

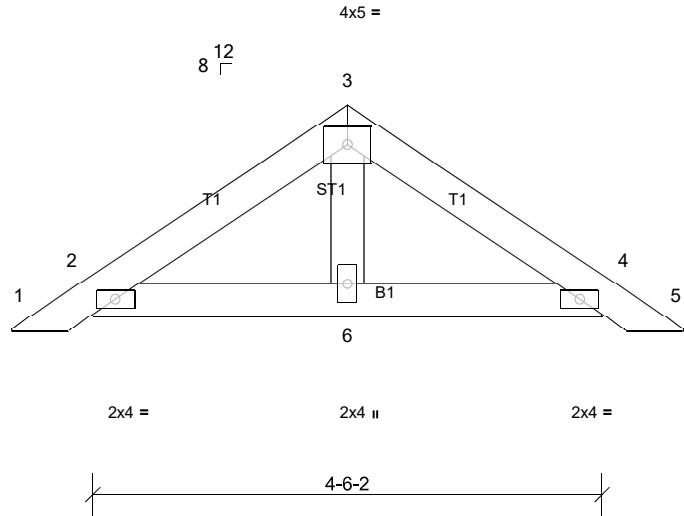
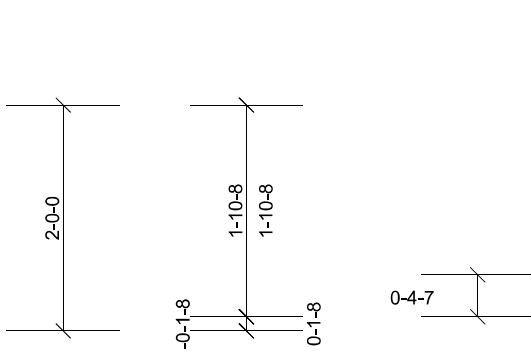
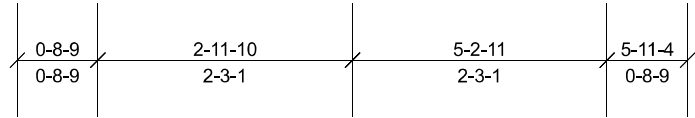
| | | | | | |
|--------------------|---------------|-------------------------|----------|----------|---|
| Job Q-2201750-1 | Truss CAP1 | Truss Type Piggyback | Qty 2 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|---------------|-------------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Aug 31 16:19:36

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Scale = 1:20.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 19 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 4-6-2.

(lb) - Max Horiz 2=-33 (LC 9), 7=-33 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 2, 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

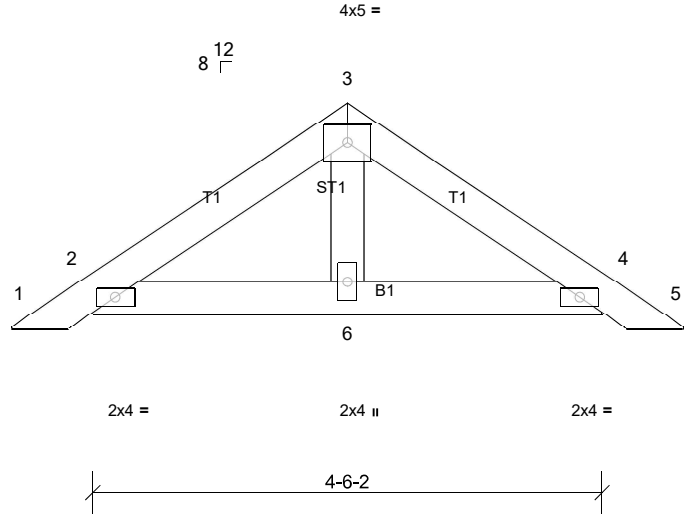
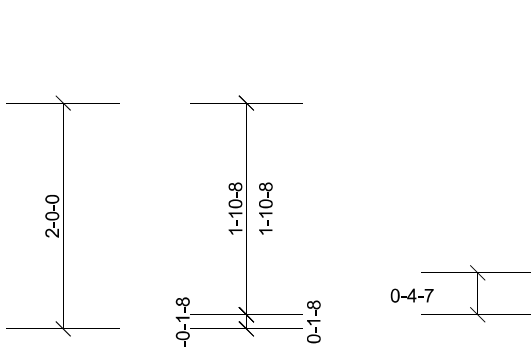
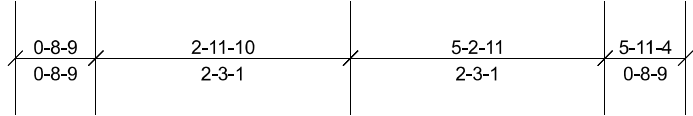
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|--------------------|---------------|-------------------------|-----------|----------|---|
| Job Q-2201750-1 | Truss CAP2 | Truss Type Piggyback | Qty 33 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|---------------|-------------------------|-----------|----------|---|

Peak Truss Builders LLC, New Hill, user

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Aug 31 16:19:37

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Scale = 1:20.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 19 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 4-6-2.

(lb) - Max Horiz 2=-33 (LC 9), 7=-33 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 2, 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

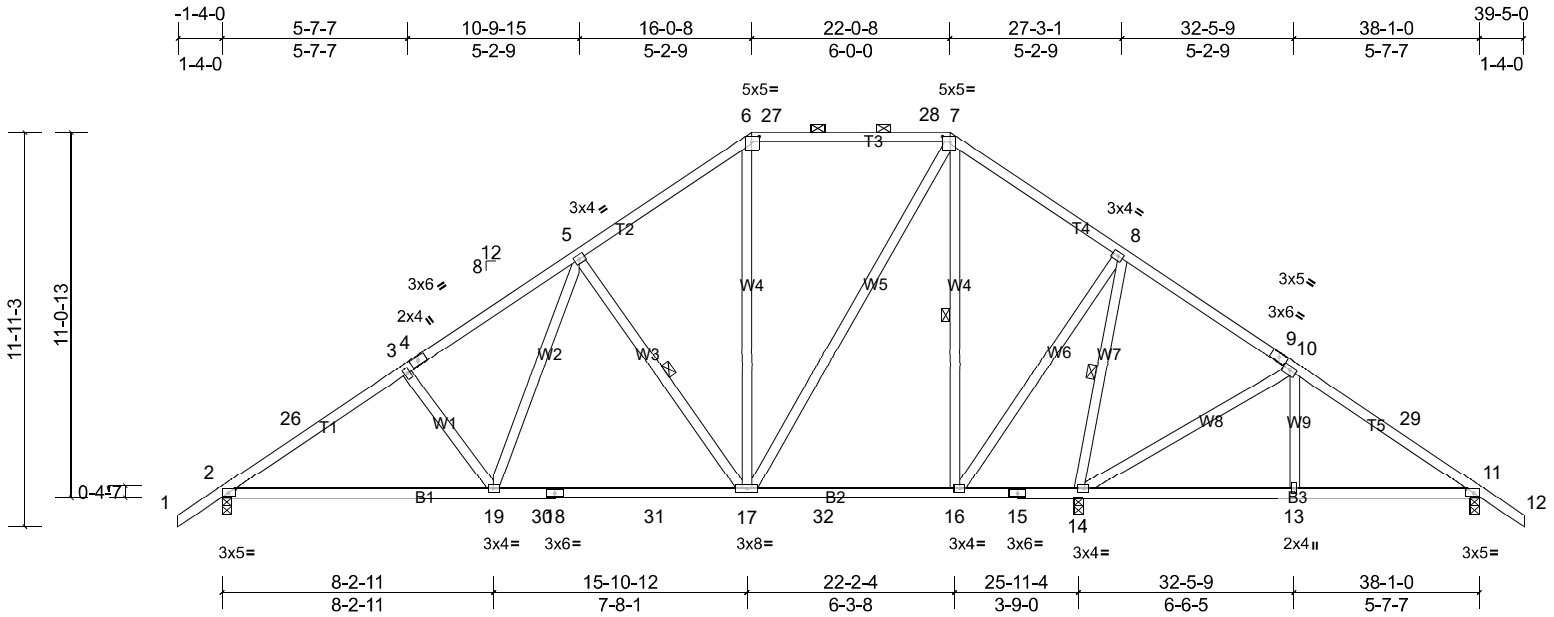
| | | | | | |
|--------------------|-------------|------------------------------|-----------|----------|---|
| Job Q-2201750-1 | Truss T1 | Truss Type Piggyback Base | Qty 11 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|------------------------------|-----------|----------|---|

Peak Truss Builders LLC, New Hill, user

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Aug 31 16:19:37

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Scale = 1:69.8

Plate Offsets (X, Y): [2:0-2-9,0-1-8], [6:0-2-12,0-2-0], [7:0-2-12,0-2-0], [11:0-2-9,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.11 | 17-19 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -0.18 | 17-19 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.48 | Horz(CT) | 0.03 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | Weight: 247 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

REACTIONS (lb/size) 2=1102/0-3-8, (min. 0-1-12), 11=537/0-3-8, (min. 0-1-8),
 14=1568/0-3-8, (min. 0-2-7)
 Max Horiz 2=216 (LC 10)
 Max Uplift 2=-175 (LC 11), 11=-107 (LC 11), 14=-187 (LC 11)
 Max Grav 2=1102 (LC 1), 11=556 (LC 24), 14=1568 (LC 1)

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins, except
 2-0-0 oc purlins (6-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 14-16.
 WEBS 1 Row at midpt 5-17, 7-16, 8-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

TOP CHORD 2-26=-1534/189, 3-26=-1473/220, 3-4=-1381/214, 4-5=-1370/250, 5-6=-825/255, 6-27=-631/251, 27-28=-631/251,
 7-28=-631/251, 7-8=-446/215, 10-29=-505/81, 11-29=-581/60
 BOT CHORD 2-19=-60/1372, 19-30=0/1038, 18-30=0/1038, 18-31=0/1038, 17-31=0/1038, 17-32=0/378, 16-32=0/378, 15-16=-324/191,
 14-15=-324/191, 13-14=0/420, 11-13=0/420
 WEBS 3-19=-286/156, 5-19=-33/496, 5-17=-572/193, 7-17=-63/669, 7-16=-645/61, 8-16=-10/987, 8-14=-1267/195,
 10-14=-450/116

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 1-4-0 to 2-5-11, Interior (1) 2-5-11 to 16-0-8, Exterior (2) 16-0-8 to 21-5-2, Interior (1) 21-5-2 to 22-0-8, Exterior (2) 22-0-8 to 27-3-6, Interior (1) 27-3-6 to 39-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 2, 187 lb uplift at joint 14 and 107 lb uplift at joint 11.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

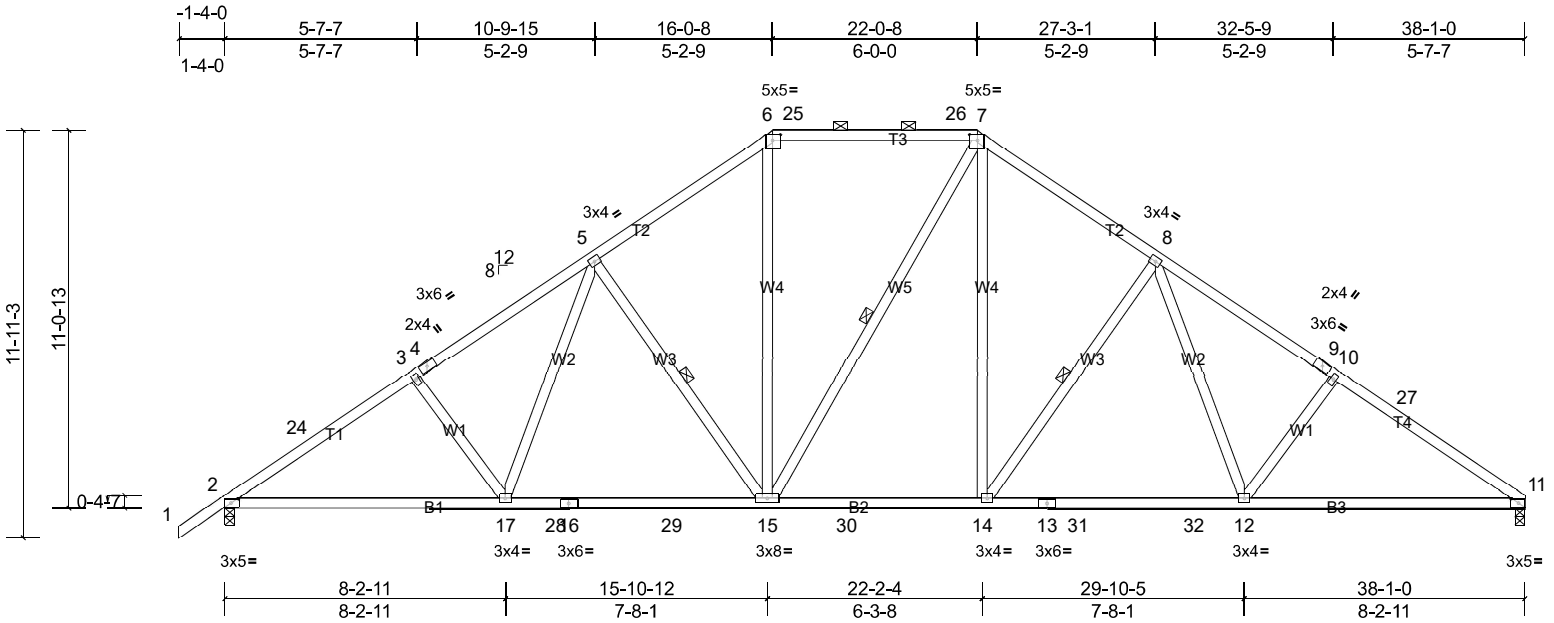
| | | | | | |
|--------------------|--------------|------------------------------|-----------|----------|---|
| Job Q-2201750-1 | Truss T1A | Truss Type Piggyback Base | Qty 14 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|--------------|------------------------------|-----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:67.5

Plate Offsets (X, Y): [2:0-2-9,0-1-8], [6:0-2-12,0-2-0], [7:0-2-12,0-2-0], [11:0-2-9,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.16 | 15-17 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | -0.29 | 12-14 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.28 | Horz(CT) | 0.09 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | |
| | | | | | | | | | | | Weight: 236 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

REACTIONS (lb/size) 2=1605/0-3-8, (min. 0-2-9), 11=1522/0-3-8, (min. 0-2-7)
 Max Horiz 2=212 (LC 10)
 Max Uplift 2=-236 (LC 11), 11=-186 (LC 11)
 Max Grav 2=1617 (LC 19), 11=1550 (LC 20)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins, except 2-0-0 oc purlins (4-8-7 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-15, 7-15, 8-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES

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

TOP CHORD 2-24=-2449/297, 3-24=-2386/328, 3-4=-2297/322, 4-5=-2286/358, 5-6=-1746/365, 6-25=-1389/342, 25-26=-1389/342, 7-26=-1389/342, 7-8=-1761/365, 8-9=-2308/366, 9-10=-2320/331, 10-27=-2378/337, 11-27=-2458/319
 BOT CHORD 2-17=-191/2122, 17-28=-90/1795, 16-28=-90/1795, 16-29=-90/1795, 15-29=-90/1795, 15-30=0/1430, 14-30=0/1430, 13-14=-93/1684, 13-31=-93/1684, 31-32=-93/1684, 12-32=-93/1684, 11-12=-201/1994
 WEBS 3-17=-281/155, 5-17=-30/489, 5-15=-572/192, 6-15=-78/659, 7-14=-79/735, 8-14=-576/197, 8-12=-40/499, 10-12=-288/162

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-4-0 to 2-5-11, Interior (1) 2-5-11 to 16-0-8, Exterior (2) 16-0-8 to 21-5-2, Interior (1) 21-5-2 to 22-0-8, Exterior (2) 22-0-8 to 27-3-1, Interior (1) 27-3-1 to 38-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 2 and 186 lb uplift at joint 11.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

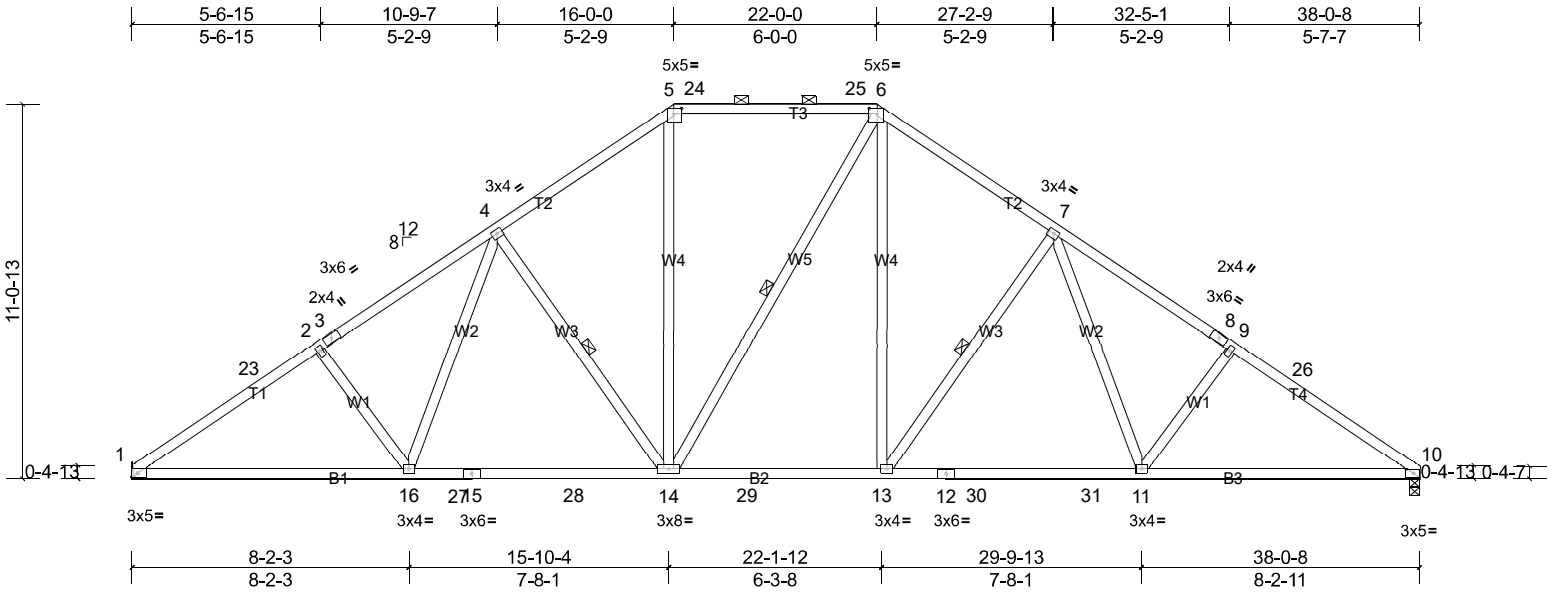
| | | | | | |
|--------------------|--------------|------------------------------|----------|----------|---|
| Job Q-2201750-1 | Truss T1B | Truss Type Piggyback Base | Qty 8 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|--------------|------------------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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ID:POY_loomj_onDqdV6qurDyilXK-UFnu1glINO_ZoB_n1OV3wFe0uVkwUllfycA0S9EyiHY



Scale = 1:68.1

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | 0.46 | DEFL | in (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------------|--------|-----|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.16 14-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | -0.29 11-13 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.28 | Horz(CT) | 0.09 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 233 lb FT = 20% |

LUMBER
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins, except 2-0-0 oc purlins (4-8-7 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-14, 6-14, 7-13

REACTIONS (lb/size) 1=1522/ Mechanical, (min. 0-1-8), 10=1522/0-3-8, (min. 0-2-7)
 Max Horiz 1=199 (LC 10)
 Max Uplift 1=-187 (LC 11), 10=-187 (LC 11)
 Max Grav 1=1542 (LC 19), 10=1549 (LC 20)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-23=-2446/320, 2-23=-2351/337, 2-3=-2294/331, 3-4=-2282/367, 4-5=-1746/367, 5-24=-1388/344, 24-25=-1388/344, 6-25=-1388/344, 6-7=-1760/367, 7-8=-2307/368, 8-9=-2318/333, 9-26=-2377/339, 10-26=-2457/321
 BOT CHORD 1-16=-201/2118, 16-27=-94/1793, 15-27=-94/1793, 15-28=-94/1793, 14-28=-94/1793, 14-29=0/1429, 13-29=0/1429, 12-13=-94/1684, 12-30=-94/1684, 30-31=-94/1684, 11-31=-94/1684, 10-11=-203/1993
 WEBS 2-16=-280/161, 4-16=-38/486, 4-14=-571/196, 5-14=-79/659, 6-13=-79/735, 7-13=-576/196, 7-11=-40/499, 9-11=-288/162

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-10-2, Interior (1) 3-10-2 to 16-0-8, Exterior (2) 16-0-8 to 21-5-1, Interior (1) 21-5-1 to 22-0-8, Exterior (2) 22-0-8 to 27-3-1, Interior (1) 27-3-1 to 38-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 1 and 187 lb uplift at joint 10.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

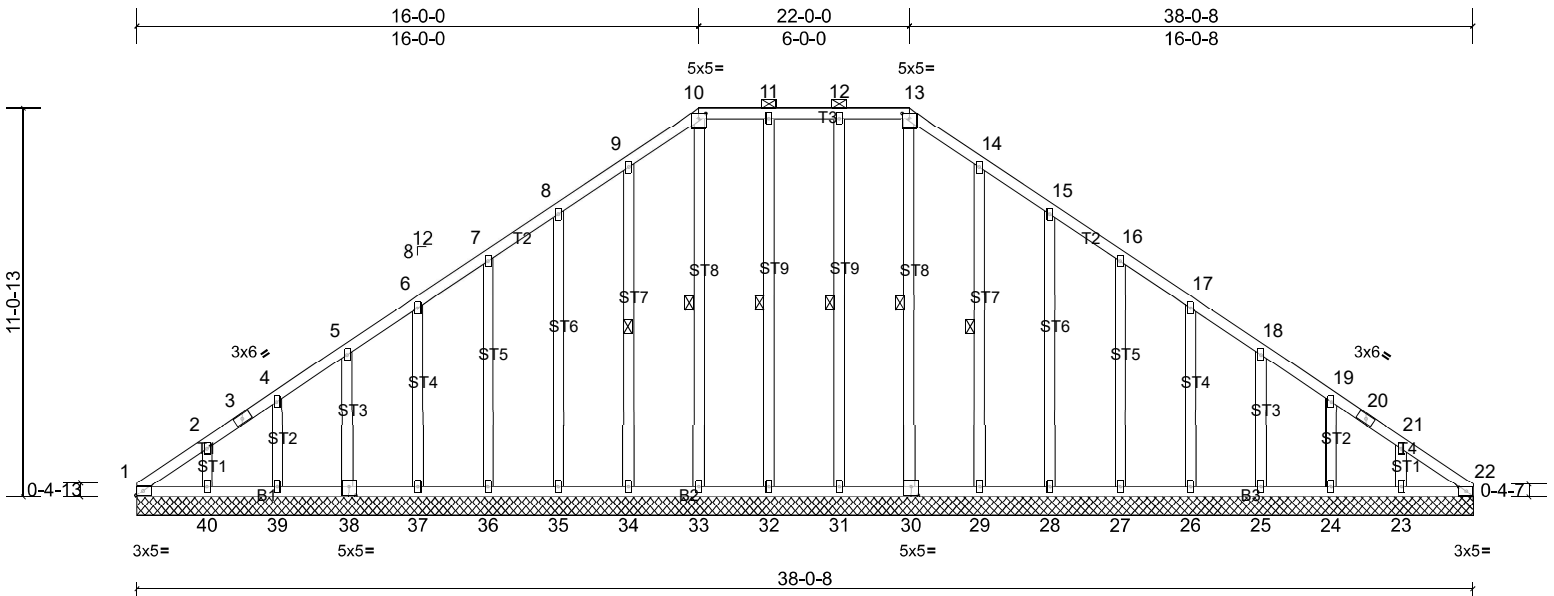
| | | | | | |
|--------------------|----------------|--|----------|----------|---|
| Job Q-2201750-1 | Truss T1CGE | Truss Type Piggyback Base Supported Gable | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|----------------|--|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:65.6

Plate Offsets (X, Y): [10:0-2-8,0-1-13], [13:0-2-8,0-1-13], [22:0-2-9,0-1-8], [30:0-2-8,0-3-0], [38:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.15 | Horiz(TL) | 0.01 | 22 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | |
| | | | | | | | | | | | Weight: 294 lb | FT = 20% |

LUMBER
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-13.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 13-30, 12-31, 11-32, 10-33, 9-34, 14-29

REACTIONS All bearings 38-0-8.
 (lb) - Max Horiz 1=199 (LC 10), 41=199 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 23, 24, 25, 26, 27, 28, 29, 31, 32, 34, 35, 36, 37, 38, 39, 40, 41
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 44

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-8 to 4-0-8, Exterior (2) 4-0-8 to 16-0-8, Corner (3) 16-0-8 to 20-0-8, Exterior (2) 20-0-8 to 22-0-8, Corner (3) 22-0-8 to 26-0-8, Exterior (2) 26-0-8 to 38-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 31, 32, 34, 35, 36, 37, 38, 39, 40, 29, 28, 27, 26, 25, 24, 23, 1.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 22, 44.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

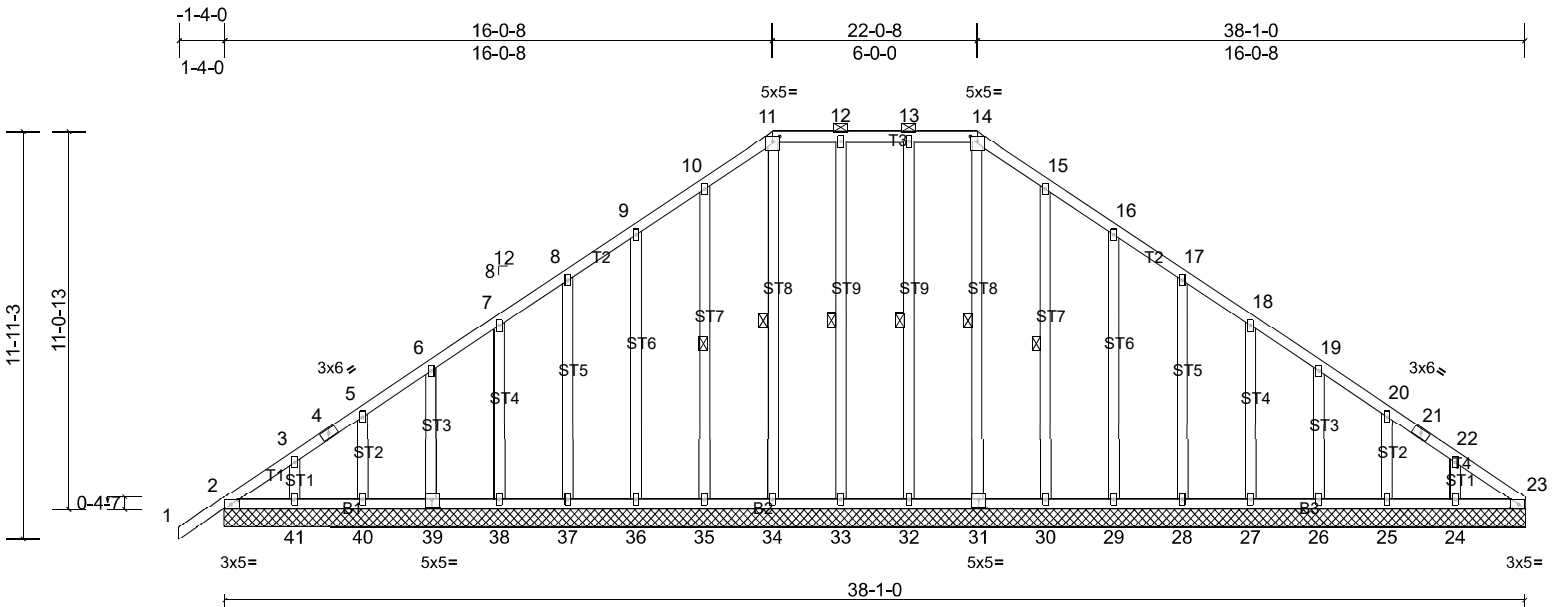
| | | | | | |
|--------------------|---------------|--|----------|----------|---|
| Job Q-2201750-1 | Truss T1GE | Truss Type Piggyback Base Supported Gable | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|---------------|--|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:67.5

Plate Offsets (X, Y): [2:0-2-9,0-1-8], [11:0-2-8,0-1-13], [14:0-2-8,0-1-13], [23:0-2-9,0-1-8], [31:0-2-8,0-3-0], [39:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.15 | Horz(CT) | 0.01 | 23 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 297 lb FT = 20% |

LUMBER
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-14.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 14-31, 13-32, 12-33, 11-34, 10-35, 15-30

REACTIONS All bearings 38-1-0.
 (lb) - Max Horiz 2=211 (LC 10), 42=211 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 24, 25, 26, 27, 28, 29, 30, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 45

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-4-0 to 2-5-11, Exterior (2) 2-5-11 to 16-0-8, Corner (3) 16-0-8 to 20-0-8, Exterior (2) 20-0-8 to 22-0-8, Corner (3) 22-0-8 to 26-0-8, Exterior (2) 26-0-8 to 38-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 32, 33, 35, 36, 37, 38, 39, 40, 41, 30, 29, 28, 27, 26, 25, 24, 2.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 23, 45.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|--------------------|-------------|---------------------|-----------|----------|---|
| Job Q-2201750-1 | Truss T2 | Truss Type Attic | Qty 10 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|---------------------|-----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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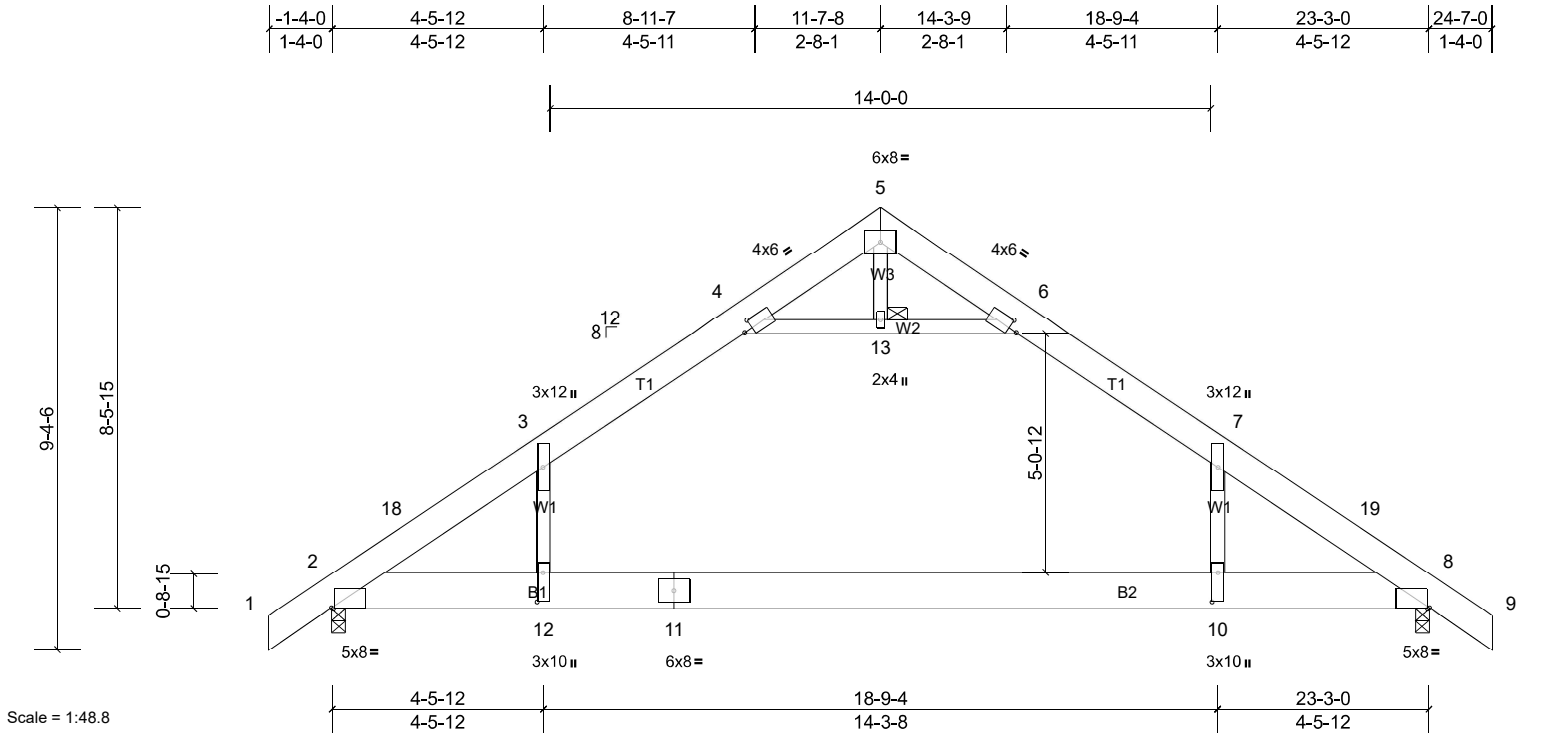


Plate Offsets (X, Y): [2:0-0-8,Edge], [4:0-2-3,0-2-4], [6:0-2-3,0-2-4], [8:0-0-8,Edge], [10:0-7-8,0-1-8], [12:0-7-8,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | -0.40 | 10-12 | >696 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.87 | Vert(CT) | -0.55 | 10-12 | >503 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.59 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | Attic | -0.25 | 10-12 | >698 | 360 | | Weight: 208 lb FT = 20% |

LUMBER

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x10 SP No.2 *Except* B2:2x10 SP No.1
 WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-6-8 oc bracing.
 JOINTS 1 Brace at Jt(s): 13

REACTIONS (lb/size) 2=1082/0-3-8, (min. 0-2-3), 8=1082/0-3-8, (min. 0-2-3)
 Max Horiz 2=-155 (LC 9)
 Max Uplift 2=-118 (LC 11), 8=-118 (LC 11)
 Max Grav 2=1410 (LC 17), 8=1410 (LC 18)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-2139/19, 3-18=-2056/38, 3-4=-1460/160, 4-5=-64/360, 5-6=-64/361, 6-7=-1460/160, 7-19=-2062/37, 8-19=-2145/19
 BOT CHORD 2-12=0/1496, 11-12=0/1503, 10-11=0/1503, 8-10=0/1496
 WEBS 7-10=0/1248, 3-12=0/1237, 4-13=-1843/156, 6-13=-1843/156

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=23ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-7-8, Exterior (2) 11-7-8 to 14-8-0, Interior (1) 14-8-0 to 24-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-13, 6-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 10-12
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 2 and 118 lb uplift at joint 8.
- 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.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

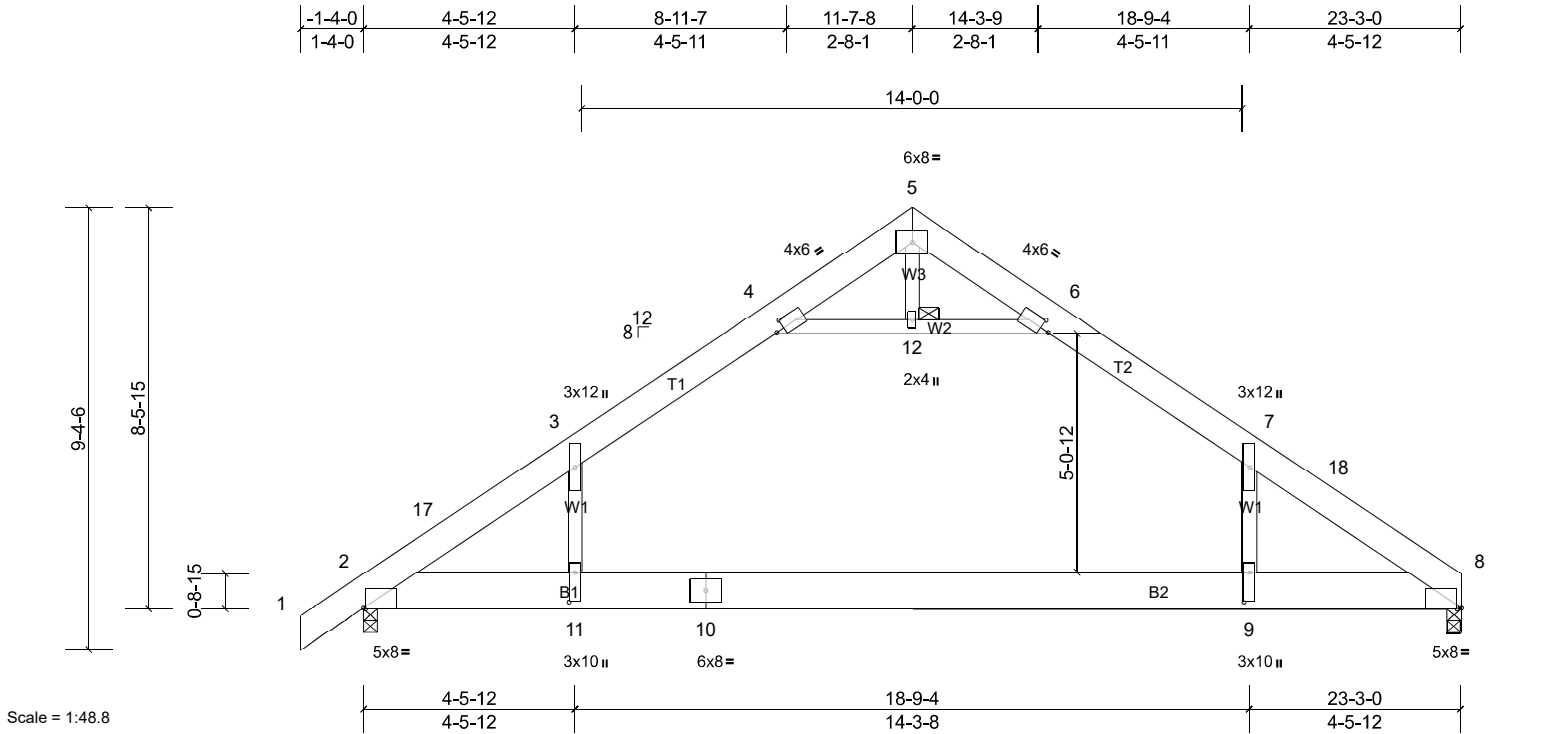
| | | | | | |
|--------------------|--------------|---------------------|----------|----------|---|
| Job Q-2201750-1 | Truss T2A | Truss Type Attic | Qty 4 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|--------------|---------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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ID:DX?bgpRNkbaT3UNoMyWMkyiJls-QueveSLJewbpWQlxQWw5OK256fXX?DACF3UVZE6yiHyW



Scale = 1:48.8

Plate Offsets (X, Y): [2:0-0-8,Edge], [4:0-2-3,0-2-4], [6:0-2-3,0-2-4], [8:0-1-0,Edge], [9:0-7-8,0-1-8], [11:0-7-8,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | -0.40 | 9-11 | >696 | 240 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.87 | Vert(CT) | -0.55 | 9-11 | >503 | 180 | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.02 | 8 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | Attic | -0.25 | 9-11 | >698 | 360 | Weight: 203 lb FT = 20% |

LUMBER

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x10 SP No.2 *Except* B2:2x10 SP No.1
 WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-6-8 oc bracing.
 JOINTS 1 Brace at Jt(s): 12

REACTIONS (lb/size) 2=1084/0-3-8, (min. 0-2-3), 8=999/0-3-8, (min. 0-2-2)
 Max Horiz 2=151 (LC 10)
 Max Uplift 2=-120 (LC 11), 8=-69 (LC 11)
 Max Grav 2=1411 (LC 21), 8=1337 (LC 22)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-17=-2146/26, 3-17=-2063/44, 3-4=-1464/164, 4-5=-62/361, 5-6=-61/362, 6-7=-1462/164, 7-18=-2066/43, 8-18=-2149/29
 BOT CHORD 2-11=0/1491, 10-11=0/1498, 9-10=0/1498, 8-9=0/1490
 WEBS 7-9=0/1250, 3-11=0/1238, 4-12=-1850/164, 6-12=-1850/164

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=23ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-7-8, Exterior (2) 11-7-8 to 14-8-0, Interior (1) 14-8-0 to 23-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-12, 6-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 9-11
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 8 and 120 lb uplift at joint 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.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

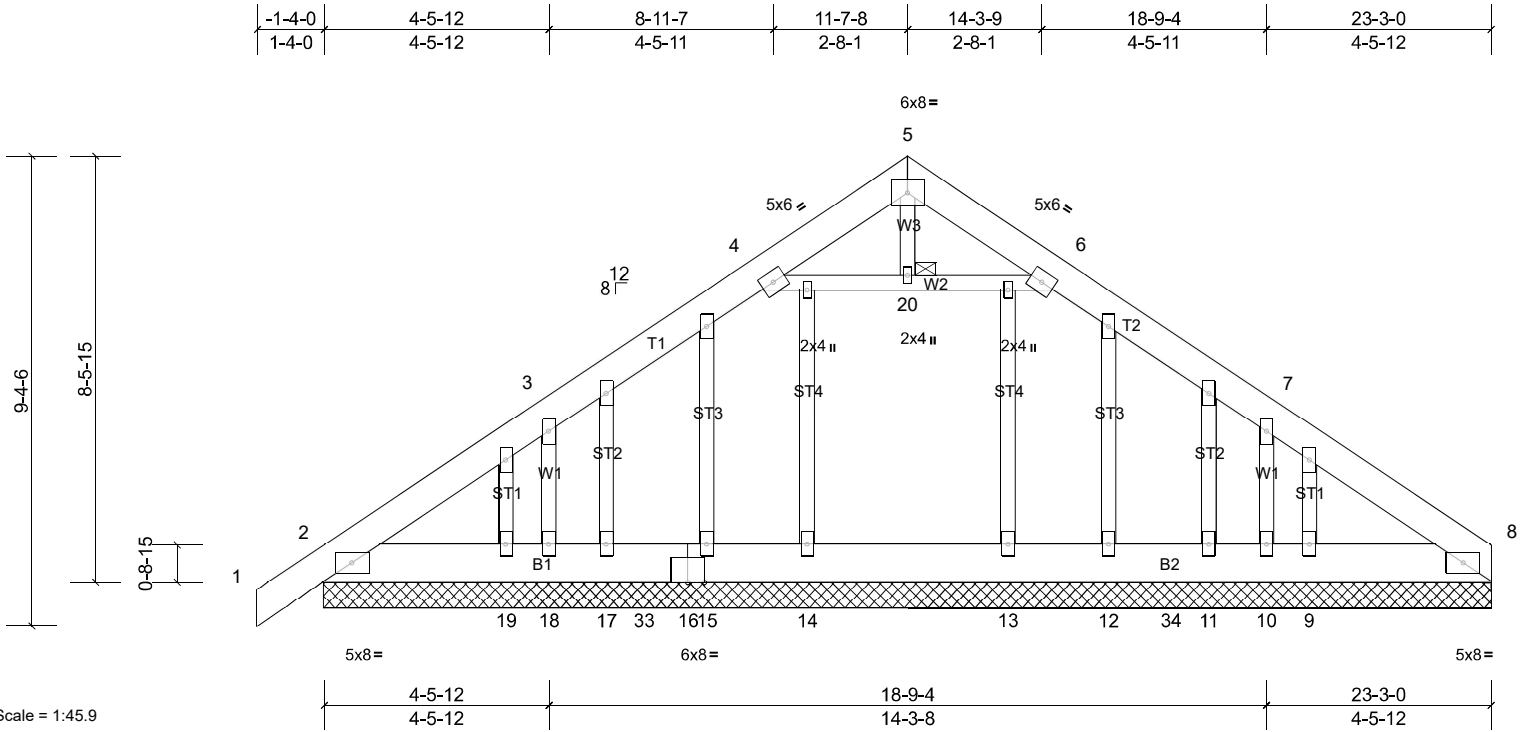
| | | | | | |
|--------------------|----------------|-------------------------------------|----------|----------|---|
| Job Q-2201750-1 | Truss T2BGE | Truss Type Attic Supported Gable | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|----------------|-------------------------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:45.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | 0.11 | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.01 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | Weight: 245 lb FT = 20% |

LUMBER

TOP CHORD 2x8 SP No.2
 BOT CHORD 2x10 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 20

REACTIONS All bearings 23-3-0.

(lb) - Max Horiz 2=151 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9 except 2=-110 (LC 11), 10=-123 (LC 11), 18=-148 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 9, 11, 12, 13, 14, 15, 17, 19 except 2=492 (LC 1), 8=392 (LC 1), 10=269 (LC 22), 18=296 (LC 21)

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

TOP CHORD 2-3=-535/92, 3-4=-583/206, 6-7=-583/206, 7-8=-522/91
 BOT CHORD 2-19=-10/416, 18-19=-10/416, 17-18=-9/414, 17-33=-9/414, 16-33=-9/414, 15-16=-9/414, 14-15=-9/414, 13-14=-9/414, 12-13=-9/414, 12-34=-9/414, 11-34=-9/414, 10-11=-9/414, 9-10=-10/416, 8-9=-10/416
 WEBS 7-10=-346/159, 3-18=-343/156, 4-20=-255/179, 6-20=-255/179

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=23ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 1-4-0 to 1-8-0, Exterior (2) 1-8-0 to 11-7-8, Corner (3) 11-7-8 to 14-8-0, Exterior (2) 14-8-0 to 23-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 3x6 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9 except (jt=lb) 2=110, 10=122, 18=147.
- 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.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

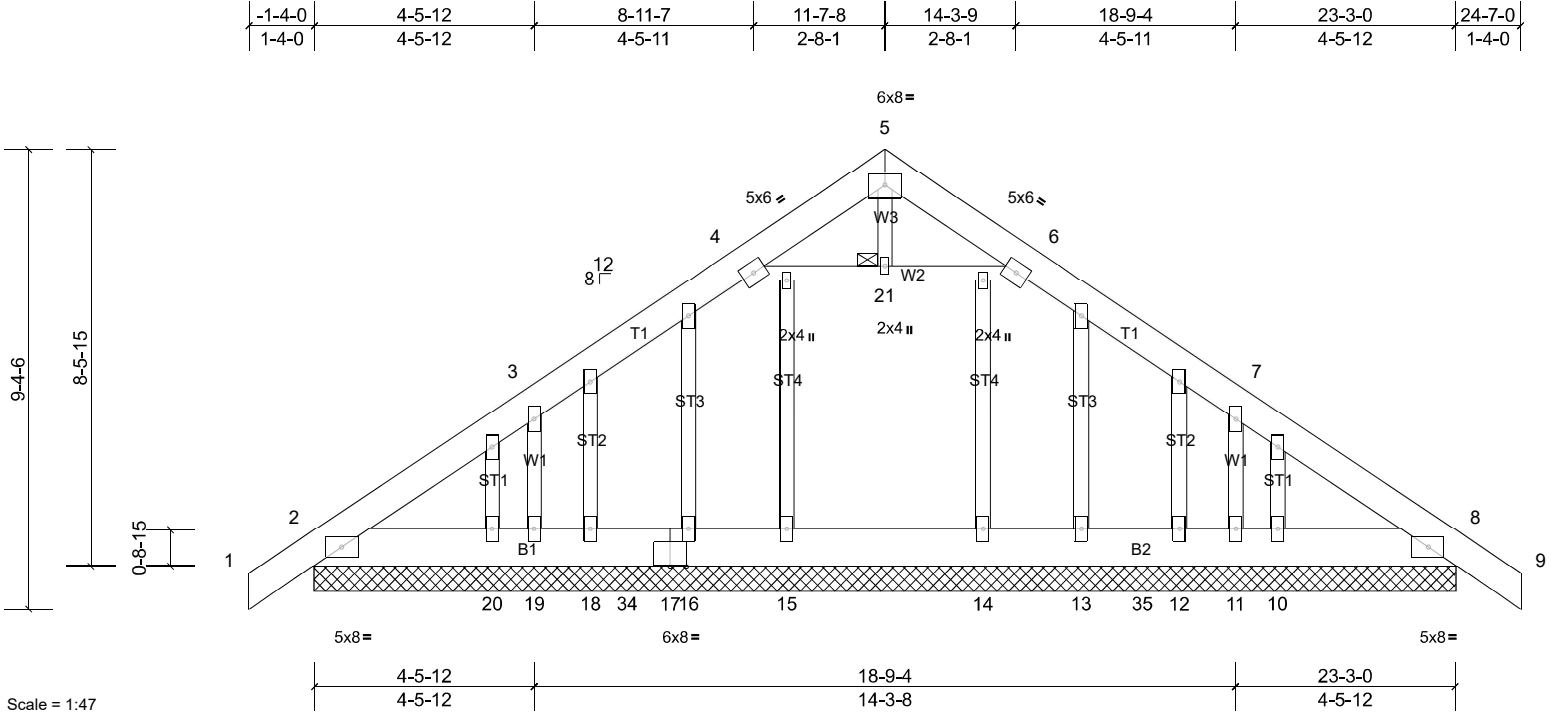
| | | | | | |
|--------------------|---------------|-------------------------------------|----------|----------|---|
| Job Q-2201750-1 | Truss T2GE | Truss Type Attic Supported Gable | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|---------------|-------------------------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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| Loading | (psf) | Spacing | 2-0-0 | CSI | 0.11 | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.01 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | Weight: 250 lb FT = 20% |

LUMBER
 TOP CHORD 2x8 SP No.2
 BOT CHORD 2x10 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 21

REACTIONS All bearings 23-3-0.
 (lb) - Max Horiz 2=-155 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-112 (LC 11), 8=-112 (LC 11), 11=-145 (LC 11), 19=-145 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 10, 12, 13, 14, 15, 16, 18, 20 except 2=492 (LC 1), 8=492 (LC 1), 11=296 (LC 22), 19=296 (LC 21)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-535/95, 3-4=-584/207, 6-7=-584/207, 7-8=-535/95
 BOT CHORD 2-20=0/417, 19-20=0/417, 18-19=0/415, 18-34=0/415, 17-34=0/415, 16-17=0/415, 15-16=0/415, 14-15=0/415, 13-14=0/415, 13-35=0/415, 12-35=0/415, 11-12=0/415, 10-11=0/417, 8-10=0/417
 WEBS 7-11=-343/155, 3-19=-343/155, 4-21=-256/182, 6-21=-256/182

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=23ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-4-0 to 1-8-0, Exterior (2) 1-8-0 to 11-7-8, Corner (3) 11-7-8 to 14-8-0, Exterior (2) 14-8-0 to 24-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 2, 145 lb uplift at joint 11, 145 lb uplift at joint 19 and 111 lb uplift at joint 8.
 - 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.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

| | | | | | |
|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss T3 | Truss Type Common | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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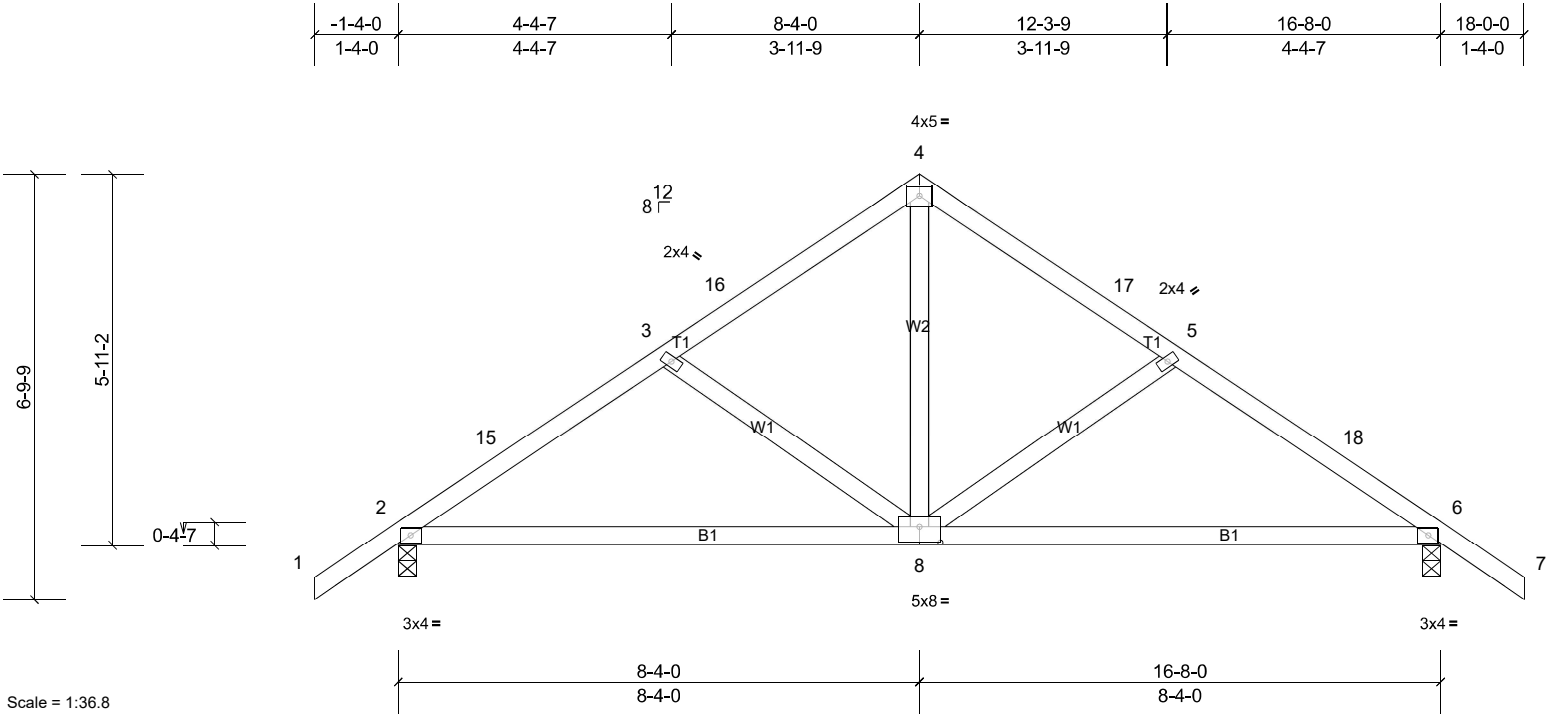


Plate Offsets (X, Y): [8:0-4-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | -0.02 | 8-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.10 | 8-14 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | |
| | | | | | | | | | | | Weight: 82 lb | FT = 20% |

LUMBER
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=747/0-3-8, (min. 0-1-8), 6=747/0-3-8, (min. 0-1-8)
 Max Horiz 2=115 (LC 10)
 Max Uplift 2=-129 (LC 11), 6=-129 (LC 11)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-15=-905/123, 3-15=-872/146, 3-16=-698/107, 4-16=-621/127, 4-17=-621/127, 5-17=-698/107, 5-18=-872/146, 6-18=-905/123
 BOT CHORD 2-8=-13/726, 6-8=-13/726
 WEBS 4-8=-41/479, 5-8=-263/126, 3-8=-263/126

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 8-4-0, Exterior (2) 8-4-0 to 11-4-0, Interior (1) 11-4-0 to 18-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 2 and 129 lb uplift at joint 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.

LOAD CASE(S) Standard

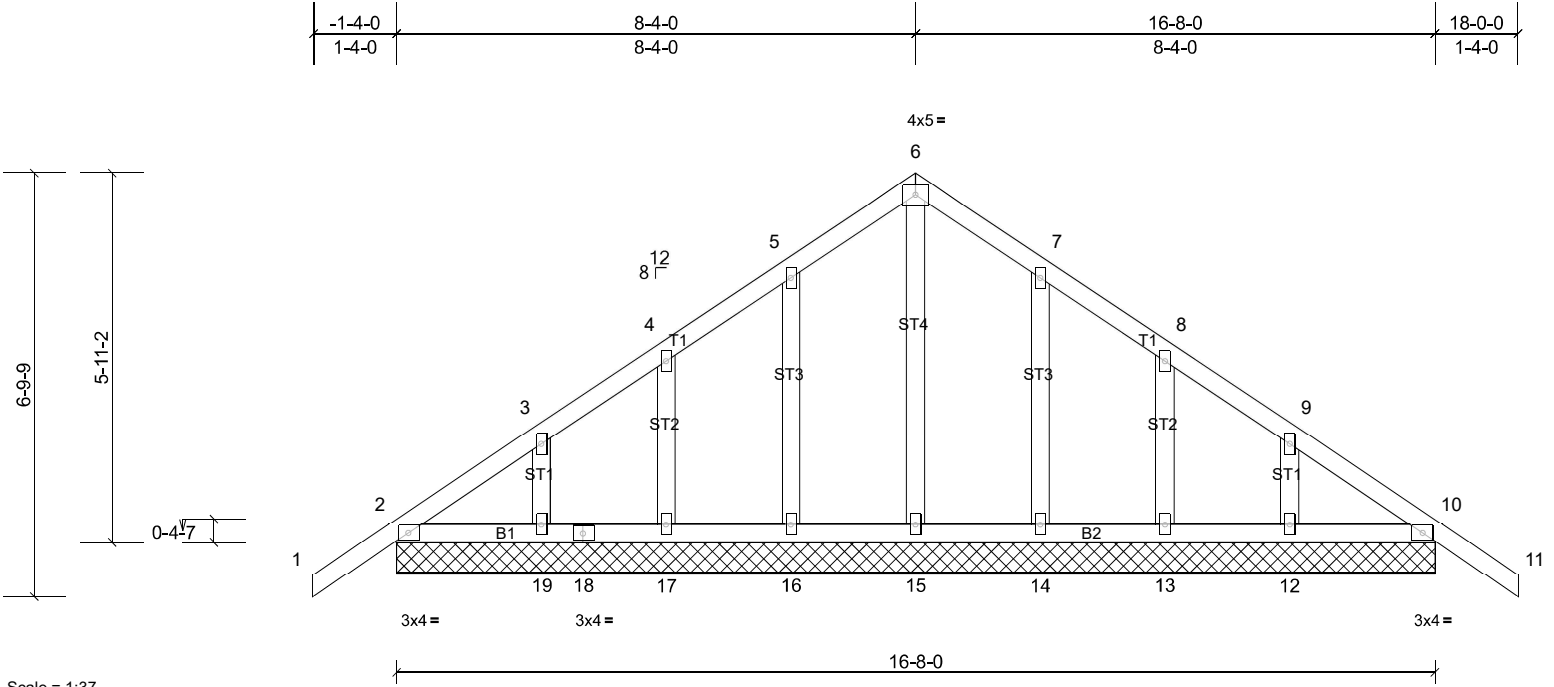
| | | | | | |
|--------------------|---------------|--------------------------------------|----------|----------|---|
| Job Q-2201750-1 | Truss T3GE | Truss Type Common Supported Gable | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|---------------|--------------------------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:37

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 23 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 92 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 16-8-0.

- (lb) - Max Horiz 2=-115 (LC 9), 20=-115 (LC 9)
- Max Uplift All uplift 100 (lb) or less at joint(s) 2, 10, 12, 13, 14, 16, 17, 19, 20, 23
- Max Grav All reactions 250 (lb) or less at joint(s) 2, 10, 12, 13, 14, 15, 16, 17, 19, 20, 23

FORCES

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

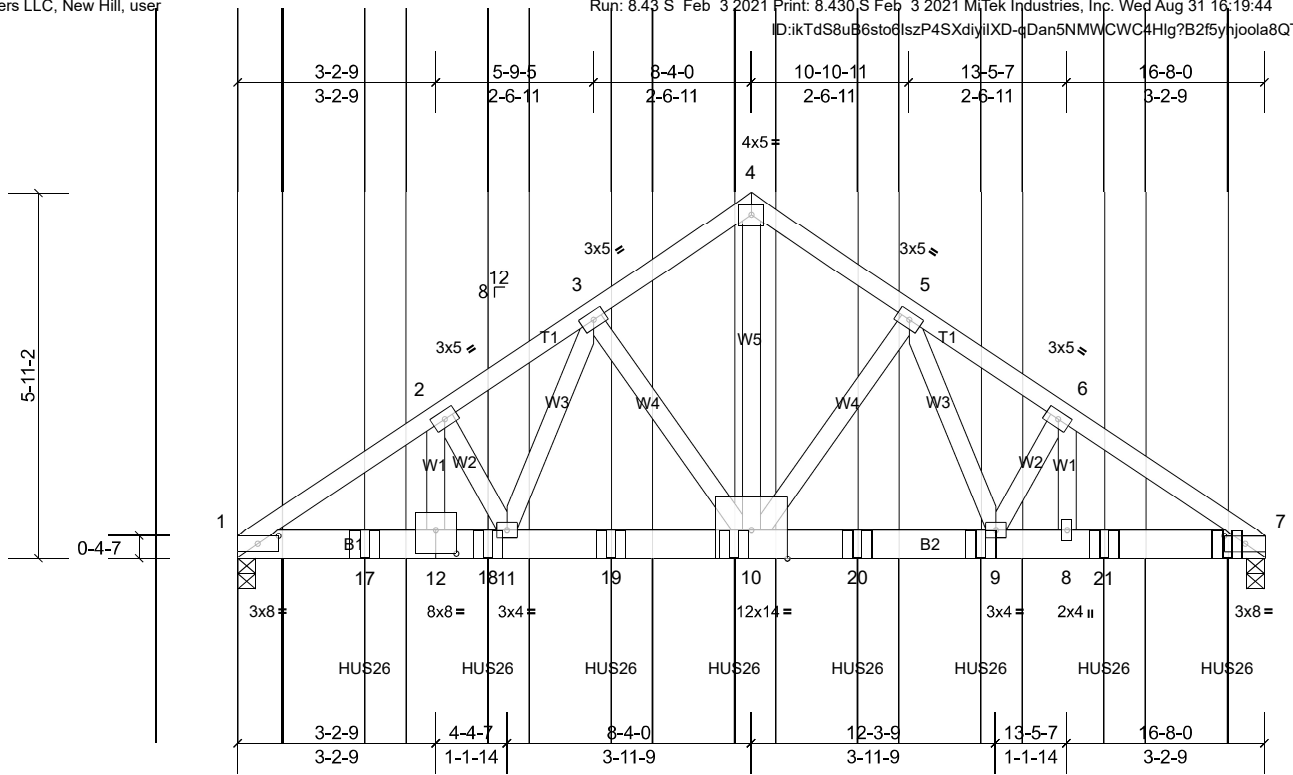
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-4-0 to 1-8-0, Exterior (2) 1-8-0 to 8-4-0, Corner (3) 8-4-0 to 11-4-0, Exterior (2) 11-4-0 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 17, 19, 14, 13, 12, 10, 2, 10.
- 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.

LOAD CASE(S) Standard

| | | | | | |
|--------------------|----------------|-----------------------------|----------|----------|---------------------------|
| Job Q-2201750-1 | Truss T3GRD | Truss Type Common Girder | Qty 1 | Ply 4 | Castro House-Castro House |
| | | | | | Job Reference (optional) |

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Scale = 1:37.4

Plate Offsets (X, Y): [1:0-4-1,0-1-8], [7:0-4-1,0-1-8], [12:0-4-0,0-4-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in (loc) | l/defl | L/d | PLATES | GRIP | | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|--------|------|--------|------|------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.23 | Vert(LL) | -0.06 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.72 | Vert(CT) | -0.11 | 9-10 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.84 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | Weight: 447 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING

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

REACTIONS (lb/size) 1=6107/0-3-8, (min. 0-2-6), 7=7244/0-3-8, (min. 0-2-14)

Max Horiz 1=100 (LC 6)
 Max Uplift 1=-804 (LC 7), 7=-953 (LC 7)
 Max Grav 1=6128 (LC 12), 7=7283 (LC 13)

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

TOP CHORD 1-2=-10048/1334, 2-3=-9343/1284, 3-4=-6530/938, 4-5=-6530/938, 5-6=-9566/1313, 6-7=-10380/1381
 BOT CHORD 1-17=-1064/8388, 12-17=-1064/8388, 12-18=-1064/8388, 11-18=-1064/8388, 11-19=-804/6624, 10-19=-804/6624,
 10-20=-816/6669, 9-20=-816/6669, 8-9=-1106/8641, 8-21=-1106/8641, 7-21=-1106/8641
 WEBS 2-12=-154/1251, 2-11=-1224/217, 3-11=-448/3408, 3-10=-2077/336, 4-10=-966/6979, 5-10=-2231/356, 5-9=-484/3686,
 6-9=-1529/256, 6-8=-194/1567

NOTES

- 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-10 2x4 - 1 row at 0-5-0 oc.
 Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 804 lb uplift at joint 1 and 953 lb uplift at joint 7.
- 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.
- Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 16-0-12 to connect truss (es) T1B (1 ply 2x4 SP) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-4=-60, 4-7=-60, 1-7=-20
 Concentrated Loads (lb)
 Vert: 10=-1502 (F), 9=-1502 (F), 16=-1506 (F), 17=-1502 (F), 18=-1502 (F), 19=-1502 (F), 20=-1502 (F), 21=-1502 (F)

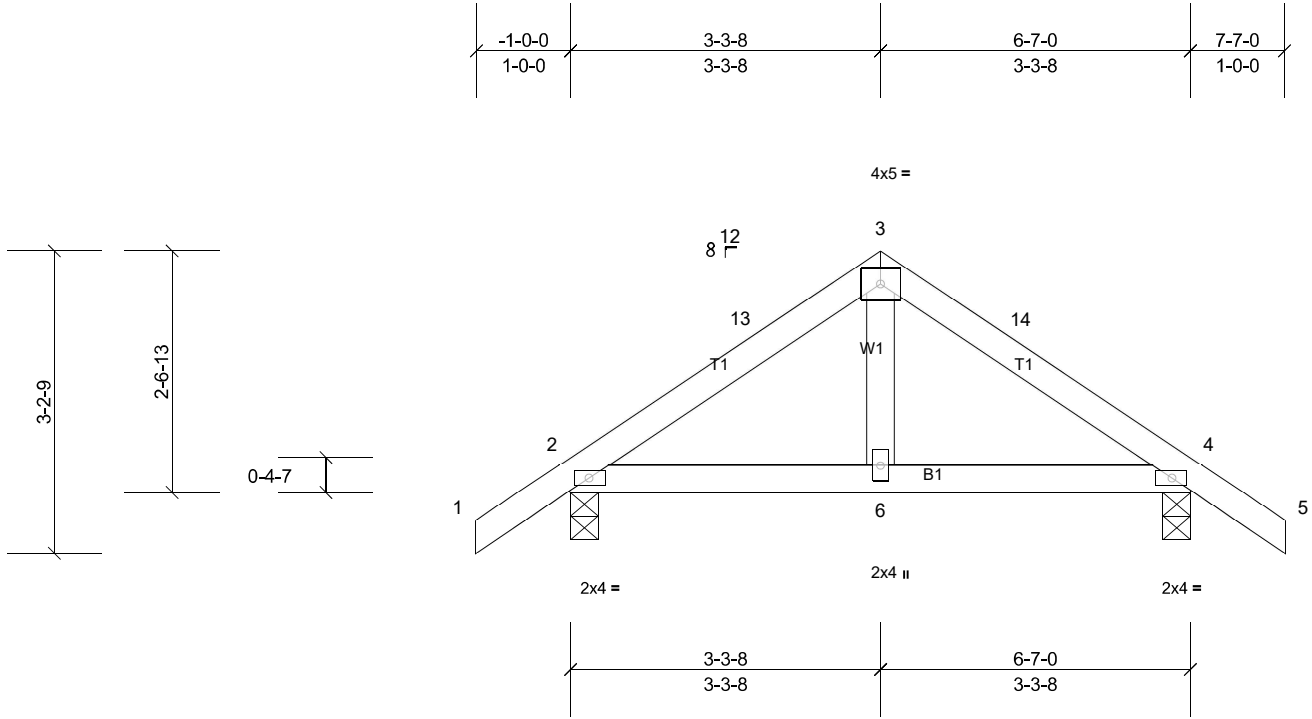
| | | | | | |
|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss T4 | Truss Type Common | Qty 5 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:24.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | 0.00 | 6-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | -0.01 | 6-12 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 29 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=323/0-3-8, (min. 0-1-8), 4=323/0-3-8, (min. 0-1-8)
 Max Horiz 2=-51 (LC 9)
 Max Uplift 2=-67 (LC 11), 4=-67 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-13=-289/34, 4-14=-289/34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 3-3-8, Exterior (2) 3-3-8 to 6-2-2, Interior (1) 6-2-2 to 7-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 2 and 67 lb uplift at joint 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.

LOAD CASE(S) Standard

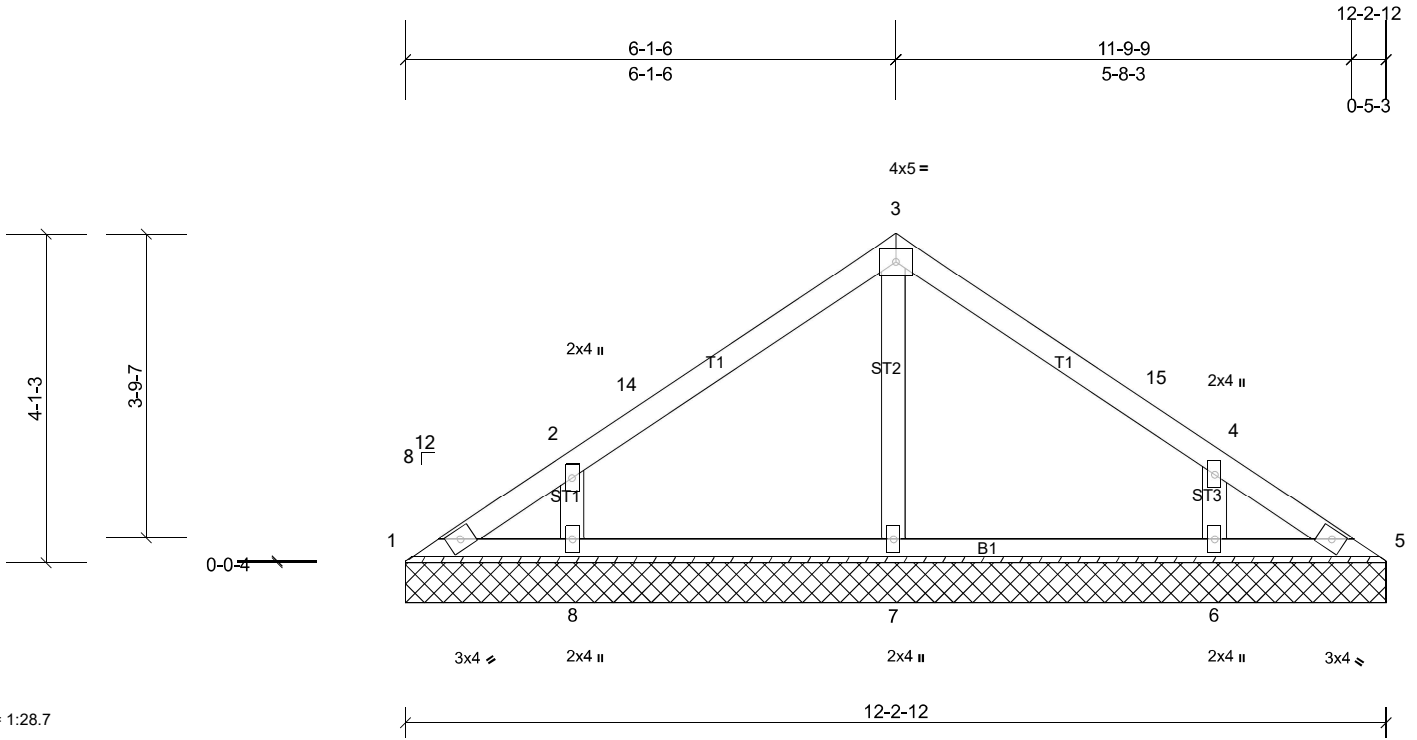
| | | | | | |
|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V1 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:28.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.09 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 46 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 12-2-12.

(lb) - Max Horiz 1=70 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 8, 13
 Max Grav All reactions 250 (lb) or less at joint(s) 1 except 6=312 (LC 21),
 7=376 (LC 1), 8=299 (LC 20)

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

WEBS 3-7=-294/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 6-1-12, Exterior (2) 6-1-12 to 9-1-12, Interior (1) 9-1-12 to 12-3-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6, 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.

LOAD CASE(S) Standard

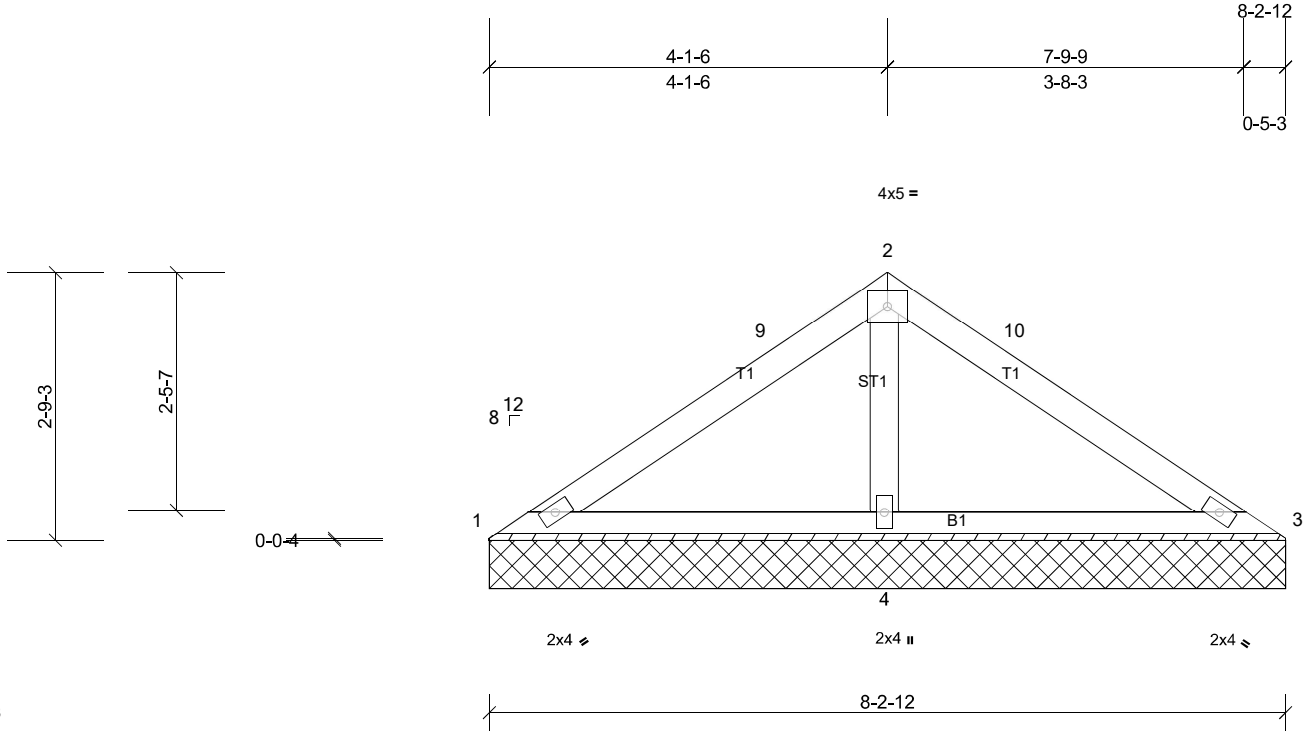
| | | | | | |
|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V2 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:23.8

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.09 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 29 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 8-2-12 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=36/8-2-12, (min. 0-1-8), 3=41/8-2-12, (min. 0-1-8),
 4=581/8-2-12, (min. 0-1-8)
 Max Horiz 1=-46 (LC 9)
 Max Uplift 1=-14 (LC 21), 3=-11 (LC 20), 4=-98 (LC 11)
 Max Grav 1=68 (LC 20), 3=72 (LC 21), 4=581 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-9=-42/258, 2-10=-40/252
 WEBS 2-4=-419/105

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-1-12, Exterior (2) 4-1-12 to 7-3-15, Interior (1) 7-3-15 to 8-3-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 11 lb uplift at joint 3 and 98 lb uplift at joint 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.

LOAD CASE(S) Standard

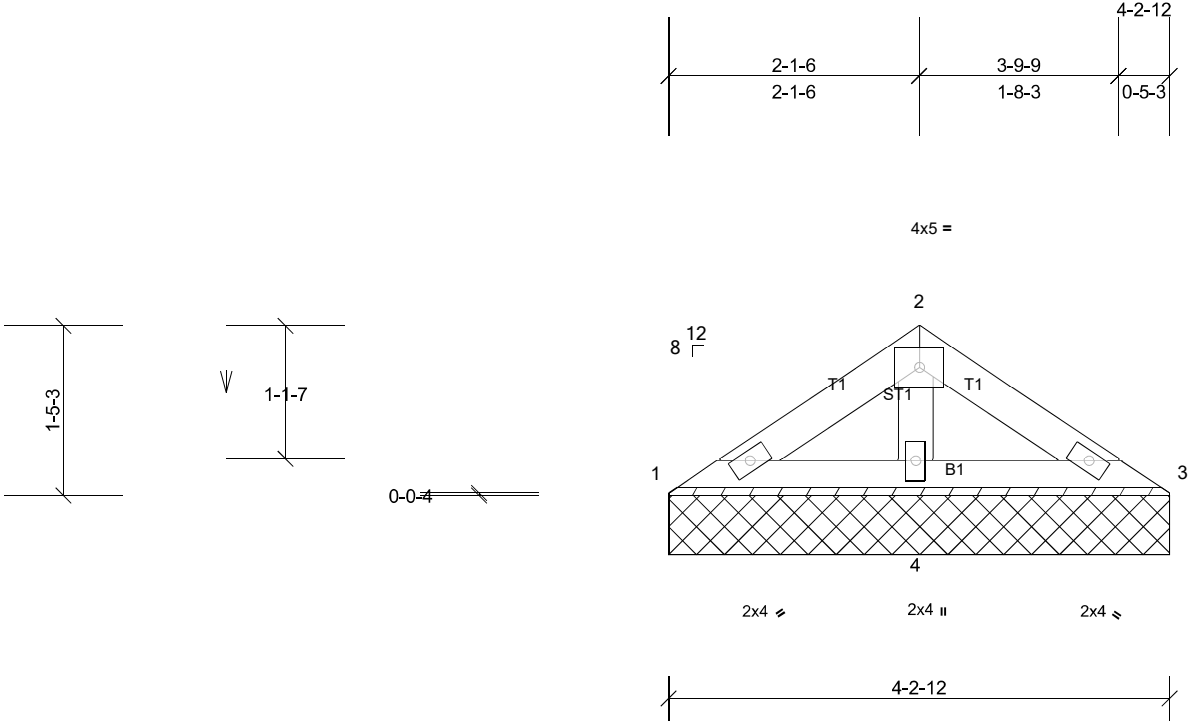
| | | | | | |
|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V3 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Aug 31 16:19:46

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Scale = 1:19.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.03 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 13 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 4-2-12 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=49/4-2-12, (min. 0-1-8), 3=52/4-2-12, (min. 0-1-8),
 4=238/4-2-12, (min. 0-1-8)
 Max Horiz 1=-22 (LC 9)
 Max Uplift 1=-6 (LC 11), 3=-6 (LC 11), 4=-30 (LC 11)
 Max Grav 1=57 (LC 20), 3=60 (LC 21), 4=238 (LC 1)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1, 6 lb uplift at joint 3 and 30 lb uplift at joint 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.

LOAD CASE(S) Standard

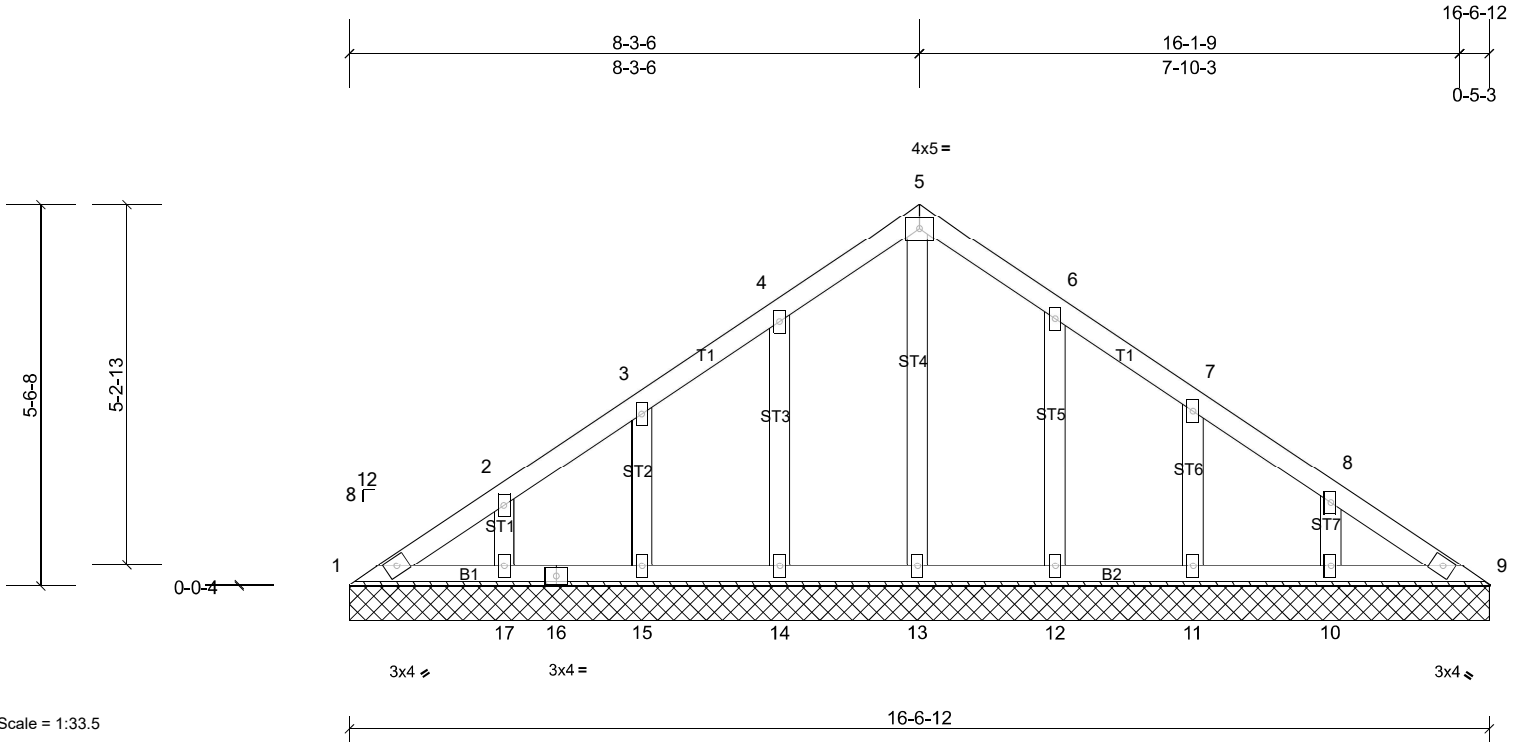
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|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V4 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:33.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 81 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings 16-6-12.
(lb) - Max Horiz 1=-96 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 12, 14, 15, 17
Max Grav All reactions 250 (lb) or less at joint(s) 1, 9, 10, 11, 12, 13, 14, 15, 17

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-6 to 3-0-6, Exterior (2) 3-0-6 to 8-3-12, Corner (3) 8-3-12 to 11-3-12, Exterior (2) 11-3-12 to 16-7-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 17, 12, 11, 10.
- 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.

LOAD CASE(S) Standard

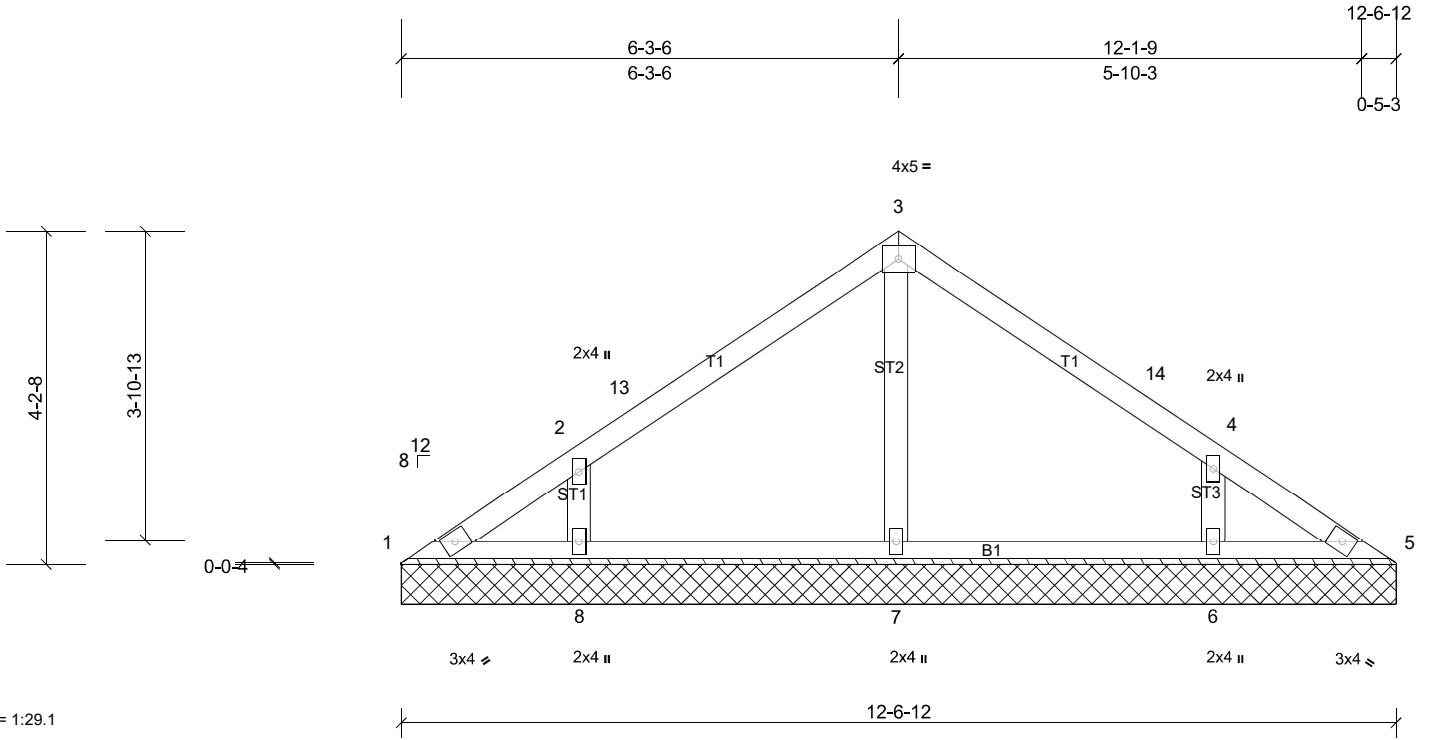
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|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V5 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:29.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 48 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 12-6-12.

(lb) - Max Horiz 1=-72 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 6, 8
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=309 (LC 21), 7=266 (LC 1), 8=310 (LC 20)

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 6-3-12, Exterior (2) 6-3-12 to 9-3-12, Interior (1) 9-3-12 to 12-7-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 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.

LOAD CASE(S) Standard

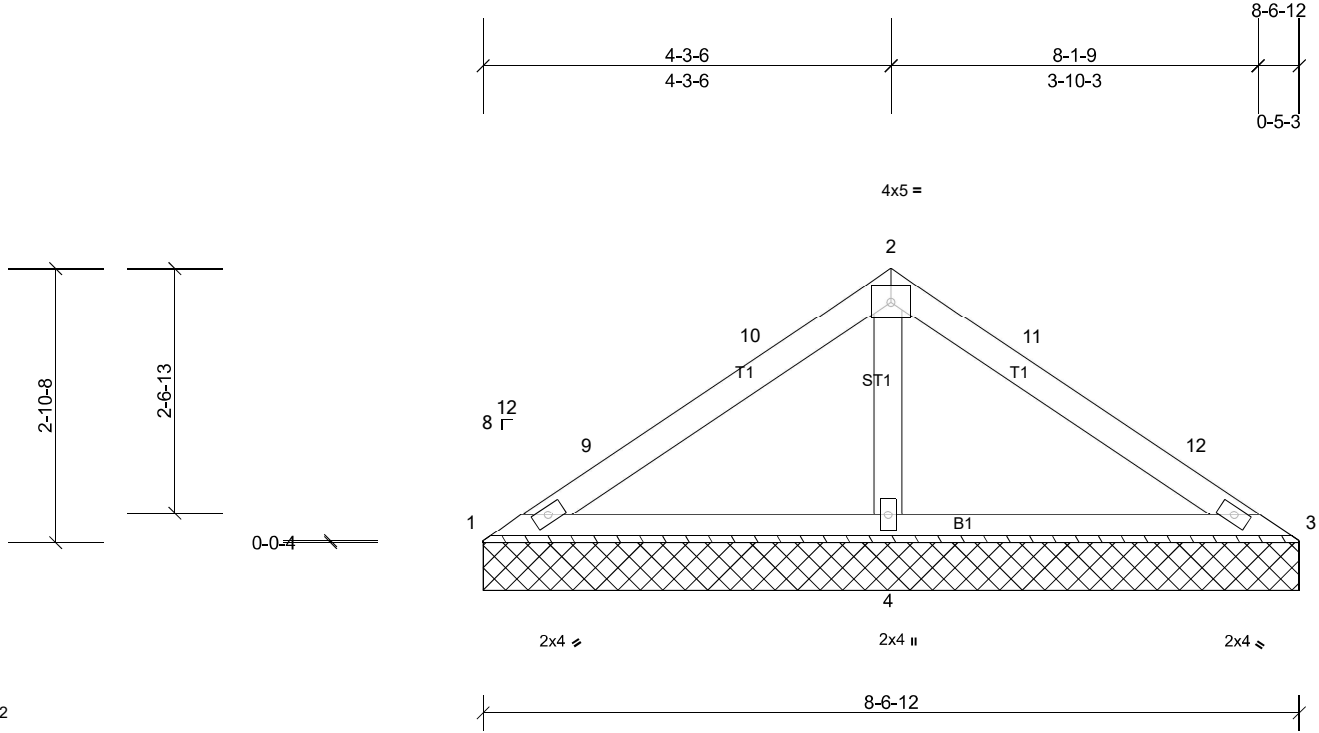
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|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V6 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:24.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.10 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 30 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 8-6-12 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=33/8-6-12, (min. 0-1-8), 3=37/8-6-12, (min. 0-1-8),
 4=615/8-6-12, (min. 0-1-8)
 Max Horiz 1=-48 (LC 9)
 Max Uplift 1=-18 (LC 21), 3=-15 (LC 20), 4=-105 (LC 11)
 Max Grav 1=67 (LC 20), 3=71 (LC 21), 4=615 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-10=-46/279, 2-11=-45/272
 WEBS 2-4=-448/114

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-3-12, Exterior (2) 4-3-12 to 7-3-12, Interior (1) 7-3-12 to 8-7-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 15 lb uplift at joint 3 and 105 lb uplift at joint 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.

LOAD CASE(S) Standard

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

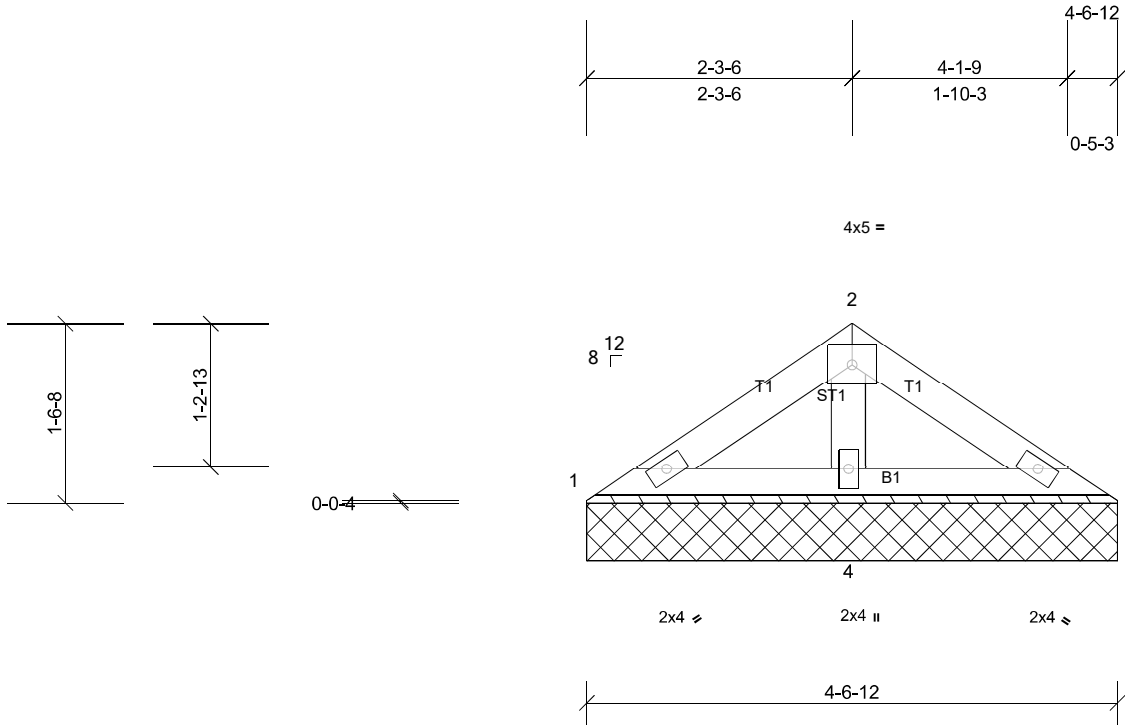
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|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V7 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:19.8

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.03 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 4-6-12 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=50/4-6-12, (min. 0-1-8), 3=53/4-6-12, (min. 0-1-8),
 4=262/4-6-12, (min. 0-1-8)
 Max Horiz 1=-24 (LC 9)
 Max Uplift 1=-6 (LC 11), 3=-6 (LC 11), 4=-33 (LC 11)
 Max Grav 1=60 (LC 20), 3=63 (LC 21), 4=262 (LC 1)

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1, 6 lb uplift at joint 3 and 33 lb uplift at joint 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.

LOAD CASE(S) Standard

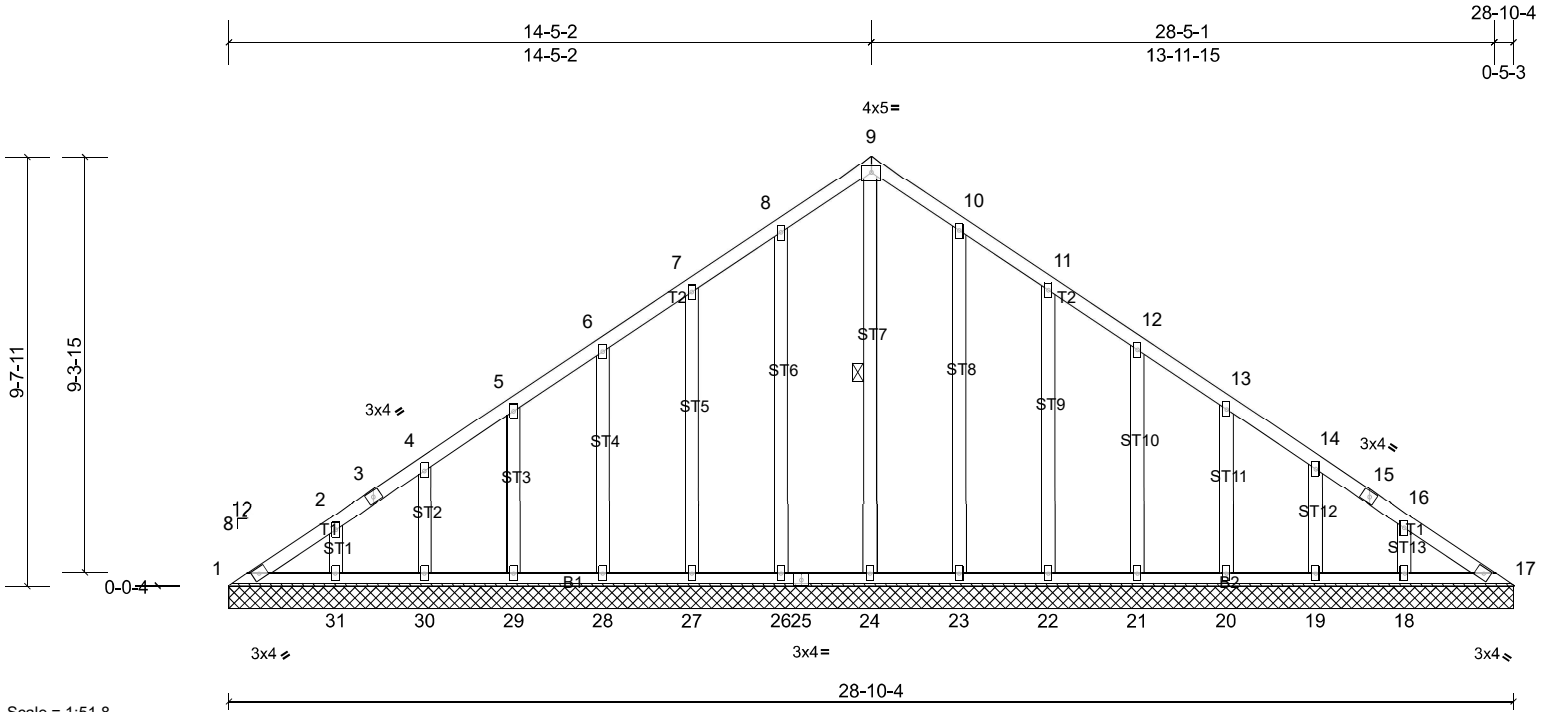
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|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V8 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:51.8

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.16 | Horiz(TL) | 0.01 | 17 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | Weight: 186 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 9-24

REACTIONS All bearings 28-10-4.

(lb) - Max Horiz 1=-170 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 18, 19, 20, 21, 22, 23, 26, 27, 28, 29, 30, 31
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=29ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-6 to 3-0-6, Exterior (2) 3-0-6 to 14-5-8, Corner (3) 14-5-8 to 17-5-8, Exterior (2) 17-5-8 to 28-10-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 26, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18.
- 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.

LOAD CASE(S) Standard

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

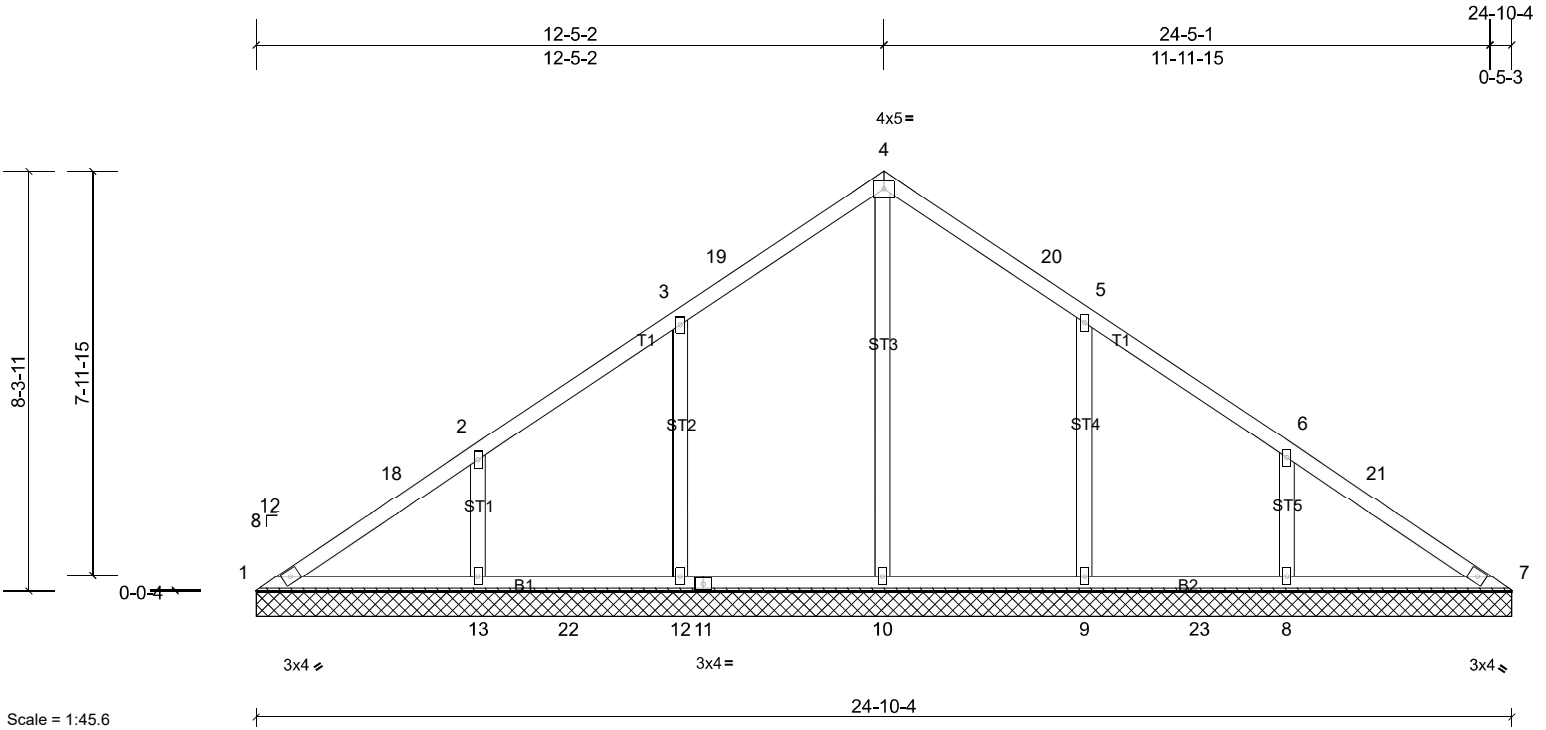
| | | | | | |
|--------------------|-------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V9 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|-------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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ID:xB_cnPoA?Pxs93FQxPJf0yilXL-BANg84Pf12qNOWYy_bEGfkQgcmRO5s4QvkR_WfyiHyO



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.35 | Horiz(TL) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | Weight: 114 lb FT = 20% |

LUMBER
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 24-10-4.
 (lb) - Max Horiz 1=-146 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) except 8=-107 (LC 11), 9=-104 (LC 11), 12=-106 (LC 11), 13=-105 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=390 (LC 17), 9=434 (LC 17), 10=467 (LC 16), 12=437 (LC 16), 13=387 (LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=-283/0, 3-12=-255/156, 2-13=-258/144, 5-9=-252/154, 6-8=-261/145

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 12-5-8, Exterior (2) 12-5-8 to 15-5-8, Interior (1) 15-5-8 to 24-10-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 12, 105 lb uplift at joint 13, 104 lb uplift at joint 9 and 107 lb uplift at joint 8.
 - 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.

LOAD CASE(S) Standard

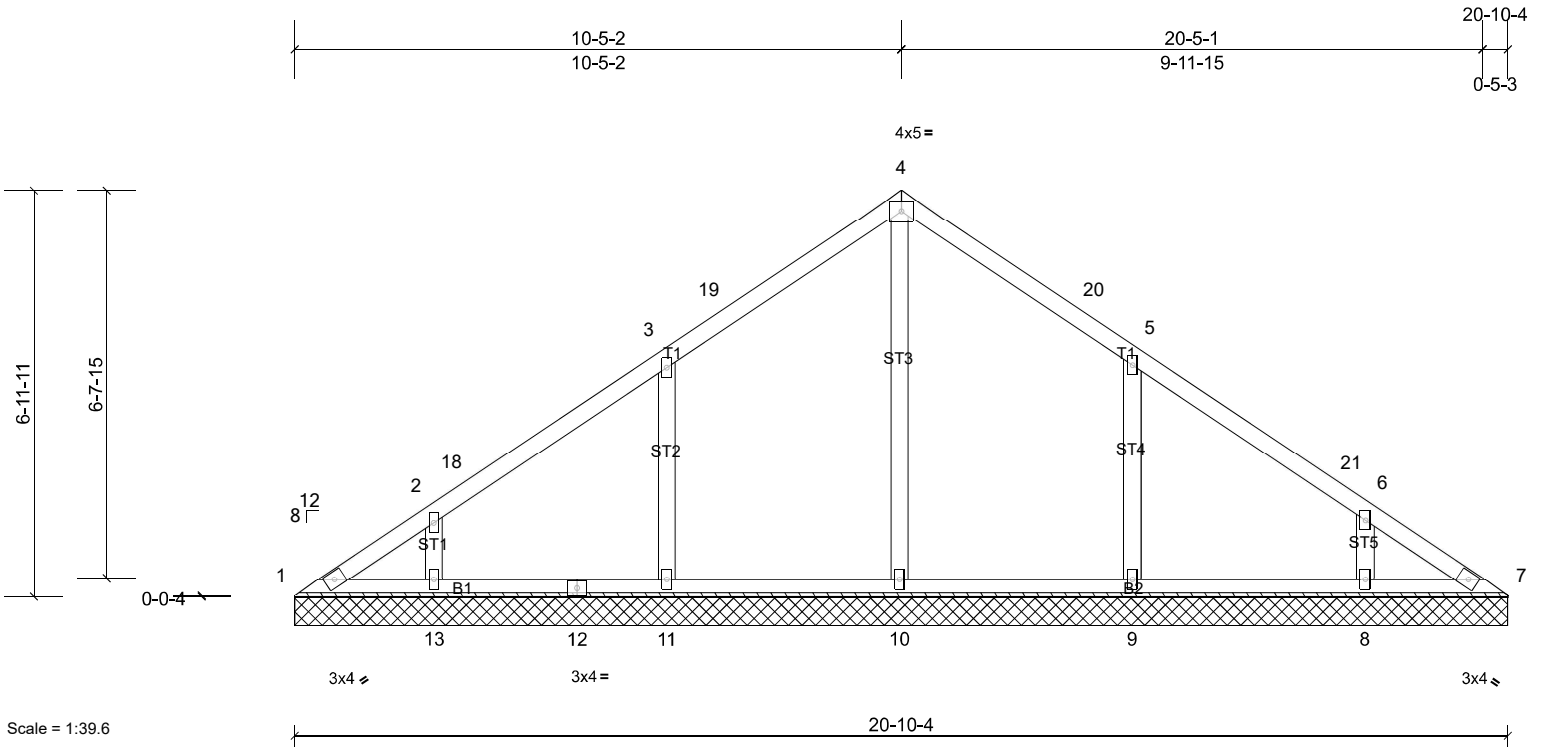
| | | | | | |
|--------------------|--------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V10 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|--------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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Scale = 1:39.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.15 | Horiz(TL) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 91 lb | FT = 20% |

LUMBER
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 20-10-4.
 (lb) - Max Horiz 1=-122 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 13 except 9=-111 (LC 11), 11=-113 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=288 (LC 1), 9=403 (LC 17), 10=385 (LC 16), 11=406 (LC 16), 13=285 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-268/162, 5-9=-266/160

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=21ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 10-5-8, Exterior (2) 10-5-8 to 13-5-8, Interior (1) 13-5-8 to 20-10-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 8 except (jt=lb) 11=113, 9=111.
 - 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.

LOAD CASE(S) Standard

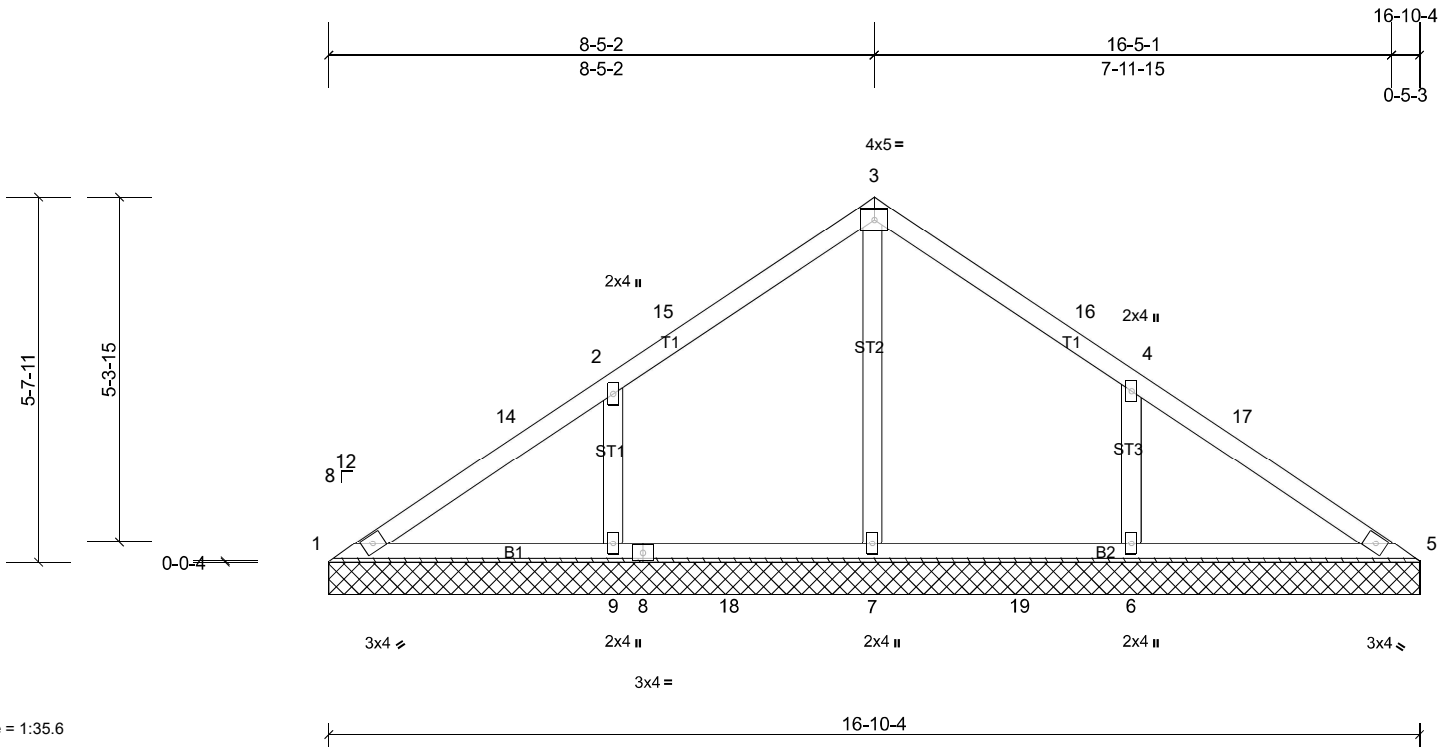
| | | | | | |
|--------------------|--------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V11 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|--------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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ID: _psrMjmwTocDwm52q_HBDbyilXN-fNx2LQQHoMyE?g79YJIVByrzAotqM3a8OBX25yiHyN



Scale = 1:35.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.17 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 68 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 10-0-0 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 16-10-4.

(lb) - Max Horiz 1=98 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) except 6=120 (LC 11),
 9=120 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=410 (LC
 17), 7=449 (LC 16), 9=409 (LC 16)

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

WEBS 3-7=-309/1, 2-9=-284/157, 4-6=-283/156

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 8-5-8, Exterior (2) 8-5-8 to 11-5-8, Interior (1) 11-5-8 to 16-10-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 9 and 119 lb uplift at joint 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.

LOAD CASE(S) Standard

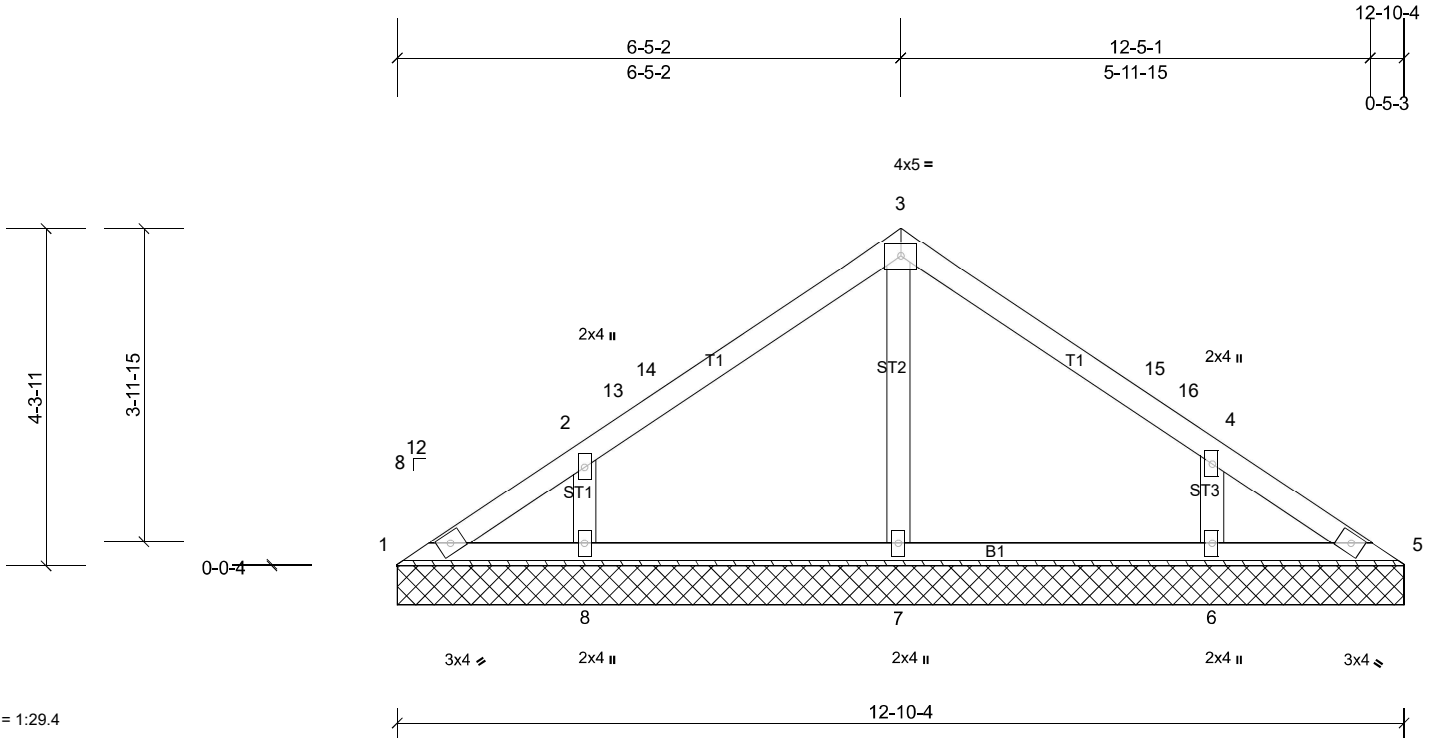
| | | | | | |
|--------------------|--------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V12 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|--------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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ID: _psrMjmwTocDwm52q_HBDbyilXN-7ZVQZmRvZg45dqIL50Hkk9V0WZ8?Zr?JM2w4aXyihYm



Scale = 1:29.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 49 lb | FT = 20% |

LUMBER
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 12-10-4.
 (lb) - Max Horiz 1=-74 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 6, 8
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=312 (LC 21), 7=271 (LC 1), 8=314 (LC 20)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 6-5-8, Exterior (2) 6-5-8 to 9-5-8, Interior (1) 9-5-8 to 12-10-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 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.

LOAD CASE(S) Standard

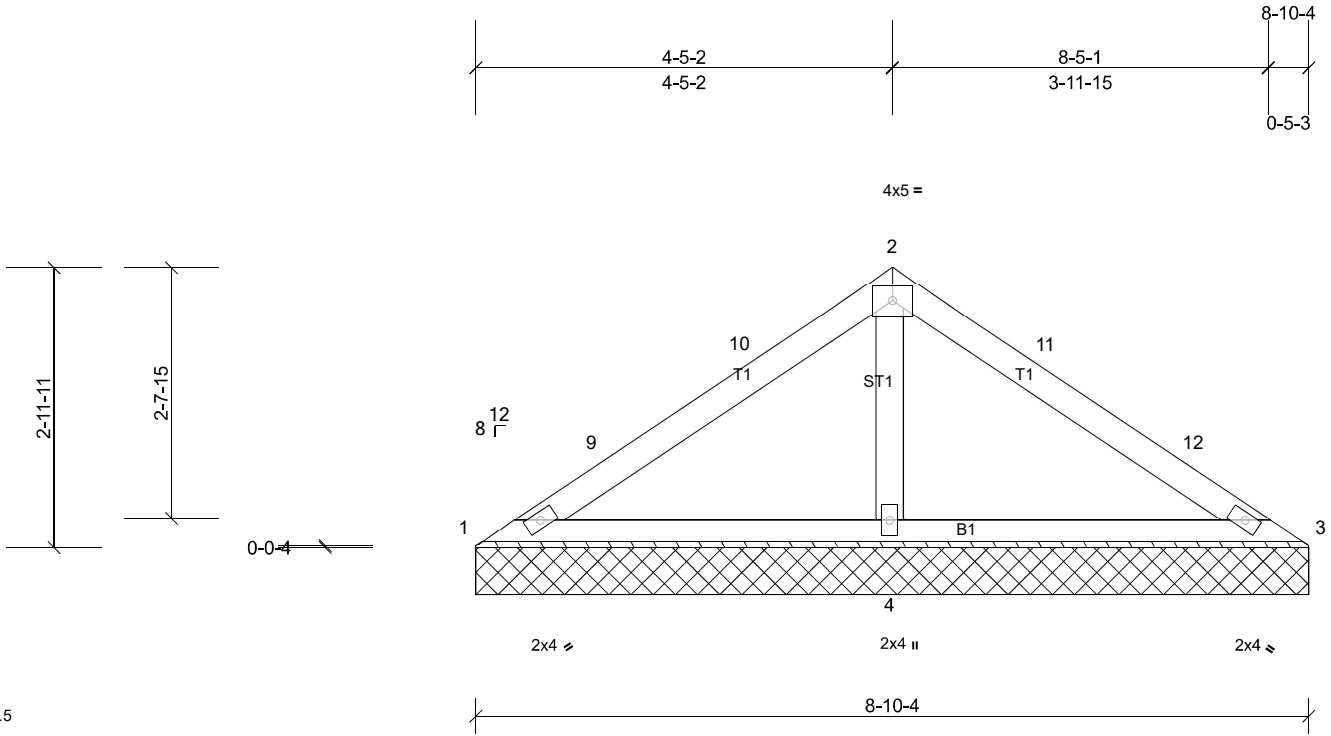
| | | | | | |
|--------------------|--------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V13 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|--------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

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ID: _psrMjmwTocDwm52q_HBDbyilXN-7ZVQZmRvZg45dqL50Hkk9V0oZ6GZqljM2w4aXyihyM



Scale = 1:24.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.11 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 31 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 8-10-4 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=29/8-10-4, (min. 0-1-8), 3=34/8-10-4, (min. 0-1-8),
 4=646/8-10-4, (min. 0-1-8)
 Max Horiz 1=-50 (LC 9)
 Max Uplift 1=-22 (LC 21), 3=-19 (LC 20), 4=-112 (LC 11)
 Max Grav 1=66 (LC 20), 3=70 (LC 21), 4=646 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 9-10=-52/255, 2-10=-52/297, 2-11=-50/291
 WEBS 2-4=-474/123

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-5-8, Exterior (2) 4-5-8 to 7-5-8, Interior (1) 7-5-8 to 8-10-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 19 lb uplift at joint 3 and 112 lb uplift at joint 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.

LOAD CASE(S) Standard

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

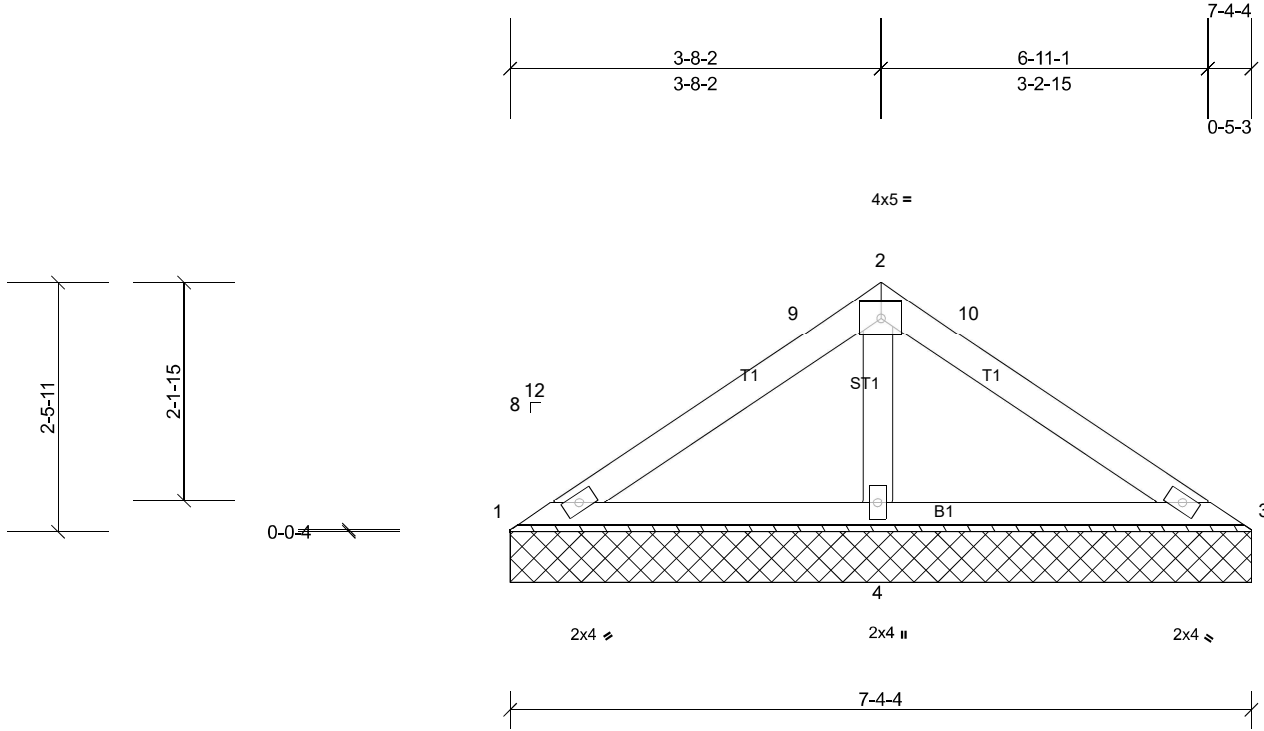
| | | | | | |
|--------------------|--------------|----------------------|----------|----------|---|
| Job Q-2201750-1 | Truss V14 | Truss Type Valley | Qty 1 | Ply 1 | Castro House-Castro House Job Reference (optional) |
|--------------------|--------------|----------------------|----------|----------|---|

Peak Truss Builders LLC, New Hill, user

Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Wed Aug 31 16:19:52

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ID:T?QDZ3nYE5k4XwgENhoQmoyilXM-bl3pm6SXKzCyF_HXfkozHN2CazTIH4sbige6_yiHyL



Scale = 1:22.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.12 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.07 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 25 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 7-4-4 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=44/7-4-4, (min. 0-1-8), 3=49/7-4-4, (min. 0-1-8), 4=495/7-4-4, (min. 0-1-8)

Max Horiz 1=-41 (LC 9)
 Max Uplift 1=-3 (LC 21), 3=-1 (LC 20), 4=-79 (LC 11)
 Max Grav 1=70 (LC 20), 3=73 (LC 21), 4=495 (LC 1)

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

WEBS 2-4=-346/85

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 3-8-8, Exterior (2) 3-8-8 to 6-5-7, Interior (1) 6-5-7 to 7-4-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1, 1 lb uplift at joint 3 and 79 lb uplift at joint 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.

LOAD CASE(S) Standard