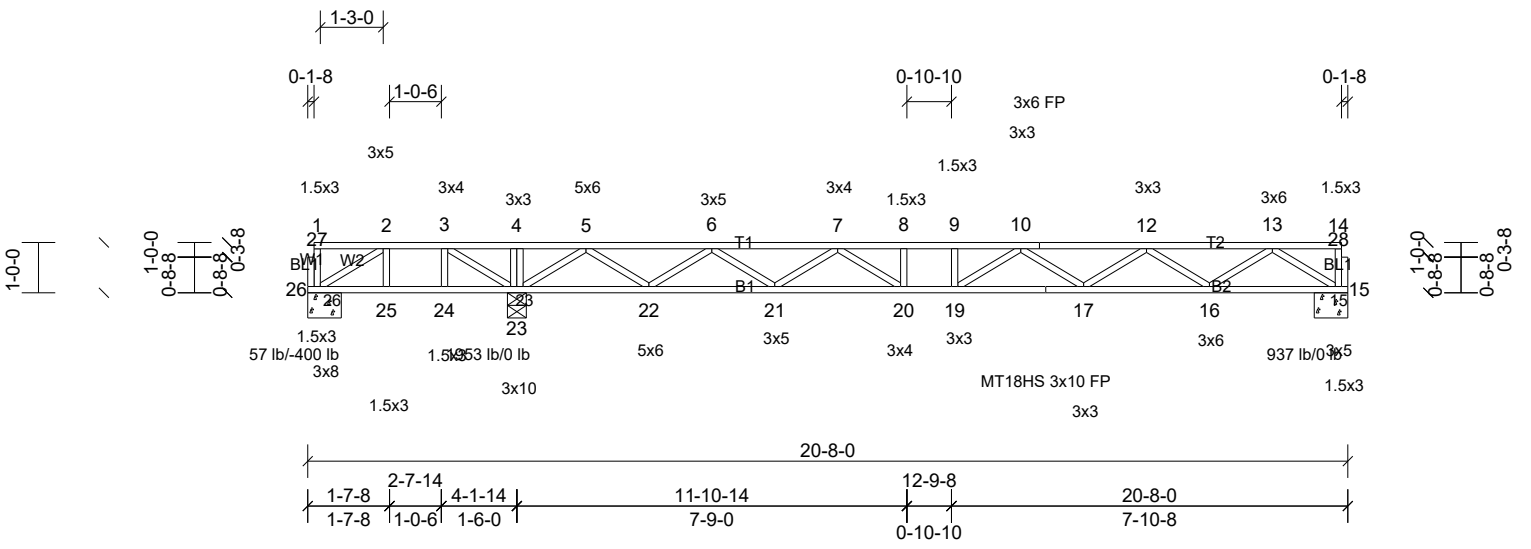
Job	Truss	Truss Type	Qty	Ply	
23081661F1	F100	Truss	7	1	Job Reference (optional)



Scale = 1:46

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [15:0-2-0,Edge], [20:0-1-8,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	0.73	Vert(LL)	-0.22	17-19	>886	480	MT18HS	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.36	17-19	>546	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.05	15	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 102 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP SS(flat)
BOT CHORD	2x4 SP No.1(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 6-0-0 oc bracing.

REACTIONS (lb/size) 15=934/0-8-0, (min. 0-1-8), 23=1953/0-4-8, (min. 0-1-8), 26=-248/0-8-0, (min. 0-1-8)
Max Uplift 26=-400 (LC 4)
Max Grav 15=937 (LC 7), 23=1953 (LC 1), 26=57 (LC 3)

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

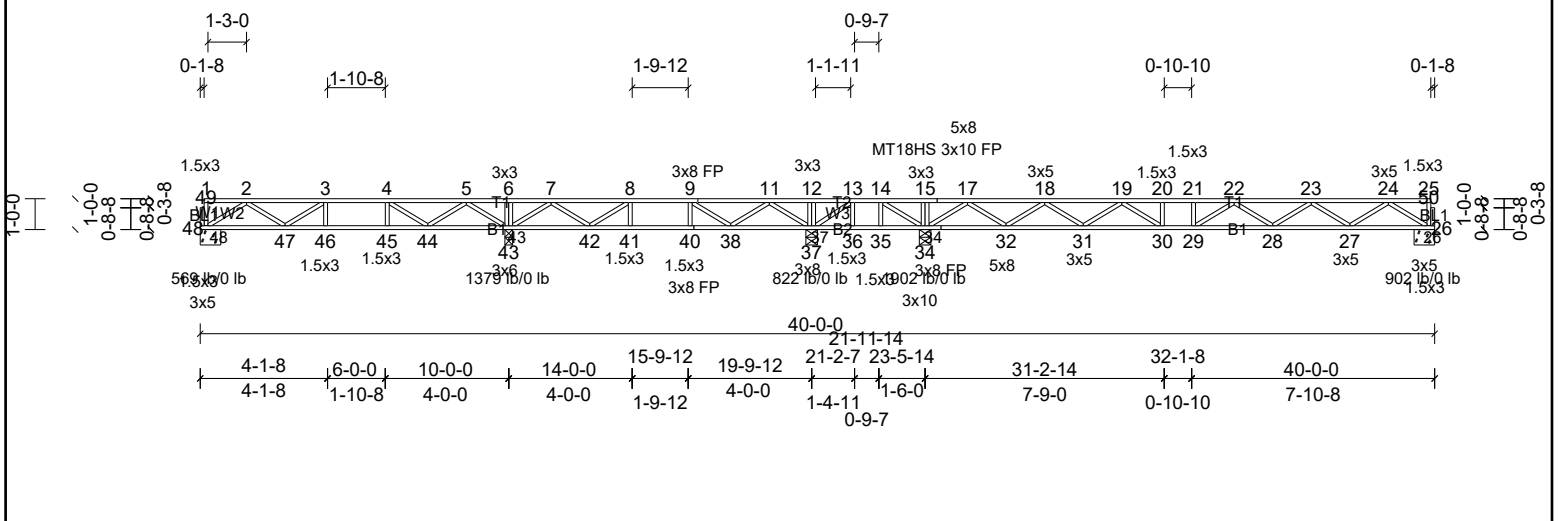
TOP CHORD	2-3=0/1023, 3-4=0/2360, 4-5=0/2360, 5-6=-753/0, 6-7=-2668/0, 7-8=-3822/0, 8-9=-3822/0, 9-10=-3822/0, 10-11=-3529/0, 11-12=-3529/0, 12-13=-2268/0
BOT CHORD	25-26=-1023/0, 24-25=-1023/0, 23-24=-1023/0, 22-23=-578/0, 21-22=0/1939, 20-21=0/3385, 19-20=0/3822, 18-19=0/3880, 17-18=0/3880, 16-17=0/3123, 15-16=0/1379
WEBS	3-23=-1718/0, 2-26=0/1209, 2-25=-322/0, 3-24=0/358, 5-23=-2123/0, 13-15=-1631/0, 5-22=0/1523, 13-16=0/1085, 6-22=-1460/0, 12-16=-1044/0, 6-21=0/899, 12-17=0/496, 7-21=-883/0, 10-17=-429/0, 7-20=0/734, 10-19=-332/292, 8-20=-287/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 1.5x3 MT20 unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 400 lb uplift at joint 26.
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	
23081661F1	F101	Truss	3	1	Job Reference (optional)



Scale = 1:75

Plate Offsets (X, Y): [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [26:0-2-0,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge], [48:0-2-0,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	0.93	Vert(LL)	-0.22	28-29	>906	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.35	28-29	>560	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	26	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 194 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING

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

REACTIONS All bearings 0-8-0. except 43=0-3-0, 37=0-4-8, 34=0-4-8

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) except 26=902 (LC 5), 34=1903 (LC 5), 37=823 (LC 4), 43=1379 (LC 3), 48=570 (LC 6)

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

TOP CHORD 2-3=-1162/0, 3-4=-1423/0, 4-5=-823/53, 5-6=0/1176, 6-7=0/1176, 7-8=-525/180, 8-9=-898/80, 9-10=-417/383, 10-11=-417/383, 11-12=0/1510, 12-13=0/1509, 13-14=0/2097, 14-15=0/3031, 15-16=0/3031, 16-17=0/3031, 18-19=-2214/0, 19-20=-3492/0, 20-21=-3492/0, 21-22=-3492/0, 22-23=-3327/0, 23-24=-2162/0

BOT CHORD 47-48=0/830, 46-47=0/1423, 45-46=0/1423, 44-45=0/1423, 43-44=-348/282, 42-43=-368/132, 41-42=-80/898, 40-41=-80/898, 39-40=-80/898, 38-39=-80/898, 37-38=-651/0, 36-37=-2097/0, 35-36=-2097/0, 34-35=-2097/0, 33-34=-1220/0, 32-33=-1220/0, 31-32=0/1436, 30-31=0/2984, 29-30=0/3492, 28-29=0/3623, 27-28=0/2968, 26-27=0/1324

WEBS 5-43=-1223/0, 2-48=-980/0, 5-44=0/740, 2-47=0/406, 4-44=-840/0, 3-47=-313/31, 7-43=-1052/0, 11-37=-1104/0, 7-42=0/530, 11-38=0/638, 8-42=-529/0, 9-38=-707/0, 14-34=-1390/0, 13-37=-66/870, 13-36=-294/0, 14-35=0/288, 17-34=-2158/0, 24-26=-1566/0, 17-32=0/1584, 24-27=0/1022, 18-32=-1529/0, 23-27=-984/0, 18-31=0/962, 23-28=0/438, 19-31=-954/0, 22-28=-362/0, 19-30=0/804, 22-29=-404/210, 20-30=-305/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
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	
23081661F1	F102	Truss	6	1	Job Reference (optional)

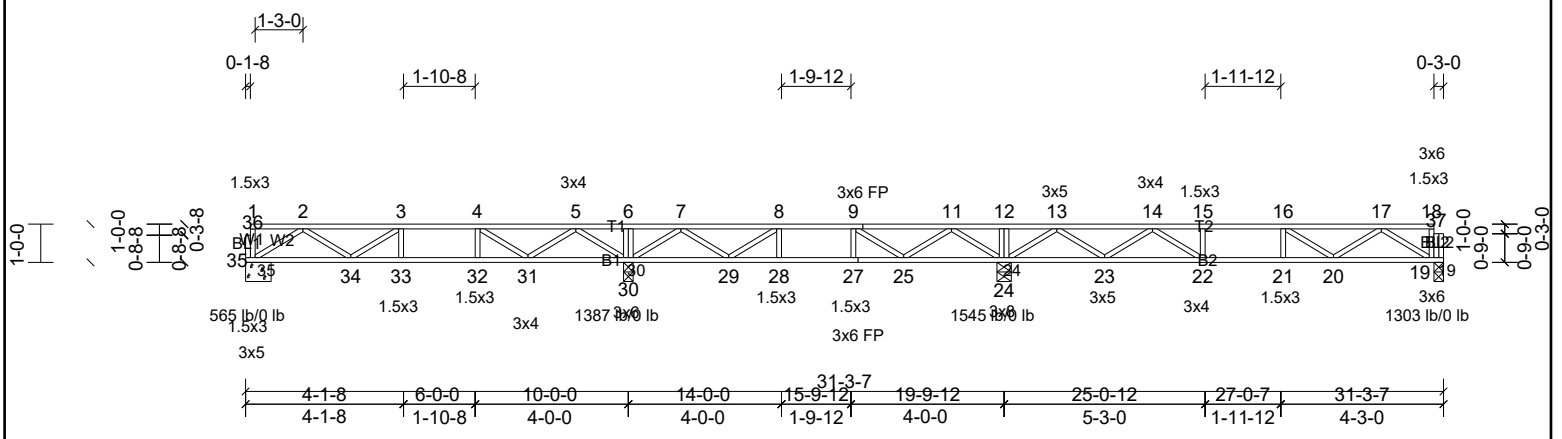


Plate Offsets (X, Y): [19:0-1-8,Edge], [22:0-1-8,Edge], [35:0-2-0,Edge]

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	0.69	Vert(LL)	-0.08	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.12	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	19	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 150 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 6-0-0 oc bracing.

REACTIONS All bearings 0-3-0. except 35=0-8-0, 24=0-4-8

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) except 19=1304 (LC 13), 24=1546 (LC 11), 30=1387 (LC 3), 35=566 (LC 5)

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

TOP CHORD 19-37=-718/0, 18-37=-654/0, 2-3=-1150/0, 3-4=-1400/0, 4-5=-791/53, 5-6=0/1178, 6-7=0/1178, 7-8=-562/344, 8-9=-958/263, 9-10=-503/501, 10-11=-503/501, 11-12=0/1478, 12-13=0/1478, 13-14=-792/44, 14-15=-1845/0, 15-16=-1845/0, 16-17=-1466/0

BOT CHORD 34-35=0/824, 33-34=0/1400, 32-33=0/1400, 31-32=0/1400, 30-31=-348/242, 29-30=-468/153, 28-29=-263/958, 27-28=-263/958, 26-27=-263/958, 25-26=-263/958, 24-25=-725/57, 23-24=-376/96, 22-23=0/1473, 21-22=0/1845, 20-21=0/1845, 19-20=0/1044

WEBS 5-30=-1226/0, 2-35=-974/0, 5-31=0/742, 2-34=0/398, 4-31=-842/0, 3-34=-300/32, 11-24=-1137/0, 7-30=-1068/0, 11-25=0/634, 7-29=0/548, 9-25=-687/0, 8-29=-555/0, 13-24=-1455/0, 17-19=-1106/0, 13-23=0/898, 17-20=0/518, 14-23=-894/0, 16-20=-456/0, 14-22=0/668, 15-22=-258/0

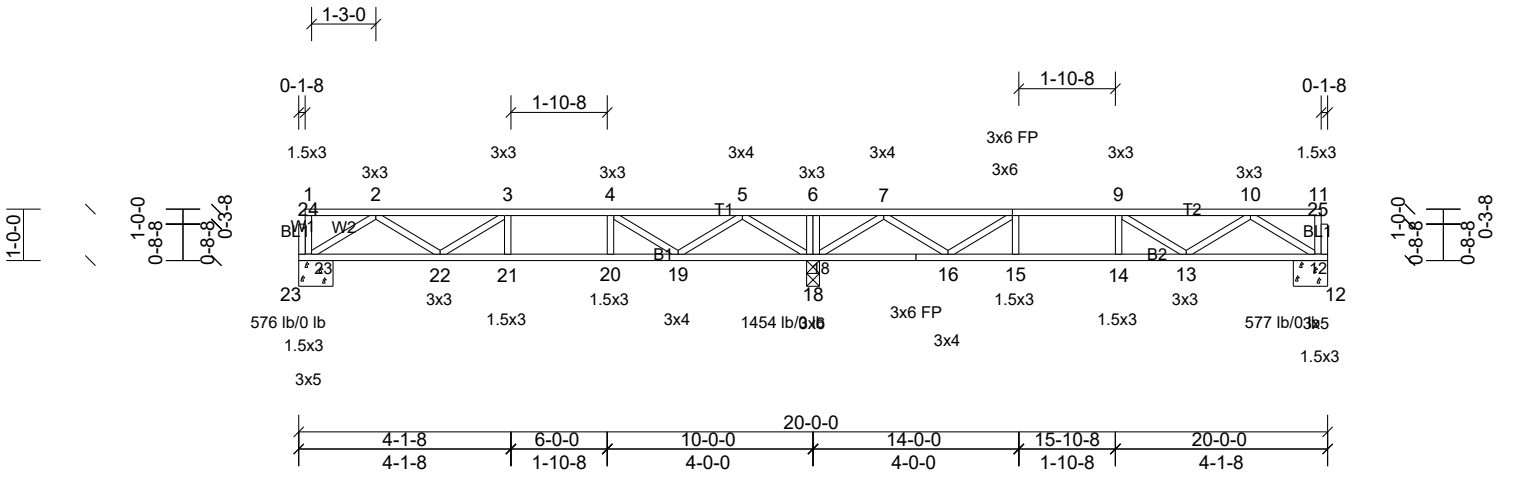
NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) 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.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (lb/ft)
   Vert: 19-35=-10, 1-18=-120
   Concentrated Loads (lb)
   Vert: 18=-635

Job	Truss	Truss Type	Qty	Ply	
23081661F1	F103	Truss	4	1	Job Reference (optional)



Scale = 1:45

Plate Offsets (X, Y): [8:0-1-8,Edge], [12:0-2-0,Edge], [23:0-2-0,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)	-0.08	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.11	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 96 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, Except: 6-0-0 oc bracing: 18-19,16-18.

REACTIONS (lb/size) 12=550/0-8-0, (min. 0-1-8), 18=1454/0-3-0, (min. 0-1-8), 23=549/0-8-0, (min. 0-1-8)
Max Grav 12=577 (LC 7), 18=1454 (LC 1), 23=576 (LC 10)

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

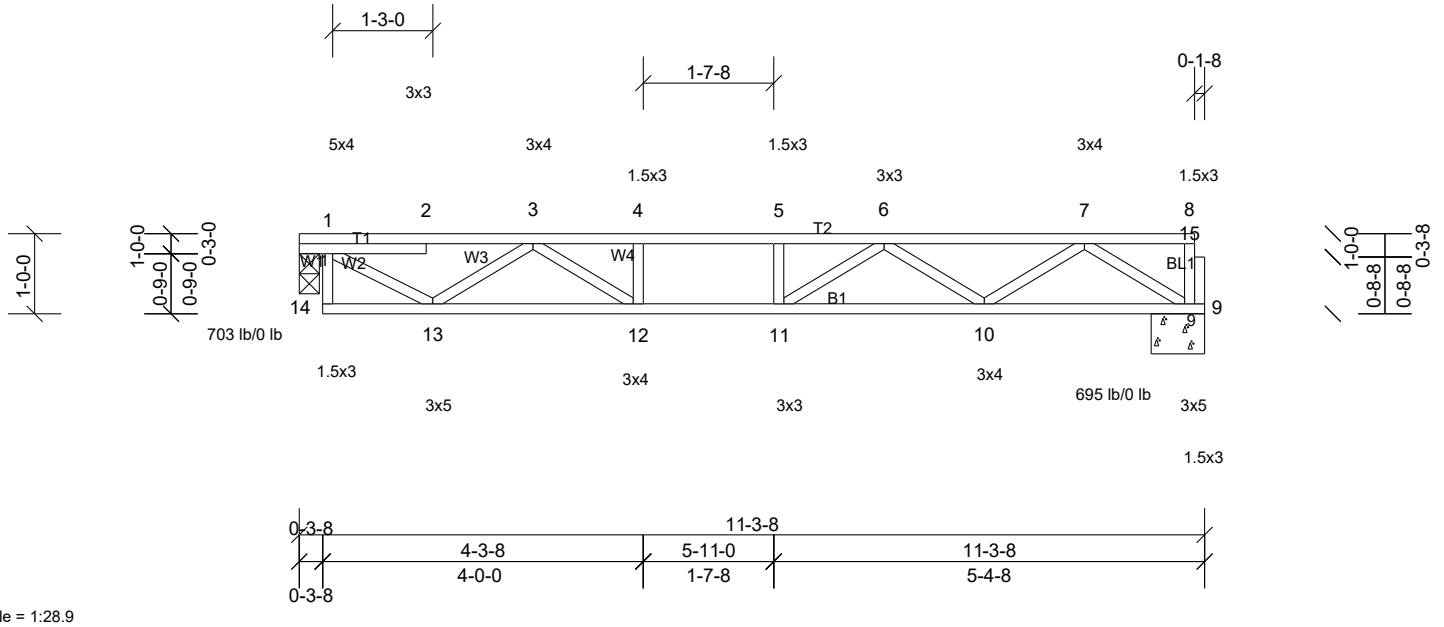
TOP CHORD	2-3=-1184/0, 3-4=-1463/0, 4-5=-879/0, 5-6=0/1024, 6-7=0/1024, 7-8=-888/0, 8-9=-1463/0, 9-10=-1188/0
BOT CHORD	22-23=0/839, 21-22=0/1463, 20-21=0/1463, 19-20=0/1463, 18-19=-229/352, 17-18=-236/353, 16-17=-236/353, 15-16=0/1457, 14-15=0/1463, 13-14=0/1463, 12-13=0/841
WEBS	5-18=-1201/0, 2-23=-992/0, 5-19=0/720, 2-22=0/421, 4-19=-814/0, 3-22=-335/0, 7-18=-1196/0, 10-12=-994/0, 7-16=0/730, 10-13=0/423, 8-16=-806/0, 9-13=-331/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
23081661F1	F104	Truss	6	1	Job Reference (optional)



Scale = 1:28.9

Plate Offsets (X, Y): [1:0-1-8,Edge], [9:0-2-0,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	0.56	Vert(LL)	-0.10	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.16	10-11	>827	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 56 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 (lb/size) 1=703/0-3-0, (min. 0-1-8), 9=695/0-8-0, (min. 0-1-8)

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

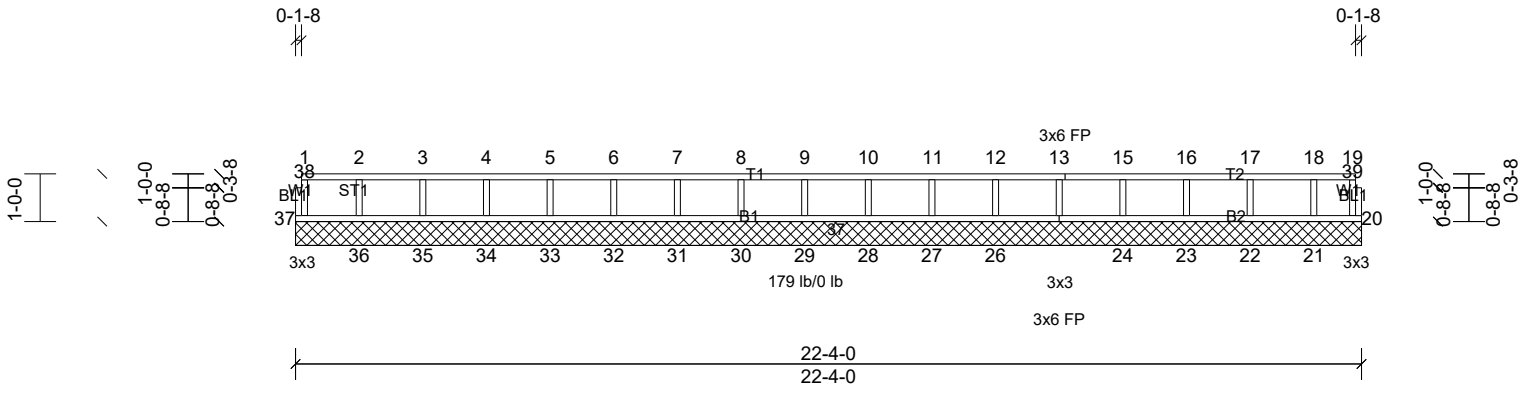
TOP CHORD	1-2=-862/0, 2-3=-857/0, 3-4=-2095/0, 4-5=-2095/0, 5-6=-2095/0, 6-7=-1555/0
BOT CHORD	12-13=0/1613, 11-12=0/2095, 10-11=0/2032, 9-10=0/1013
WEBS	7-9=-1197/0, 1-13=0/1008, 7-10=0/662, 3-13=-923/0, 6-10=-582/0, 3-12=0/703, 6-11=-87/321, 4-12=-287/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
3) 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.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
23081661F1	KW2	Truss	1	1	Job Reference (optional)



Scale = 1:48.5

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 88 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 22-4-0.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37

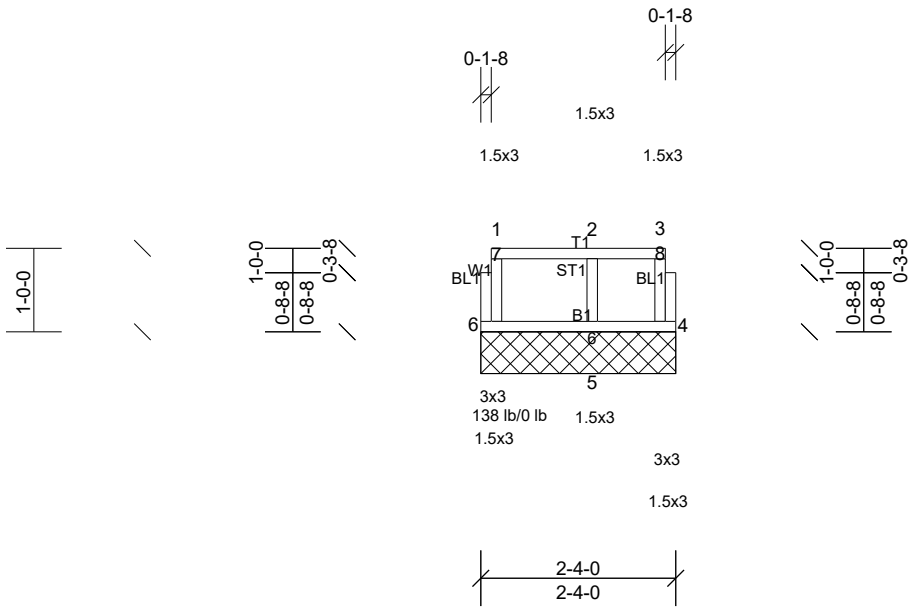
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 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

Job	Truss	Truss Type	Qty	Ply	
23081661F1	KW3	Truss	1	1	Job Reference (optional)



Scale = 1:27.7

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 12 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 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=48/2-4-0, (min. 0-1-8), 5=138/2-4-0, (min. 0-1-8), 6=70/2-4-0, (min. 0-1-8)

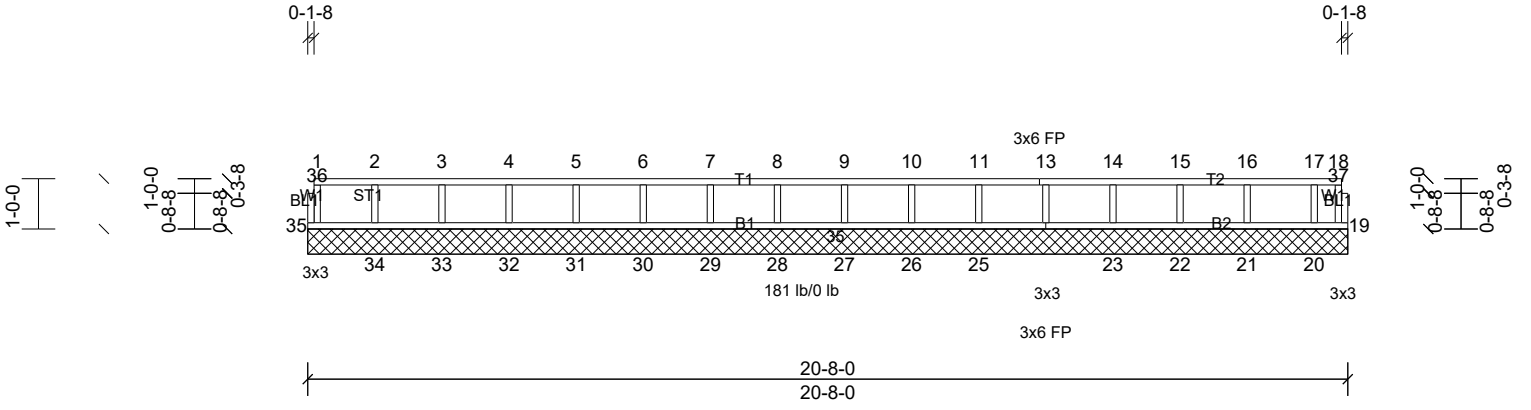
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
23081661F1	KW4	Truss	1	1	Job Reference (optional)



Scale = 1:46

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 82 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 20-8-0.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35

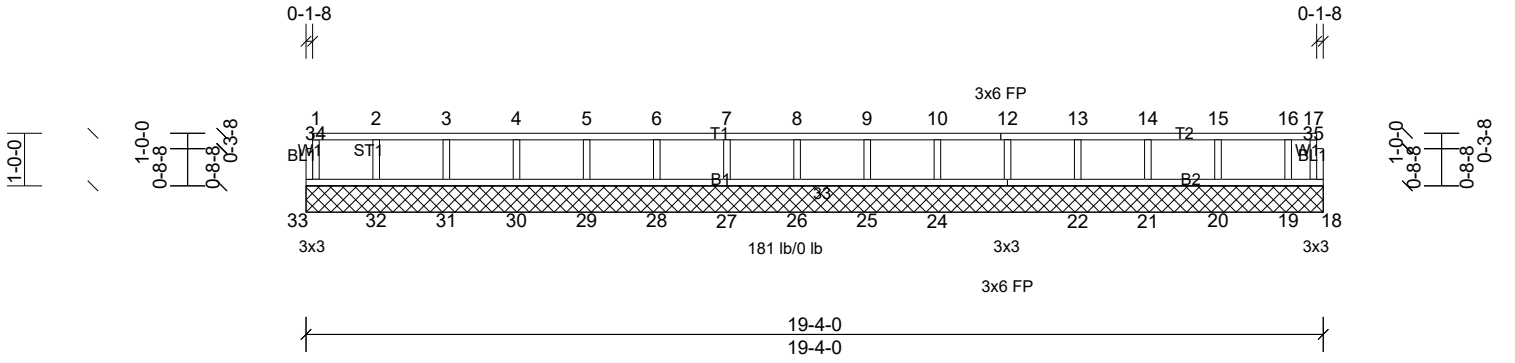
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) 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

Job	Truss	Truss Type	Qty	Ply	
23081661F1	KW5	Truss	1	1	Job Reference (optional)



Scale = 1:44

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 77 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 19-4-0.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33

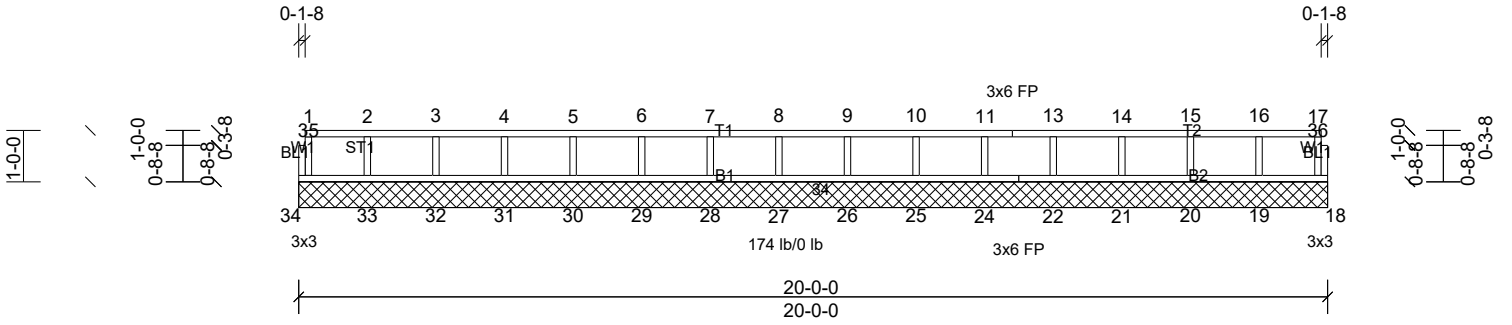
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) 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

Job	Truss	Truss Type	Qty	Ply	
23081661F1	KW6	Truss	1	1	Job Reference (optional)



Scale = 1:45

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 79 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 20-0-0.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34

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) 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