/784, 6-10=0/310, 2-13=-701/0, 2-12=0/575, 3-12=-291/0, 7-16=-539/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
3) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 16. This connection is for uplift only and does not consider lateral forces.
4) This truss is designed in accordance with the 2015 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	
Lamco_Ash_Engr	FL2	Floor	7	1	Job Reference (optional)



Scale = 1:30.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.15	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.21	12-13	>884	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 81 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS (lb/size) 10=838/0-3-8, (min. 0-1-8), 17=844/ Mechanical, (min. 0-1-8)

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

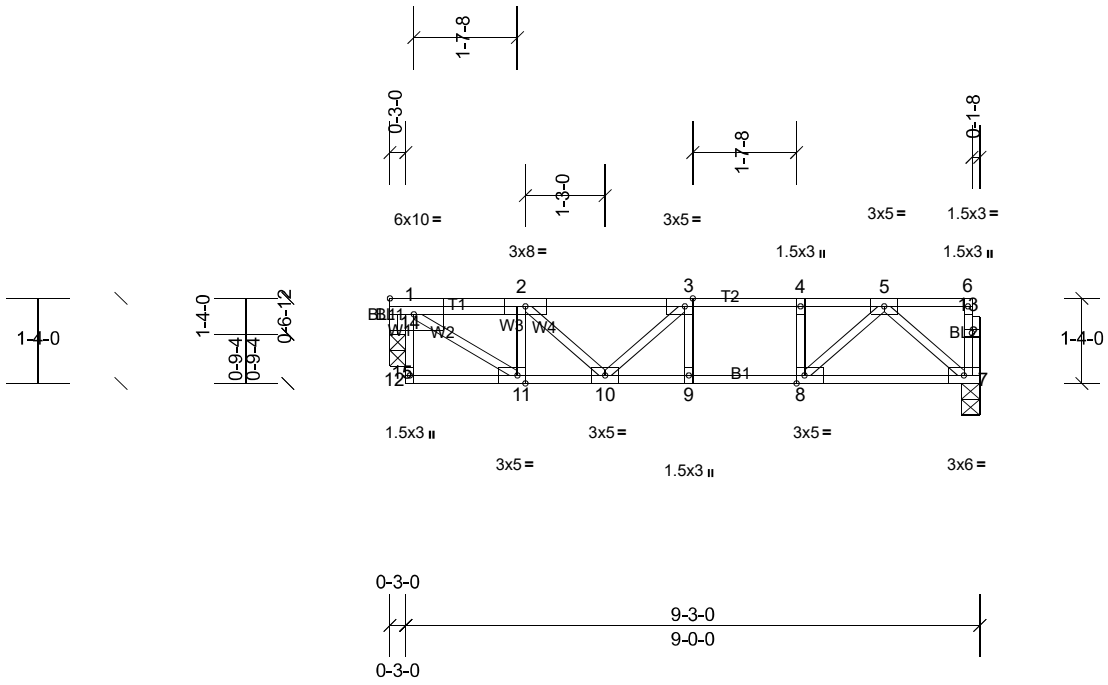
TOP CHORD	2-3=-1467/0, 3-4=-2341/0, 4-5=-2653/0, 5-6=-2653/0, 6-7=-2361/0, 7-8=-1495/0
BOT CHORD	16-17=0/865, 15-16=0/2039, 14-15=0/2653, 13-14=0/2653, 12-13=0/2624, 11-12=0/2064, 10-11=0/899
WEBS	8-10=-1194/0, 2-17=-1175/0, 8-11=0/829, 2-16=0/838, 7-11=-791/0, 3-16=-795/0, 7-12=0/413, 3-15=0/457, 6-12=-366/0, 4-15=-533/0, 6-13=-198/329

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
Lamco_Ash_Engr	FL3	Floor	1	1	Job Reference (optional)



Scale = 1:36.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.07	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 53 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat) *Except* BL2:2x4 SP No.2(flat)

BRACING

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

REACTIONS (lb/size) 7=485/0-3-8, (min. 0-1-8), 15=478/0-3-0, (min. 0-1-8)

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

TOP CHORD	1-2=-666/0, 2-3=-805/0, 3-4=-858/0, 4-5=-858/0
BOT CHORD	10-11=0/665, 9-10=0/858, 8-9=0/858, 7-8=0/486
WEBS	2-11=-412/0, 1-11=0/755, 5-7=-643/0, 5-8=0/520, 1-15=-491/0

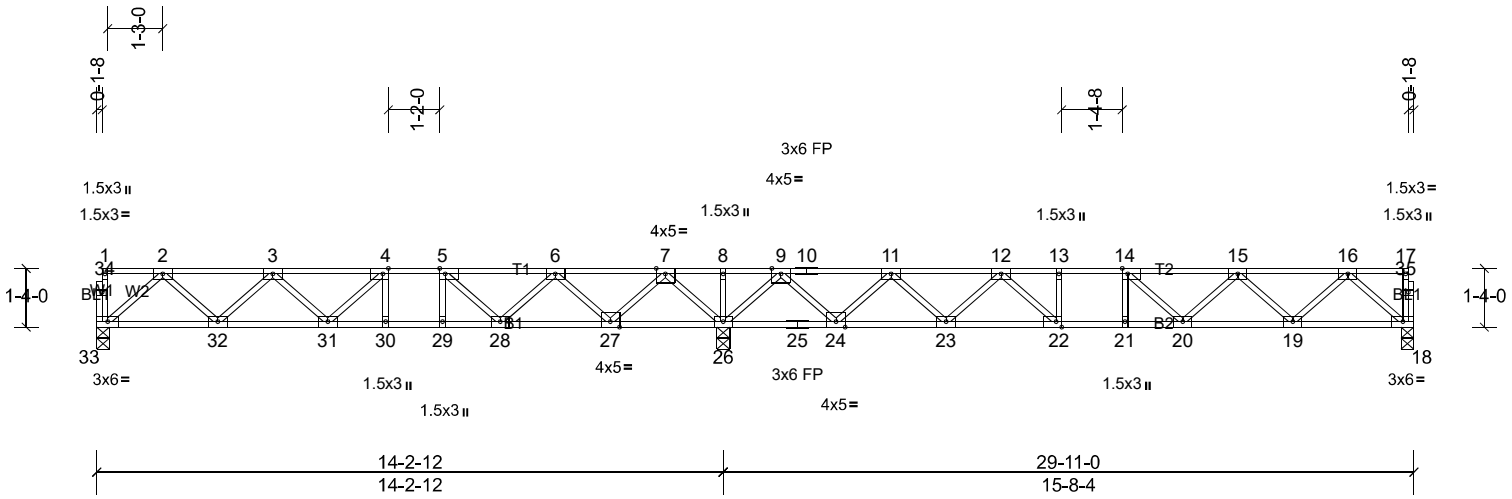
NOTES

1) Unbalanced floor live loads have been considered for this design.
2) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
4) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 15. This connection is for uplift only and does not consider lateral forces.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
Lamco_Ash_Engr	FL4	Floor	2	1	Job Reference (optional)

Run: 8.41 S Oct 26 2020 Print: 8.410 S Oct 26 2020 MiTek Industries, Inc. Thu Dec 31 10:27:01 Page: 1
ID:4bKYxRjPsKA3y17FtuO_20y3UiQ-jijNEU?SU5mrQRBIcEk?OgiLYFdgRGLlhJFGKPy3Ucu



Scale = 1:52.3

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [14:0-1-8,Edge], [22:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.12	20-21	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.16	20-21	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 154 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS (lb/size) 18=688/0-3-8, (min. 0-1-8), 26=1973/0-3-8, (min. 0-1-8), 33=591/0-3-8, (min. 0-1-8)
Max Grav 18=737 (LC 4), 26=1973 (LC 1), 33=666 (LC 3)

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

TOP CHORD 2-3=-1125/0, 3-4=-1624/0, 4-5=-1662/113, 5-6=-1283/365, 6-7=-337/824, 7-8=0/2064, 8-9=0/2064, 9-10=-278/591, 10-11=-278/591, 11-12=-1405/161, 12-13=-2055/0, 13-14=-2055/0, 14-15=-1923/0, 15-16=-1277/0

BOT CHORD 32-33=0/701, 31-32=0/1524, 30-31=-113/1662, 29-30=-113/1662, 28-29=-113/1662, 27-28=-576/942, 26-27=-1122/0, 25-26=-1033/0, 24-25=-1033/0, 23-24=-346/981, 22-23=0/1816, 21-22=0/2055, 20-21=0/2055, 19-20=0/1746, 18-19=0/781

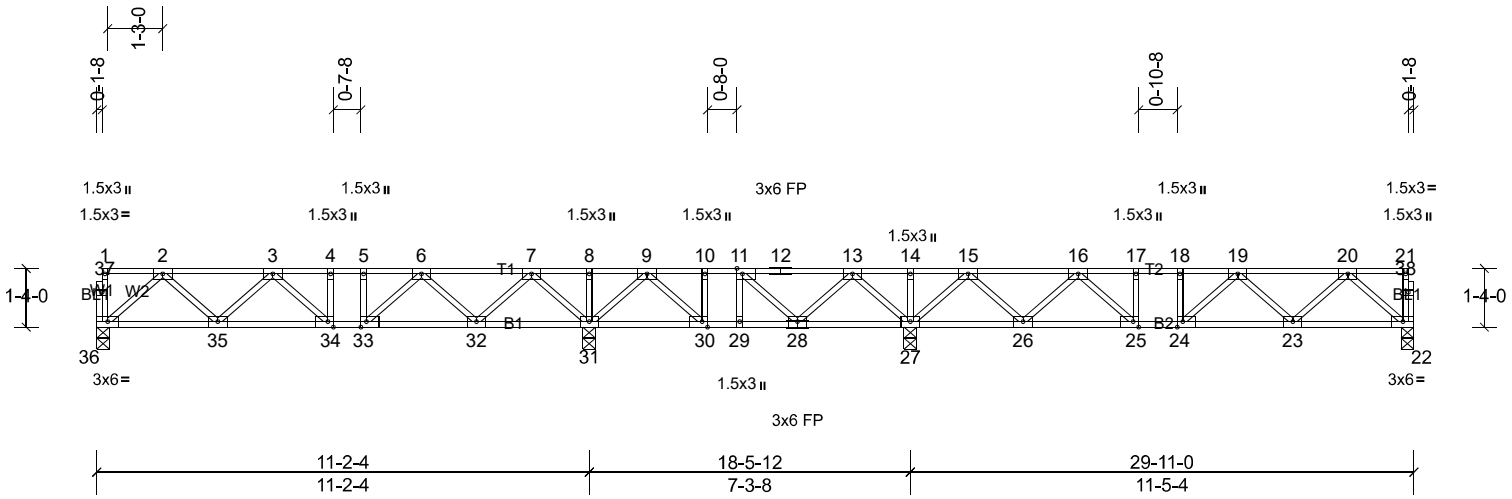
WEBS 7-26=-1319/0, 2-33=-930/0, 7-27=0/987, 2-32=0/591, 6-27=-943/0, 3-32=-555/0, 6-28=0/592, 5-28=-729/0, 4-31=-52/296, 4-30=-262/0, 5-29=0/283, 9-26=-1407/0, 16-18=-1038/0, 9-24=0/1086, 16-19=0/689, 11-24=-1046/0, 15-19=-652/0, 11-23=0/654, 12-23=-651/0, 12-22=0/620, 13-22=-253/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 33, 26, and 18. This connection is for uplift only and does not consider lateral forces.
4) This truss is designed in accordance with the 2015 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	
Lamco_Ash_Engr	FL5	Floor	1	1	Job Reference (optional)



Scale = 1:52.3

Plate Offsets (X, Y): [11:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge], [30:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.04	23-24	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.06	23-24	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	22	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 159 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS All bearings 0-3-8.
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) except 22=540 (LC 5), 27=1223 (LC 4), 31=1129 (LC 3), 36=533 (LC 14)

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

TOP CHORD 2-3=-832/0, 3-4=-1063/0, 4-5=-1063/0, 5-6=-1063/0, 6-7=-469/0, 7-8=0/751, 8-9=0/751, 9-10=-263/523, 10-11=-263/523, 11-12=-143/551, 12-13=-143/551, 13-14=0/907, 14-15=0/907, 15-16=-436/81, 16-17=-1087/0, 17-18=-1087/0, 18-19=-1087/0, 19-20=-850/0

BOT CHORD 35-36=0/557, 34-35=0/1071, 33-34=0/1063, 32-33=0/868, 30-31=-578/75, 29-30=-523/263, 28-29=-523/263, 27-28=-602/0, 25-26=0/857, 24-25=0/1087, 23-24=0/1095, 22-23=0/565

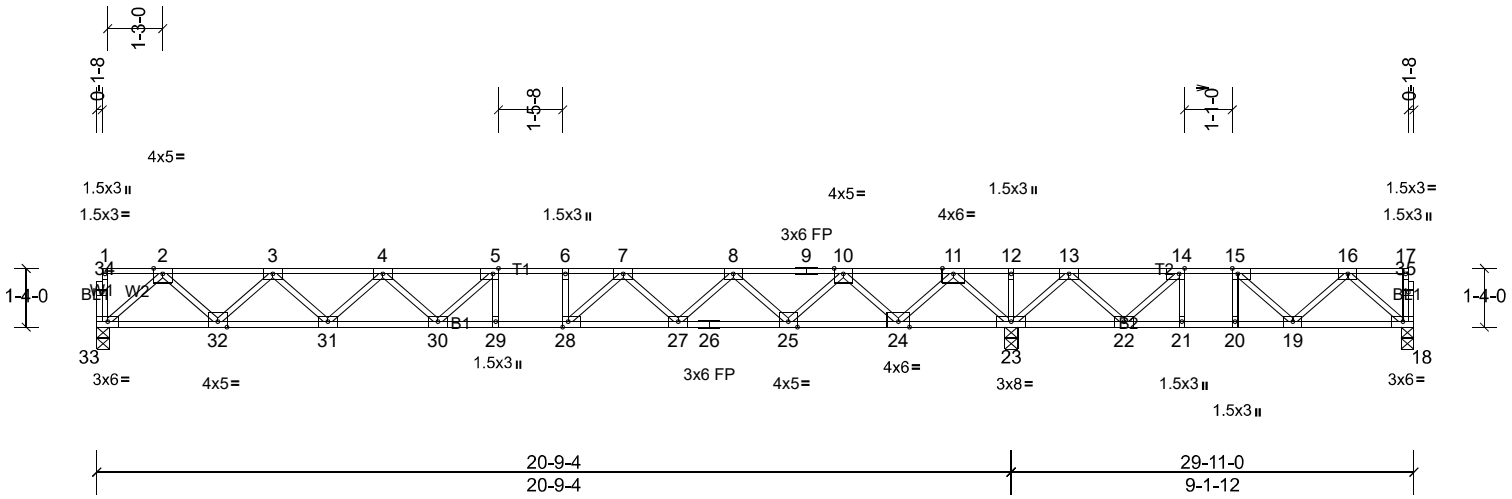
WEBS 7-31=-934/0, 2-36=-739/0, 7-32=0/601, 2-35=0/384, 6-32=-578/0, 3-35=-332/0, 6-33=0/367, 13-27=-669/0, 9-31=-543/0, 13-28=0/328, 9-30=0/392, 11-28=-303/0, 15-27=-987/0, 20-22=-750/0, 15-26=0/637, 20-23=0/396, 16-26=-619/0, 19-23=-340/0, 16-25=0/439

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 36, 31, 27, and 22. This connection is for uplift only and does not consider lateral forces.
4) This truss is designed in accordance with the 2015 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	
Lamco_Ash_Engr	FL6	Floor	1	1	Job Reference (optional)



Scale = 1:52.3

Plate Offsets (X, Y): [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [28:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.31	29-30	>787	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.43	29-30	>579	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.06	23	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 154 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat) *Except* T2:2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* B2:2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

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

REACTIONS (lb/size) 18=107/0-3-8, (min. 0-1-8), 23=2182/0-3-8, (min. 0-1-8), 33=962/0-3-8, (min. 0-1-8)
Max Uplift 18=-228 (LC 3)
Max Grav 18=364 (LC 4), 23=2182 (LC 1), 33=973 (LC 10)

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

TOP CHORD 2-3=-1785/0, 3-4=-2930/0, 4-5=-3491/0, 5-6=-3552/0, 6-7=-3552/0, 7-8=-2762/0, 8-9=-1552/0, 9-10=-1552/0, 10-11=0/466, 11-12=0/2873, 12-13=0/2873, 13-14=-54/1722, 14-15=-467/1101, 15-16=-459/586

BOT CHORD 32-33=0/1053, 31-32=0/2486, 30-31=0/3355, 29-30=0/3552, 28-29=0/3552, 27-28=0/3235, 26-27=0/2291, 25-26=0/2291, 24-25=0/777, 23-24=-1535/0, 22-23=-2204/0, 21-22=-1101/467, 20-21=-1101/467, 19-20=-1101/467, 18-19=-243/381

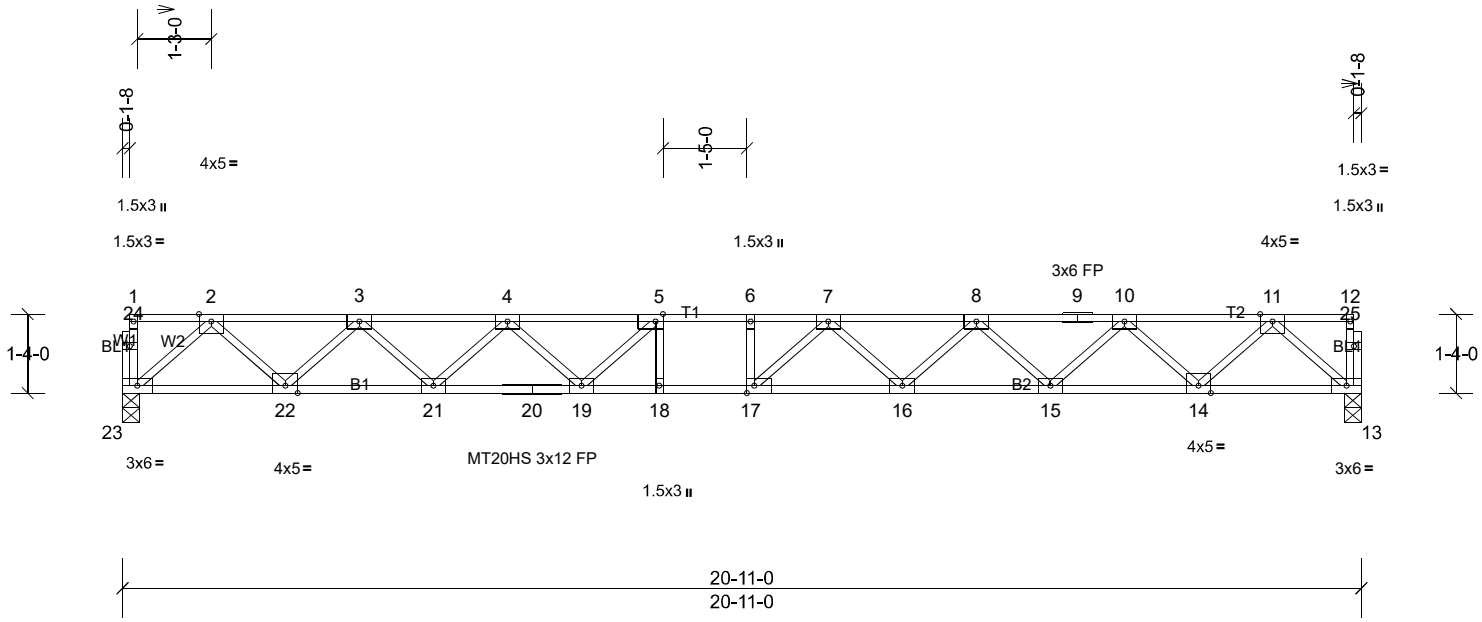
WEBS 11-23=-1818/0, 2-33=-1400/0, 11-24=0/1488, 2-32=0/1017, 10-24=-1465/0, 3-32=-975/0, 10-25=0/1097, 3-31=0/618, 8-25=-1048/0, 4-31=-592/0, 8-27=0/673, 4-30=-32/332, 7-27=-679/0, 5-30=-365/238, 7-28=0/705, 6-28=-276/0, 13-23=-1145/0, 16-18=-506/322, 13-22=0/919, 16-19=-477/108, 14-22=-1110/0, 15-19=-11/700, 14-21=0/412, 15-20=-390/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 33, 23, and 18. This connection is for uplift only and does not consider lateral forces.
4) This truss is designed in accordance with the 2015 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	
Lamco_Ash_Engr	FL7	Floor	7	1	Job Reference (optional)



Scale = 1:38.9

Plate Offsets (X, Y): [5:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.40	16-17	>624	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.55	16-17	>452	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.08	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 108 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* B2:2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.2(flat)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 13=1130/0-3-8, (min. 0-1-8), 23=1130/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-3=-2127/0, 3-4=-3597/0, 4-5=-4485/0, 5-6=-4819/0, 6-7=-4819/0, 7-8=-4493/0, 8-9=-3594/0, 9-10=-3594/0, 10-11=-2127/0
BOT CHORD	22-23=0/1231, 21-22=0/2995, 20-21=0/4170, 19-20=0/4170, 18-19=0/4819, 17-18=0/4819, 16-17=0/4774, 15-16=0/4174, 14-15=0/2993, 13-14=0/1231
WEBS	11-13=-1637/0, 2-23=-1636/0, 11-14=0/1246, 2-22=0/1246, 10-14=-1204/0, 3-22=-1207/0, 10-15=0/836, 3-21=0/838, 8-15=-807/0, 4-21=-797/0, 8-16=0/443, 4-19=0/548, 7-16=-437/0, 5-19=-695/17, 7-17=-290/470

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 3x5 MT20 unless otherwise indicated.
4) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23 and 13. This connection is for uplift only and does not consider lateral forces.
5) This truss is designed in accordance with the 2015 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