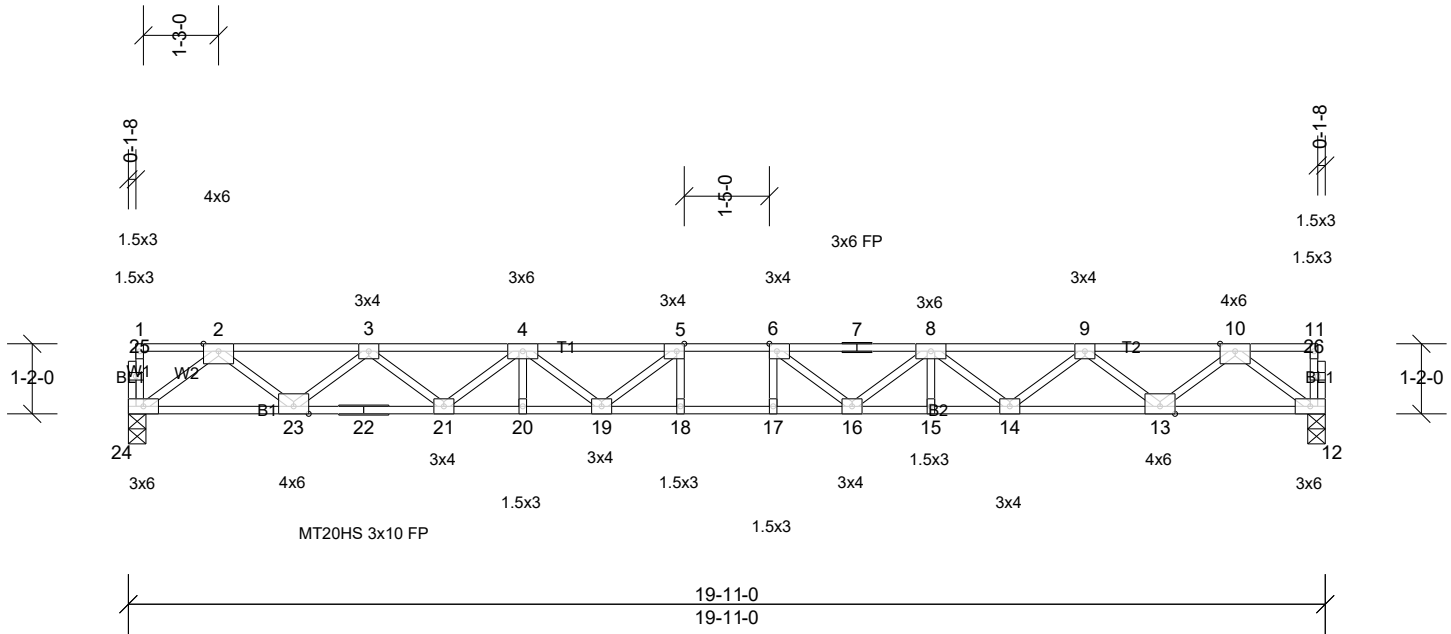


Job 2ND FLR	Truss F01	Truss Type Floor	Qty 7	Ply 1	Job Reference (optional)
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Scale = 1:38.5

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.35	17-18	>678	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.48	17-18	>494	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S								
											Weight: 102 lb	FT = 20%F, 11%E

**LUMBER**

TOP CHORD 2x4 SP No.1(flat)  
BOT CHORD 2x4 SP No.2(flat) \*Except\* B2:2x4 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 10-0-0 oc bracing.

**REACTIONS** (lb/size) 12=860/0-3-8, (min. 0-1-8), 24=860/0-3-8, (min. 0-1-8)

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

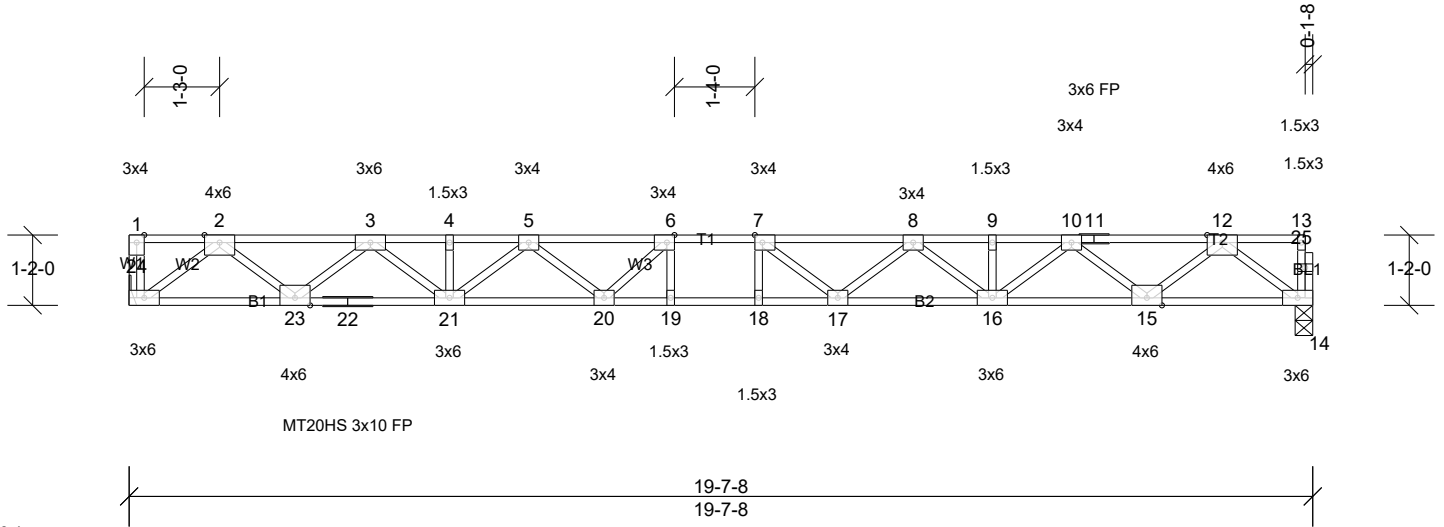
TOP CHORD 2-3=-1860/0, 3-4=-3114/0, 4-5=-3853/0, 5-6=-4067/0, 6-7=-3853/0, 7-8=-3853/0, 8-9=-3114/0, 9-10=-1860/0  
BOT CHORD 23-24=0/1082, 22-23=0/2610, 21-22=0/2610, 20-21=0/3623, 19-20=0/3623, 18-19=0/4067, 17-18=0/4067, 16-17=0/4067,  
15-16=0/3623, 14-15=0/3623, 13-14=0/2610, 12-13=0/1082  
WEBS 10-12=-1356/0, 2-24=-1356/0, 10-13=0/1012, 2-23=0/1012, 9-13=-977/0, 3-23=-976/0, 9-14=0/656, 3-21=0/656,  
8-14=-649/0, 4-21=-649/0, 4-19=0/388, 5-19=-507/82, 8-16=0/389, 6-16=-507/82

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates 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.

**LOAD CASE(S)** Standard

Job 2ND FLR	Truss F02	Truss Type Floor	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:38.4

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.35	18-19	>662	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.48	18-19	>482	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.08	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S								
											Weight: 101 lb	FT = 20%F, 11%E

**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat) \*Except\* B2:2x4 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 5-5-3 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

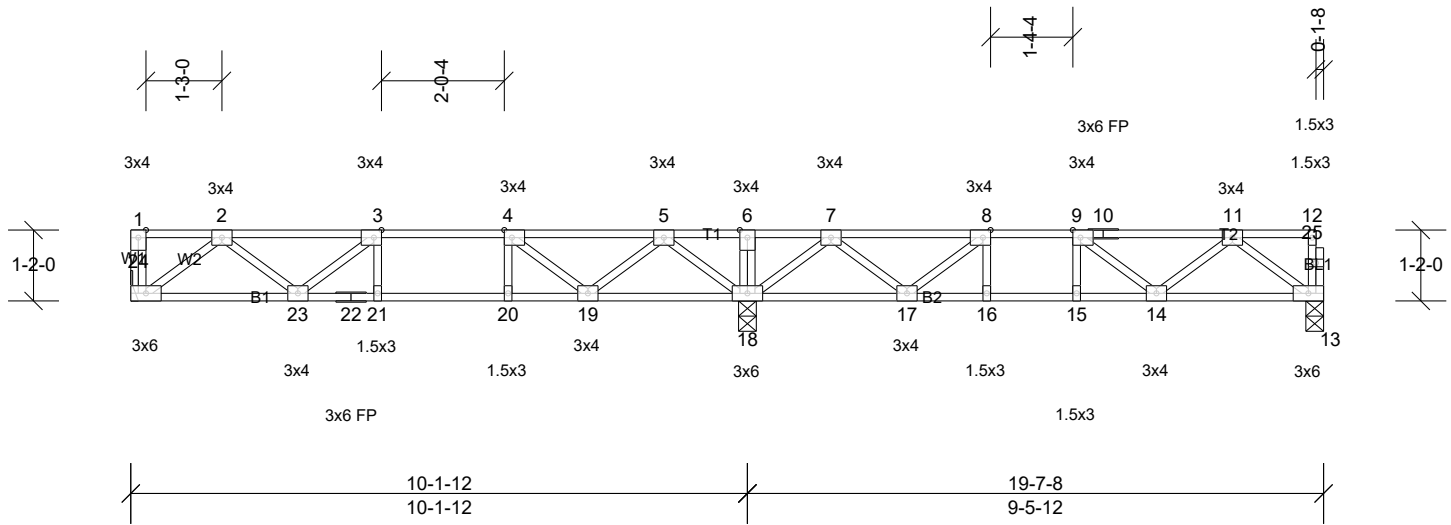
**REACTIONS** (lb/size) 14=847/0-3-8, (min. 0-1-8), 24=852/ Mechanical, (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1826/0, 3-4=-3095/0, 4-5=-3095/0, 5-6=-3763/0, 6-7=-3948/0, 7-8=-3758/0, 8-9=-3092/0, 9-10=-3092/0, 10-11=-1825/0, 11-12=-1825/0  
 BOT CHORD 23-24=0/1069, 22-23=0/2555, 21-22=0/2555, 20-21=0/3543, 19-20=0/3948, 18-19=0/3948, 17-18=0/3948, 16-17=0/3551, 15-16=0/2555, 14-15=0/1068  
 WEBS 12-14=-1338/0, 2-24=-1341/0, 12-15=0/986, 2-23=0/985, 10-15=-950/0, 3-23=-950/0, 10-16=0/685, 3-21=0/689, 8-16=-586/0, 8-17=0/382, 7-17=-466/88, 5-21=-572/0, 5-20=0/402, 6-20=-474/85

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) Refer to girder(s) for truss to truss connections.
  - 4) This truss is designed in accordance with the 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 2ND FLR	Truss F02A	Truss Type Floor	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:38.1

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.05	21-23	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.07	21-23	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 99 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: 18-19,17-18.

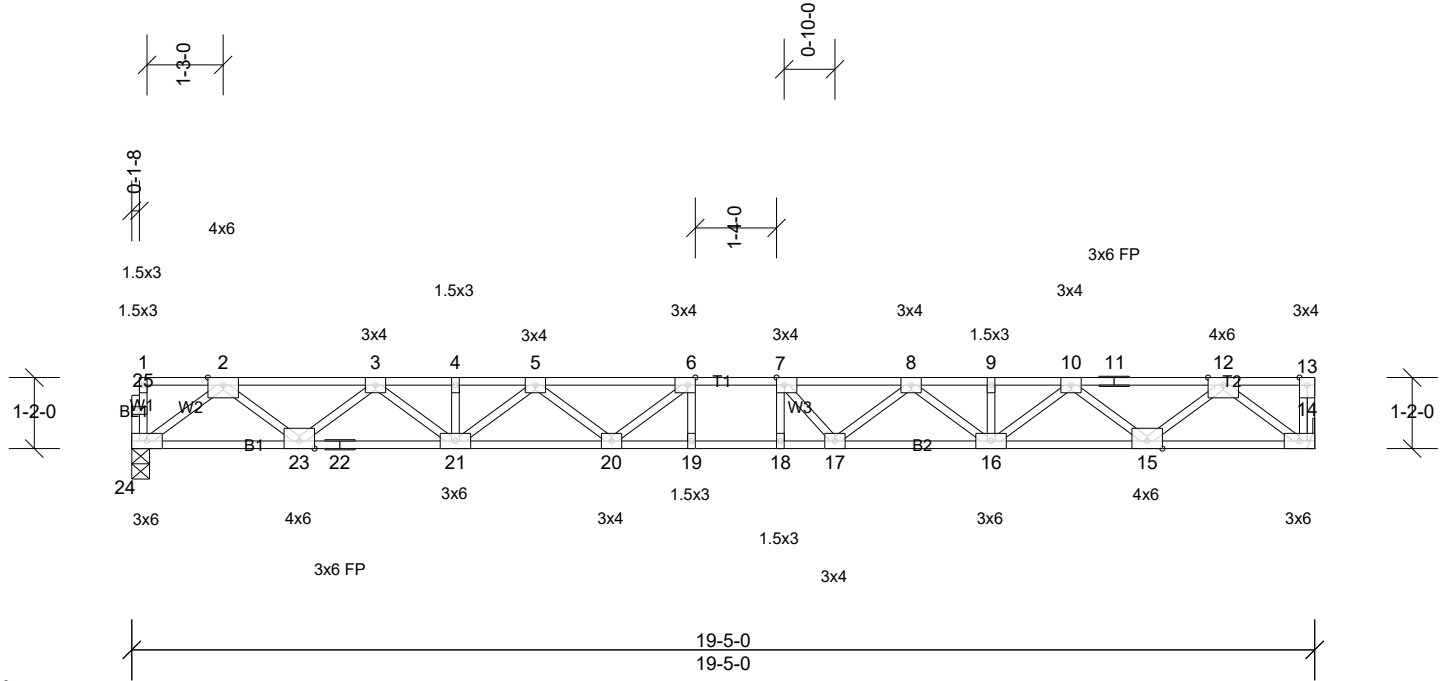
**REACTIONS** (lb/size) 13=352/0-3-8, (min. 0-1-8), 18=956/0-3-8, (min. 0-1-8),  
 24=390/ Mechanical, (min. 0-1-8)  
 Max Grav 13=382 (LC 7), 18=956 (LC 1), 24=408 (LC 10)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-709/0, 3-4=-887/0, 4-5=-558/0, 5-6=0/602, 6-7=0/602, 7-8=-559/36, 8-9=-818/0, 9-10=-656/0, 10-11=-656/0  
 BOT CHORD 23-24=0/493, 22-23=0/887, 21-22=0/887, 20-21=0/887, 19-20=0/887, 18-19=-115/255, 17-18=-152/308, 16-17=0/818,  
 15-16=0/818, 14-15=0/818, 13-14=0/464  
 WEBS 5-18=-725/0, 2-24=-618/0, 5-19=0/438, 2-23=0/281, 4-19=-484/0, 7-18=-703/0, 11-13=-581/0, 7-17=0/406, 8-17=-443/0

- NOTES**
- Unbalanced floor live loads have been considered for this design.
  - Refer to girder(s) for truss to truss connections.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

Job 2ND FLR	Truss F03	Truss Type Floor	Qty 10	Ply 1	Job Reference (optional)
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Scale = 1:38

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.34	19	>680	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(CT)	-0.47	19	>495	240		
BCLL	0.0	Rep Stress Incr	YES	WB	Horz(CT)	0.07	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							
										Weight: 100 lb	FT = 20%F, 11%E

**LUMBER**

TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat) \*Except\* B2:2x4 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 5-6-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 14=843/ Mechanical, (min. 0-1-8), 24=838/0-3-8, (min. 0-1-8)

**FORCES**

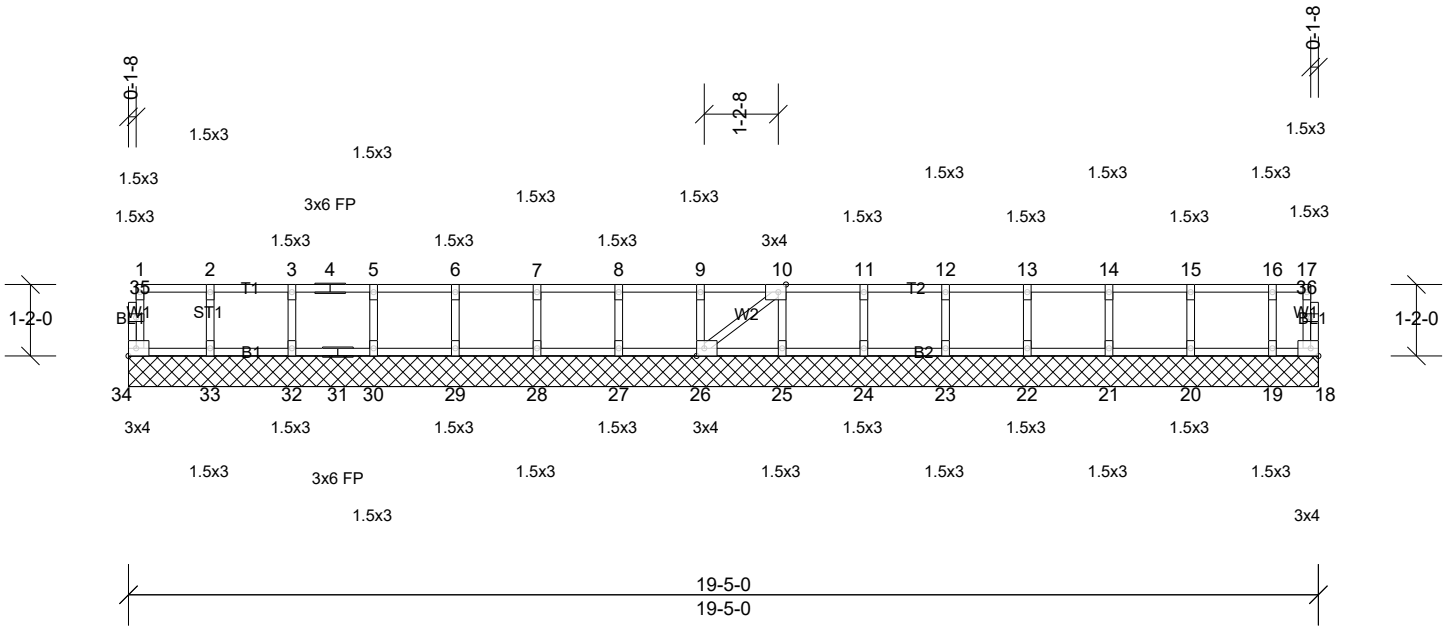
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1803/0, 3-4=-3046/0, 4-5=-3046/0, 5-6=-3691/0, 6-7=-3861/0, 7-8=-3701/0, 8-9=-3051/0, 9-10=-3051/0, 10-11=-1802/0, 11-12=-1802/0  
 BOT CHORD 23-24=0/1056, 22-23=0/2521, 21-22=0/2521, 20-21=0/3495, 19-20=0/3861, 18-19=0/3861, 17-18=0/3861, 16-17=0/3480, 15-16=0/2521, 14-15=0/1057  
 WEBS 12-14=-1326/0, 2-24=-1323/0, 12-15=0/970, 2-23=0/972, 10-15=-936/0, 3-23=-936/0, 10-16=0/677, 3-21=0/670, 8-16=-548/0, 8-17=0/410, 5-21=-573/0, 5-20=0/368, 6-20=-442/96, 7-17=-466/93

**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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

Job 2ND FLR	Truss F03G	Truss Type Floor Supported Gable	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:37.8

Plate Offsets (X, Y): [10:0-1-8,Edge], [26:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	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)	n/a	- n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 84 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.

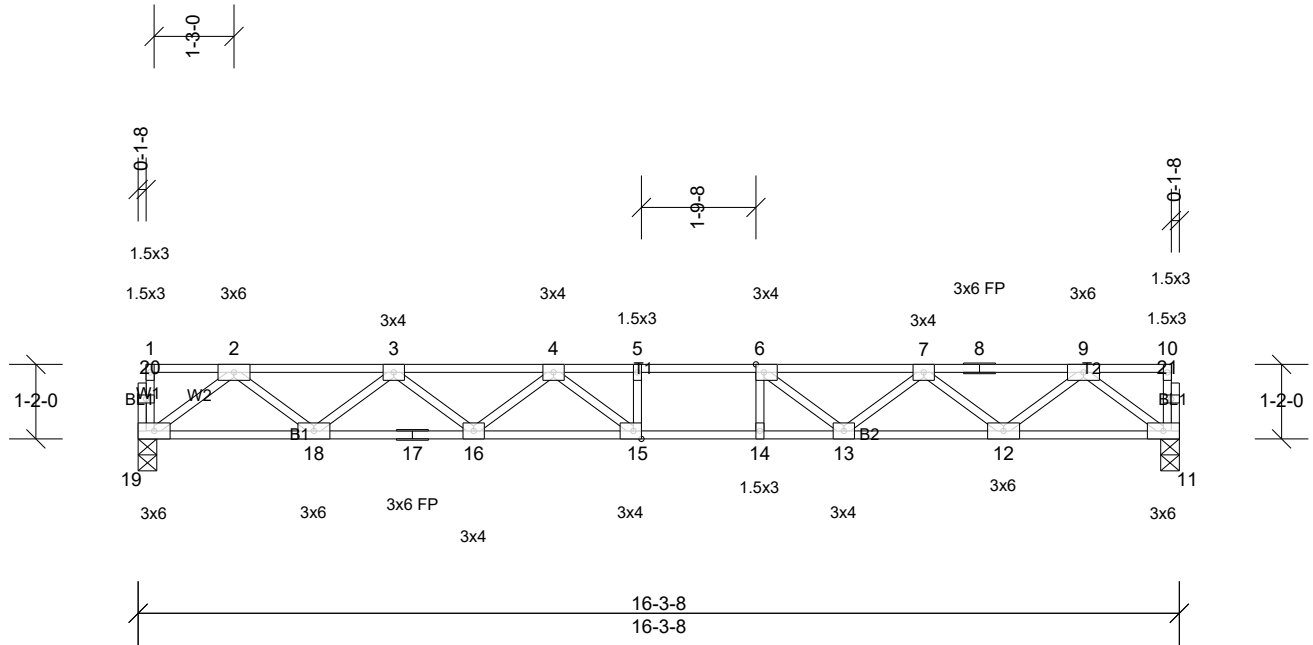
**REACTIONS** All bearings 19-5-0.  
 (lb) - Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34

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

- NOTES**
- Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

Job 2ND FLR	Truss F04	Truss Type Floor	Qty 19	Ply 1	Job Reference (optional)
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Scale = 1:36.2

Plate Offsets (X, Y): [6:0-1-8,Edge], [15:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.19	15-16	>992	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.27	15-16	>716	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							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.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 2-2-0 oc bracing.

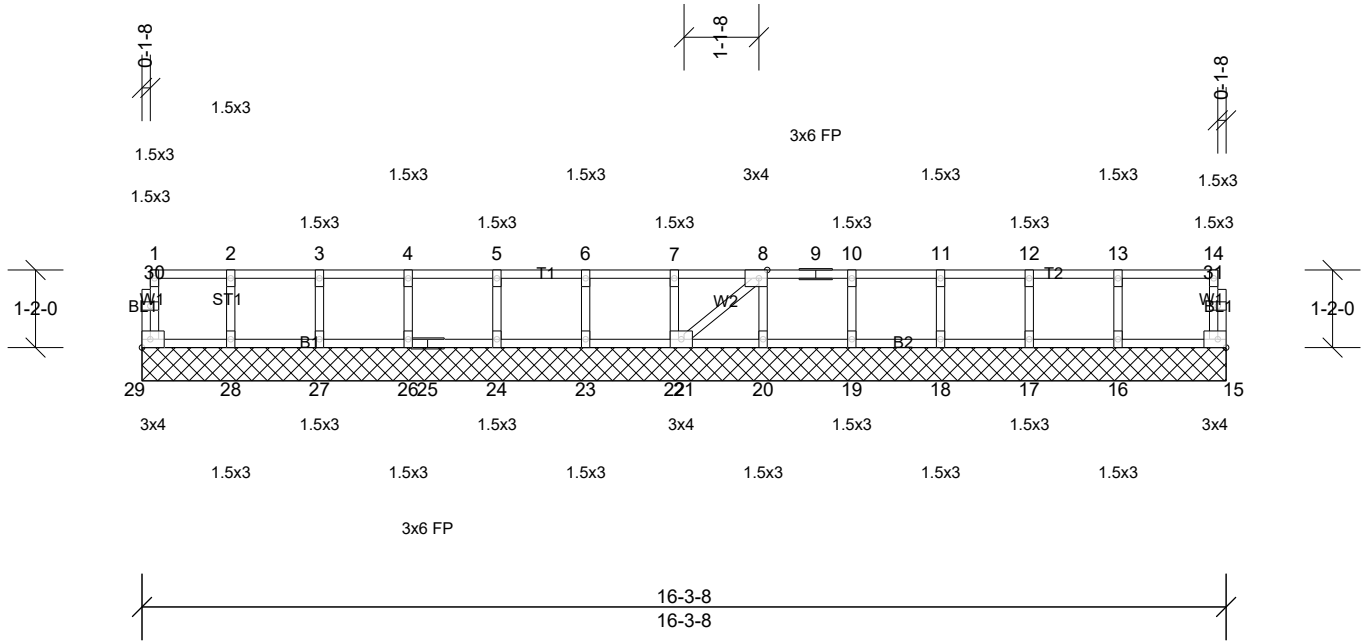
**REACTIONS** (lb/size) 11=700/0-3-8, (min. 0-1-8), 19=700/0-3-8, (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1460/0, 3-4=-2336/0, 4-5=-2672/0, 5-6=-2672/0, 6-7=-2332/0, 7-8=-1461/0, 8-9=-1461/0  
 BOT CHORD 18-19=0/872, 17-18=0/2024, 16-17=0/2024, 15-16=0/2612, 14-15=0/2672, 13-14=0/2672, 12-13=0/2017, 11-12=0/874  
 WEBS 9-11=-1095/0, 2-19=-1092/0, 9-12=0/763, 2-18=0/765, 7-12=-723/0, 3-18=-735/0, 7-13=0/448, 3-16=0/406, 6-13=-554/0, 4-16=-358/0, 4-15=-152/359

**NOTES**  
 1) Unbalanced floor live loads have been considered for this design.  
 2) 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.  
 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

Job 2ND FLR	Truss F04G	Truss Type Floor Supported Gable	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:34.8

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

Loading	(psf)	Spacing	1-7-3	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)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 70 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.

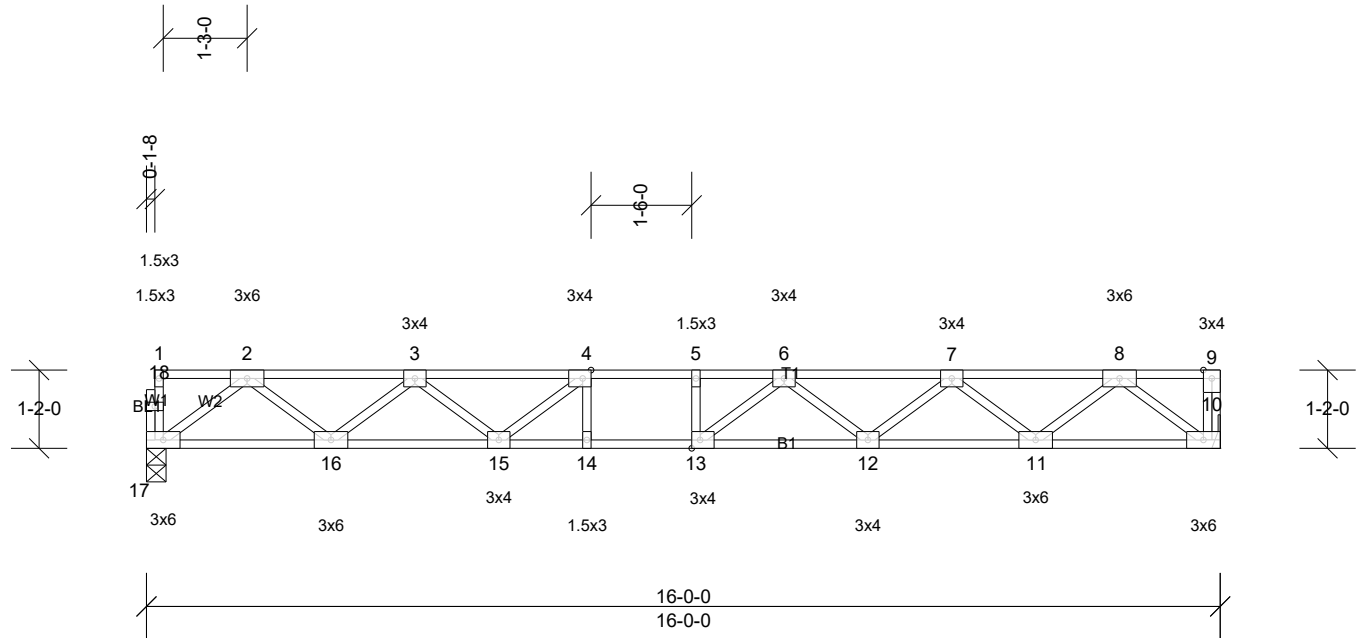
**REACTIONS** All bearings 16-3-8.  
 (lb) - Max Grav All reactions 250 (lb) or less at joint(s) 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29

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

- NOTES**
- Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

Job 2ND FLR	Truss F05	Truss Type Floor	Qty 4	Ply 1	Job Reference (optional)
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Scale = 1:34.5

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.18	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.24	12-13	>775	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S								
											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.3(flat)

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

**REACTIONS** (lb/size) 10=693/ Mechanical, (min. 0-1-8), 17=688/0-3-8, (min. 0-1-8)

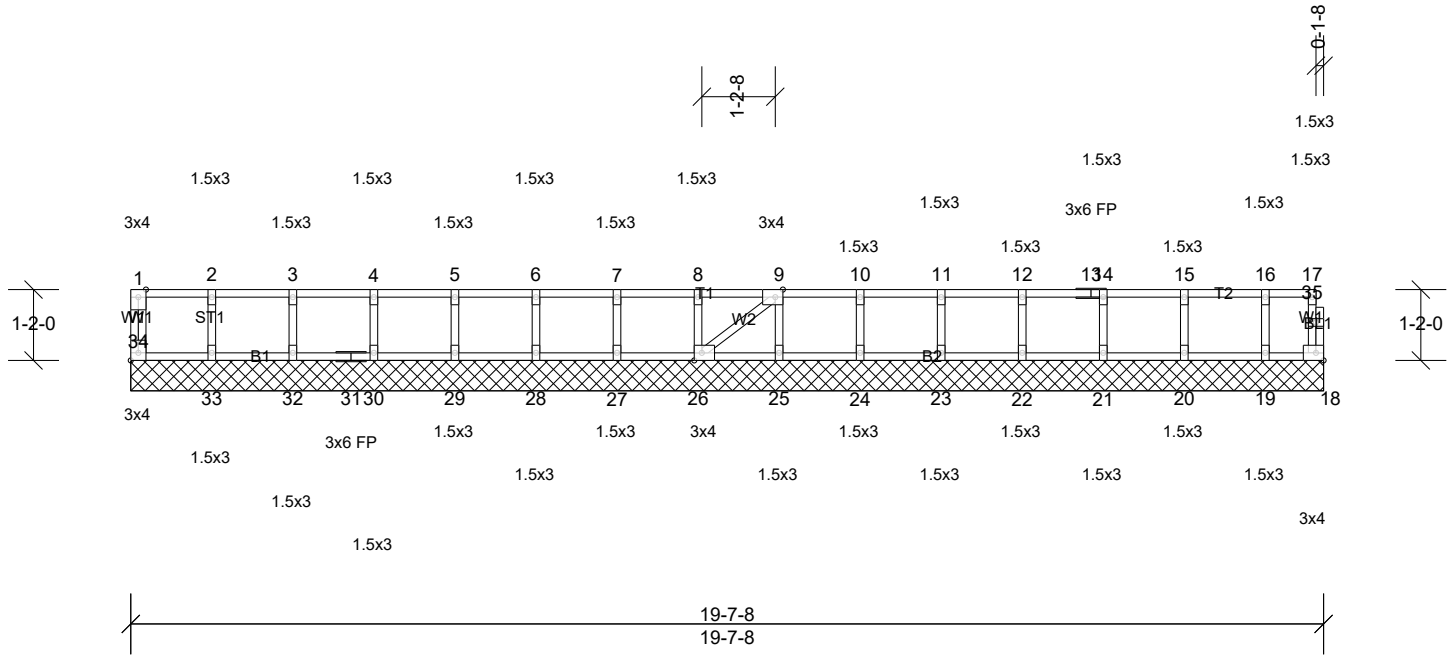
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1429/0, 3-4=-2268/0, 4-5=-2581/0, 5-6=-2581/0, 6-7=-2273/0, 7-8=-1428/0  
 BOT CHORD 16-17=0/857, 15-16=0/1971, 14-15=0/2581, 13-14=0/2581, 12-13=0/2535, 11-12=0/1976, 10-11=0/856  
 WEBS 8-10=-1074/0, 2-17=-1073/0, 8-11=0/745, 2-16=0/745, 7-11=-714/0, 3-16=-706/0, 7-12=0/386, 3-15=0/422, 6-12=-342/0, 4-15=-510/0, 6-13=-161/327

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) Refer to girder(s) for truss to truss connections.
  - 3) This truss is designed in accordance with the 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'-0" 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



Job 2ND FLR	Truss F05G	Truss Type Floor Supported Gable	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:38.1

Plate Offsets (X, Y): [9:0-1-8,Edge], [26:0-1-8,Edge], [34:Edge,0-1-8]

Loading	(psf)	Spacing	1-7-3	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	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)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 85 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.

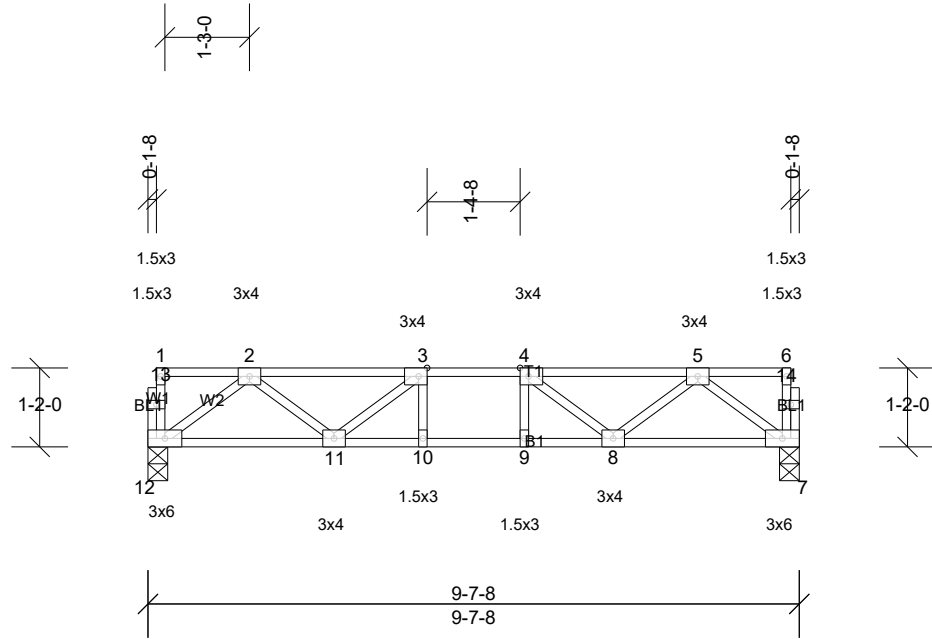
**REACTIONS** All bearings 19-7-8.  
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34

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

- NOTES**
- Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

Job 2ND FLR	Truss F06	Truss Type Floor	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:34.2

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.04	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 50 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) 7=407/0-3-8, (min. 0-1-8), 12=407/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-719/0, 3-4=-929/0, 4-5=-719/0  
 BOT CHORD 11-12=0/494, 10-11=0/929, 9-10=0/929, 8-9=0/929, 7-8=0/494  
 WEBS 5-7=-618/0, 2-12=-618/0, 5-8=0/293, 2-11=0/293, 4-8=-289/0, 3-11=-289/0

**NOTES**

- Unbalanced floor live loads have been considered for this design.
- 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.
- 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