| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F1 | FLOOR GIRDER | 1 | 1 | Job Reference (optional) |

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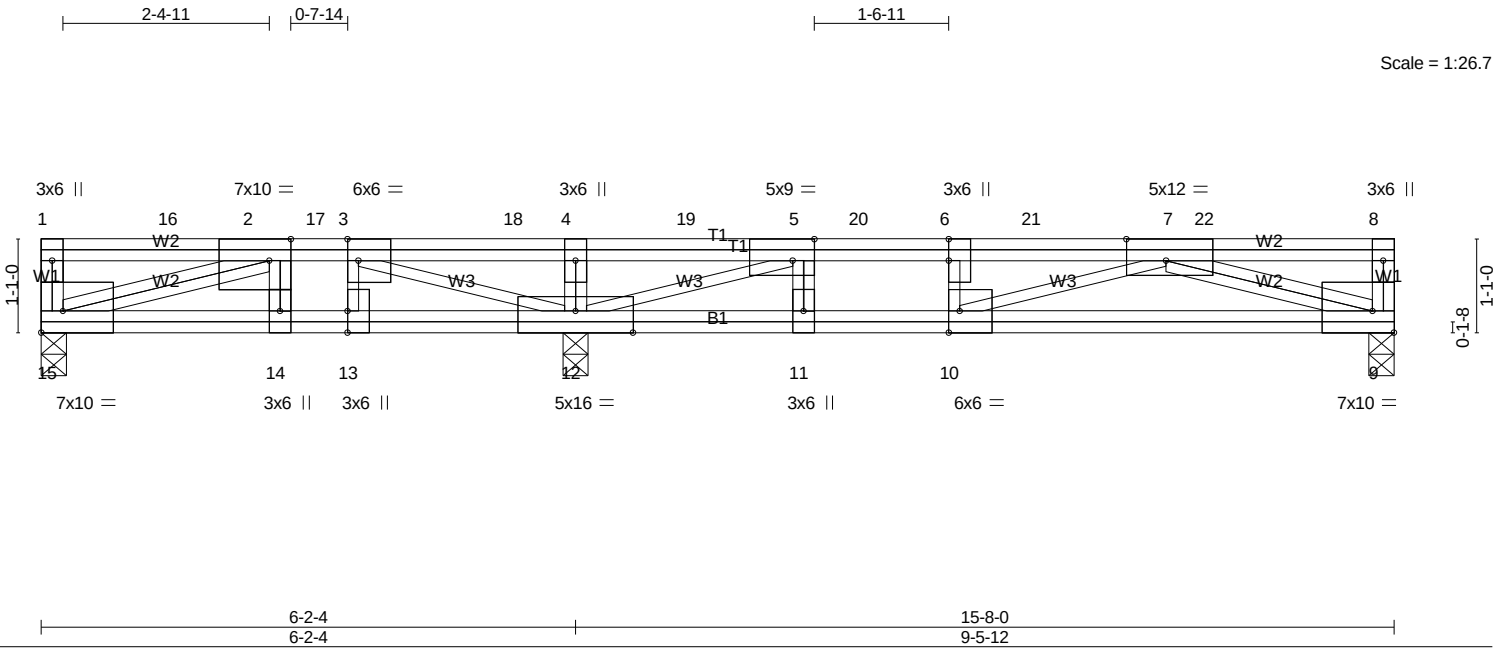


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-1-8,Edge], [5:0-3-0,Edge], [6:0-3-0,0-0-0], [7:0-5-8,Edge], [9:Edge,0-3-0], [10:0-1-8,Edge], [12:0-8-0,Edge], [13:0-3-0,Edge], [15:Edge,0-3-0]

| **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 | 0.79 | Vert(LL) | -0.16 | 9-10 | >718 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.75 | Vert(CT) | -0.22 | 9-10 | >502 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.85 | Horz(CT) | 0.03 | 9 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 129 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) *Except*
W2,W3: 2x4 SP No.2 or 2x4 SPF No.2(flat)

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

**REACTIONS.** (lb/size) 15=813/0-3-8 (min. 0-1-8), 9=1419/0-3-8 (min. 0-1-8), 12=2882/0-3-8 (min. 0-1-15)
Max Uplift15=-277(LC 18)
Max Grav 15=825(LC 10), 9=1423(LC 7), 12=2882(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-285/0, 2-17=-1341/1157, 3-17=-1341/1157, 3-18=-69/379, 4-18=-69/379, 4-19=-69/379, 5-19=-69/379, 5-20=-3974/0, 6-20=-3974/0, 6-21=-3974/0, 7-21=-3974/0
BOT CHORD 14-15=-1113/1396, 13-14=-1157/1341, 12-13=-1157/1341, 11-12=0/3974, 10-11=0/3974, 9-10=0/3602
WEBS 4-12=-1000/0, 2-15=-1480/1179, 3-12=-1741/1177, 3-13=0/268, 7-9=-3816/0, 5-12=-4526/0, 7-10=0/452, 5-11=0/270, 6-10=-323/0

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. 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 10-0-0 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.
6) CAUTION, Do not erect truss backwards.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1221 lb up at 3-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-15=-10, 1-8=-100
Concentrated Loads (lb)
Vert: 16=-527 17=-258(B=269) 18=-527 19=-527 20=-527 21=-527 22=-527

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F2 | FLOOR GIRDER | 1 | 1 | Job Reference (optional) |

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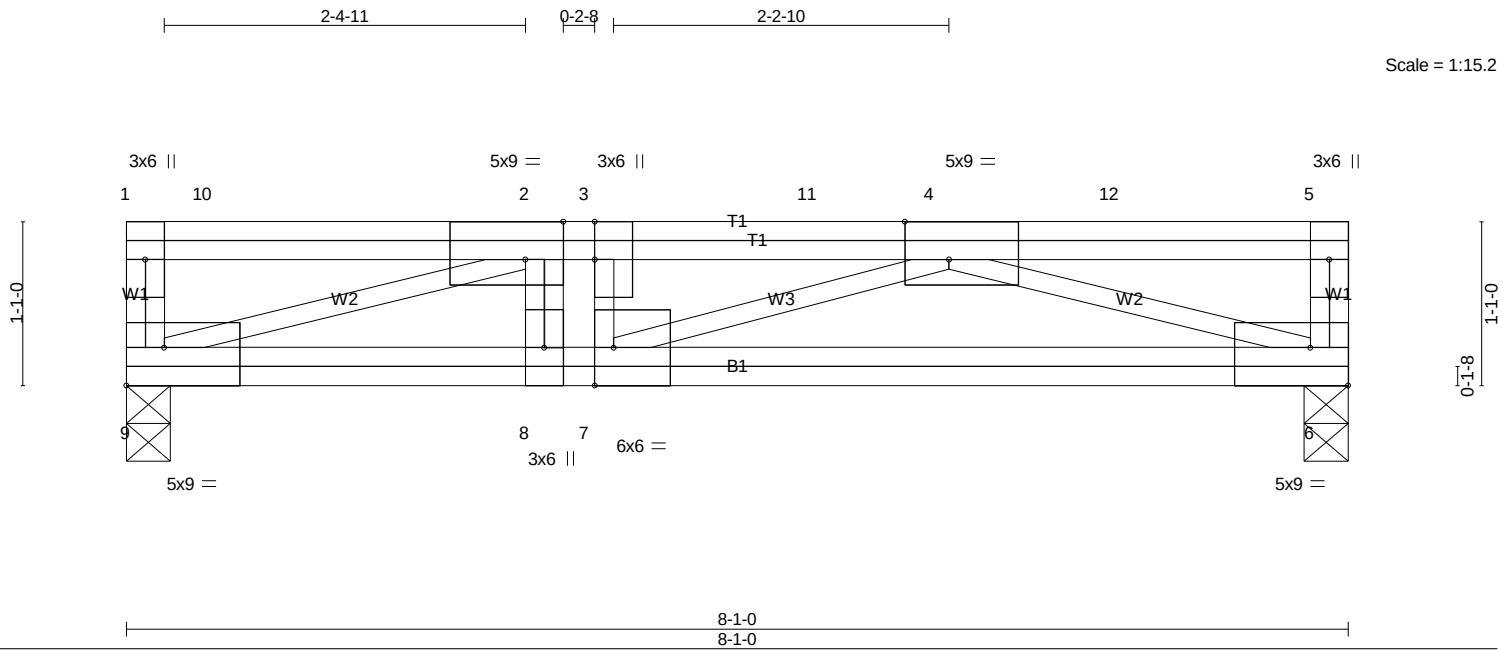


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0], [4:0-3-8,Edge], [6:Edge,0-3-0], [7:0-1-8,Edge], [9:Edge,0-3-0]

| **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 | 0.83 | Vert(LL) | -0.09 | 6-7 | >999 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.75 | Vert(CT) | -0.13 | 6-7 | >741 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.78 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 65 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
W2: 2x4 SP No.2 or 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.** (lb/size) 9=1944/0-3-8 (min. 0-1-8), 6=1647/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-659/0, 5-6=-327/0, 2-3=-3953/0, 3-11=-3953/0, 4-11=-3953/0
BOT CHORD 8-9=0/3953, 7-8=0/3953, 6-7=0/3868
WEBS 4-6=-4074/0, 2-9=-4145/0

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 2=-676 10=-702 11=-676 12=-676

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F3 | Floor Girder | 1 | 1 | Job Reference (optional) |

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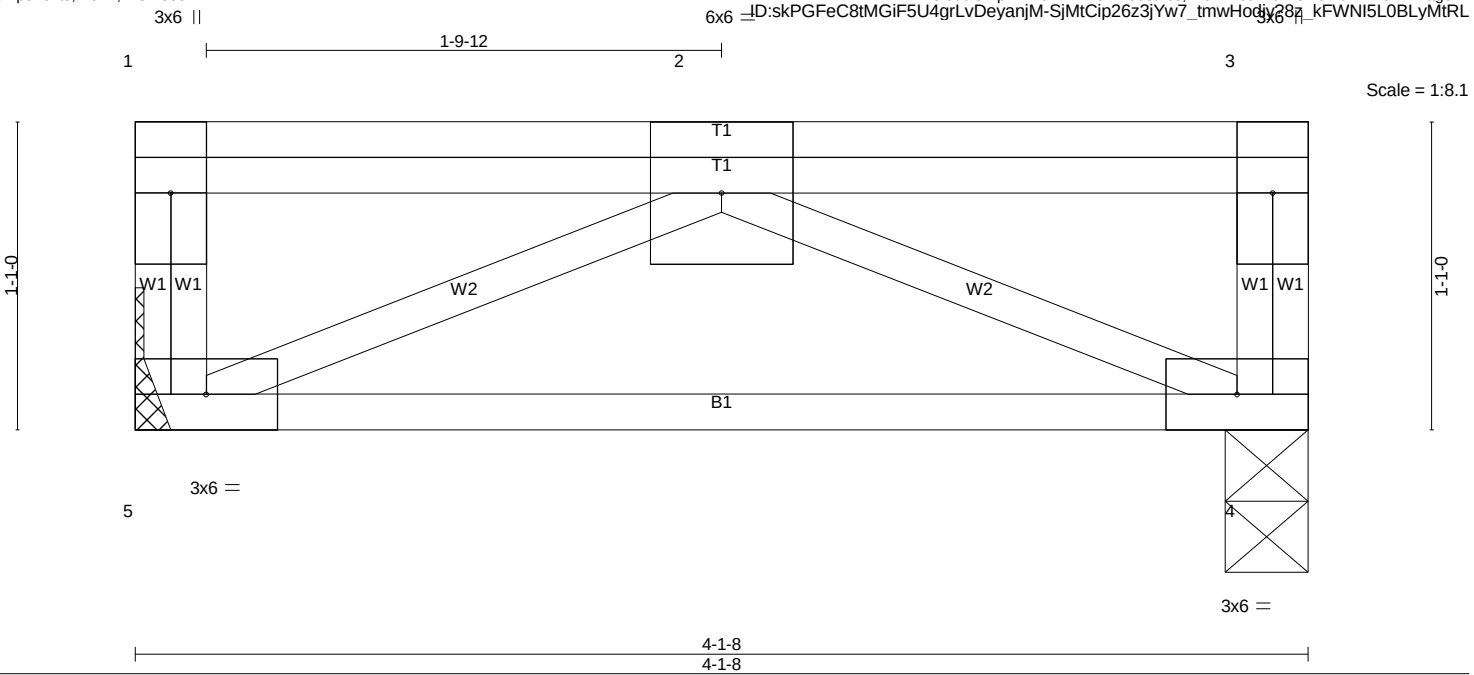


| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.20 | Vert(LL) | 0.00 | 5 | **** | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.29 | Vert(CT) | -0.04 | 4-5 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.36 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | Weight: 28 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=-94/Mechanical, 4=108/0-3-8 (min. 0-1-8)
Max Uplift5=-1121(LC 3), 4=-247(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-5=0/820
BOT CHORD 4-5=-694/32
WEBS 2-5=-36/764, 2-4=-36/764

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1121 lb uplift at joint 5.
5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. 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) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 874 lb up at 0-1-8, and 919 lb up at 2-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 1=202 2=211

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F4 | Floor Girder | 1 | 1 | Job Reference (optional) |

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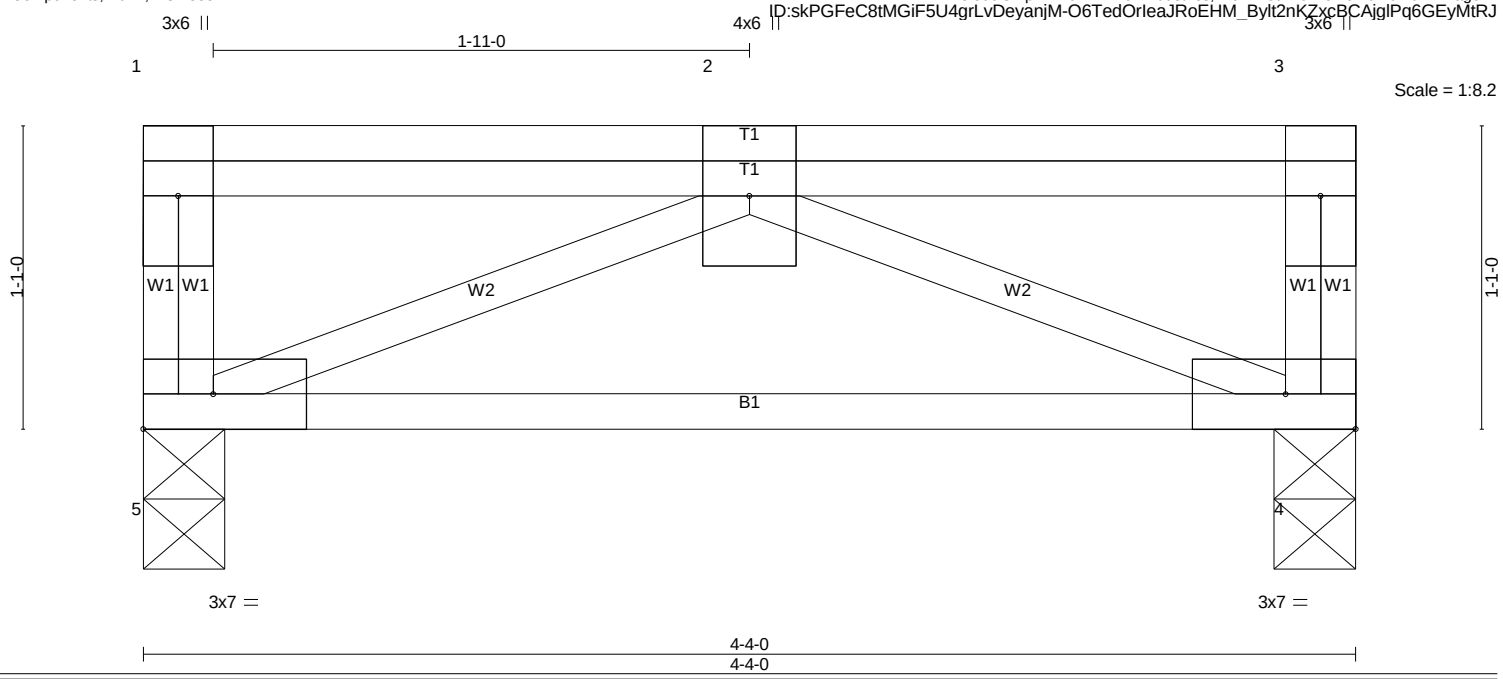


| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.13 | Vert(LL) | 0.00 | 5 | **** | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.50 | Vert(CT) | -0.05 | 4-5 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.32 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | Weight: 30 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

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

**REACTIONS.** (lb/size) 5=643/0-3-8 (min. 0-1-8), 4=1526/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-988/0
BOT CHORD 4-5=0/1179
WEBS 2-5=-1287/0, 2-4=-1287/0

**NOTES-**
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 3=-883 2=-836

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F5 | Floor Girder | 1 | 1 | Job Reference (optional) |

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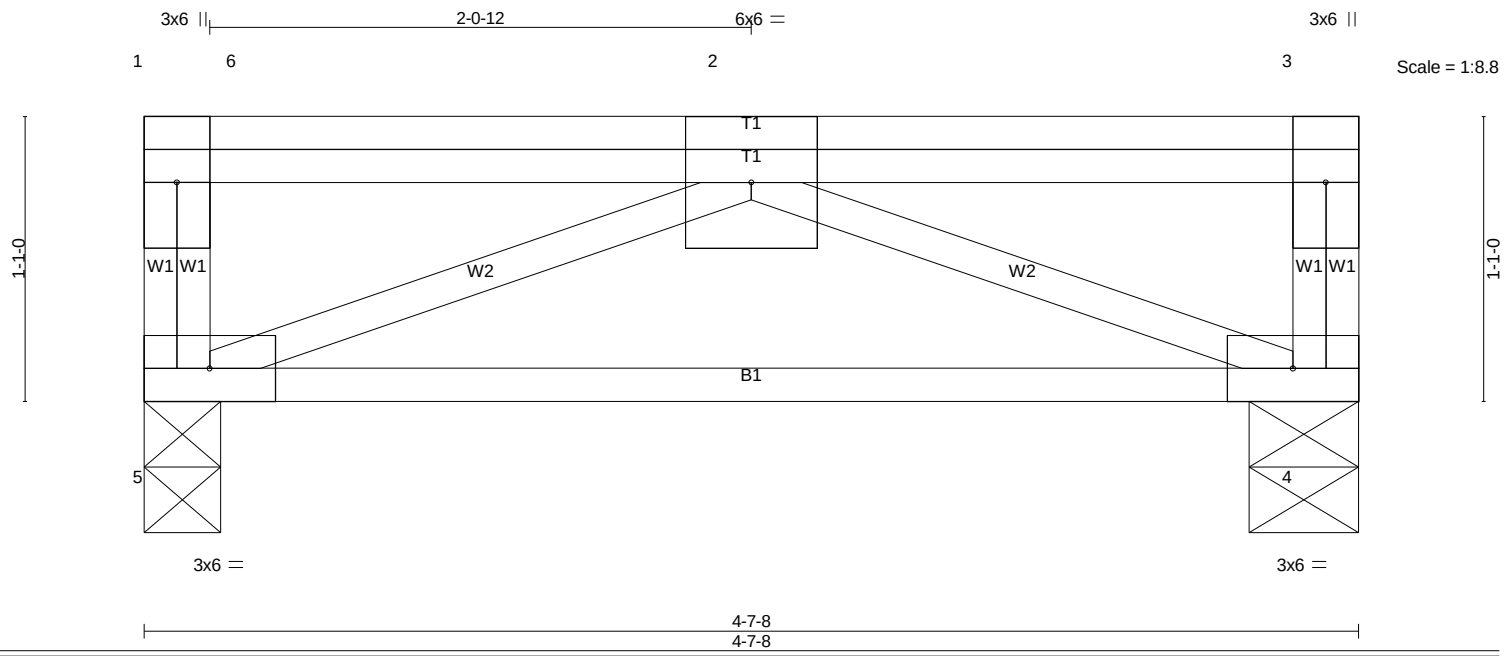


| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.50 | Vert(LL) | 0.00 | 5 | **** | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.54 | Vert(CT) | -0.06 | 4-5 | >878 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.33 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | Weight: 31 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=1148/0-3-8 (min. 0-1-8), 4=603/0-5-0 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-5=-629/0
BOT CHORD 4-5=0/1214
WEBS 2-5=-1312/0, 2-4=-1312/0

**NOTES-**
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 2=-618 6=-651

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F6 | FLOOR GIRDER | 1 | 1 | Job Reference (optional) |

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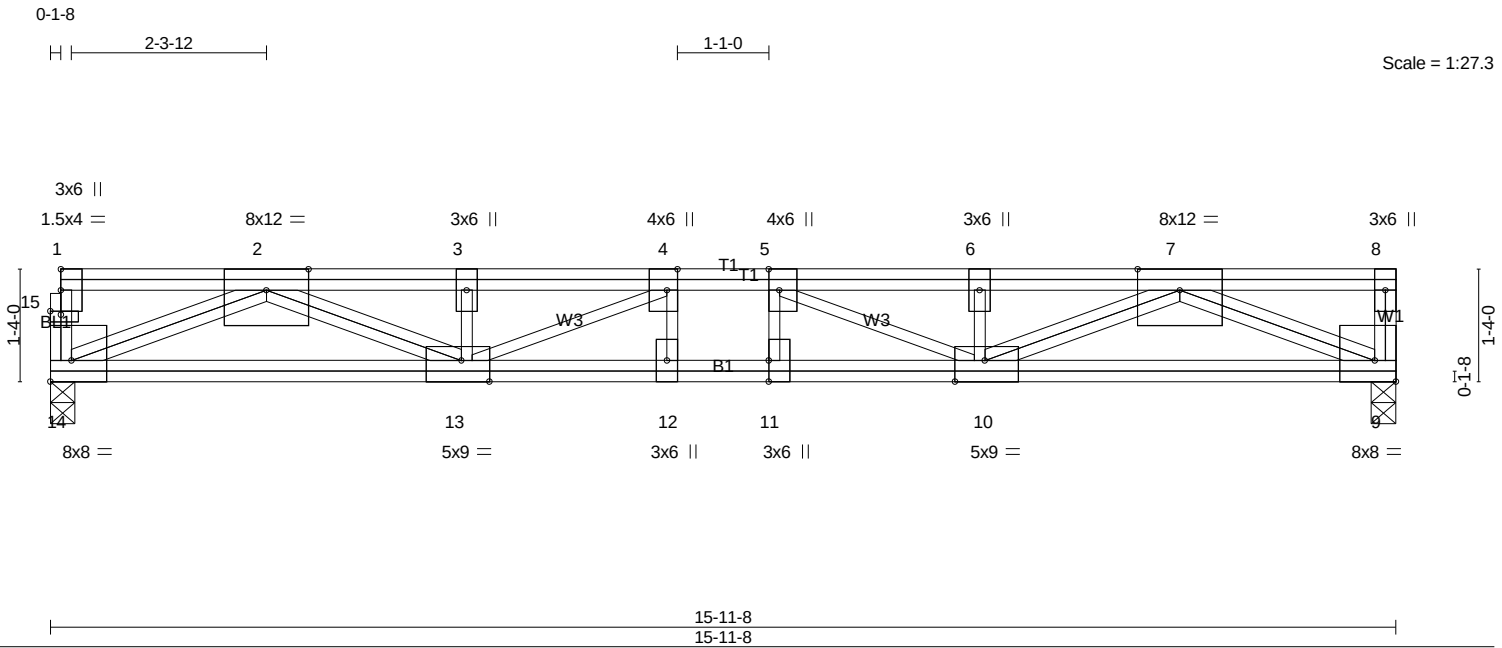


Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,Edge], [9:Edge,0-3-0], [10:0-4-4,Edge], [11:0-3-0,0-0-0], [13:0-4-0,Edge], [14:Edge,0-3-0], [15:0-1-8,0-0-8]

| **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 | 0.63 | Vert(LL) | -0.26 | 11-12 | >713 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.90 | Vert(CT) | -0.36 | 11-12 | >518 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.68 | Horz(CT) | 0.07 | 9 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 141 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

**REACTIONS.** (lb/size) 14=2260/0-3-8 (min. 0-1-8), 9=2278/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-15=-280/0, 1-15=-279/0, 8-9=-286/0, 2-3=-6978/0, 3-4=-7037/0, 4-5=-8179/0, 5-6=-7035/0, 6-7=-6977/0
BOT CHORD 13-14=0/4405, 12-13=0/8179, 11-12=0/8179, 10-11=0/8179, 9-10=0/4412
WEBS 7-9=-4828/0, 2-14=-4803/0, 7-10=0/2839, 2-13=0/2848, 6-10=-710/0, 3-13=-714/0, 5-10=-1458/0, 4-13=-1457/0

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-10, 1-8=-280

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F7 | Floor | 2 | 1 | Job Reference (optional) |

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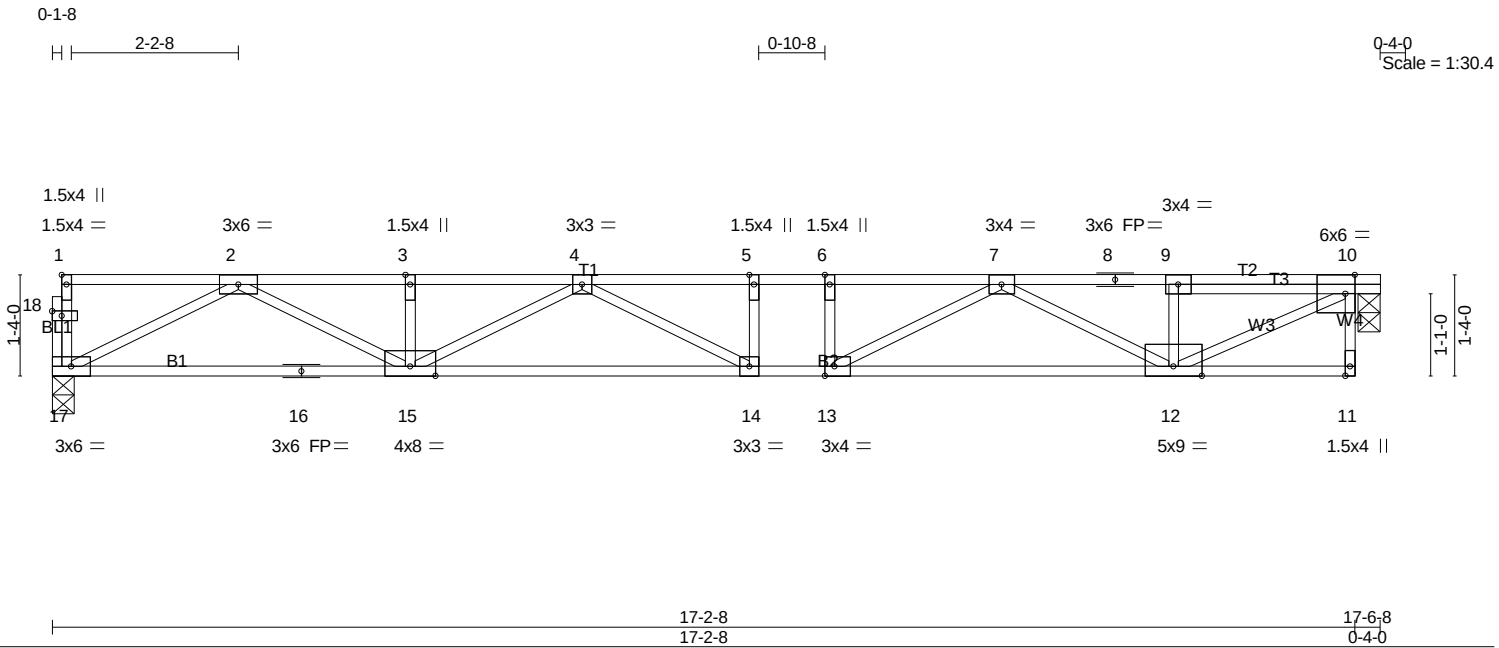


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [10:0-1-8,Edge], [13:0-1-8,Edge], [18:0-1-8,0-0-12]

| **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 | 0.65 | Vert(LL) | -0.24 | 14-15 | >838 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.72 | Vert(CT) | -0.34 | 14-15 | >592 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.85 | Horz(CT) | 0.01 | 10 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 92 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 17=930/0-3-8 (min. 0-1-8), 10=936/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2643/0, 3-4=-2643/0, 4-5=-3246/0, 5-6=-3246/0, 6-7=-3246/0, 7-8=-1598/0, 8-9=-1598/0, 9-10=-1600/0
BOT CHORD 16-17=0/1589, 15-16=0/1589, 14-15=0/3196, 13-14=0/3246, 12-13=0/2620
WEBS 10-12=0/1780, 2-17=-1784/0, 2-15=0/1194, 7-12=-1158/0, 7-13=0/832, 4-15=-626/0, 4-14=-238/400

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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) 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 | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F8 | Floor | 3 | 1 | Job Reference (optional) |

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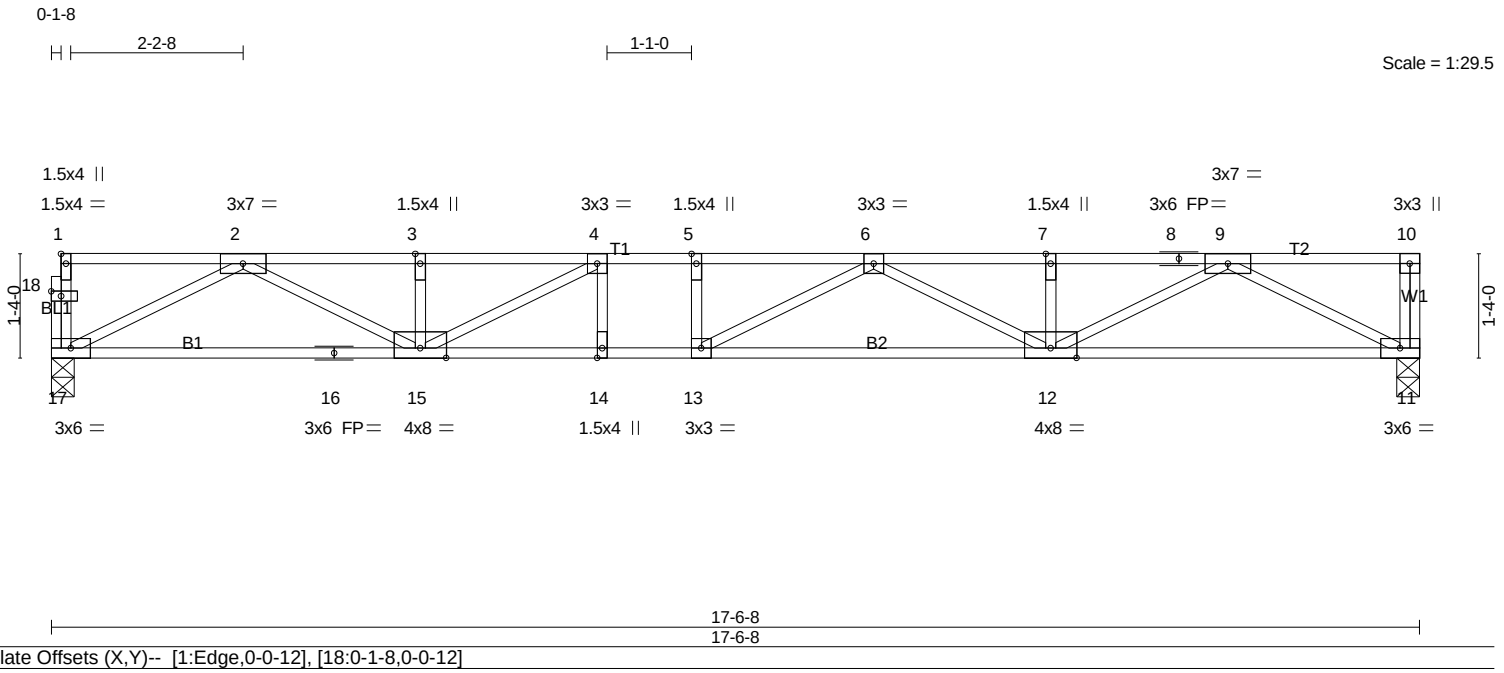


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [18:0-1-8,0-0-12]

| **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 | 0.71 | Vert(LL) | -0.26 | 12-13 | >792 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.81 | Vert(CT) | -0.38 | 12-13 | >553 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.58 | Horz(CT) | 0.06 | 11 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 90 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 17=945/0-3-8 (min. 0-1-8), 11=951/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2685/0, 3-4=-2685/0, 4-5=-3350/0, 5-6=-3350/0, 6-7=-2700/0, 7-8=-2700/0, 8-9=-2700/0
BOT CHORD 16-17=0/1612, 15-16=0/1612, 14-15=0/3350, 13-14=0/3350, 12-13=0/3281, 11-12=0/1620
WEBS 9-11=-1825/0, 2-17=-1810/0, 9-12=0/1223, 2-15=0/1216, 6-12=-658/0, 4-15=-895/0, 6-13=-223/423

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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 | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F9 | Floor | 2 | 1 | Job Reference (optional) |

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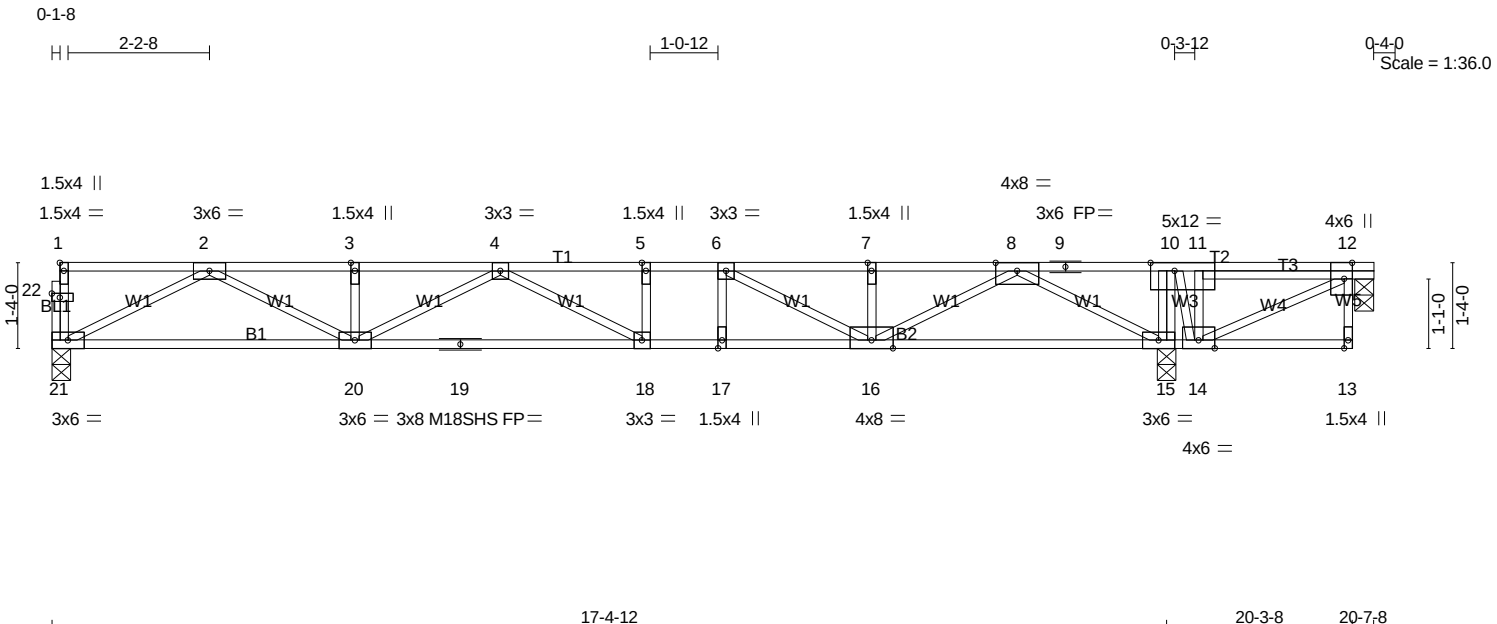


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [11:0-4-8,Edge], [12:0-3-0,Edge], [22:0-1-8,0-0-12]

| **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 | 0.78 | Vert(LL) | -0.24 | 18-20 | >871 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.84 | Vert(CT) | -0.34 | 18-20 | >604 | 360 | M18SHS | 244/190 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.71 | Horz(CT) | 0.04 | 15 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 111 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 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: 15-16,14-15.

**REACTIONS.** (lb/size) 21=802/0-3-8 (min. 0-1-8), 12=-709/0-3-8 (min. 0-1-8), 15=2112/0-3-8 (min. 0-1-8)
Max Uplift12=-819(LC 3)
Max Grav 21=802(LC 3), 15=2112(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2163/0, 3-4=-2163/0, 4-5=-2213/0, 5-6=-2213/0, 6-7=-1181/0, 7-8=-1181/0, 8-9=0/1954, 9-10=0/1954, 10-11=0/1633, 11-12=0/1634
BOT CHORD 20-21=0/1348, 19-20=0/2472, 18-19=0/2472, 17-18=0/2213, 16-17=0/2213, 14-15=-1898/0
WEBS 10-15=-1068/0, 2-21=-1513/0, 8-15=-2046/0, 2-20=0/923, 8-16=0/1488, 4-20=-350/0, 6-16=-1164/0, 4-18=-449/145, 12-14=-1819/0, 10-14=0/932

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are MT20 plates unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 819 lb uplift at joint 12.
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 10-0-0 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.
7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
8) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F10 | Floor | 2 | 1 | Job Reference (optional) |

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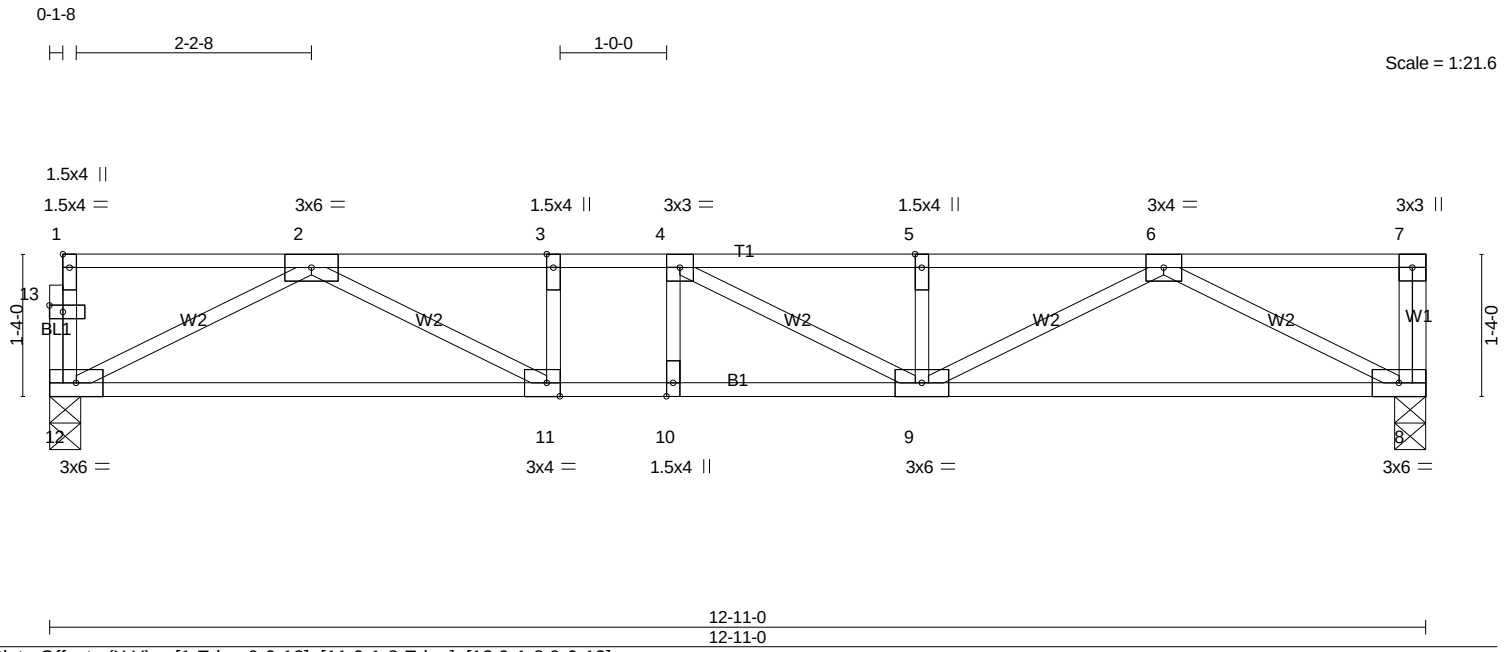


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [11:0-1-8,Edge], [13:0-1-8,0-0-12]

| **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) | -0.11 | 9-10 | >999 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.79 | Vert(CT) | -0.15 | 9-10 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 68 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 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=690/0-3-8 (min. 0-1-8), 8=697/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1766/0, 3-4=-1766/0, 4-5=-1747/0, 5-6=-1747/0
BOT CHORD 11-12=0/1129, 10-11=0/1766, 9-10=0/1766, 8-9=0/1125
WEBS 6-8=-1267/0, 2-12=-1265/0, 6-9=0/705, 2-11=0/737, 5-9=-272/0, 4-9=-280/179

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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 | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F11 | Floor | 3 | 1 | Job Reference (optional) |

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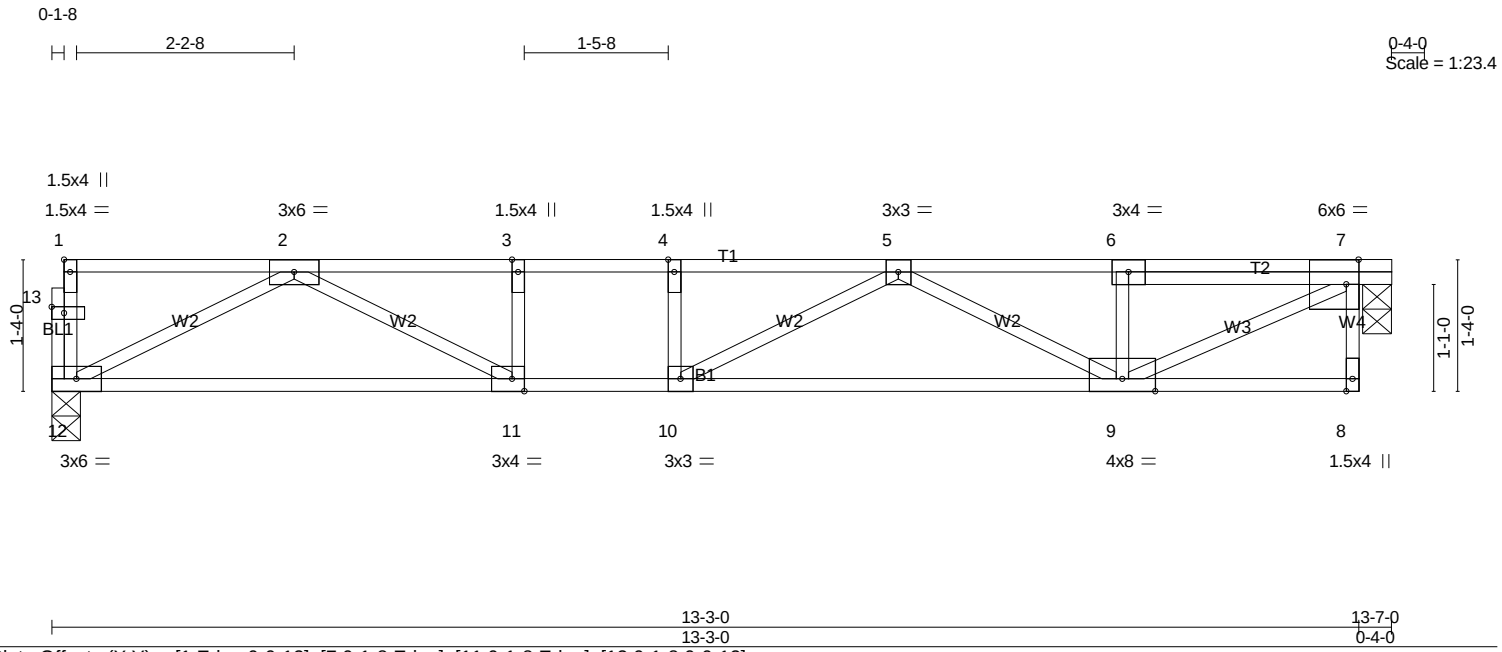


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [7:0-1-8,Edge], [11:0-1-8,Edge], [13:0-1-8,0-0-12]

| **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 | 0.72 | Vert(LL) | -0.19 | 9-10 | >835 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.81 | Vert(CT) | -0.26 | 9-10 | >600 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.63 | Horz(CT) | -0.02 | 7 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 71 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 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=712/0-3-8 (min. 0-1-8), 7=718/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1881/0, 3-4=-1881/0, 4-5=-1881/0, 5-6=-1188/0, 6-7=-1190/0
BOT CHORD 11-12=0/1169, 10-11=0/1881, 9-10=0/1797
WEBS 7-9=0/1323, 2-12=-1310/0, 2-11=0/835, 5-9=-690/0, 3-11=-289/0, 5-10=-99/353

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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) 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 | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F12 | Floor | 4 | 1 | Job Reference (optional) |

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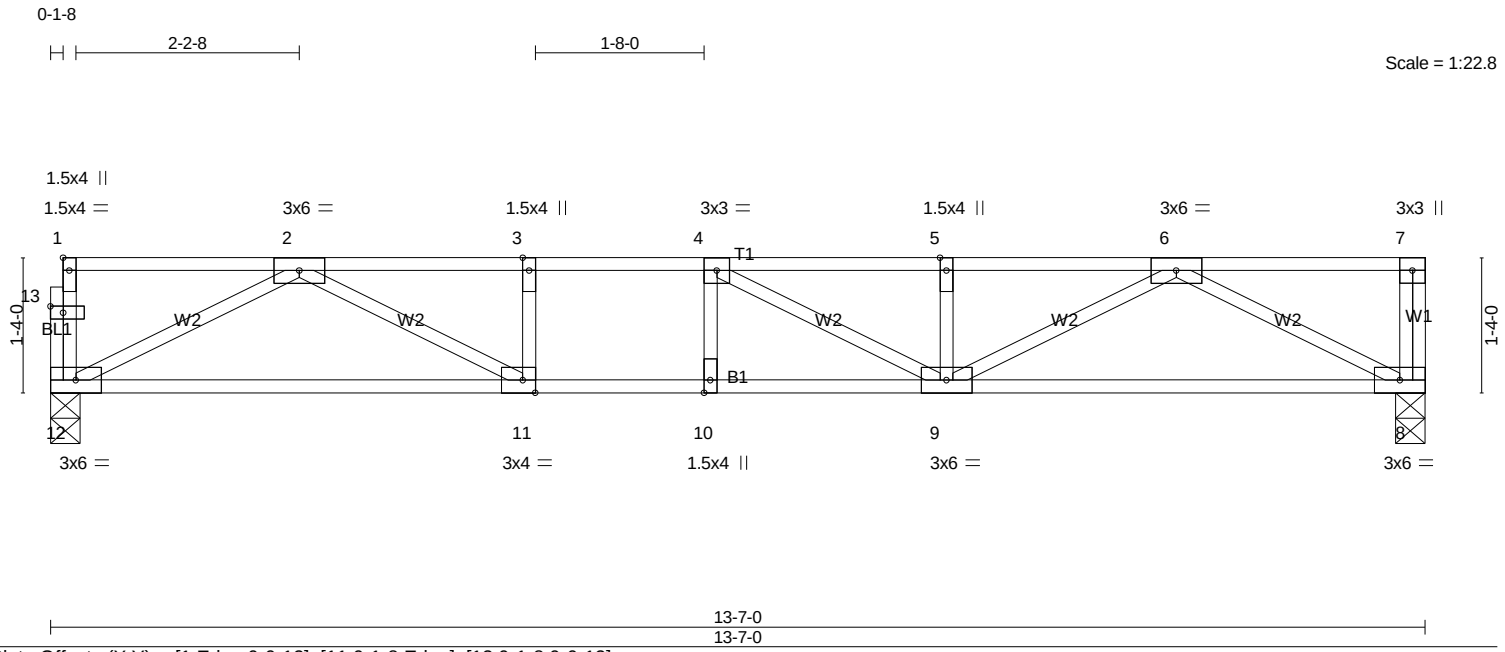


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [11:0-1-8,Edge], [13:0-1-8,0-0-12]

| **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 | 0.71 | Vert(LL) | -0.18 | 9-10 | >894 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.77 | Vert(CT) | -0.23 | 9-10 | >707 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.41 | Horz(CT) | 0.03 | 8 | 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 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 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=727/0-3-8 (min. 0-1-8), 8=733/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1942/0, 3-4=-1942/0, 4-5=-1892/0, 5-6=-1892/0
BOT CHORD 11-12=0/1201, 10-11=0/1942, 9-10=0/1942, 8-9=0/1197
WEBS 6-8=-1348/0, 2-12=-1347/0, 6-9=0/788, 2-11=0/865, 5-9=-287/0, 3-11=-283/0, 4-9=-353/159

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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 | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F12E | Floor Supported Gable | 1 | 1 | Job Reference (optional) |

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0-1-8

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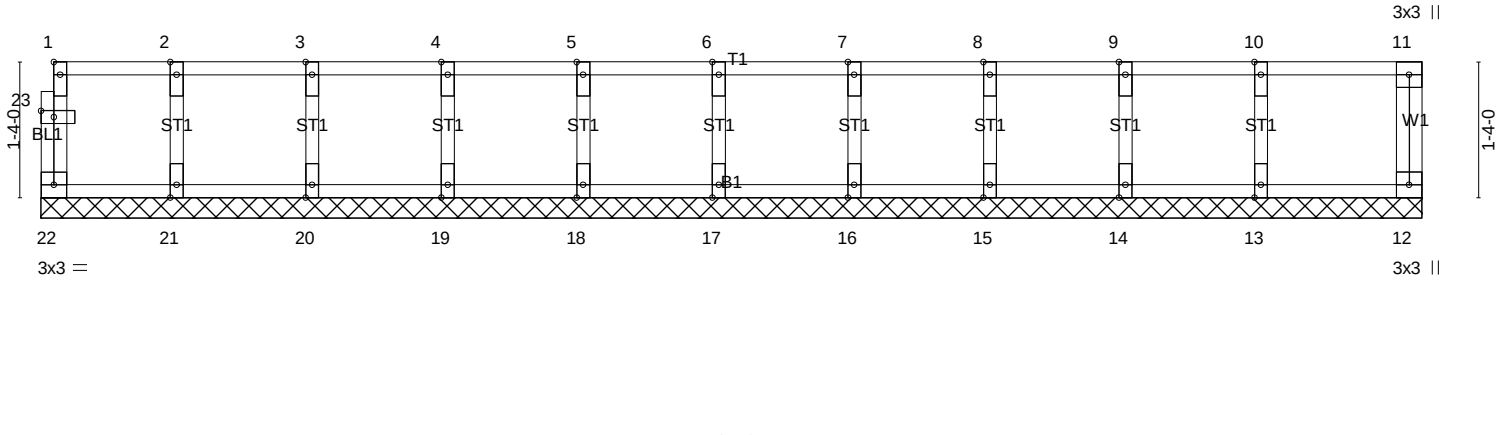


13-7-0

13-7-0

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [23:0-1-8,0-0-12]

| **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 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.02 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-R | | | | | | | Weight: 61 lb | FT = 20%F, 11%E |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 or 2x4 SPF No.2(flat) |
| BOT CHORD | 2x4 SP No.2 or 2x4 SPF 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 13-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

**NOTES-**

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
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 10-0-0 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.
8) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F13 | Floor | 4 | 1 | Job Reference (optional) |

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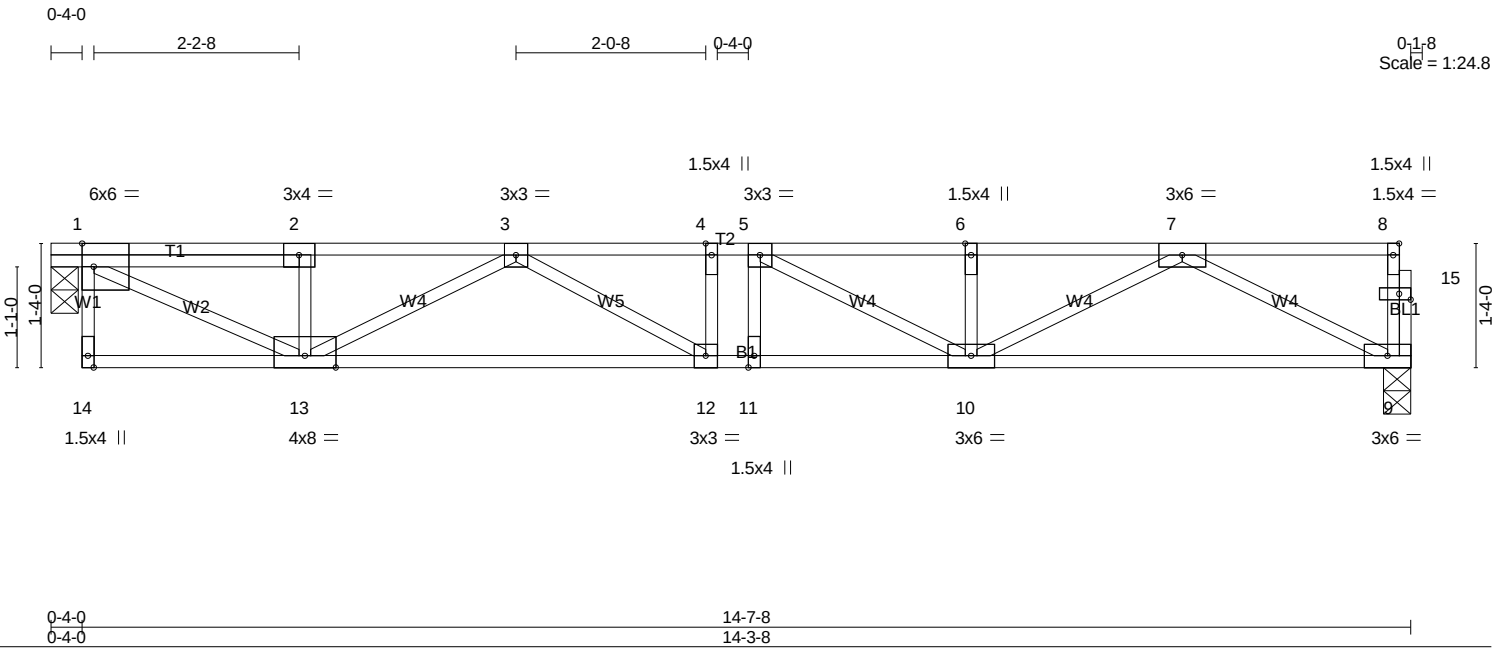


Plate Offsets (X,Y)-- [1:0-1-8,Edge], [15:0-1-8,0-0-12]

| **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 | 0.32 | Vert(LL) | -0.11 | 11 | >999 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.66 | Vert(CT) | -0.16 | 12-13 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.69 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 79 lb | FT = 20%F, 11%E |

**LUMBER-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 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) 9=769/0-3-8 (min. 0-1-8), 1=776/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1295/0, 2-3=-1293/0, 3-4=-2282/0, 4-5=-2282/0, 5-6=-2034/0, 6-7=-2034/0
BOT CHORD 12-13=0/2010, 11-12=0/2282, 10-11=0/2282, 9-10=0/1275
WEBS 7-9=-1431/0, 1-13=0/1440, 7-10=0/860, 3-13=-812/0, 5-10=-432/44, 3-12=-0/449

**NOTES-**

1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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) 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 | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F13E | Floor Supported Gable | 1 | 1 | Job Reference (optional) |

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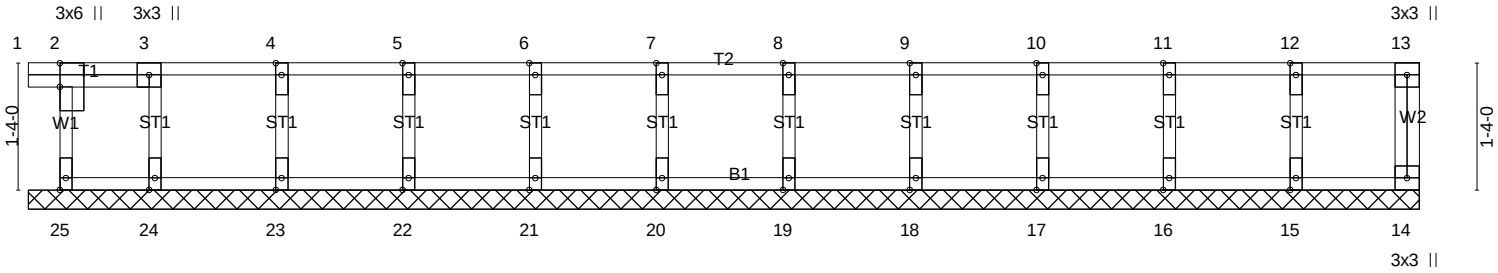
ID:skPGFeC8tMGiF5U4grLvDeyanjM-Km7pdt3DAQika9E0bgoD933aYbCG9qwT7sxdRdyMtR0

0-4-0

Scale: 1/2"=1'




0-4-0 — 14-7-8

0-4-0 — 14-3-8

Plate Offsets (X,Y)-- [2:0-3-0,0-0-0], [25:Edge,0-0-12]

| **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) | -0.00 | 1 | n/r | 90 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(CT) | -0.00 | 1 | n/r | 90 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-R | | | | | | | Weight: 66 lb | FT = 20%F, 11%E |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 or 2x4 SPF No.2(flat) |
| BOT CHORD | 2x4 SP No.2 or 2x4 SPF 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 14-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

**NOTES-**

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
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 10-0-0 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.
8) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F14 | Floor | 5 | 1 | Job Reference (optional) |

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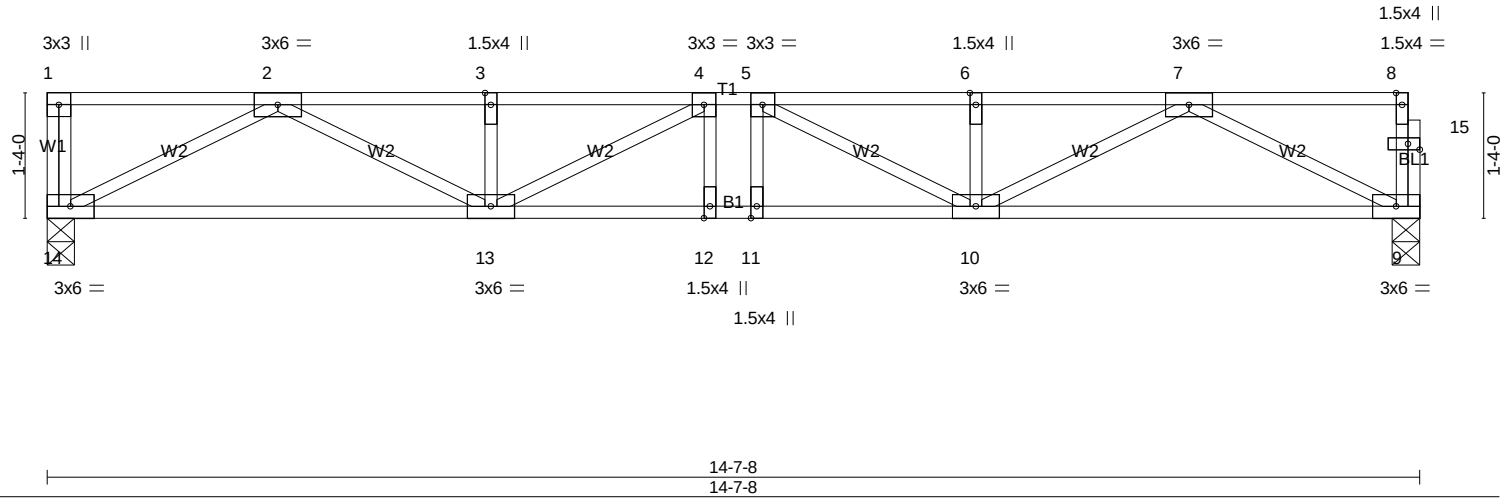
ID:skPGFeC8tMGiF5U4grLvDeyanjM-H8Fa1Z5Th1ySpSOPj5qhEU9s?PkIdeGmaAQkVWyMtR_

2-2-8 0-4-8 0-1-8

Scale = 1:24.5




14-7-8

14-7-8

Plate Offsets (X,Y)-- [15:0-1-8,0-0-12]

| **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 | 0.34 | Vert(LL) | -0.12 | 12 | >999 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.68 | Vert(CT) | -0.17 | 12 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.42 | Horz(CT) | 0.04 | 9 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 78 lb | FT = 20%F, 11%E |

**LUMBER-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 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) 14=791/0-3-8 (min. 0-1-8), 9=784/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2091/0, 3-4=-2091/0, 4-5=-2366/0, 5-6=-2091/0, 6-7=-2091/0
BOT CHORD 13-14=0/1306, 12-13=0/2366, 11-12=0/2366, 10-11=0/2366, 9-10=0/1304
WEBS 7-9=-1463/0, 2-14=-1470/0, 7-10=0/892, 2-13=0/889, 5-10=-457/33, 4-13=-457/32

**NOTES-**

1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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 | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F15 | Floor | 2 | 1 | Job Reference (optional) |

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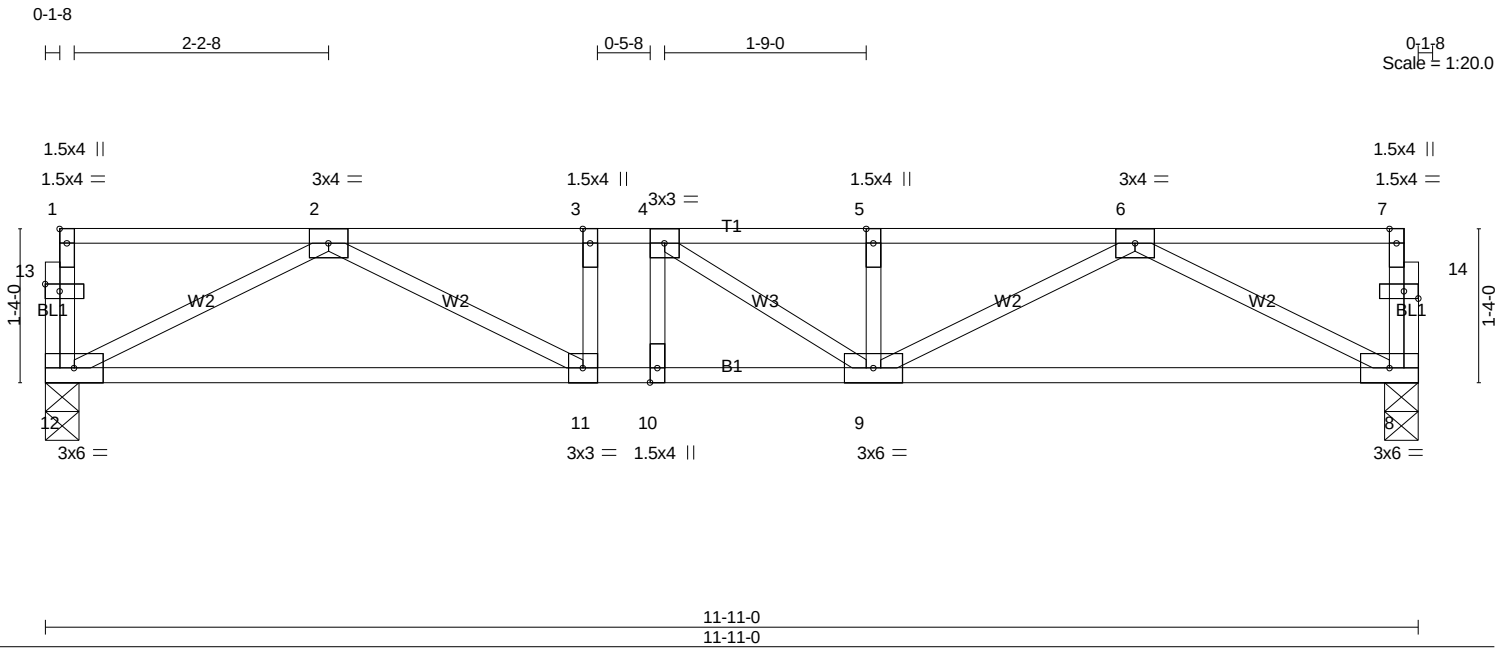


11-11-0
11-11-0

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [13:0-1-8,0-0-12], [14:0-1-8,0-0-12]

| **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 | 0.32 | Vert(LL) | -0.06 | 9-10 | >999 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.51 | Vert(CT) | -0.09 | 8-9 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.30 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 64 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 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=635/0-3-8 (min. 0-1-8), 8=635/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1522/0, 3-4=-1522/0, 4-5=-1521/0, 5-6=-1521/0
BOT CHORD 11-12=0/1022, 10-11=0/1522, 9-10=0/1522, 8-9=0/1019
WEBS 6-8=-1142/0, 2-12=-1145/0, 6-9=0/569, 2-11=0/575

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F15E | Floor Supported Gable | 1 | 1 | Job Reference (optional) |

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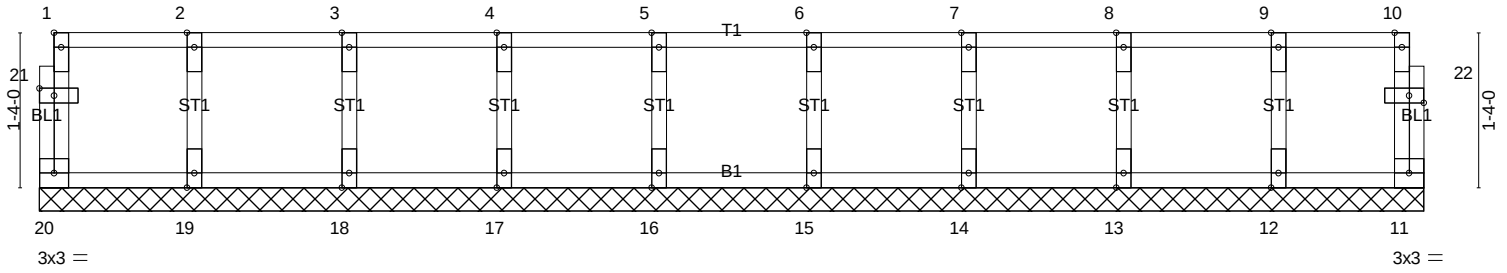
0-1-8 0-1-8

Scale = 1:19.8




11-11-0
11-11-0

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [21:0-1-8,0-0-12], [22:0-1-8,0-0-12]

| **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 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-R | | | | | | | Weight: 54 lb | FT = 20%F, 11%E |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 or 2x4 SPF No.2(flat) |
| BOT CHORD | 2x4 SP No.2 or 2x4 SPF 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 11-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

**NOTES-**

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
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 10-0-0 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.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F16 | Floor | 8 | 1 | Job Reference (optional) |

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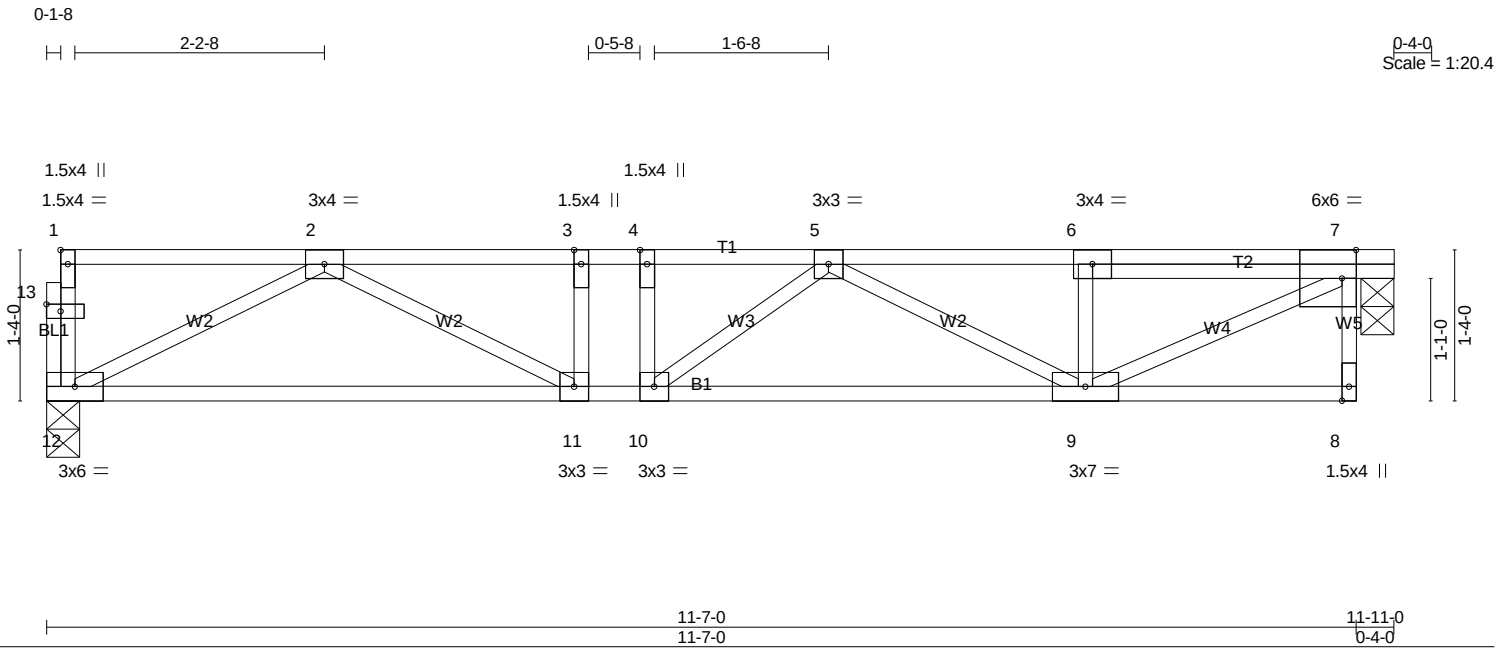


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [7:0-1-8,Edge], [13:0-1-8,0-0-12]

| **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 | 0.31 | Vert(LL) | -0.06 | 9-10 | >999 | 480 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.49 | Vert(CT) | -0.08 | 9-10 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.53 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 65 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 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=621/0-3-8 (min. 0-1-8), 7=627/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1465/0, 3-4=-1465/0, 4-5=-1465/0, 5-6=-1007/0, 6-7=-1010/0
BOT CHORD 11-12=0/993, 10-11=0/1465, 9-10=0/1440
WEBS 7-9=0/1122, 2-12=-1113/0, 2-11=0/550, 5-9=-490/0

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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 10-0-0 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) 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 | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F17 | Floor Supported Gable | 1 | 1 | Job Reference (optional) |

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0-4-0

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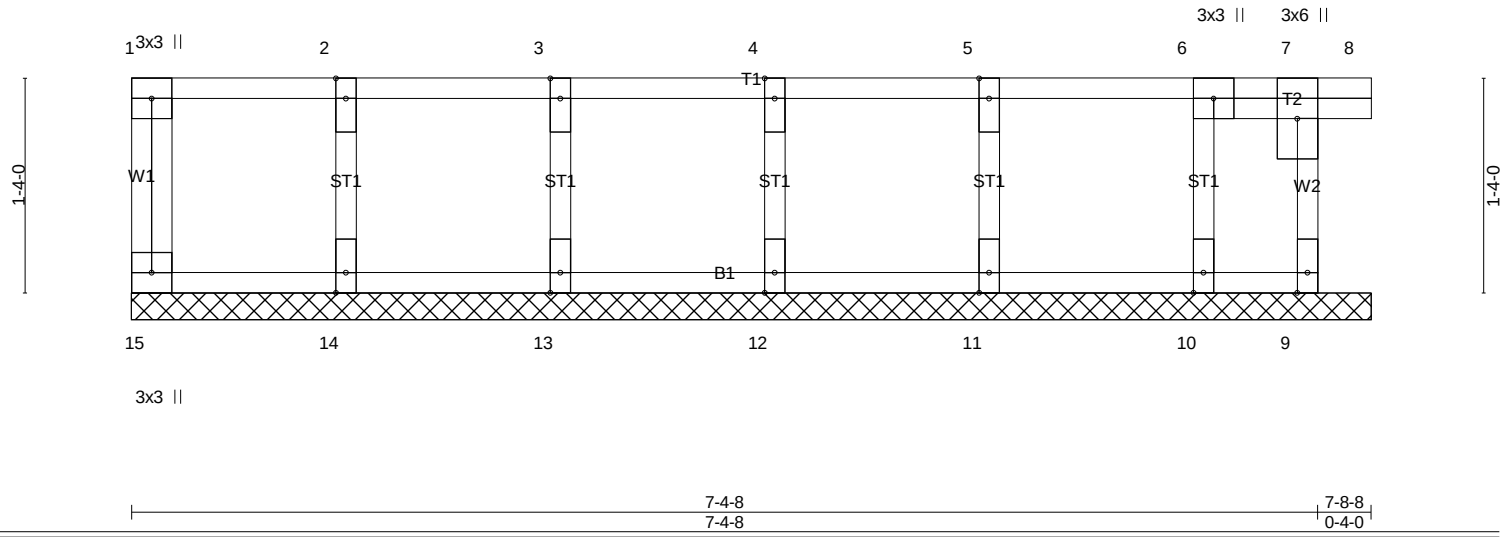





| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.08 | Vert(LL) | -0.00 | 7 | n/r | 90 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.02 | Vert(CT) | -0.00 | 7 | n/r | 90 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-R | | | | | | | Weight: 37 lb | FT = 20%F, 11%E |

**LUMBER-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF 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 7-8-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 15, 9, 14, 13, 12, 11, 10

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

**NOTES-**

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
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 10-0-0 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.
8) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | PINEDA 109-21-169 |
|---|---|---|---|---|---|
| 2100862-2100862A | F18 | GABLE | 1 | 1 | Job Reference (optional) |

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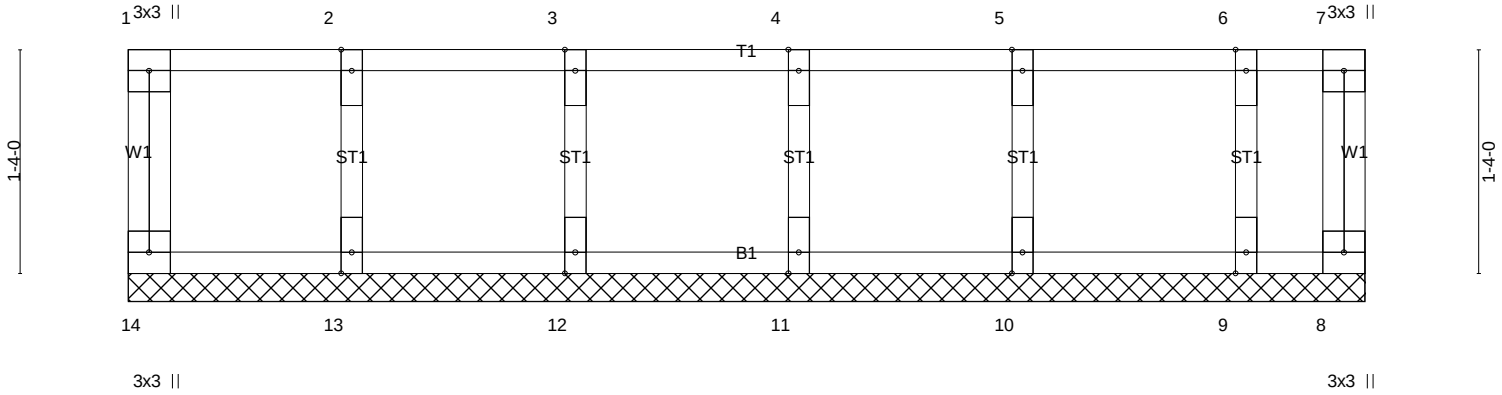


| 1-4-0 | 2-8-0 | 4-0-0 | 5-4-0 | 6-8-0 | 7-4-8 |
|---|---|---|---|---|---|
| 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 0-8-8 |

| **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 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.02 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2015/TPI2014 | | Matrix-R | | | | | | | Weight: 36 lb | FT = 20%F, 11%E |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 or 2x4 SPF No.2(flat) |
| BOT CHORD | 2x4 SP No.2 or 2x4 SPF 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 7-4-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

**NOTES-**

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
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 10-0-0 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.

**LOAD CASE(S)** Standard