ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 21110328-01
Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss

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

Pages or sheets covered by this seal: T26199920 thru T26199937

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844


December 9,2021

Magid, Michael

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2S | FLOOR | 2 | 1 | T26199920<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:21 2021 Page 1
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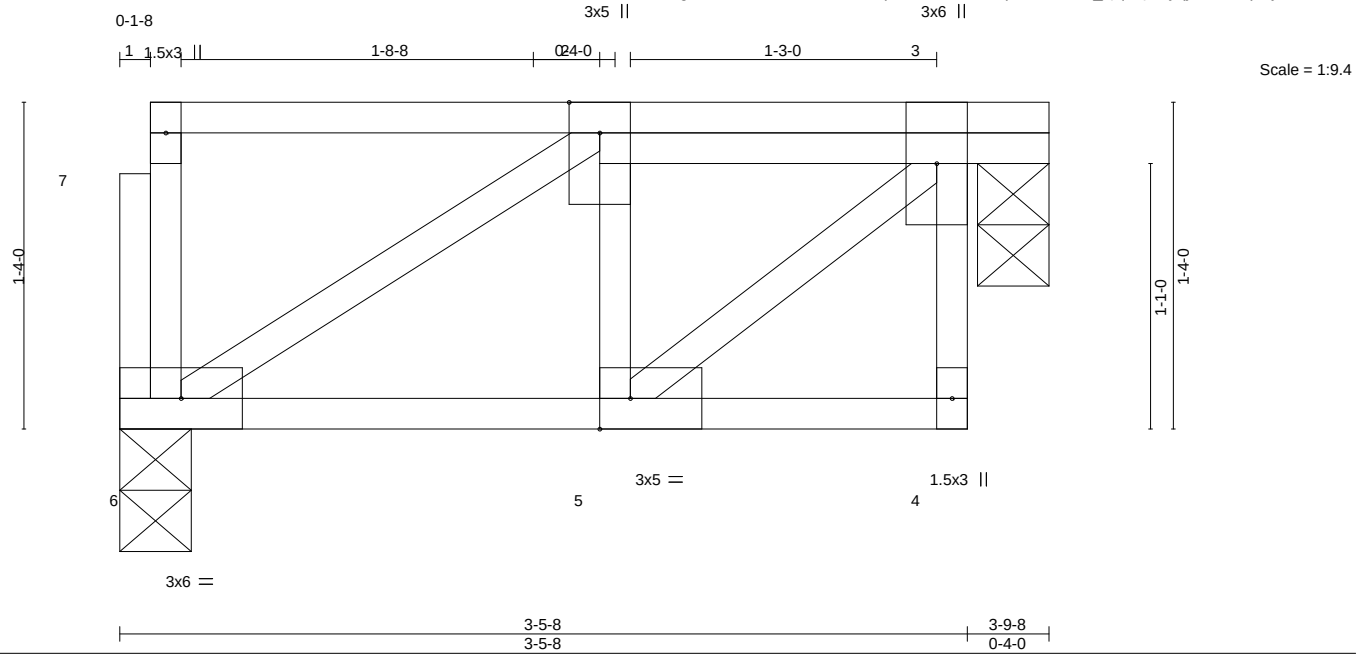



Plate Offsets (X,Y)-- [5:0-1-8,Edge]

| 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 | 0.18 | Vert(LL) | -0.00 | 5 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.06 | Vert(CT) | -0.00 | 5 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2018/TPI2014 | | Matrix-P | | | | | | | Weight: 24 lb | FT = 20%F, 11%E |

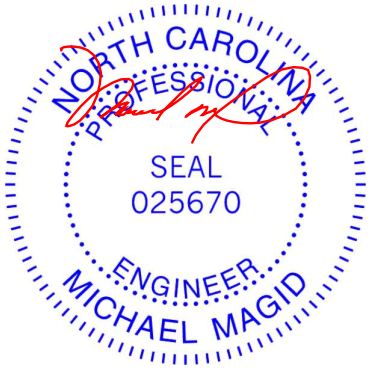
**LUMBER-**
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 6=0-3-8, 3=0-3-8
Max Grav 6=174(LC 1), 3=180(LC 1)

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

**NOTES-**
1) Attach ribbon block to truss with 3-10d nails applied to flat face.
2) This truss is designed in accordance with the 2018 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.
4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) CAUTION, Do not erect truss backwards.

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| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | L2H | GABLE | 1 | 1 | T26199921<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:25 2021 Page 1
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0-1-8

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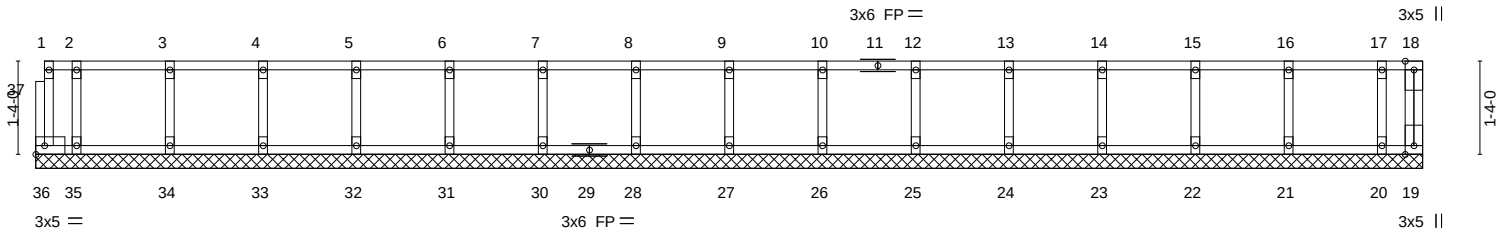


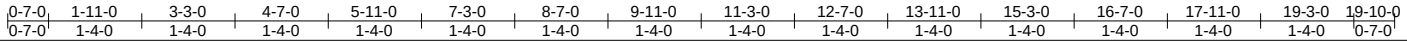


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | -0.00 | 19 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2018/TPI2014 | | Matrix-R | | | | | | | Weight: 89 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 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings 19-10-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 36, 19
Max Grav All reactions 250 lb or less at joint(s) 27, 28, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20

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

**NOTES-**
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Attach ribbon block to truss with 3-10d nails applied to flat face.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 36 and 19. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.


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| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2H | FLOOR | 3 | 1 | T26199922<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:21 2021 Page 1
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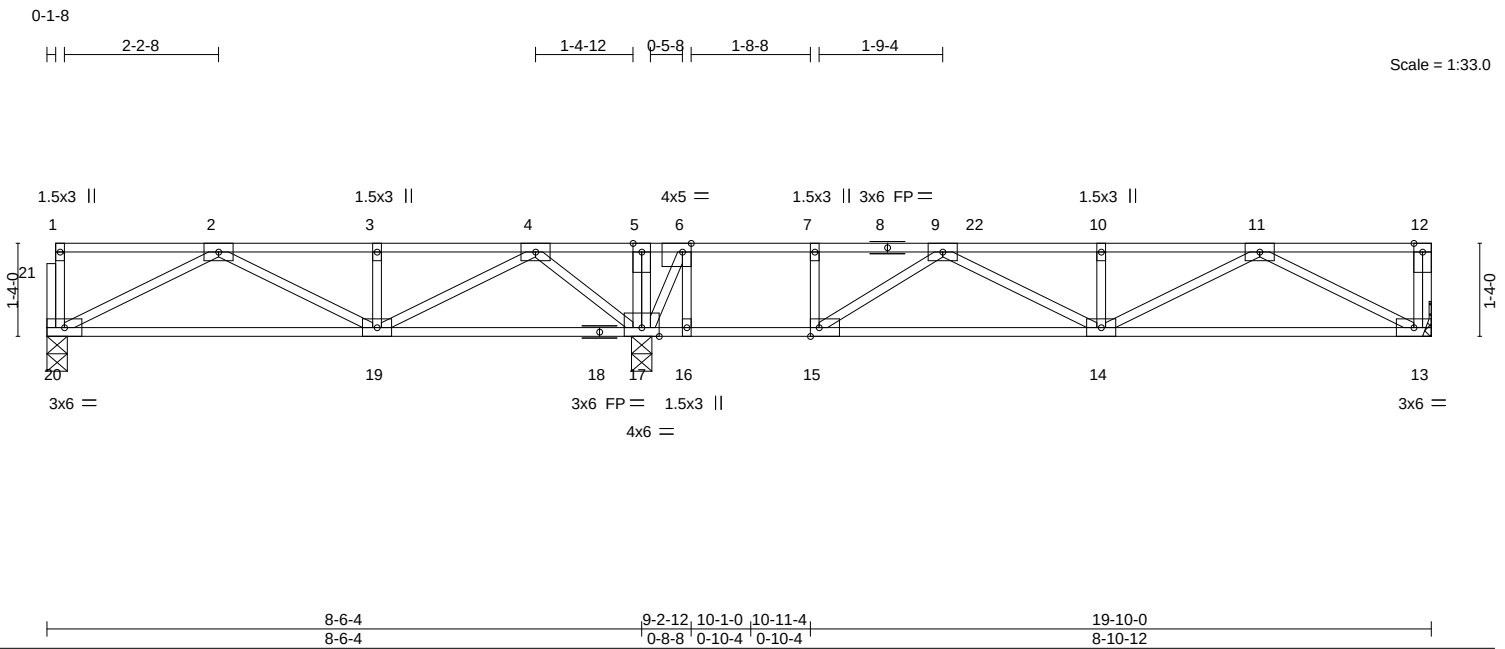


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [15:0-1-8,Edge]

| 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 | 0.92 | Vert(LL) | -0.22 | 14-15 | >622 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.83 | Vert(CT) | -0.32 | 14-15 | >417 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.36 | Horz(CT) | 0.03 | 13 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 104 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.2(flat) *Except*
1-8: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-18: 2x4 SP 2400F 2.0E(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.** (size) 20=0-3-8, 17=0-3-8, 13=Mechanical
Max Grav 20=499(LC 8), 17=1030(LC 1), 13=736(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1005/0, 3-4=-1005/0, 4-5=-449/71, 5-6=-443/72, 6-7=-1180/0, 7-9=-1180/0, 9-10=-1768/0, 10-11=-1768/0
BOT CHORD 19-20=0/754, 17-19=0/745, 16-17=0/1180, 15-16=0/1180, 14-15=0/1752, 13-14=0/1188
WEBS 6-16=0/543, 5-17=0/439, 2-20=-844/0, 2-19=0/284, 4-19=-22/411, 4-17=-647/0, 6-17=-1576/0, 11-13=-1338/0, 11-14=0/657, 9-15=-735/0

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Attach ribbon block to truss with 3-10d nails applied to flat face.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-10, 1-22=-100, 12-22=-115
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-10, 1-22=-100, 12-22=-115
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-10, 1-5=-100, 5-22=-20, 12-22=-35


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**LOAD CASE(S)** Standard

4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-20=-10, 1-5=-20, 5-22=-100, 12-22=-115
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-20=-10, 1-5=-100, 5-22=-20, 12-22=-35
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-20=-10, 1-5=-20, 5-22=-100, 12-22=-115
7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-20=-10, 1-7=-100, 7-22=-20, 12-22=-35
8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-20=-10, 1-5=-100, 5-6=-20, 6-22=-100, 12-22=-115
9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-20=-10, 1-7=-100, 7-22=-20, 12-22=-35
10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
    Uniform Loads (plf)
    Vert: 13-20=-10, 1-5=-100, 5-6=-20, 6-22=-100, 12-22=-115

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2GA | FLOOR | 3 | 1 | T26199923<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:19 2021 Page 1
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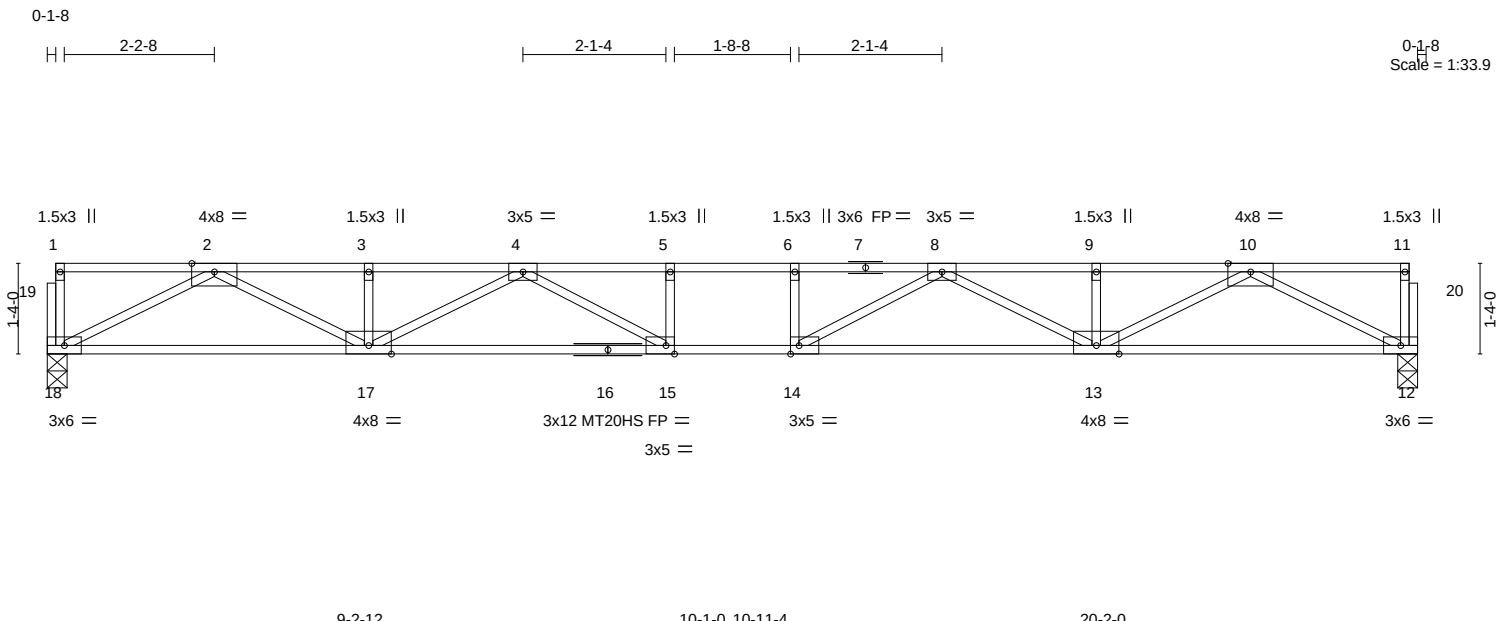


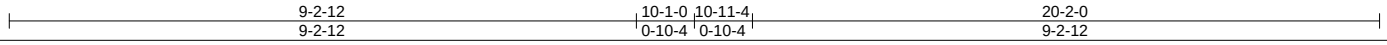


Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

| 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 | 0.77 | Vert(LL) | -0.34 | 14-15 | >708 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.61 | Vert(CT) | -0.48 | 15 | >494 | 360 | MT20HS | 187/143 |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.76 | Horz(CT) | 0.07 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 101 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.1(flat) *Except* 7-11: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 18=0-3-8, 12=0-3-8
Max Grav 18=1174(LC 1), 12=1107(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3444/0, 3-4=-3444/0, 4-5=-4636/0, 5-6=-4636/0, 6-8=-4636/0, 8-9=-3311/0, 9-10=-3311/0
BOT CHORD 17-18=0/2030, 15-17=0/4289, 14-15=0/4636, 13-14=0/4197, 12-13=0/1926
WEBS 6-14=-273/0, 2-18=-2280/0, 2-17=0/1601, 4-17=-958/0, 4-15=-82/725, 10-12=-2164/0, 10-13=0/1568, 8-13=-1004/0, 8-14=0/828

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Attach ribbon block to truss with 3-10d nails applied to flat face.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-4=-115, 4-11=-100
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-4=-115, 4-11=-100
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-4=-115, 4-6=-100, 6-11=-20
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-4=-35, 4-5=-20, 5-11=-100


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**LOAD CASE(S)** Standard

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 12-18=-10, 1-4=-115, 4-6=-100, 6-11=-20
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 12-18=-10, 1-4=-35, 4-5=-20, 5-11=-100

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2G | FLOOR | 8 | 1 | T26199924<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:18 2021 Page 1
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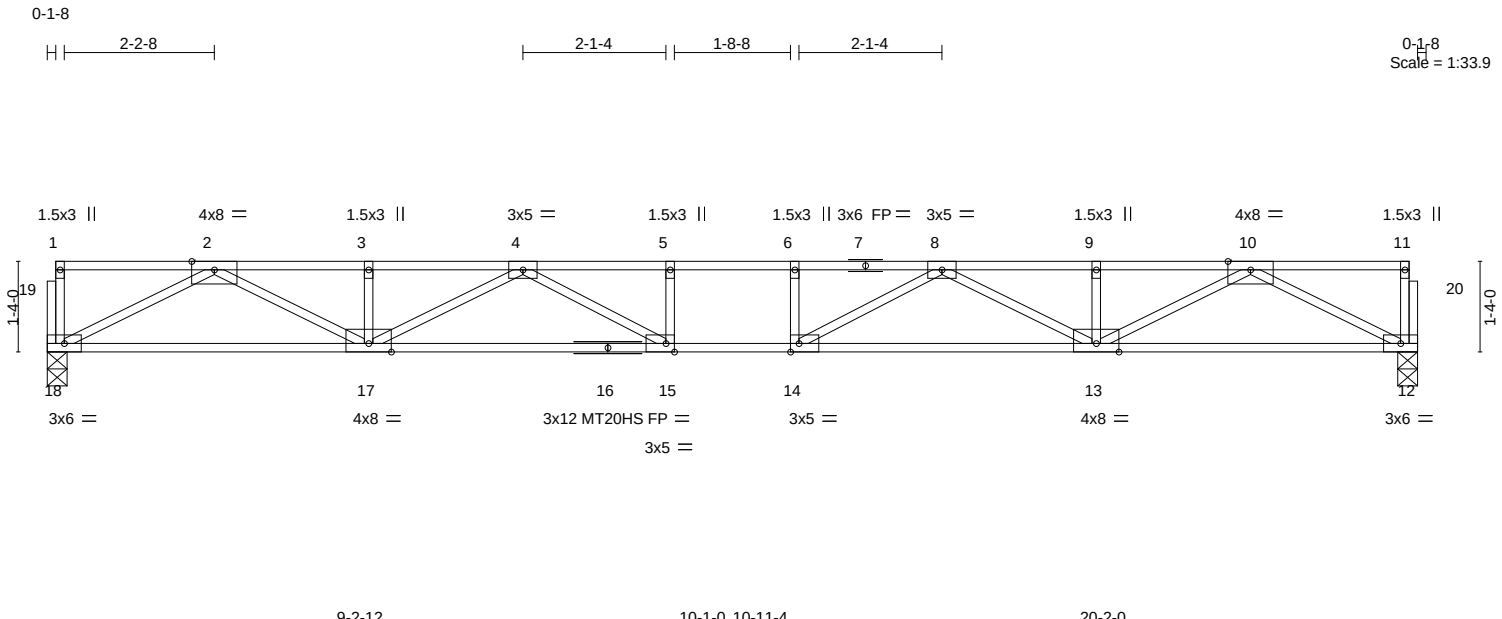


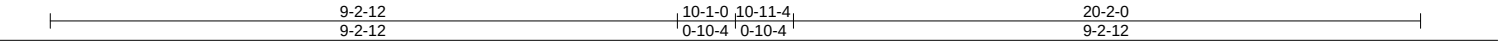


Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

| 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 | 0.85 | Vert(LL) | -0.39 | 14-15 | >619 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.90 | Vert(CT) | -0.53 | 14-15 | >452 | 360 | MT20HS | 187/143 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.09 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 101 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 18=0-3-8, 12=0-3-8
Max Grav 18=1089(LC 1), 12=1089(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3246/0, 3-4=-3246/0, 4-5=-4491/0, 5-6=-4491/0, 6-8=-4491/0, 8-9=-3246/0, 9-10=-3246/0
BOT CHORD 17-18=0/1892, 15-17=0/4095, 14-15=0/4491, 13-14=0/4095, 12-13=0/1892
WEBS 5-15=-265/0, 6-14=-265/0, 2-18=-2126/0, 2-17=0/1533, 4-17=-962/0, 4-15=-28/783, 10-12=-2126/0, 10-13=0/1533, 8-13=-962/0, 8-14=-28/783

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Attach ribbon block to truss with 3-10d nails applied to flat face.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.


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| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | L2G | GABLE | 1 | 1 | T26199925<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:24 2021 Page 1
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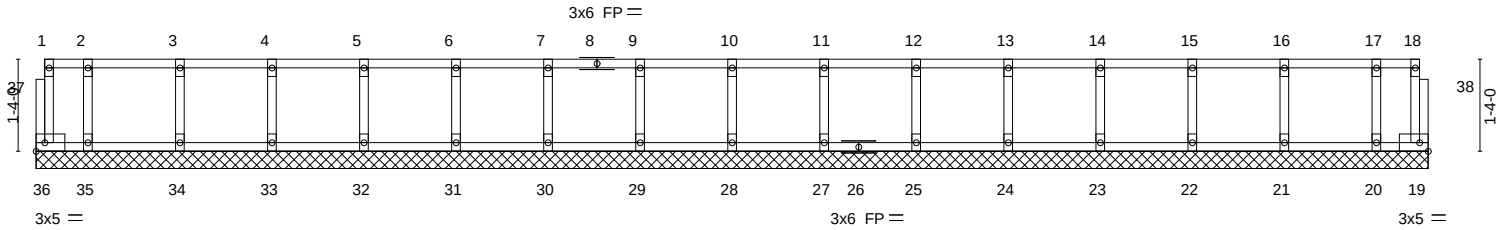


| 0-9-0 | 2-1-0 | 3-5-0 | 4-9-0 | 6-1-0 | 7-5-0 | 8-9-0 | 10-1-0 | 11-5-0 | 12-9-0 | 14-1-0 | 15-5-0 | 16-9-0 | 18-1-0 | 19-5-0 | 20-2-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0-9-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 0-9-0 |

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 19 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2018/TPI2014 | | Matrix-R | | | | | | | Weight: 90 lb | FT = 20%F, 11%E |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** All bearings 20-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 28, 29, 30, 31, 32, 33, 34, 35, 27, 25, 24, 23, 22, 21, 20

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

**NOTES-**
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Attach ribbon block to truss with 3-10d nails applied to flat face.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.


December 9,2021



ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2F | FLOOR | 8 | 1 | T26199926<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:17 2021 Page 1
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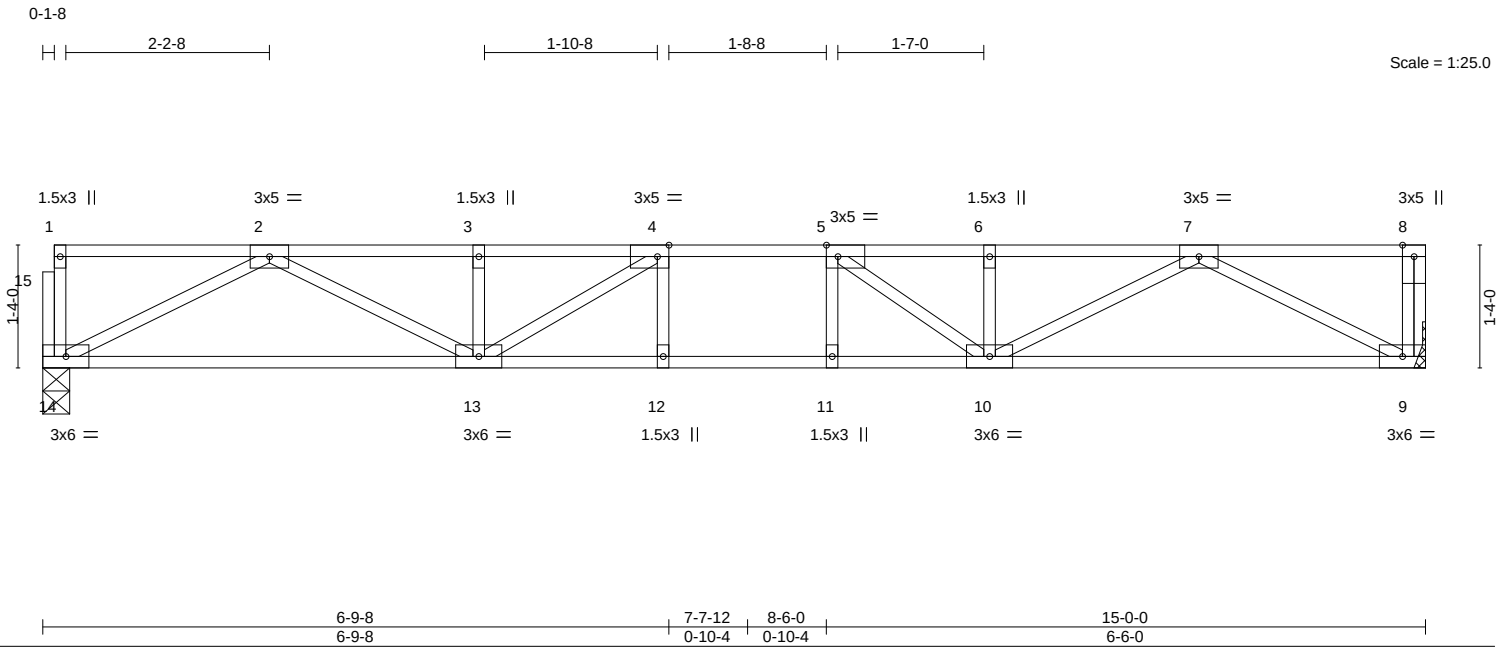



Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

| 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 | 0.49 | Vert(LL) | -0.14 | 12-13 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.87 | Vert(CT) | -0.19 | 12-13 | >913 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.44 | Horz(CT) | 0.04 | 9 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 78 lb | FT = 20%F, 11%E |

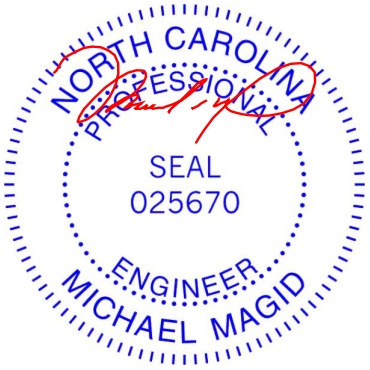
**LUMBER-**
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

**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.** (size) 14=0-3-8, 9=Mechanical
Max Grav 14=805(LC 1), 9=811(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2165/0, 3-4=-2165/0, 4-5=-2450/0, 5-6=-2155/0, 6-7=-2155/0
BOT CHORD 13-14=0/1345, 12-13=0/2450, 11-12=0/2450, 10-11=0/2450, 9-10=0/1348
WEBS 2-14=-1509/0, 2-13=0/928, 3-13=-250/4, 4-13=-553/0, 7-9=-1518/0, 7-10=0/914, 5-10=-574/0

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) Attach ribbon block to truss with 3-10d nails applied to flat face.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.




December 9,2021



ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2E | FLOOR | 1 | 1 | T26199927<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:16 2021 Page 1
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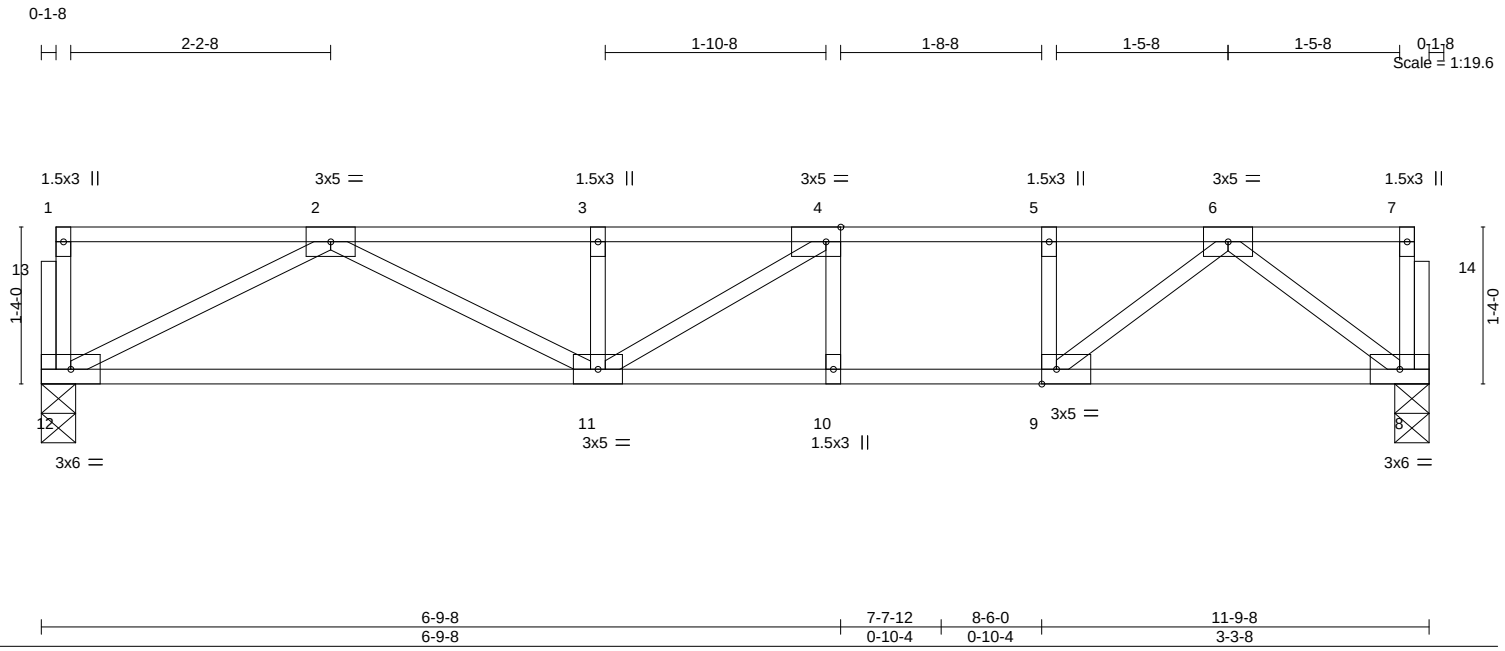


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [9:0-1-8,Edge]

| 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 | 0.88 | Vert(LL) | -0.16 | 10-11 | >865 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.98 | Vert(CT) | -0.21 | 10-11 | >665 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.38 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS.** (size) 12=0-3-8, 8=0-3-8
Max Grav 12=629(LC 1), 8=629(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1521/0, 3-4=-1521/0, 4-5=-1354/0, 5-6=-1354/0
BOT CHORD 11-12=0/1006, 10-11=0/1354, 9-10=0/1354, 8-9=0/734
WEBS 5-9=-357/0, 2-12=-1127/0, 2-11=0/584, 3-11=-290/0, 4-11=-130/298, 6-8=-918/0, 6-9=0/798

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) Attach ribbon block to truss with 3-10d nails applied to flat face.
3) This truss is designed in accordance with the 2018 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.


December 9,2021



ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | L2D | GABLE | 1 | 1 | T26199928<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:24 2021 Page 1
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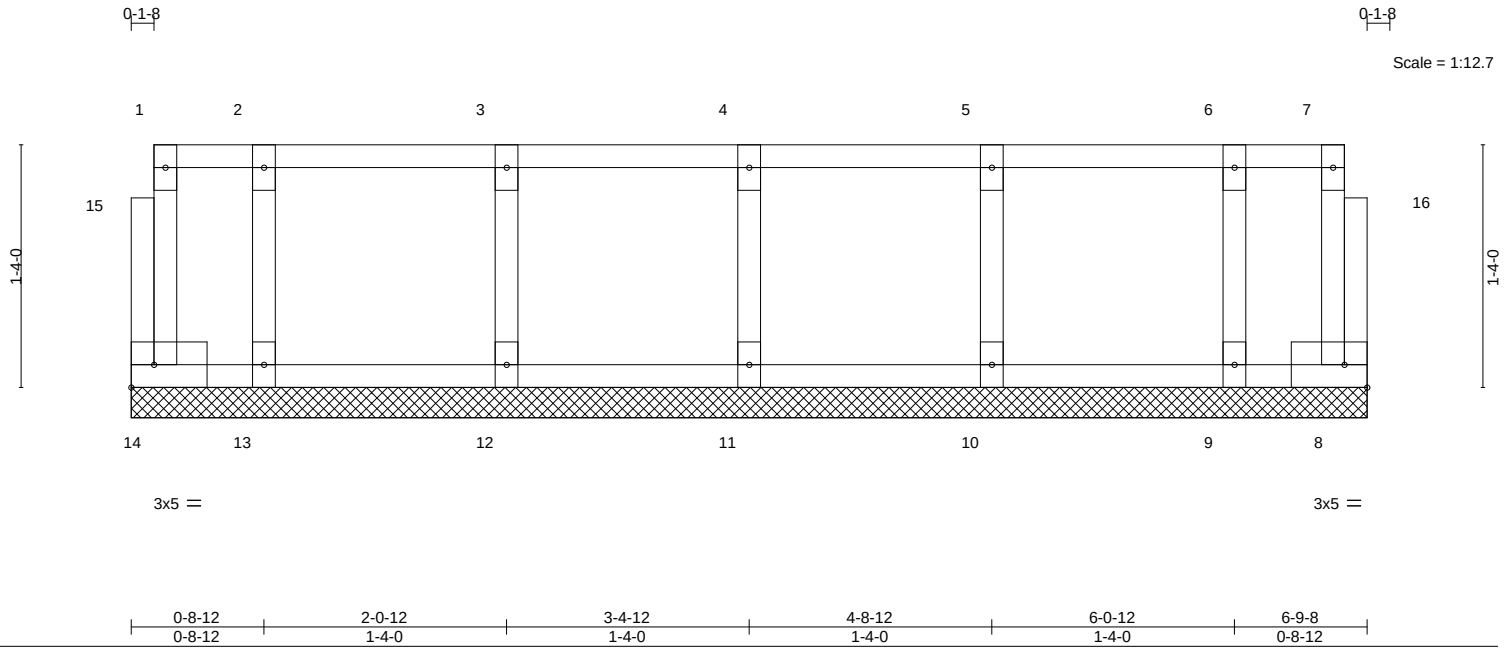


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 34 lb | FT = 20%F, 11%E |

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

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

**REACTIONS.** All bearings 6-9-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 11, 12, 13, 10, 9

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

**NOTES-**
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Attach ribbon block to truss with 3-10d nails applied to flat face.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.


December 9,2021



ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2GRA | FLOOR | 1 | 1 | T26199929<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:20 2021 Page 1
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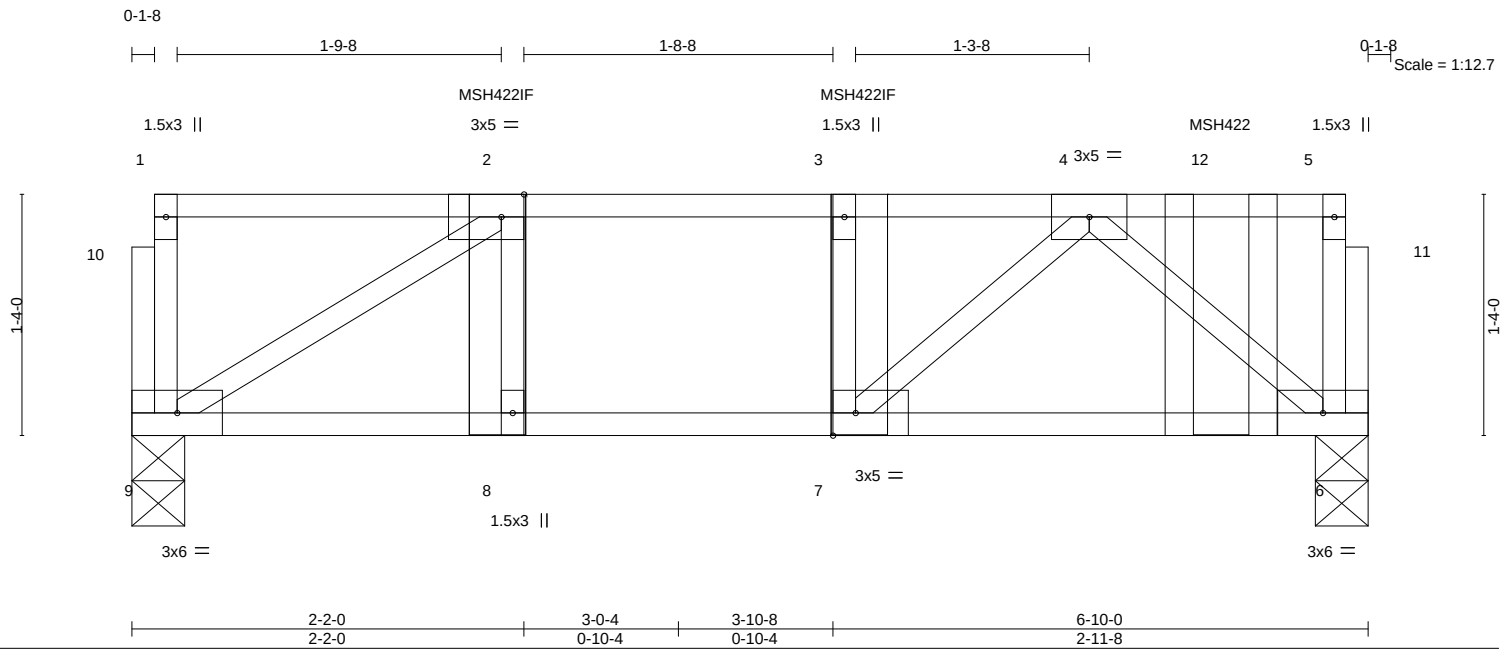


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [7:0-1-8,Edge]

| 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 | 0.97 | Vert(LL) | -0.08 | 6-7 | >997 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.74 | Vert(CT) | -0.12 | 6-7 | >668 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.54 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 37 lb | FT = 20%F, 11%E |

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

**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.** (size) 9=0-3-8, 6=0-3-8
Max Grav 9=1136(LC 1), 6=1501(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-331/0, 2-3=-1843/0, 3-4=-1843/0
BOT CHORD 8-9=0/1843, 7-8=0/1843, 6-7=0/1348
WEBS 3-7=-523/0, 2-9=-2157/0, 4-7=0/707, 4-6=-1749/0

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) Attach ribbon block to truss with 3-10d nails applied to flat face.
3) This truss is designed in accordance with the 2018 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) Use MiTek MSH422IF (With 10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-4 from the left end to 4-0-4 to connect truss(es) to front face of top chord.
6) Use MiTek MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 6-0-4 from the left end to connect truss(es) to front face of top chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 2=-636(F) 3=-636(F) 12=-655(F)


December 9,2021



ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | L2B | GABLE | 1 | 1 | T26199930<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:22 2021 Page 1
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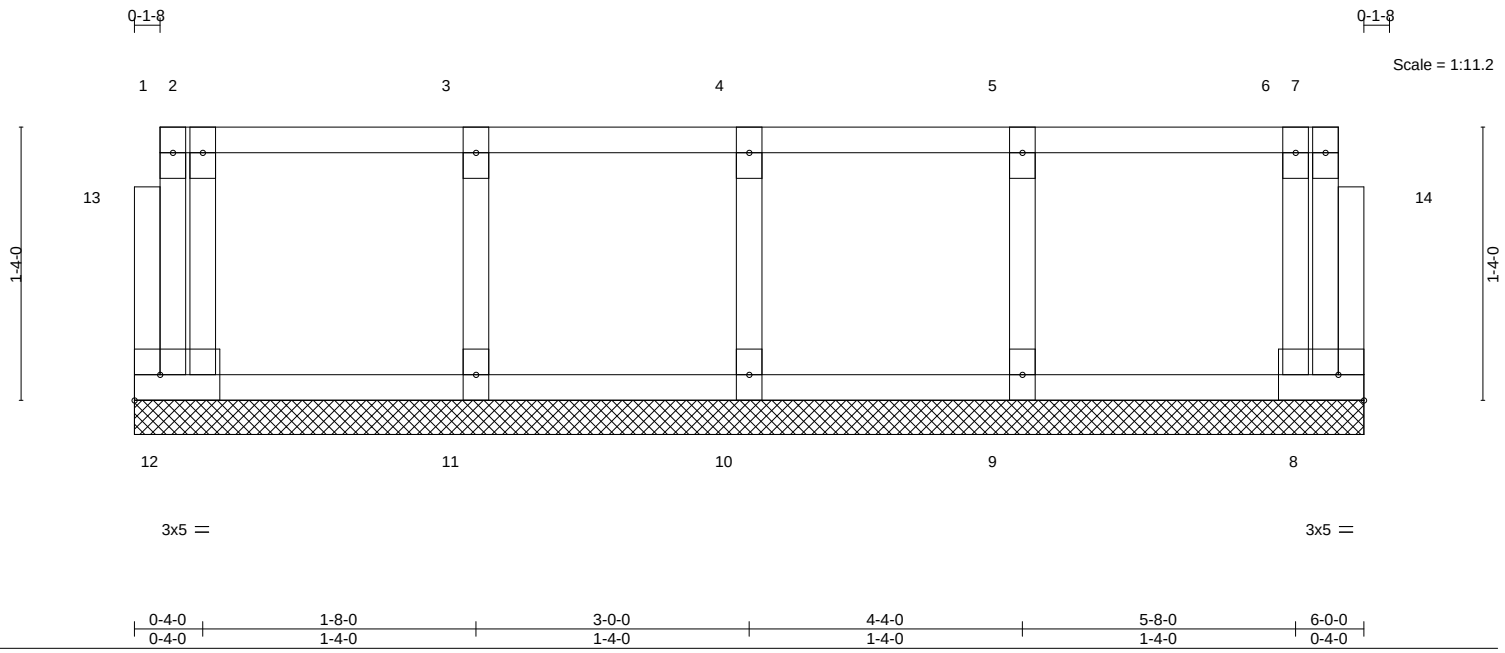


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 31 lb | FT = 20%F, 11%E |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** All bearings 6-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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

**NOTES-**
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Attach ribbon block to truss with 3-10d nails applied to flat face.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.


December 9,2021



ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2B | FLOOR | 8 | 1 | T26199931<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:15 2021 Page 1
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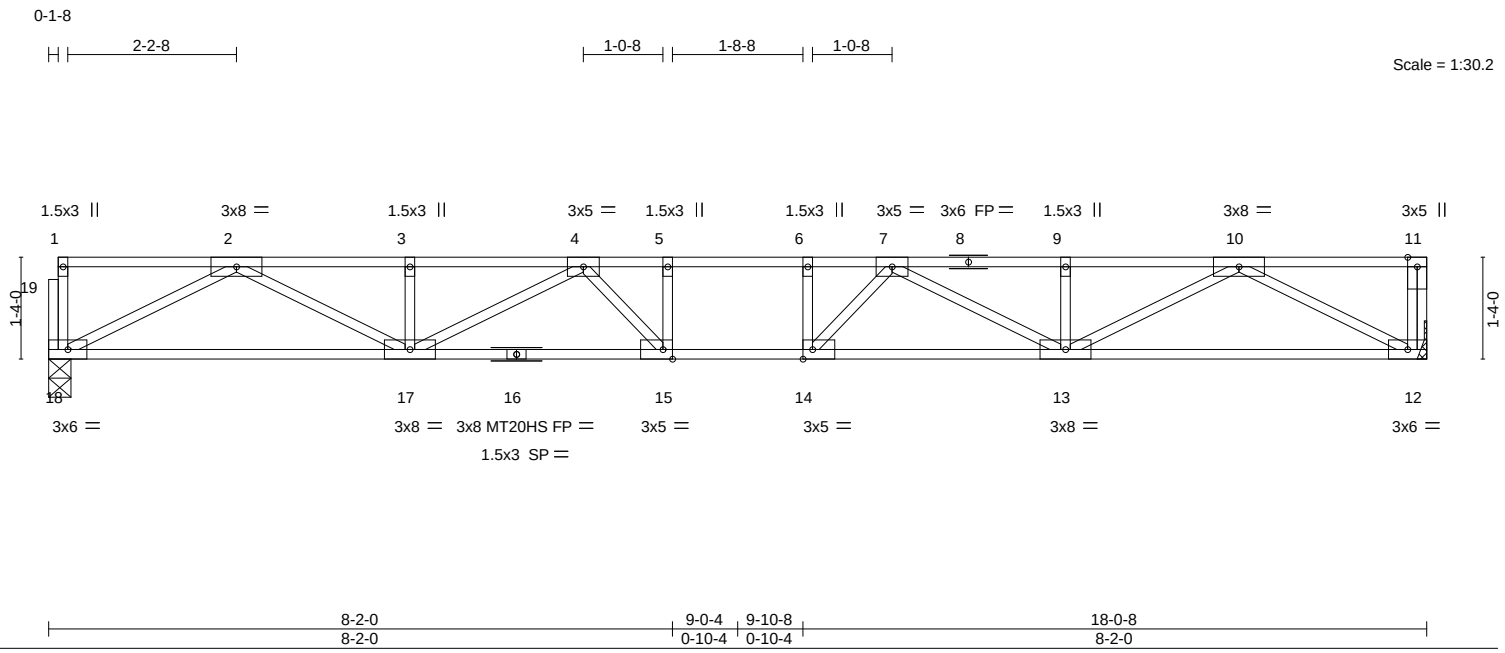



Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

| 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 | 0.72 | Vert(LL) | -0.27 | 14-15 | >800 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 1.00 | Vert(CT) | -0.37 | 14-15 | >582 | 360 | MT20HS | 187/143 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.61 | Horz(CT) | 0.07 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 93 lb | FT = 20%F, 11%E |

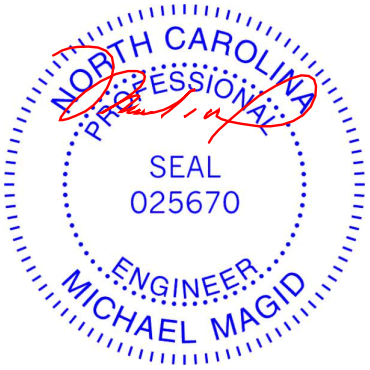
**LUMBER-**
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS.** (size) 18=0-3-8, 12=Mechanical
Max Grav 18=972(LC 1), 12=979(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2804/0, 3-4=-2804/0, 4-5=-3569/0, 5-6=-3569/0, 6-7=-3569/0, 7-9=-2804/0, 9-10=-2804/0
BOT CHORD 17-18=0/1665, 15-17=0/3425, 14-15=0/3569, 13-14=0/3425, 12-13=0/1667
WEBS 5-15=-307/51, 6-14=-307/52, 2-18=-1870/0, 2-17=0/1290, 4-17=-703/0, 4-15=-126/528, 10-12=-1878/0, 10-13=0/1287, 7-13=-704/0, 7-14=-126/528

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Attach ribbon block to truss with 3-10d nails applied to flat face.
4) The Fabrication Tolerance at joint 16 = 11%
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

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| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2 | FLOOR | 3 | 1 | T26199932<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:14 2021 Page 1
ID:GJ?ng4buYJIX0YuhFSnAirzWNqN-8IhjdGCmUuyn7PQHHGjLeLT2ANL2as8H2eUy_UyB4IR

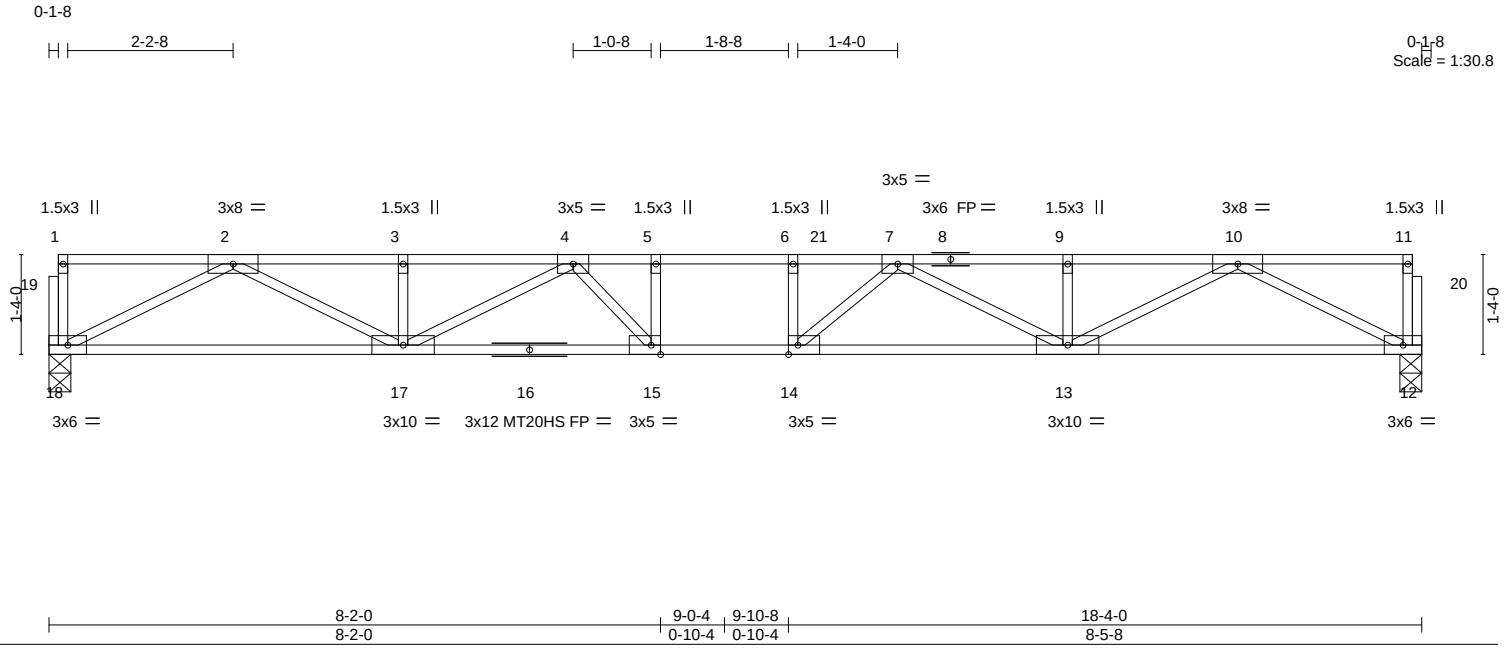


Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

| 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 | 0.84 | Vert(LL) | -0.27 | 14 | >802 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.90 | Vert(CT) | -0.40 | 14-15 | >546 | 360 | MT20HS | 187/143 |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.69 | Horz(CT) | 0.07 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 93 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 5-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 18=0-3-8, 12=0-3-8
Max Grav 18=1097(LC 1), 12=1032(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3155/0, 3-4=-3155/0, 4-5=-4002/0, 5-6=-4002/0, 6-7=-4002/0, 7-9=-3028/0, 9-10=-3028/0
BOT CHORD 17-18=0/1881, 15-17=0/3850, 14-15=0/4002, 13-14=0/3761, 12-13=0/1780
WEBS 5-15=-308/43, 6-14=-313/0, 2-18=-2112/0, 2-17=0/1443, 3-17=-260/0, 4-17=-787/0, 4-15=-136/533, 10-12=-1999/0, 10-13=0/1414, 7-13=-831/0, 7-14=-24/630

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Attach ribbon block to truss with 3-10d nails applied to flat face.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-21=-115, 11-21=-100
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-21=-115, 11-21=-100
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-6=-115, 6-21=-35, 11-21=-20
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-5=-35, 5-21=-115, 11-21=-100


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Continued on page 2



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**LOAD CASE(S)** Standard

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-6=-115, 6-21=-35, 11-21=-20

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-5=-35, 5-21=-115, 11-21=-100

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2D | FLOOR | 6 | 1 | T26199933<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:16 2021 Page 1
ID:GJ?ng4buYJIX0YuhFSnAirzWNqN-4goT2yD10VCVMjafOhlpjmYPBB452ilZVyz32MyB4IP

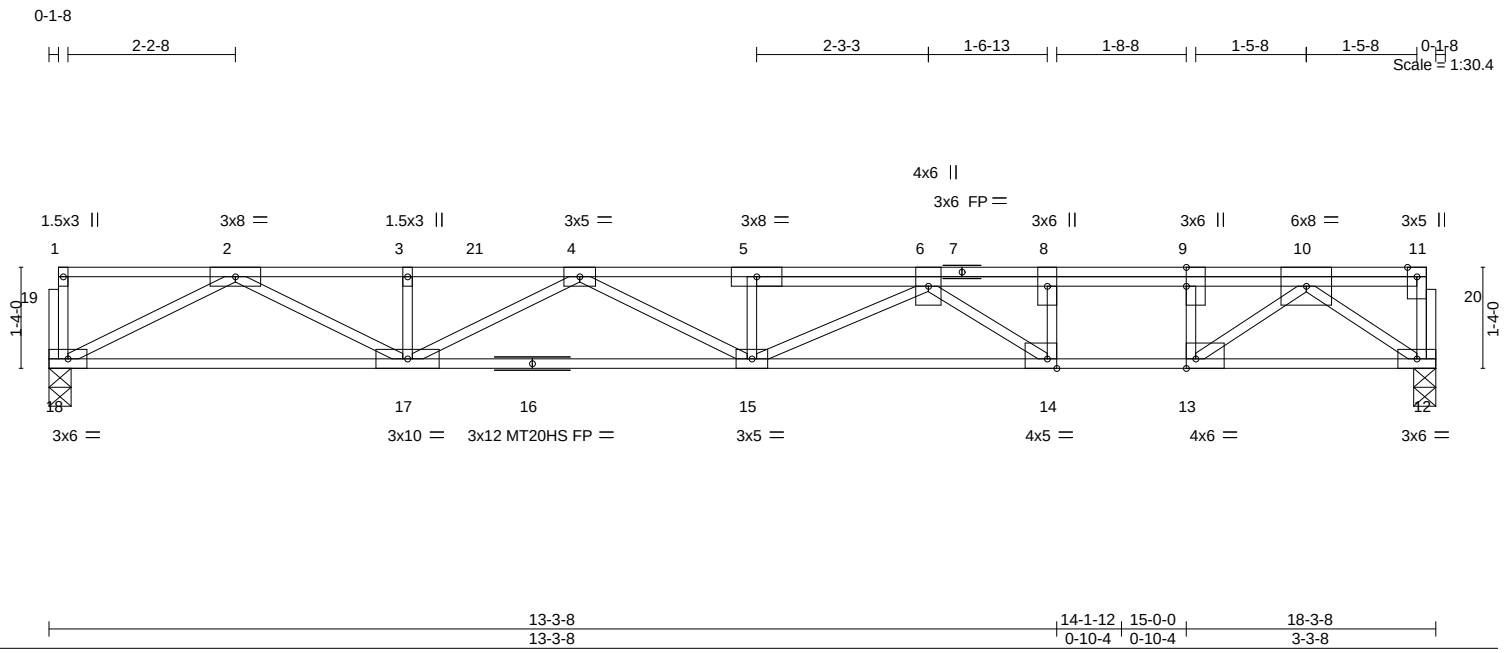


Plate Offsets (X,Y)-- [9:0-3-0,0-0-0], [13:0-1-8,Edge], [14:0-1-8,Edge]

| 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 | 0.80 | Vert(LL) | -0.30 | 14-15 | >730 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.74 | Vert(CT) | -0.43 | 14-15 | >507 | 360 | MT20HS | 187/143 |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.90 | Horz(CT) | 0.06 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 105 lb | FT = 20%F, 11%E |

**LUMBER-**
TOP CHORD 2x4 SP No.1(flat) *Except* 1-7: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 12-16: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-11-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 18=0-3-8, 12=0-3-8
Max Grav 18=1055(LC 1), 12=999(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2989/0, 3-4=-2989/0, 4-5=-3835/0, 5-6=-3840/0, 6-8=-2724/0, 8-9=-2724/0, 9-10=-2724/0
BOT CHORD 17-18=0/1801, 15-17=0/3637, 14-15=0/3711, 13-14=0/2724, 12-13=0/1211
WEBS 8-14=0/658, 9-13=-1017/0, 2-18=-2022/0, 2-17=0/1346, 4-17=-734/0, 6-14=-1269/0, 10-12=-1486/0, 10-13=0/1894

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Attach ribbon block to truss with 3-10d nails applied to flat face.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-21=-115, 11-21=-100
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-21=-115, 11-21=-100
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-10, 1-21=-115, 9-21=-100, 9-11=-20
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00


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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 12-18=-10, 1-21=-35, 8-21=-20, 8-11=-100

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 12-18=-10, 1-21=-115, 9-21=-100, 9-11=-20

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 12-18=-10, 1-21=-35, 8-21=-20, 8-11=-100

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2A | FLOOR | 3 | 1 | T26199934<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:14 2021 Page 1
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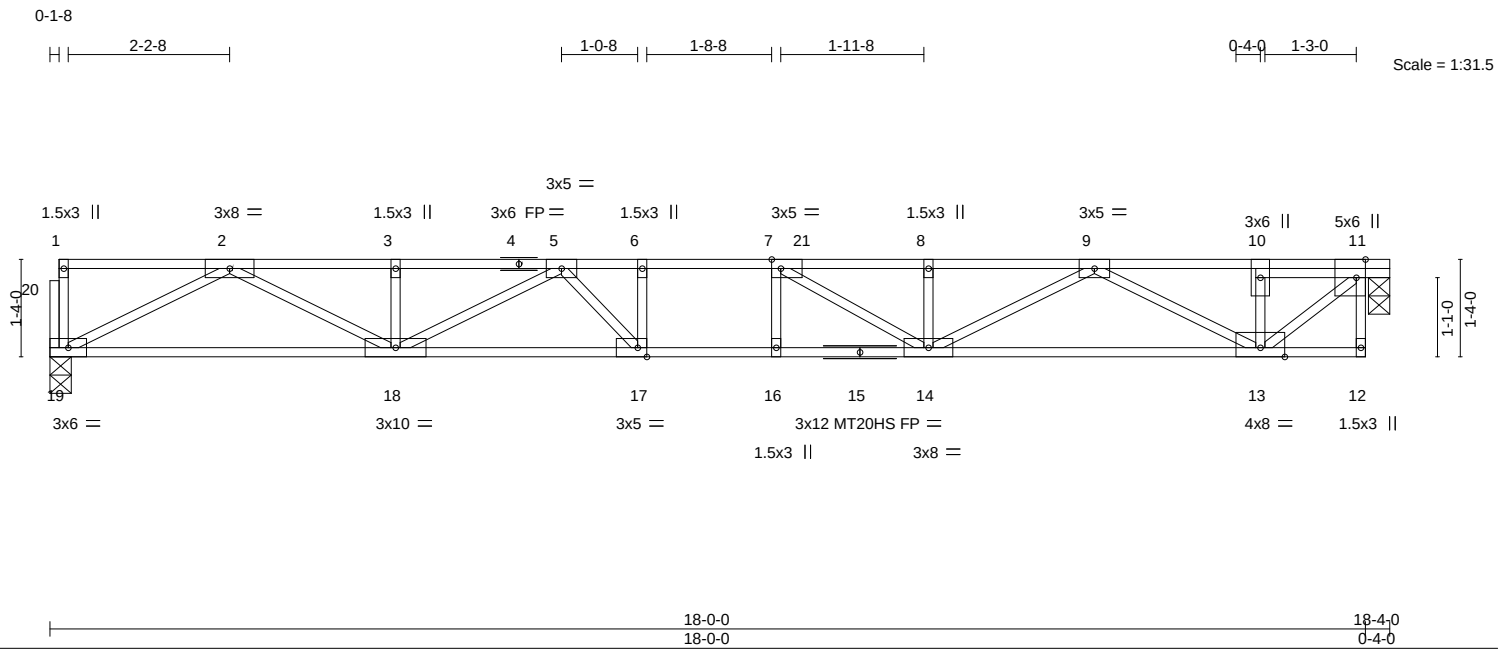


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [11:0-3-0,Edge], [17:0-1-8,Edge]

| 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 | 0.86 | Vert(LL) | -0.25 | 16 | >851 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.93 | Vert(CT) | -0.37 | 17 | >570 | 360 | MT20HS | 187/143 |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.73 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 95 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 5-6-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 19=0-3-8, 11=0-3-8
Max Grav 19=1082(LC 1), 11=1024(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3096/0, 3-5=-3096/0, 5-6=-3890/0, 6-7=-3890/0, 7-8=-3444/0, 8-9=-3444/0, 9-10=-1186/0, 10-11=-1183/0
BOT CHORD 18-19=0/1851, 17-18=0/3762, 16-17=0/3890, 14-16=0/3890, 13-14=0/2502
WEBS 11-13=0/1540, 6-17=-270/38, 2-19=-2079/0, 2-18=0/1410, 3-18=-259/0, 5-18=-755/0, 5-17=-150/497, 9-13=-1494/0, 9-14=0/1067, 8-14=-258/26, 7-14=-814/0

**NOTES-**
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Attach ribbon block to truss with 3-10d nails applied to flat face.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
8) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-19=-10, 1-21=-115, 11-21=-100
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-19=-10, 1-21=-115, 11-21=-100
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-19=-10, 1-7=-115, 7-21=-35, 11-21=-20
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00


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**LOAD CASE(S)** Standard
Uniform Loads (plf)
Vert: 12-19=-10, 1-6=-35, 6-21=-115, 11-21=-100
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-19=-10, 1-7=-115, 7-21=-35, 11-21=-20
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-19=-10, 1-6=-35, 6-21=-115, 11-21=-100

| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | L2C | GABLE | 1 | 1 | T26199935<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:23 2021 Page 1
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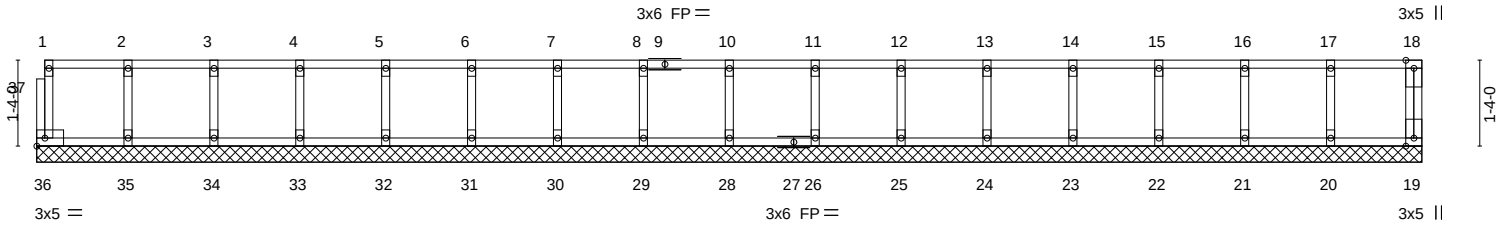



| 1-5-0 | 2-9-0 | 4-1-0 | 5-5-0 | 6-9-0 | 8-1-0 | 9-5-0 | 10-9-0 | 12-1-0 | 13-5-0 | 14-9-0 | 16-1-0 | 17-5-0 | 18-9-0 | 20-1-0 | 21-6-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-5-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-5-0 |

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 19 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2018/TPI2014 | | Matrix-R | | | | | | | Weight: 94 lb | FT = 20%F, 11%E |

**LUMBER-**

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

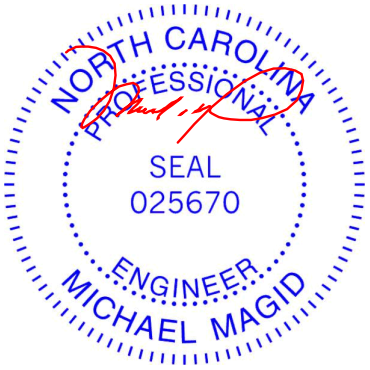
**BRACING-**

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

**REACTIONS.** All bearings 21-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 28, 29, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20

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

**NOTES-**
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Attach ribbon block to truss with 3-10d nails applied to flat face.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

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| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | L2 | GABLE | 1 | 1 | T26199936<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:22 2021 Page 1
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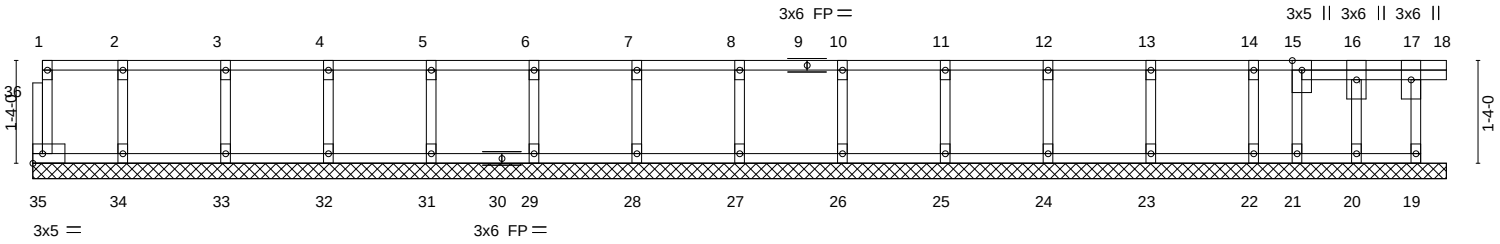


| 1-2-0 | 2-6-0 | 3-10-0 | 5-2-0 | 6-6-0 | 7-10-0 | 9-2-0 | 10-6-0 | 11-10-0 | 13-2-0 | 14-6-0 | 15-10-0 | 16-4-0 | 17-2-0 | 18-0-0 | 18-4-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-2-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 0-6-0 | 0-10-0 | 0-10-0 | 0-4-0 |

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.08 | Vert(LL) | -0.00 | 17 | n/r | 180 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(CT) | -0.00 | 17 | n/r | 120 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 19 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2018/TPI2014 | | Matrix-R | | | | | | | Weight: 83 lb | FT = 20%F, 11%E |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** All bearings 18-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 35, 19, 27, 28, 29, 31, 32, 33, 34, 26, 25, 24, 23, 22, 20, 21

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

**NOTES-**
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Attach ribbon block to truss with 3-10d nails applied to flat face.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.


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| Job | Truss | Truss Type | Qty | Ply | Cameron Woods Lot 26- 2721 elev B PERMIT-floor truss |
|---|---|---|---|---|---|
| 21110328-01 | F2GR | FLOOR | 1 | 1 | T26199937<br>Job Reference (optional) |

Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Nov 29 2021 MiTek Industries, Inc. Wed Dec 8 08:51:19 2021 Page 1
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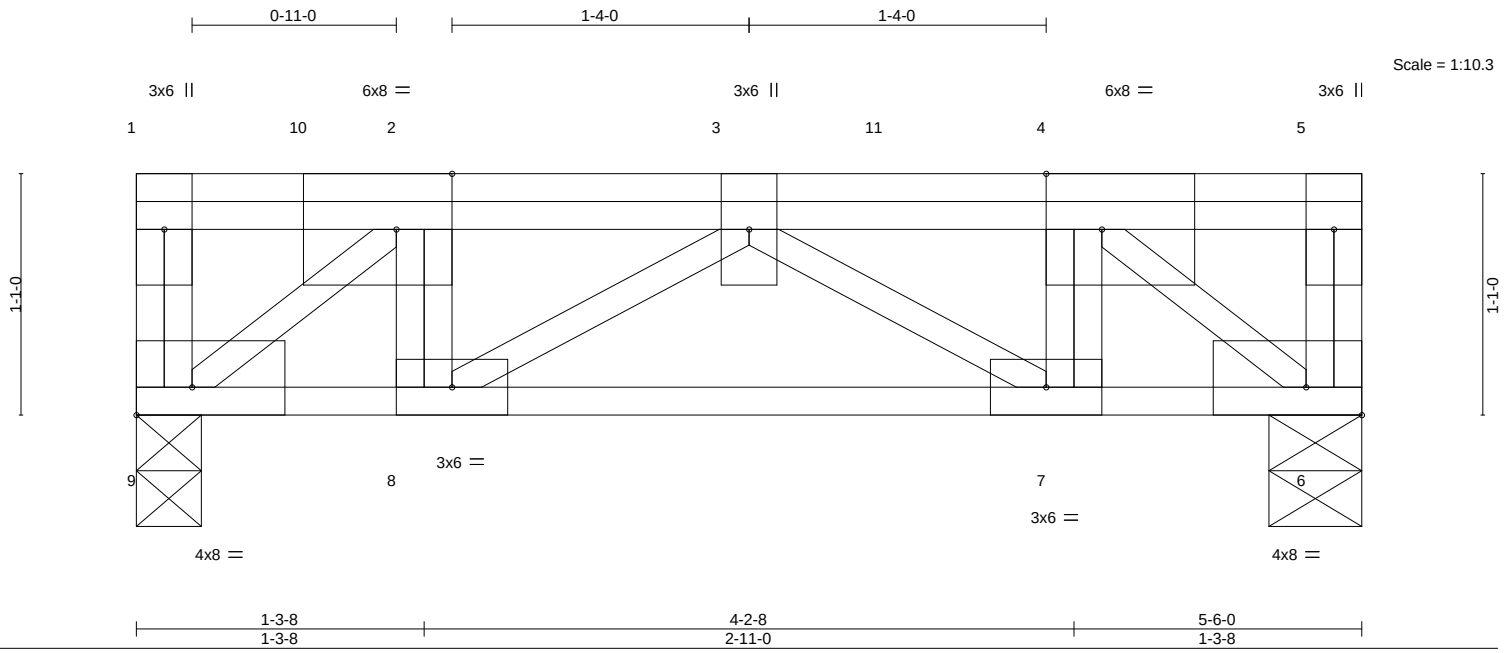



Plate Offsets (X,Y)-- [2:0-3-0,Edge], [4:0-3-0,Edge], [6:Edge,0-1-8], [9:Edge,0-1-8]

| 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) | -0.02 | 7-8 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.75 | Vert(CT) | -0.04 | 7-8 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.51 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2018/TPI2014 | | Matrix-P | | | | | | | 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)

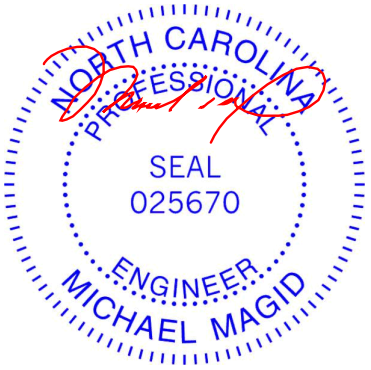
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 9=0-3-8, 6=0-5-0
Max Grav 9=1488(LC 1), 6=2123(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-894/0, 2-3=-1764/0, 3-4=-1592/0
BOT CHORD 8-9=0/1764, 7-8=0/2296, 6-7=0/1592
WEBS 2-8=0/344, 2-9=-2224/0, 4-6=-2007/0, 4-7=0/452, 3-8=-624/0, 3-7=-826/0

**NOTES-**
1) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
2) 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.
3) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 5=-924 2=-924 4=-90 3=-80 10=-93 11=-924



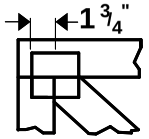

December 9,2021



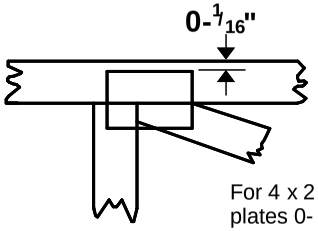
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

# 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.

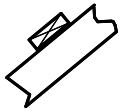
*** Plate location details available in MiTek 20/20 software or upon request.**

## PLATE SIZE

4 x 4

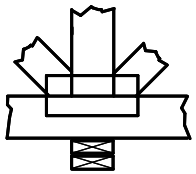
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

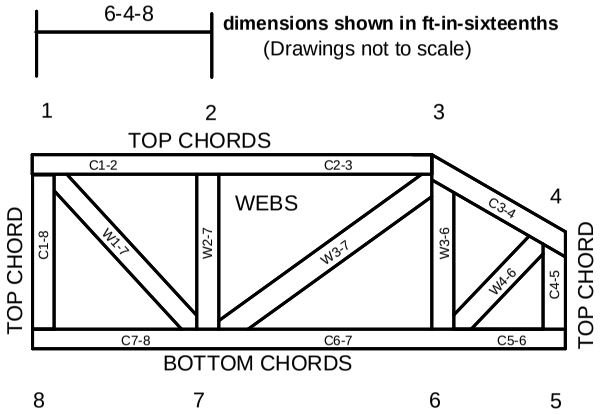


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: 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.



MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# 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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.