

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Ash_FL
Lamco Custom Homes

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: E12977411 thru E12977425

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



April 30,2019

Gilbert, Eric

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

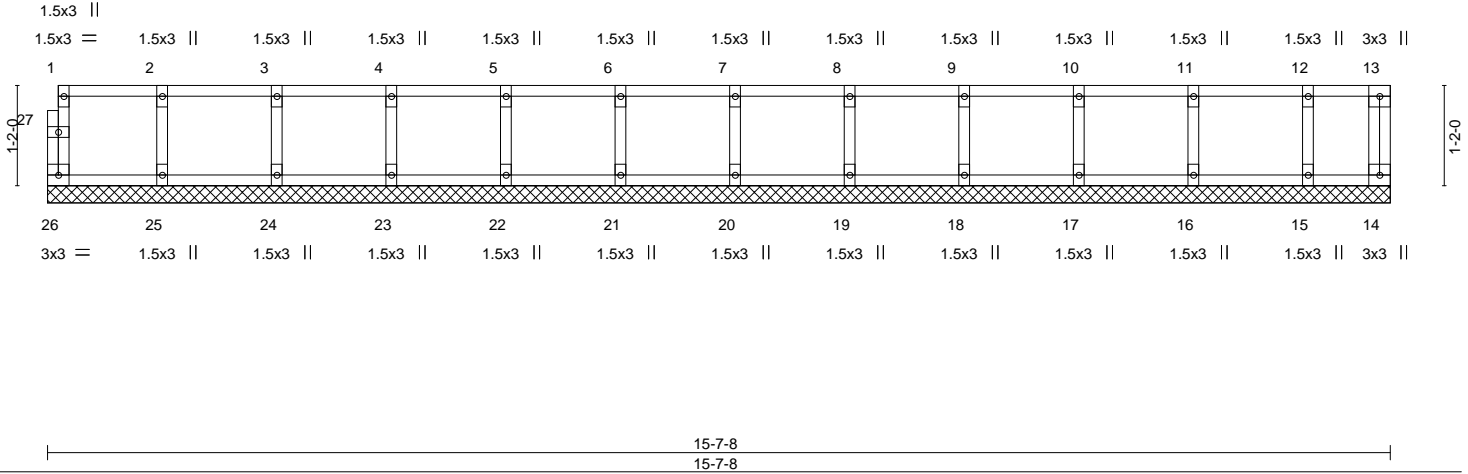
| | | | | | | |
|--------|-------|-----------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977411 |
| Ash_FL | F1 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:14 2019 Page 1
ID:GgN1wbXHPg6COW?w_rAWmsz1jWL-8F9ieSlqkbaFo7m1nRB7IjDbfI_Ork9P5XbzLqKZ

0-1-B

Scale = 1:26.8



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|--------------------------|---------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.01 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-R | Horz(CT) 0.00 14 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 66 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 26=53/15-7-8, 14=40/15-7-8, 25=147/15-7-8, 24=147/15-7-8, 23=147/15-7-8, 22=147/15-7-8, 21=147/15-7-8, 20=147/15-7-8, 19=147/15-7-8, 18=147/15-7-8, 17=145/15-7-8, 16=152/15-7-8, 15=120/15-7-8

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 26-27=-49/0, 1-27=-49/0, 13-14=-34/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-12=-7/0, 12-13=-7/0
BOT CHORD 25-26=0/7, 24-25=0/7, 23-24=0/7, 22-23=0/7, 21-22=0/7, 20-21=0/7, 19-20=0/7, 18-19=0/7, 17-18=0/7, 16-17=0/7, 15-16=0/7, 14-15=0/7
WEBS 2-25=-132/0, 3-24=-134/0, 4-23=-133/0, 5-22=-133/0, 6-21=-133/0, 7-20=-133/0, 8-19=-133/0, 9-18=-134/0, 10-17=-132/0, 11-16=-138/0, 12-15=-112/0

NOTES-

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

LOAD CASE(S) Standard



April 30, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

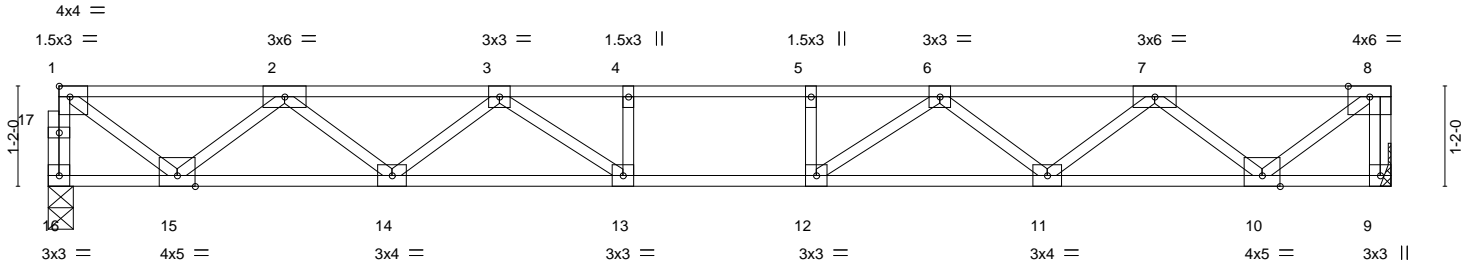
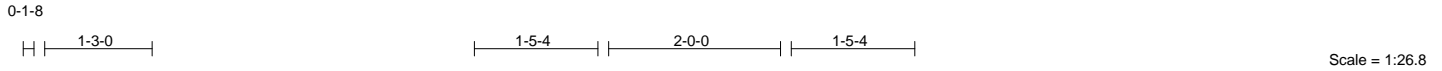


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| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977412 |
| Ash_FL | F2 | Floor | 8 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:15 2019 Page 1
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| | | | | | | | |
|-------|-------|-------|---------------|---------------|--------|--------|--------|
| 1-6-0 | 4-0-0 | 6-8-4 | 6-9-12 7-9-12 | 8-9-12 8-11-4 | 11-7-8 | 14-1-8 | 15-7-8 |
| 1-6-0 | 2-6-0 | 2-8-4 | 0-1-8 1-0-0 | 1-0-0 0-1-8 | 2-8-4 | 2-6-0 | 1-6-0 |

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

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------------|--------|-----|---------------|-----------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.62 | Vert(LL) | -0.20 11-12 | >944 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.93 | Vert(CT) | -0.26 11-12 | >698 | 360 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.58 | Horz(CT) | 0.05 9 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 78 lb | FT = 20%F, 11%E |

| | |
|-----------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2(flat) | BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |

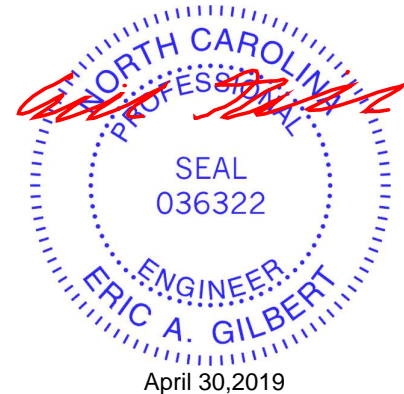
REACTIONS. (lb/size) 16=839/0-3-8, 9=846/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension

| | |
|-----------|--|
| TOP CHORD | 16-17=-834/0, 1-17=-833/0, 8-9=-839/0, 1-2=-971/0, 2-3=-2322/0, 3-4=-3077/0, 4-5=-3077/0, 5-6=-3077/0, 6-7=-2323/0, 7-8=-969/0 |
| BOT CHORD | 15-16=0/50, 14-15=0/1824, 13-14=0/2786, 12-13=0/3077, 11-12=0/2786, 10-11=0/1826, 9-10=0/0 |
| WEBS | 4-13=-259/0, 5-12=-259/0, 1-15=0/1175, 2-15=-1111/0, 2-14=0/648, 3-14=-605/0, 3-13=0/620, 8-10=0/1215, 7-10=-1116/0, 7-11=0/646, 6-11=-603/0, 6-12=0/620 |

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



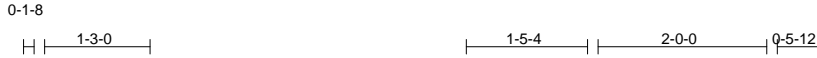
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
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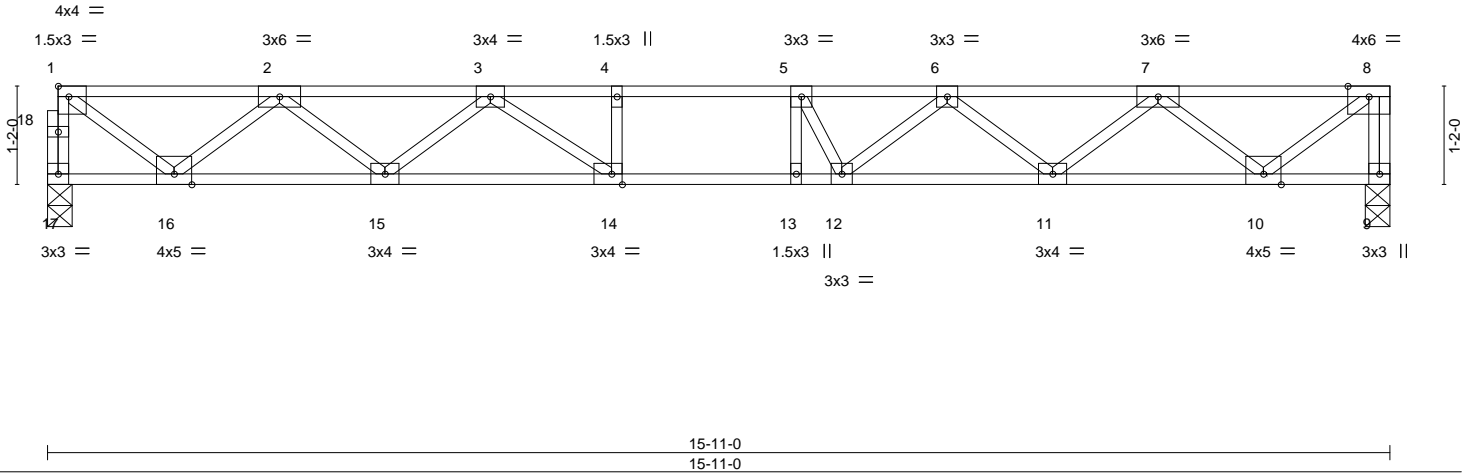
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|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977413 |
| Ash_FL | F3 | Floor | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:15 2019 Page 1
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Scale = 1:27.3



| | | | | | | | | | |
|---|----------------------|-------|-------------|--------------|----------|--------|------|---------------|-----------------|
| Plate Offsets (X,Y)-- [1:Edge,0-1-8], [14:0-1-8,Edge] | | | | | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.57 | Vert(LL) | -0.20 | 13 | >952 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.87 | Vert(CT) | -0.27 | 13-14 | >694 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.59 | Horz(CT) | 0.05 | 9 | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 80 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 17=855/0-3-8, 9=862/0-3-8

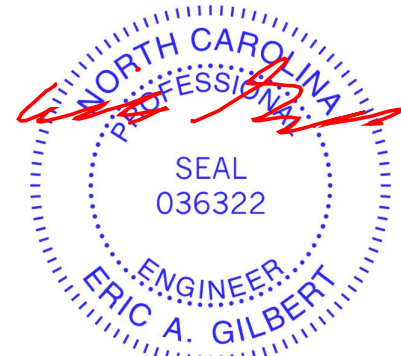
FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 17-18=-850/0, 1-18=-849/0, 8-9=-855/0, 1-2=-992/0, 2-3=-2378/0, 3-4=-3194/0, 4-5=-3194/0, 5-6=-3111/0, 6-7=-2383/0, 7-8=-989/0
BOT CHORD 16-17=0/51, 15-16=0/1863, 14-15=0/2866, 13-14=0/3194, 12-13=0/3194, 11-12=0/2870, 10-11=0/1865, 9-10=0/0
WEBS 4-14=-239/0, 5-13=-248/221, 1-16=0/1202, 2-16=-1134/0, 2-15=0/670, 3-15=-635/0, 3-14=0/640, 8-10=0/1241, 7-10=-1140/0, 7-11=0/674, 6-11=-634/0, 6-12=0/469, 5-12=-494/165

NOTES-

- Unbalanced floor live loads have been considered for this design.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 30, 2019

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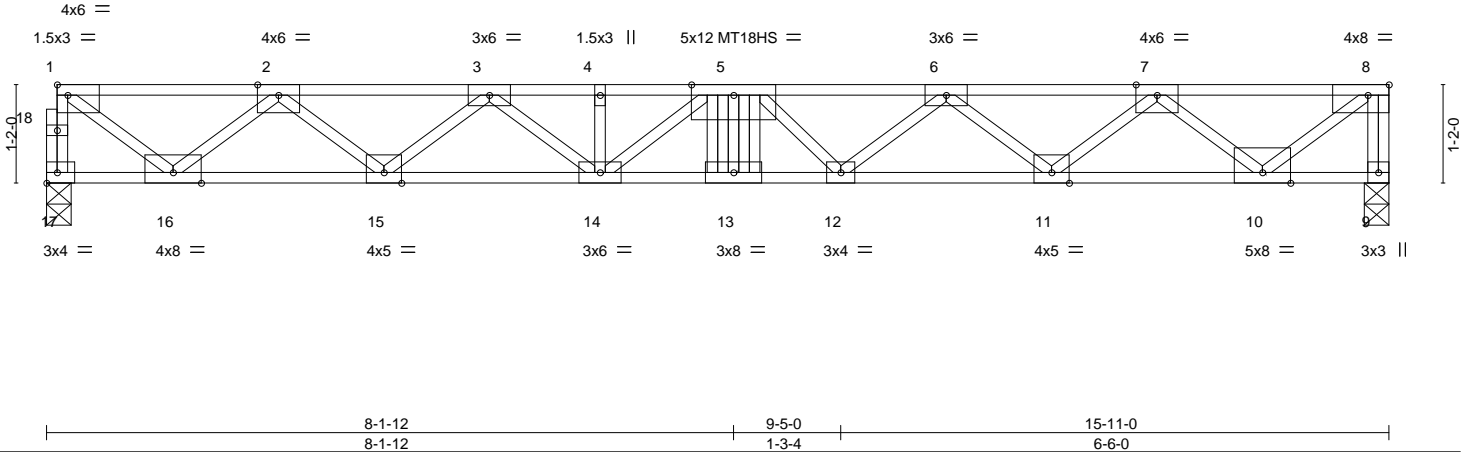
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|--------|-------|--------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977414 |
| Ash_FL | F4 | Floor Girder | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:16 2019 Page 1
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Scale = 1:27.3



| | | | | | | | |
|--|----------------------|-------------|----------------|----------|--------|---------|-------------------------------|
| Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-3-0,Edge] | | 8-1-12 | | 9-5-0 | | 15-11-0 | |
| | | 8-1-12 | | 1-3-4 | | 6-6-0 | |
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES |
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.92 | Vert(LL) -0.27 | 13 | >691 | 480 | MT20 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.65 | Vert(CT) -0.37 | 13 | >502 | 360 | MT18HS 244/190 |
| BCLL 0.0 | Rep Stress Incr NO | WB 0.87 | Horz(CT) 0.06 | 9 | n/a | n/a | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 88 lb FT = 20%F, 11%E |

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 17=1197/0-3-8, 9=1220/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension

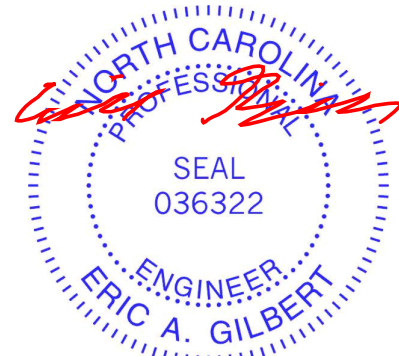
TOP CHORD 17-18=-1191/0, 1-18=-1189/0, 8-9=-1211/0, 1-2=-1440/0, 2-3=-3647/0, 3-4=-5233/0, 4-5=-5233/0, 5-6=-5264/0, 6-7=-3714/0, 7-8=-1457/0
BOT CHORD 16-17=0/71, 15-16=0/2720, 14-15=0/4542, 13-14=0/5876, 12-13=0/5876, 11-12=0/4637, 10-11=0/2759, 9-10=0/0
WEBS 8-10=0/1828, 1-16=0/1747, 7-10=-1694/0, 2-16=-1666/0, 7-11=0/1243, 2-15=0/1207, 6-11=-1202/0, 3-15=-1166/0, 6-12=0/816, 3-14=0/882, 4-14=-99/0, 5-13=0/1, 5-14=-770/0, 5-12=-790/0

NOTES-

- All plates are MT20 plates unless otherwise indicated.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 8-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-17=-10, 1-8=-100
Concentrated Loads (lb)
Vert: 5=-700(F)



April 30, 2019

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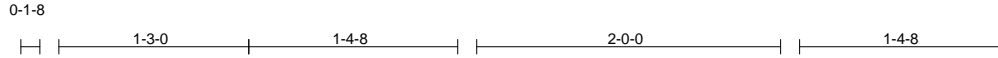


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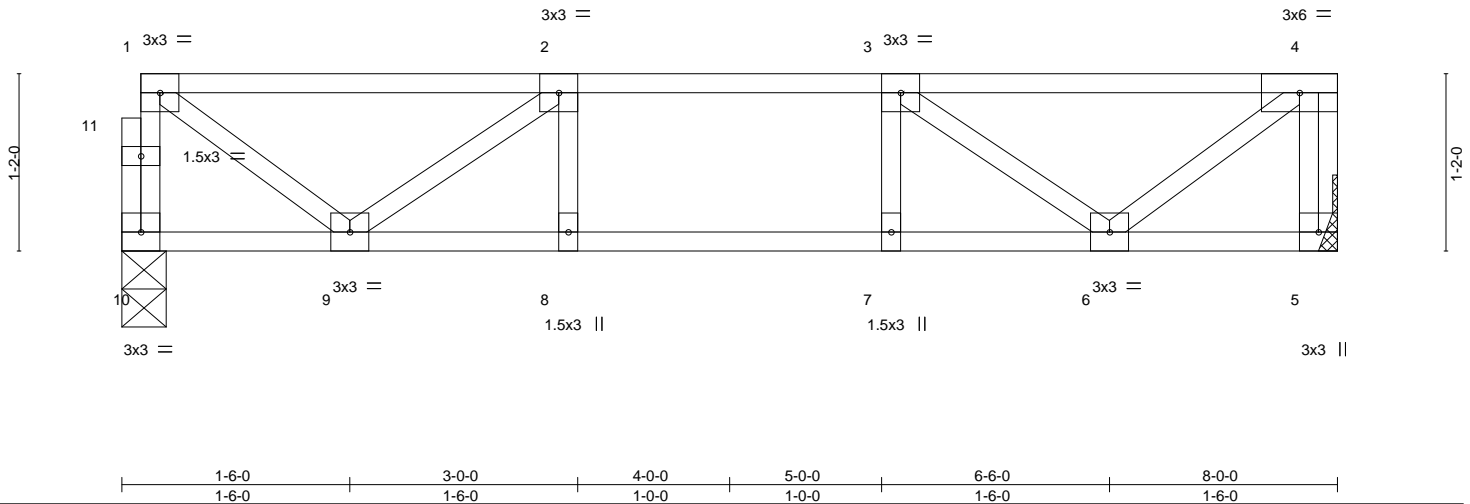
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|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977415 |
| Ash_FL | F5 | Floor | 3 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:17 2019 Page 1
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Scale = 1:15.2



| | | | | | |
|---------------|----------------------|----------|---------------------------|---------------|-----------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 40.0 | 2-0-0 | TC 0.53 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.46 | Vert(LL) -0.05 7 >999 480 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.24 | Vert(CT) -0.05 7 >999 360 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 5 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 41 lb | FT = 20%F, 11%E |

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

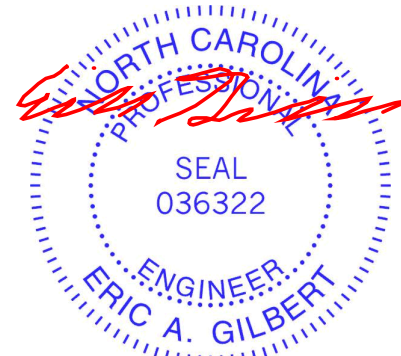
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=420/0-3-8, 5=426/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 10-11=-414/0, 1-11=-414/0, 4-5=-420/0, 1-2=-401/0, 2-3=-793/0, 3-4=-399/0
 BOT CHORD 9-10=0/25, 8-9=0/793, 7-8=0/793, 6-7=0/793, 5-6=0/0
 WEBS 2-8=-61/99, 3-7=-64/97, 1-9=0/480, 2-9=-485/0, 4-6=0/500, 3-6=-487/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 30, 2019

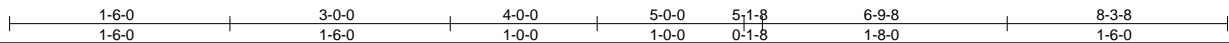
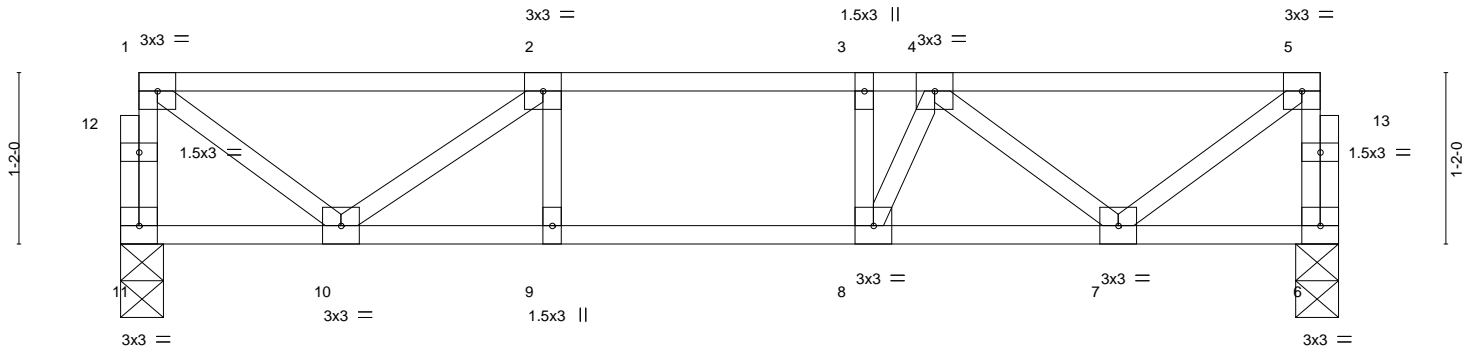
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977416 |
| Ash_FL | F6 | Floor | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:17 2019 Page 1
ID:GgN1wbXHPg6COW?w_rAWmsz1jWL-YqqrGUoi0e6ARiXISAK8plw8vocBVijlQ7dm8wzLqKW



| | | | | | |
|----------------------|----------------------|-------------|-----------------------------|---------------|-----------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 40.0 | 2-0-0 | TC 0.50 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.38 | Vert(LL) -0.04 7-8 >999 480 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.25 | Vert(CT) -0.04 8 >999 360 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 6 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 43 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 11=436/0-3-8, 6=436/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 11-12=-432/0, 1-12=-431/0, 6-13=-429/0, 5-13=-428/0, 1-2=-427/0, 2-3=-833/0, 3-4=-833/0, 4-5=-435/0
BOT CHORD 10-11=0/26, 9-10=0/833, 8-9=0/833, 7-8=0/815, 6-7=0/26
WEBS 2-9=-41/71, 3-8=-200/57, 1-10=0/512, 2-10=-502/0, 5-7=0/523, 4-7=-494/0, 4-8=-94/300

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



April 30, 2019

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| | | | | | | |
|--------|-------|-----------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977417 |
| Ash_FL | F7 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | |

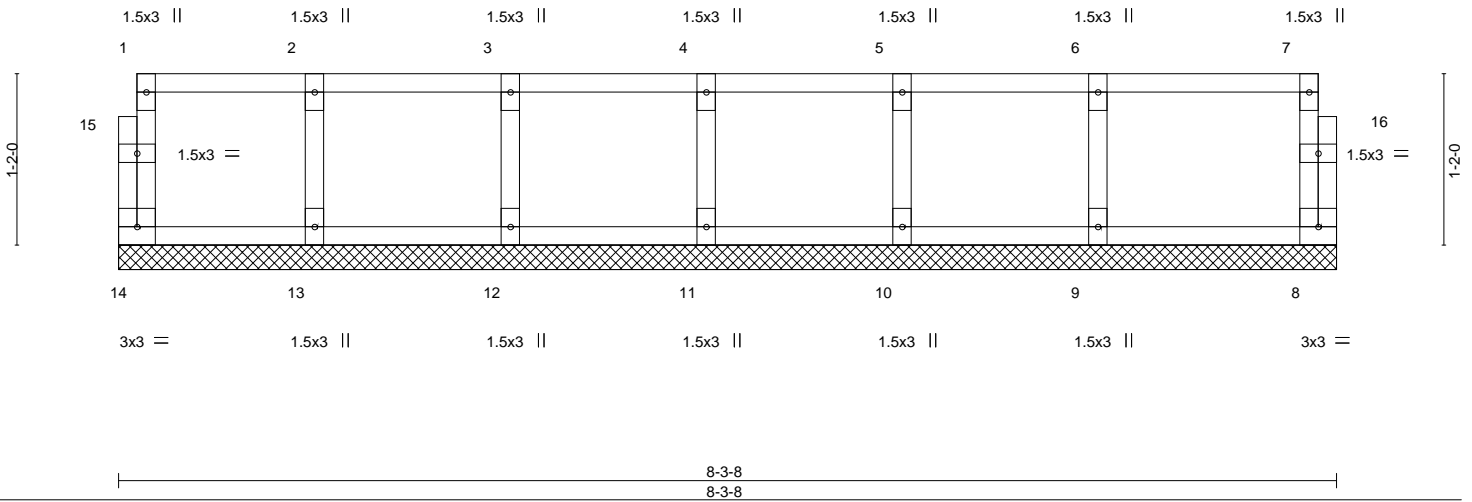
Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:18 2019 Page 1
ID:GgN1wbXHPg6COW?w_rAWmsz1jWl-10ODTqoKnxE13s6u?trNMYPtC12EoLRfnNJgMzLqKV

0-1-8

0-1-8

Scale = 1:15.7



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.10 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.02 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-R | Horz(CT) 0.00 8 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 36 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 14=61/8-3-8, 8=73/8-3-8, 13=137/8-3-8, 12=149/8-3-8, 11=147/8-3-8, 10=142/8-3-8, 9=163/8-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 14-15=-54/0, 1-15=-53/0, 8-16=-67/0, 7-16=-66/0, 1-2=-14/0, 2-3=-14/0, 3-4=-14/0, 4-5=-14/0, 5-6=-14/0, 6-7=-14/0
 BOT CHORD 13-14=0/14, 12-13=0/14, 11-12=0/14, 10-11=0/14, 9-10=0/14, 8-9=0/14
 WEBS 2-13=-127/0, 3-12=-135/0, 4-11=-134/0, 5-10=-130/0, 6-9=-147/0

NOTES-

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

LOAD CASE(S) Standard



April 30, 2019

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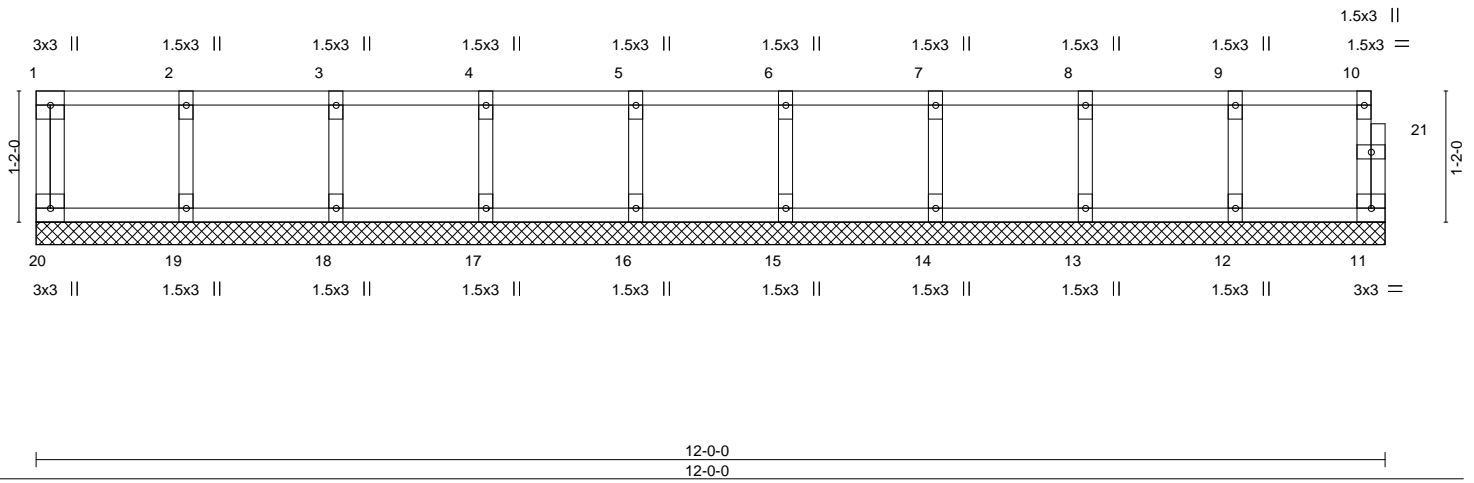
| | | | | | | |
|--------|-------|-----------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977418 |
| Ash_FL | F8 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:18 2019 Page 1
ID:GgN1wbXHPg6COW?w_rAWmsz1jWL-10ODTqoKnxE13s6u?trNMlyTPGC1EEoORfnNJgMzLqKV

0-1-8

Scale = 1:20.5



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|--------------------------|---------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.01 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-R | Horz(CT) 0.00 11 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 52 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 20=63/12-0-0, 11=57/12-0-0, 19=143/12-0-0, 18=148/12-0-0, 17=146/12-0-0, 16=147/12-0-0, 15=147/12-0-0, 14=146/12-0-0, 13=148/12-0-0, 12=142/12-0-0

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-20=-57/0, 11-21=-51/0, 10-21=-51/0, 1-2=-10/0, 2-3=-10/0, 3-4=-10/0, 4-5=-10/0, 5-6=-10/0, 6-7=-10/0, 7-8=-10/0, 8-9=-10/0, 9-10=-10/0
 BOT CHORD 19-20=0/10, 18-19=0/10, 17-18=0/10, 16-17=0/10, 15-16=0/10, 14-15=0/10, 13-14=0/10, 12-13=0/10, 11-12=0/10
 WEBS 2-19=-130/0, 3-18=-134/0, 4-17=-133/0, 5-16=-133/0, 6-15=-133/0, 7-14=-133/0, 8-13=-134/0, 9-12=-130/0

NOTES-

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

LOAD CASE(S) Standard



April 30, 2019

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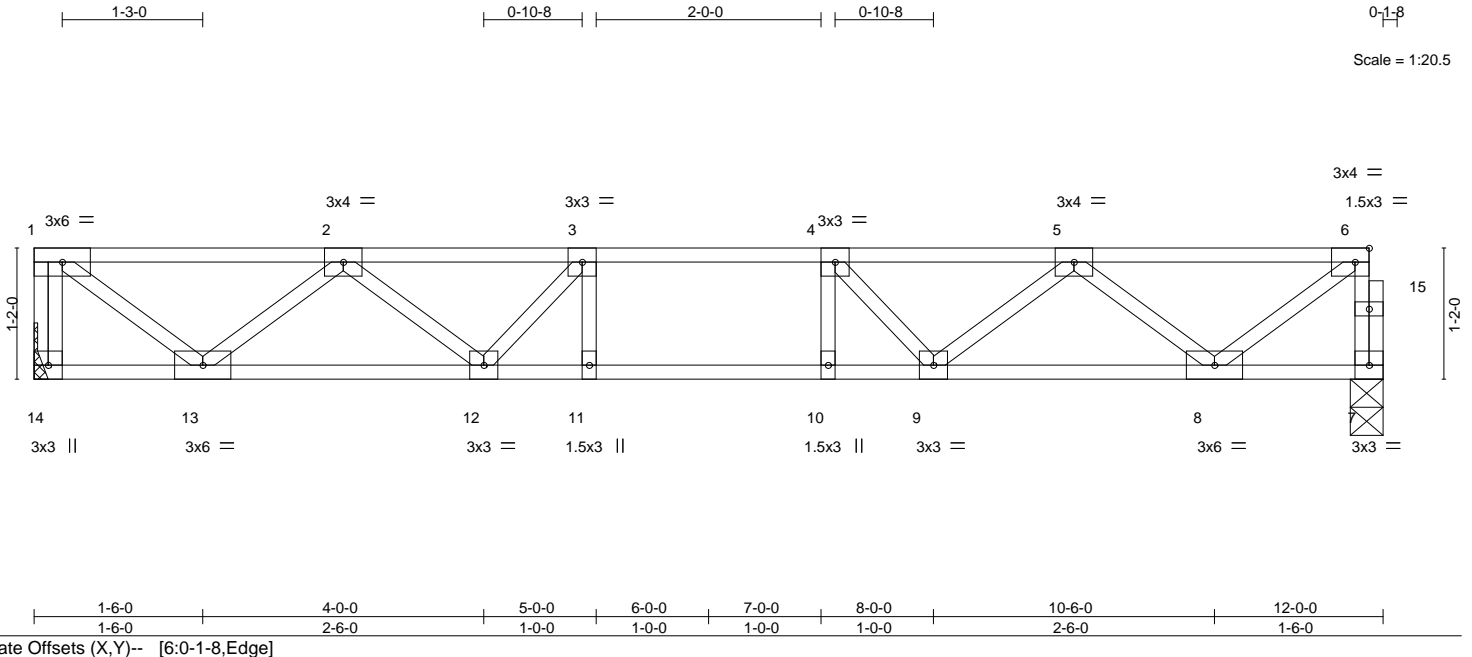


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| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977419 |
| Ash_FL | F9 | Floor | 8 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:19 2019 Page 1
ID:GgN1wbXHPg6COW?w_rAWmsz1jWL-VDybhApyYFMuh0g4ZbMcuA0V7cBTz9YauR6sCozLqKU



Scale = 1:20.5

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|---------------------------|----------|----------------------------|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL 2-0-0 1.00 | TC 0.39 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.71 | Vert(LL) -0.08 10 >999 480 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.42 | Vert(CT) -0.11 10 >999 360 | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | Horz(CT) 0.02 7 n/a n/a | | |
| | | | | Weight: 61 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 14=646/Mechanical, 7=640/0-3-8

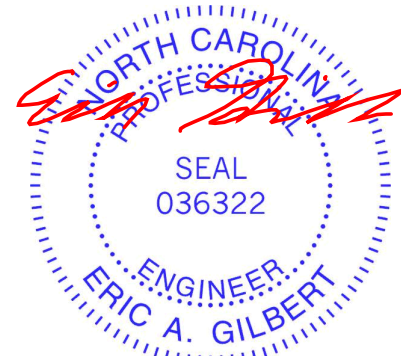
FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-641/0, 7-15=-636/0, 6-15=-635/0, 1-2=-704/0, 2-3=-1595/0, 3-4=-1788/0, 4-5=-1595/0, 5-6=-706/0
BOT CHORD 13-14=0/0, 12-13=0/1318, 11-12=0/1788, 10-11=0/1788, 9-10=0/1788, 8-9=0/1315, 7-8=0/38
WEBS 3-11=-104/132, 4-10=-105/131, 1-13=0/883, 2-13=-799/0, 2-12=0/405, 3-12=-420/0, 6-8=0/852, 5-8=-793/0, 5-9=0/406, 4-9=-420/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 30, 2019

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| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977420 |
| Ash_FL | F10 | Floor | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:19 2019 Page 1
ID:GgN1wbXHPg6COW?w_rAWmsz1jWL-VDybhApyYFMuh0g4ZbMcuA0VhcA2z9KauR6sCozLqKU



0-1-8

Scale = 1:21.0

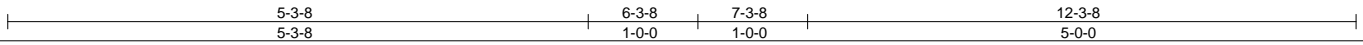
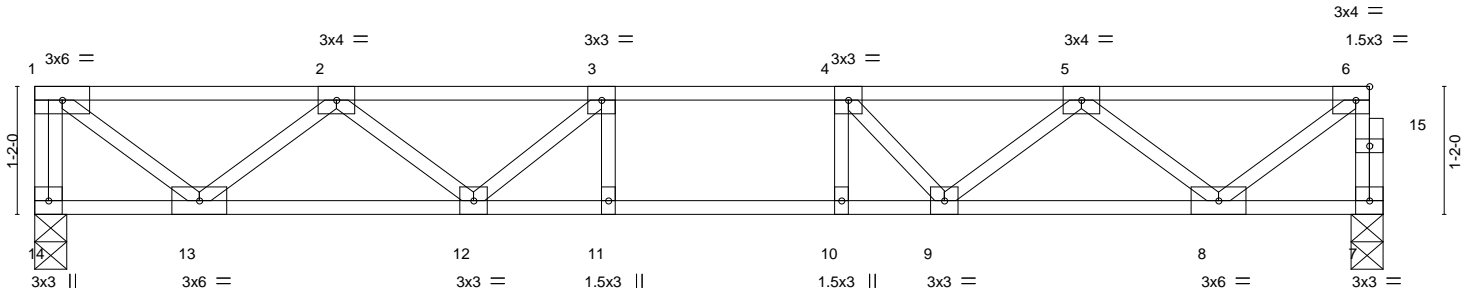


Plate Offsets (X,Y)-- [6:0-1-8,Edge]

| | | | | | |
|----------------------|----------------------|-------------|-------------------------------|---------------|-----------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 40.0 | 2-0-0 | TC 0.42 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.81 | Vert(LL) -0.10 11-12 >999 480 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.43 | Vert(CT) -0.13 11-12 >999 360 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.02 7 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 62 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 14=662/0-3-8, 7=656/0-3-8

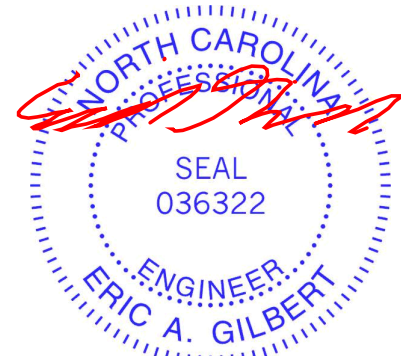
FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-656/0, 7-15=-652/0, 6-15=-651/0, 1-2=-728/0, 2-3=-1645/0, 3-4=-1881/0, 4-5=-1655/0, 5-6=-726/0
BOT CHORD 13-14=0/0, 12-13=0/1365, 11-12=0/1881, 10-11=0/1881, 9-10=0/1881, 8-9=0/1353, 7-8=0/39
WEBS 3-11=-108/106, 4-10=-94/158, 1-13=0/913, 2-13=-830/0, 2-12=0/393, 3-12=-436/0, 6-8=0/878, 5-8=-816/0, 5-9=0/433, 4-9=-466/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 30, 2019

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| | | | | | | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977421 |
| Ash_FL | F11 | Floor Girder | 1 | 1 | Job Reference (optional) | |

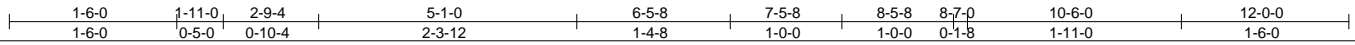
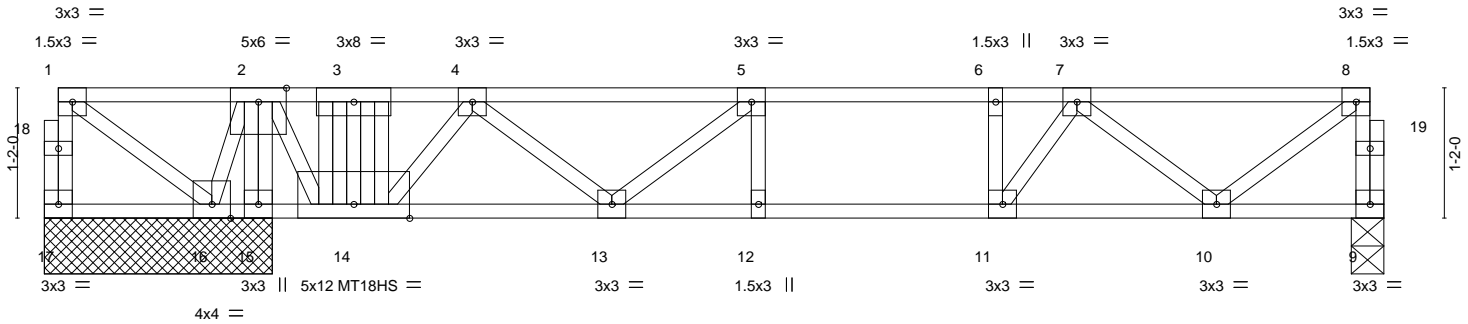
Builders FirstSource, Albemarle, NC 28001

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ID:GgN1wbXHPg6COW?w_rAWmsz1jWL-zPWzuWqaJZUIAFG7lRrRNYg10coibyk75sQkFzLqKT

0-1-8



0-1-8
Scale = 1:20.6



| | | | | | |
|----------------------|----------------------|-------------|----------------------------|---------------|-----------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 40.0 | 2-0-0 | TC 0.44 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.39 | Vert(LL) -0.04 11 >999 480 | MT18HS | 244/190 |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.47 | Vert(CT) -0.05 11 >999 360 | | |
| BCDL 5.0 | Rep Stress Incr NO | Matrix-S | Horz(CT) 0.01 9 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 70 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 17=-461/2-0-8, 9=466/0-3-8, 15=1452/2-0-8, 16=72/2-0-8
Max Uplift 17=-518(LC 4)
Max Grav 9=467(LC 4), 15=1494(LC 7), 16=89(LC 8)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 17-18=0/526, 1-18=0/525, 9-19=-461/0, 8-19=-460/0, 1-2=0/762, 2-3=-19/377, 3-4=-19/378, 4-5=-618/0, 5-6=-947/0, 6-7=-947/0, 7-8=-475/0
BOT CHORD 16-17=-32/0, 15-16=-956/0, 14-15=-954/0, 13-14=0/273, 12-13=0/947, 11-12=0/947, 10-11=0/883, 9-10=0/28
WEBS 5-12=-23/54, 6-11=-164/0, 2-15=-1393/0, 1-16=-933/0, 2-16=0/520, 5-13=-421/0, 4-13=0/449, 8-10=0/571, 7-10=-531/0, 7-11=0/263, 3-14=-274/0, 4-14=-735/0, 2-14=0/997

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 518 lb uplift at joint 17.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 250 lb down at 2-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-17=-10, 1-8=-100
Concentrated Loads (lb)
Vert: 3=-250(F)



April 30, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

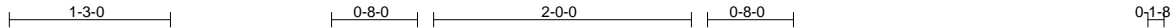


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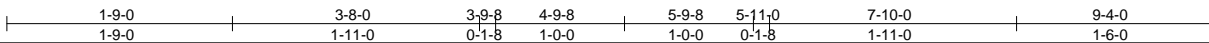
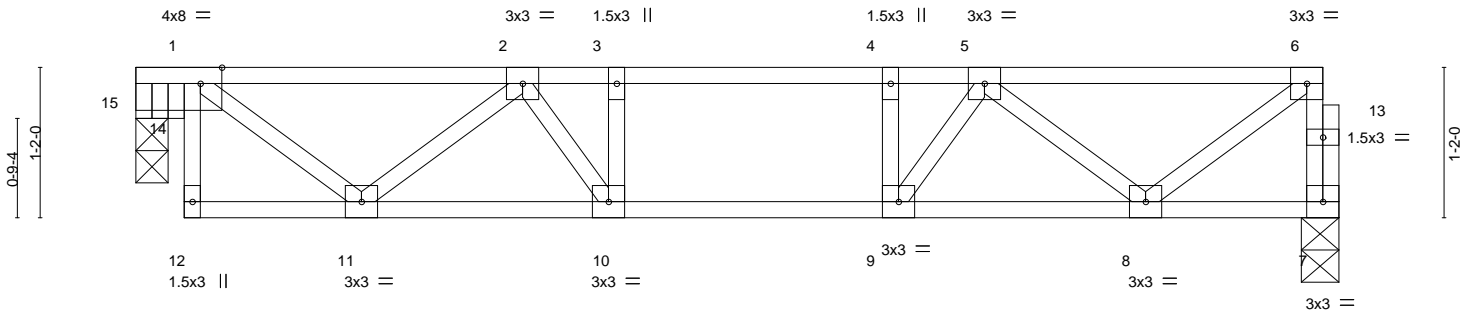
| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977422 |
| Ash_FL | F12 | Floor | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:21 2019 Page 1
ID:GgN1wbXHPg6COW?w_rAWmsz1jWL-Rb4L6srD4scwKqTh?P4zb5iOPzER56tLlbzHhzLqKS



Scale = 1:17.9



| | | | | | |
|--|-----------------------|-------------|----------------------------------|---------------|-----------------|
| Plate Offsets (X,Y)-- [1:0-2-0,Edge], [15:0-0-12,0-1-10] | | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.98 | Vert(LL) -0.04 10-11 >999 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.38 | Vert(CT) -0.05 10-11 >999 360 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.29 | Horz(CT) 0.01 7 n/a n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 47 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 7=490/0-3-8, 15=469/0-3-0

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 12-14=0/9, 1-14=0/9, 7-13=-483/0, 6-13=-482/0, 1-2=-573/0, 2-3=-1035/0, 3-4=-1035/0, 4-5=-1035/0, 5-6=-504/0
 BOT CHORD 11-12=0/140, 10-11=0/960, 9-10=0/1035, 8-9=0/940, 7-8=0/29
 WEBS 3-10=-213/0, 4-9=-234/0, 1-11=0/553, 2-11=-503/0, 2-10=-2/319, 6-8=0/606, 5-8=-567/0, 5-9=0/358, 1-15=-706/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backyards.

LOAD CASE(S) Standard



April 30, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

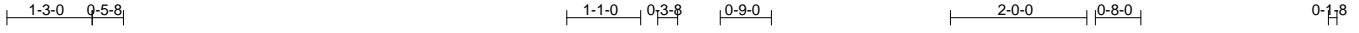


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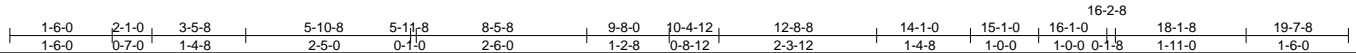
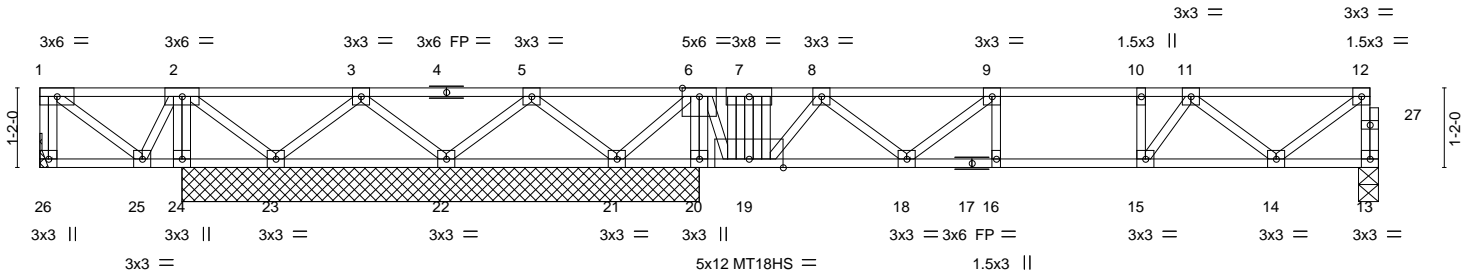
| | | | | | | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977423 |
| Ash_FL | F13 | Floor Girder | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:22 2019 Page 1
ID:GgN1wbXHPg6COW?w_rAWmsz1jWL-voekJBrrrAKTYTPIEjwJWoe0Upl6AVj1aPLWp7zLqKR



Scale = 1:33.8



| LOADING (psf) | SPACING- | CSL | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|-----------------|
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.45 | Vert(LL) -0.04 | 15 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.40 | Vert(CT) -0.05 | 15 | >999 | 360 | MT18HS | 244/190 |
| BCLL 0.0 | Rep Stress Incr NO | WB 0.46 | Horz(CT) 0.01 | 13 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 110 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 26=79/Mechanical, 13=458/0-3-8, 24=233/7-7-0, 20=1342/7-7-0, 23=160/7-7-0, 22=172/7-7-0, 21=69/7-7-0
Max Uplift 22=-52(LC 4), 21=-195(LC 4)
Max Grav 26=80(LC 3), 13=459(LC 4), 24=235(LC 3), 20=1360(LC 7), 23=172(LC 3), 22=270(LC 3), 21=119(LC 8)

FORCES. (lb) - Maximum Compression/Maximum Tension

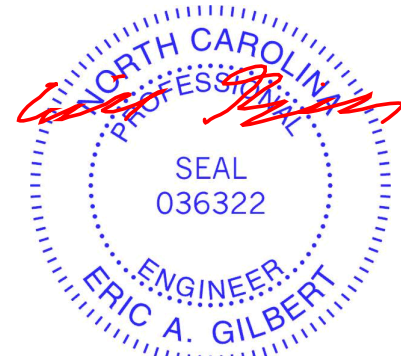
TOP CHORD 1-26=-74/0, 13-27=-453/0, 12-27=-453/0, 1-2=-3/0, 2-3=0/52, 3-4=0/126, 4-5=0/126, 5-6=0/491, 6-7=0/455, 7-8=0/457, 8-9=-566/0, 9-10=-913/0, 10-11=-913/0, 11-12=-466/0
BOT CHORD 25-26=0/0, 24-25=-4/0, 23-24=-3/2, 22-23=-11/90, 21-22=-221/41, 20-21=-936/0, 19-20=-956/0, 18-19=0/238, 17-18=0/913, 16-17=0/913, 15-16=0/913, 14-15=0/862, 13-14=0/27
WEBS 9-16=-14/58, 10-15=-151/0, 2-24=-228/0, 6-20=-1320/0, 1-25=0/4, 2-25=0/13, 2-23=-65/0, 3-23=-178/0, 3-22=-249/0, 5-22=-158/200, 5-21=-431/0, 6-21=0/590, 9-18=-445/0, 8-18=0/463, 12-14=0/560, 11-14=-515/0, 11-15=0/237, 7-19=-266/0, 8-19=-746/0, 6-19=0/961

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 22 and 195 lb uplift at joint 21.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 250 lb down at 10-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-26=-10, 11-12=-100
Concentrated Loads (lb)
Vert: 7=-250(F)



April 30, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

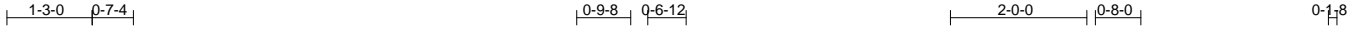


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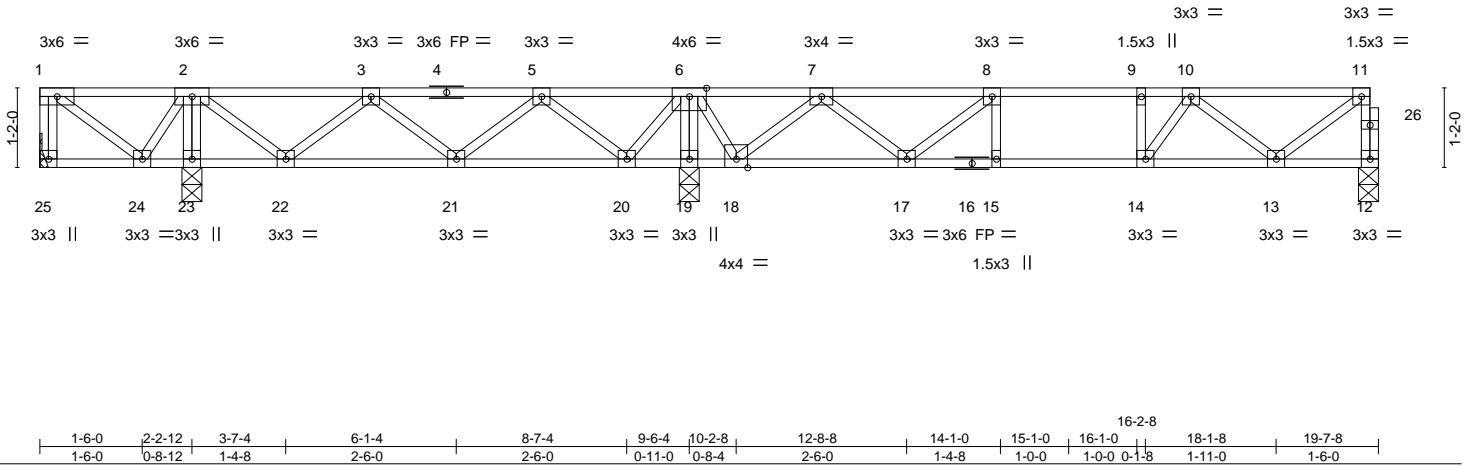
| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977424 |
| Ash_FL | F14 | Floor | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:23 2019 Page 1
ID:GgN1wbXHPg6COW?w_rAWmsz1jWL-N_C6WXstcUsK9d_roQRY30AB7DeVv?KAp344LazLqKQ



Scale = 1:33.8



| LOADING (psf) | SPACING- | CS.I. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|-----------------|
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.39 | Vert(LL) -0.04 | 13-14 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.39 | Vert(CT) -0.05 | 13-14 | >999 | 360 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.31 | Horz(CT) 0.01 | 12 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 104 lb | FT = 20%F, 11%E |

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 25=11/Mechanical, 12=451/0-3-8, 23=526/0-3-8, 19=1136/0-3-8
Max Uplift 25=118(LC 6)
Max Grav 25=132(LC 5), 12=462(LC 5), 23=670(LC 3), 19=1138(LC 4)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-25=-126/124, 12-26=-457/0, 11-26=-456/0, 1-2=-47/169, 2-3=-88/0, 3-4=-359/205, 4-5=-359/205, 5-6=0/578, 6-7=0/589, 7-8=-589/0, 8-9=-927/0, 9-10=-927/0, 10-11=-470/0
BOT CHORD 24-25=0/0, 23-24=-264/63, 22-23=-256/64, 21-22=-76/385, 20-21=-366/301, 19-20=-914/0, 18-19=-919/0, 17-18=-47/242, 16-17=0/927, 15-16=0/927, 14-15=0/927, 13-14=0/871, 12-13=0/27
WEBS 8-15=-9/67, 9-14=-143/10, 2-23=-649/0, 6-19=-1106/0, 1-24=-212/59, 2-24=-27/163, 2-22=-76/433, 3-22=-387/105, 3-21=-194/0, 5-21=0/237, 5-20=-604/0, 6-20=0/521, 8-17=-464/0, 7-17=0/475, 7-18=-823/0, 6-18=0/642, 11-13=0/565, 10-13=-522/0, 10-14=-13/223

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 25.
- 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.
- Recommnd 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lamco Custom Homes | E12977425 |
| Ash_FL | F15 | Floor | 12 | 1 | Job Reference (optional) | |

Builders FirstSource, Albemarle, NC 28001

Run: 8.200 s Nov 3 2018 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 29 15:41:24 2019 Page 1
ID:GgN1wbXHPg6COW?w_rAWmsz1jWL-rAmUkt5Nn_AnnZ2M8ynbDjDdt?eN7J1jqdt0zLqKP

0-1-8



0-1-8
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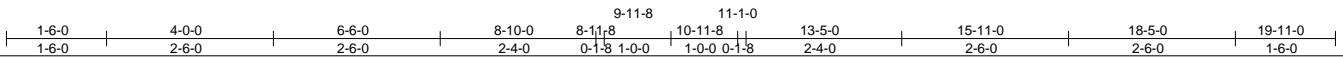
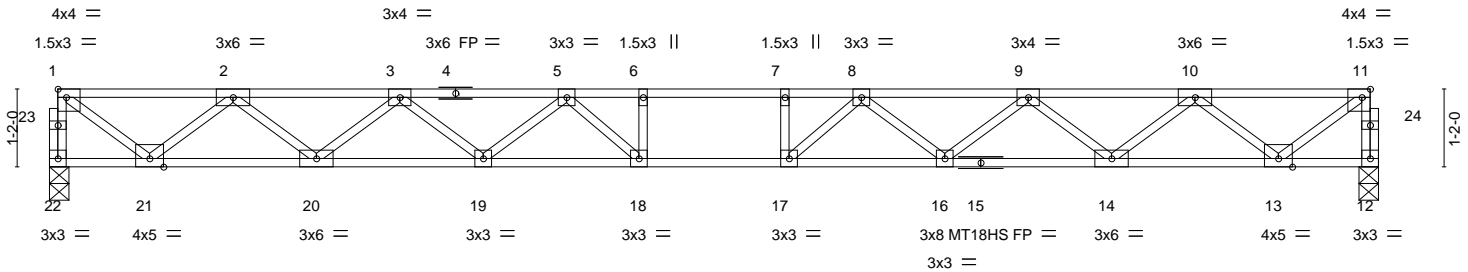


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [11:0-1-8,Edge]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|---------------|-----------------|
| LOADING (psf) | SPACING- | 1-7-3 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.69 | Vert(LL) | -0.37 | 17-18 | >632 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.88 | Vert(CT) | -0.51 | 17-18 | >460 | MT18HS | 244/190 |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.59 | Horz(CT) | 0.08 | 12 | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 98 lb | FT = 20%F, 11%E |

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
12-15: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 22=860/0-3-8, 12=860/0-3-8

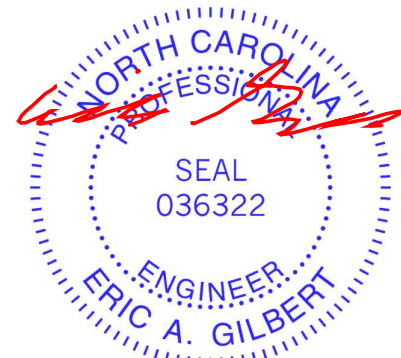
FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 22-23=-855/0, 1-23=-854/0, 12-24=-855/0, 11-24=-854/0, 1-2=-1022/0, 2-3=-2560/0, 3-4=-3537/0, 4-5=-3537/0, 5-6=-4037/0, 6-7=-4037/0, 7-8=-4037/0, 8-9=-3537/0, 9-10=-2560/0, 10-11=-1022/0
BOT CHORD 21-22=0/51, 20-21=0/1927, 19-20=0/3168, 18-19=0/3883, 17-18=0/4037, 16-17=0/3883, 15-16=0/3168, 14-15=0/3168, 13-14=0/1927, 12-13=0/51
WEBS 6-18=-256/23, 7-17=-256/23, 1-21=0/1239, 2-21=-1178/0, 2-20=0/823, 3-20=-792/0, 3-19=0/480, 5-19=-450/0, 5-18=-134/532, 11-13=0/1239, 10-13=-1178/0, 10-14=0/823, 9-14=-791/0, 9-16=0/480, 8-16=-451/0, 8-17=-134/531

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



April 30, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

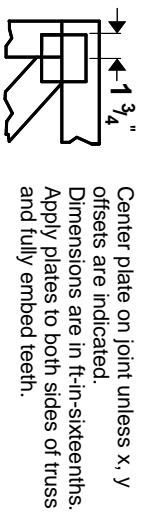
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



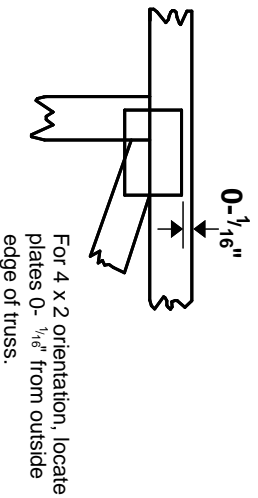
818 Soundside Road
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Symbols

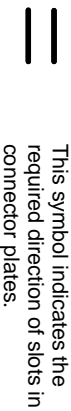
PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



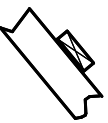
This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

4 X 4

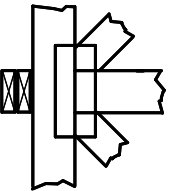
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

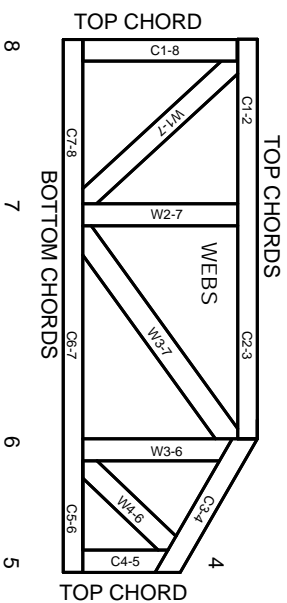


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.