
ADDRESS . . : 131 KIMBROUGH DR SUBDIV: WOODSHIRE PH 5
CONTRACTOR : CAVINESS LAND DEVELOPMENT PHONE : (919) 481-0503
OWNER . . : CAVINESS LAND DEVELOPMENT PHONE : (910) 481-0503
PARCEL . . : 01-0536-06- -0028- -15-
APPL NUMBER: 09-50022370 CP NEW RESIDENTIAL (SFD)
DIRECTIONS : WOODSHIRE #175
TAKE 27W APPROX 8MI. T/L ON NURSERY
ROAD, GO APPROX 3MI. T/L ON WOOD POINT,
GO APPROX 0.3MI, T/R ON KIMBROUGH.
T/S: 06/29/2009 11:17 AM RDCONTE ---

STRUCTURE: 000 000 41X57 SLAB 4BD/2.5BA W/GAR NO DECK

FLOOD ZONE : FLOOD ZONE X
BEDROOMS : 4000000.00 PROPOSED USE : SFD
SEPTIC - EXISTING? : NEW TANK WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	7/28/09	JH	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001801116
	7/28/09	AP	t-pole didnt pass need GFI breaker fro 220amp receptacle---
B103 01	8/05/09	DT	R*BLDG FOUND & TEMP SVC POLE VRU #: 001804913
	8/05/09	AP	
P309 01	8/10/09	JH	R*PLUMB UNDER SLAB VRU #: 001806488
	8/10/09	AP	T/S: 08/10/2009 02:41 PM JHALL -----
B111 01	8/13/09	DT	R*BLDG SLAB INSP VRU #: 001807780
	8/13/09	AP	
A814 01	8/13/09	TW	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001806497
	8/13/09	AP	131 KIMBROUGH DR LOT 175 ----- LILLINGTON 27546 T/S: 08/13/2009 01:03 PM TWARD -----
R427 01	9/15/09	DT	FOUR TRADE ROUGH IN >2500 VRU #: 001821327
	9/15/09	DA	1. Trip joist in garage must have 4 jacks each side. 2. Need engineer repair for damged trusses. 3. Need to fire block dining room top plate. 4. Need to draft stop master shower drain. 5. Need nail guard for #12 wire in master bath. Okay to side. T/S: 09/15/2009 12:33 PM DETAYLOR -----
R427 02	9/23/09	TI	FOUR TRADE ROUGH IN >2500 VRU #: 001826215

9/23/09 *TI* *DA* *DT*

COMMENTS AND NOTES

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J92881

Cav. Land / Lot 175 Woodshire

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E5450454 thru E5450454

My license renewal date for the state of North Carolina is December 31, 2009.

North Carolina COA: C-0844



September 22, 2009

Lassiter, Frank

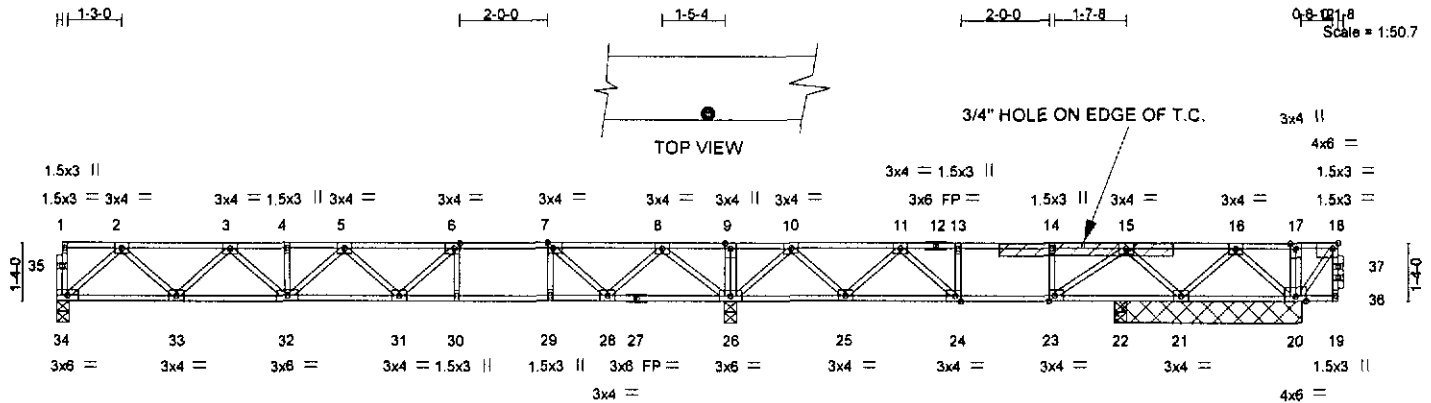
The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-2002 Chapter 2.
Engineering services provided by Truss Engineering Company.

Job J92881	Truss FT2	Truss Type FLOOR	Qty 1	Ply 1	Cav. Land / Lot 175 Woodshire Job Reference (optional)	E6450454
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Caritech, Inc., Fayetteville, NC 28309

7.140 s Aug 17 2009 MiTek Industries, Inc. Tue Sep 22 10:01:01 2009 Page 1

0-1-8



APPLY 2X4 X 4' - 0" SPF NO.2 SCAB TO ONE SIDE OF TRUSS, CENTERED ON DAMAGE, WITH CONSTRUCTION QUALITY ADHESIVE AND 1 ROW OF 10d (3" X 0.131") NAILS SPACED 3.0" O.C.

Plate Offsets (X, Y):	[6:0-1-8, Edge]	[7:0-1-8, Edge]	[18:0-1-8, Edge]	[23:0-1-8, Edge]	[24:0-1-8, Edge]
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LOADING (psf)	SPACING	1-7-3	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plates Increase	1.00	TC 0.64	Vert(LL)	-0.18 30-31	>999	480	MT20	244/190
TCDL 10.0	Lumber Increase	1.00	BC 0.73	Vert(TL)	-0.28 30-31	>656	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.39	Horz(TL)	0.02 20	n/a	n/a		
BCDL 5.0	Code IRC2003/TPI2002		(Matrix)						Weight: 154 lb

LUMBER	BRACING
TOP CHORD 4 X 2 SYP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 4 X 2 SYP 2850F 2.3E "Except"	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
19-27: 4 X 2 SYP No.1	
WEBS 4 X 2 SYP No.3	

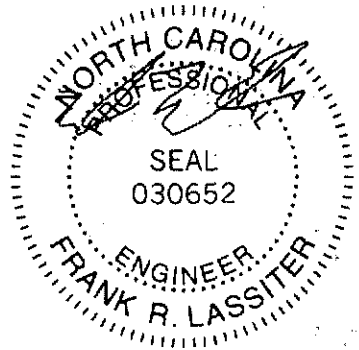
REACTIONS (lb/size) 34=605/0-3-8, 21=64/4-3-8, 26=1253/0-3-8, 20=2132/4-3-8, 22=0/0-3-8
 Max Uplift 21=183(LC 4), 22=10(LC 3)
 Max Grav 34=635(LC 5), 21=564(LC 10), 26=1258(LC 9), 20=2178(LC 4), 22=24(LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-34=28/0, 18-19=-13/0, 1-2=-1/0, 2-3=-1118/0, 3-4=-1748/0, 4-5=-1748/0, 5-6=-1890/0, 6-7=-1614/0, 7-8=-908/141, 8-9=0/808, 9-10=0/808, 10-11=-254/151, 11-13=-801/0, 13-14=-601/0, 14-15=-601/0, 15-16=0/306, 16-17=0/1154, 17-18=0/1153
 BOT CHORD 33-34=0/682, 32-33=0/1526, 31-32=0/1960, 30-31=0/1614, 29-30=0/1614, 28-29=0/1614, 26-28=-336/391, 25-26=-269/0, 24-25=-59/520, 23-24=0/601, 22-23=-14/279, 21-22=-14/279, 20-21=-598/76, 19-20=0/0
 WEBS 9-26=-123/0, 17-20=-101/0, 16-20=-812/79, 16-21=-337/530, 15-21=-572/0, 15-23=0/431, 14-23=-206/0, 10-26=-716/0, 10-25=0/438, 11-25=-405/0, 11-24=0/202, 13-24=-111/0, 18-20=-1895/0, 2-34=-906/0, 2-33=0/606, 3-33=-567/0, 3-32=0/303, 4-32=-10/6, 5-32=-287/0, 5-31=-175/21, 6-31=0/515, 6-30=-383/0, 8-26=-1034/0, 8-28=0/770, 7-28=-1038/0, 7-29=0/404

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 21 and 10 lb uplift at joint 22.
 - This truss is designed in accordance with the 2003 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Load case(s) 2, 5 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



September 22, 2009

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-7473 rev. 10-'08 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 281 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate 818 Soundside Road Edenton, NC 27932</p>
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Job J92881	Truss FT2	Truss Type FLOOR	Qty 1	Ply 1	Cav. Land / Lot 175 Woodshire Job Reference (optional)	E5450454
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Comtech, Inc., Fayetteville, NC 28309

7.140 s Aug 17 2009 MiTek Industries, Inc. Tue Sep 22 10:01:01 2009 Page 2

LOAD CASE(S) Standard

- 1) Floor: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 19-34=-8, 1-18=-80
 Concentrated Loads (lb)
 Vert: 18=-1500
- 2) 1st unbalanced Floor: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 19-34=-8, 1-15=-80, 15-18=-16
 Concentrated Loads (lb)
 Vert: 18=-409
- 5) 4th unbalanced Floor: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 19-34=-8, 1-9=-80, 9-15=-16, 15-17=-80, 17-18=-16
 Concentrated Loads (lb)
 Vert: 18=-409

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10-08 BEFORE USE.

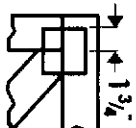
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI Quality Criteria, D58-89 and BCS Building Component Safety Information** available from Truss Plate Institute, 281 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

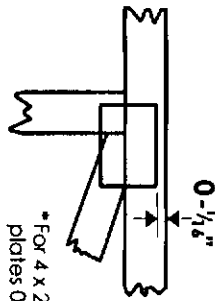
818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in 1/16-in.-sixteenths. Apply plates to both sides of truss and fully embed teeth.



*For 4 x 2 orientation, locate plates 0- $\frac{1}{8}$ " 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

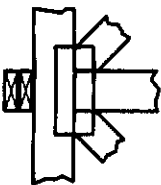
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

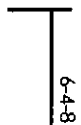


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

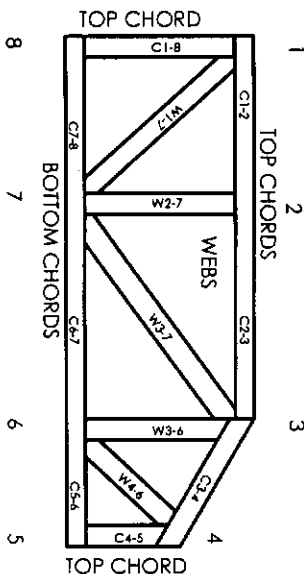
Industry Standards:

ANSI/TP1: 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



dimensions shown in 1/16-in.-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/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, ER-5243, 96048
9730, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

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MITek Engineering Reference Sheet: MIL-7473 rev. 10-08

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 T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stock 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 warps at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
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 the 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/TP1 Quality Criteria.

Application number, type 09 50022370 CP NEW RESIDENTIAL (SFD)
Property address 131 KIMBROUGH DR

Dining room wall still not fire blocked. Okay to insulate.
T/S: 09/23/2009 02:29 PM DETAYLOR -----

[Empty text area]

ADDRESS : 131 KIMBROUGH DR SUBDIV: WOODSHIRE PH 5
CONTRACTOR : CAVINESS LAND DEVELOPMENT PHONE : (919) 481-0503
OWNER : CAVINESS LAND DEVELOPMENT PHONE : (910) 481-0503
PARCEL : 01-0536-06- -0028- -15-
APPL NUMBER: 09-50022370 CP NEW RESIDENTIAL (SFD)
DIRECTIONS : WOODSHIRE #175
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ROAD, GO APPROX 3MI. T/L ON WOOD POINT,
GO APPROX 0.3MI, T/R ON KIMBROUGH.
T/S: 06/29/2009 11:17 AM RDCONTE ---

STRUCTURE: 000 000 41X57 SLAB 4BD/2.5BA W/GAR NO DECK

FLOOD ZONE : FLOOD ZONE X
BEDROOMS : 4000000.00 PROPOSED USE : SFD
SEPTIC - EXISTING? : NEW TANK WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

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	8/05/09	AP	
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A814 01	8/13/09	TW	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001806497
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	9/15/09	DA	1. Trip joist in garage must have 4 jacks each side. 2. Need engineer repair for damged trusses. 3. Need to fire block dining room top plate. 4. Need to draft stop master shower drain. 5. Need nail guard for #12 wire in master bath. Okay to side. T/S: 09/15/2009 12:33 PM DETAYLOR -----
R427 02	9/23/09	DT	FOUR TRADE ROUGH IN >2500 VRU #: 001826215
	9/23/09	DA	Dining room wall still not fire blocked. Okay to insulate. T/S: 09/23/2009 02:29 PM DETAYLOR -----
I129 01	9/28/09	TI	R*INSULATION INSPECTION VRU #: 001827866
	9/28/09	DA	
R427 03	9/28/09	TI	FOUR TRADE ROUGH IN >2500 VRU #: 001827857
	9/28/09	DA	

COMMENTS AND NOTES