

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24100010-A 11 Overhills Creek-2nd Floor-12 CRP GRH

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 (Sanford, NC)).

Pages or sheets covered by this seal: I70373634 thru I70373634

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



December 26,2024

Gilbert, Eric

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 | 11 Overhills Creek-2nd Floo | | |
|-------------------------------|--------------------|---|-----|-----|-----------------------------|-----------------------|-----------|
| 24100010-A | F202 | Floor | 10 | 1 | Job Reference (optional) | UNITS: 1.0 ENG: AK | 170373634 |
| Carter Components (Sanford, N | Run: 8.73 S Dec 52 | Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Mon Dec 23 08:33:17 | | | | | |

No.2(flat)

bracing.

Max Grav

Tension

(size)

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

REACTIONS

TOP CHORD

BOT CHORD

WFBS

FORCES

2x4 SP No.3(flat)

2x4 SP No.3(flat)

Structural wood sheathing directly applied or

19=0-3-8, 24=0-3-8, 31=0-3-8

19=551 (LC 4), 24=1716 (LC 1),

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

31=750 (LC 3)

1-31=-70/0, 18-19=-38/0, 1-2=-4/0, 2-3=-1928/0, 3-4=-1928/0, 4-5=-2429/0, 5-6=-2429/0, 6-7=-1831/0, 7-8=-1831/0, 8-9=0/496, 9-10=0/496, 10-12=0/1596, 12-13=-935/449, 13-14=-935/449, 14-15=-1309/133, 15-16=-1120/0,

16-17=-1120/0, 17-18=-2/0

24-25=-1596/0, 23-24=-774/280 22-23=-133/1309, 21-22=-133/1309, 20-21=-133/1309. 19-20=0/520

13-23=-80/121, 14-23=-823/0,

17-19=-726/0

(lb) - Maximum Compression/Maximum

30-31=0/1149, 29-30=0/2349, 28-29=0/2429, 27-28=0/2429, 25-27=-73/1036,

5-29=-153/23, 6-28=-2/159, 10-24=-1028/0,

14-22=0/204, 15-21=-137/0, 2-31=-1324/0, 2-30=0/910, 3-30=-163/0, 4-30=-492/0,

4-29=-170/295, 6-27=-912/0, 7-27=-172/70, 8-27=0/976, 8-25=-1353/0, 9-25=-153/0, 10-25=0/1418, 12-24=-1301/0, 12-23=0/888,

15-20=-218/250, 16-20=-256/0, 17-20=0/700,



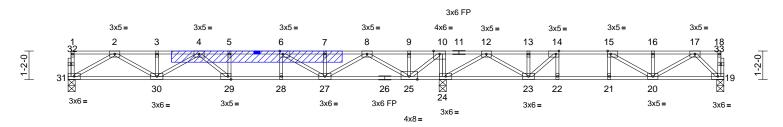
REPAIR

0-1-8 X 0-3-0 NOTCH IN TOP CHORD CENTERED 7-7-8 FROM LEFT END OF TRUSS

LUMBER MUST BE DRILLED CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED NO LUMBER DEFECTS ARE TO BE LOCATED WITHIN 12" OF HOLE

0-11-4

0-1-8





| | | | | | 21 4 42 | | | | | | |
|---|-------|-------------------------|--------|---|---------|--------------------------|---------|--|--|--|--|
| | 6-8-4 | 7-8-4 8-8-4 | 15-4-8 | | 20-1-12 | | 26-11-0 | | | | |
| Scale = 1:47.3 | 6-8-4 | 1-0-0 ¹ -0-0 | 6-8-4 | I | 4-9-4 | 1-0-0 ¹ 1-0-0 | 4-9-4 | | | | |
| Plate Officete (X, X): [6:0-1-8 Edge] [14:0-1-8 Edge] [15:0-1-8 Edge] [20:0-1-8 Edge] | | | | | | | | | | | |

| - Tate Offsets (A, T). [0.0-1-0,Luge], [14.0-1-0,Luge], [13.0-1-0,Luge] | | | | | | | | | | | | |
|---|---------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|-----------------|
| Loading | (psf) S | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 40.0 F | Plate Grip DOL | 1.00 | тс | 0.75 | Vert(LL) | -0.18 | 29-30 | >990 | 480 | MT20 | 244/190 |
| TCDL | 10.0 L | Lumber DOL | 1.00 | BC | 0.86 | Vert(CT) | -0.25 | 29-30 | >730 | 360 | | |
| BCLL | 0.0 F | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.04 | 19 | n/a | n/a | | |
| BCDL | 5.0 0 | Code | IRC2021/TPI2014 | Matrix-SH | | | | | | | Weight: 136 lb | FT = 20%F, 11%E |
| LUMBER 1) Unbalanced floor live loads have been considered for TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.1(flat) *Except* 26-19:2x4 SP 2) All plates are 1.5x3 MT20 unless otherwise indicated. | | | | | | | | | | | | |

Bearings are assumed to be: Joint 31 SP No.1, Joint 24 3)

SP No.2, Joint 19 SP No.2.

Recommend 2x6 strongbacks, on edge, spaced at 4) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls

at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



NOTES

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 bucking 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

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