

RE: MICH2 -

Trenco

818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: Michael Toundas Project Name:
Lot/Block: Subdivision:
Address: 1013 SW SCRUBTOWN RD
City: FORT WHITE State: FLORIDA

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2004/TPI2002 Design Program: MiTek 20/20 6.5
Wind Code: ASCE 7-02 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 40.0 psf

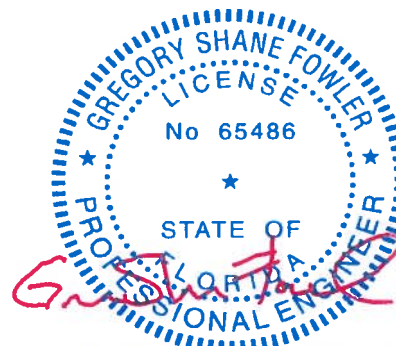
This package includes 2 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.
This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

No.	Seal#	Truss Name	Date
1	E4402578	A1	9/24/07
2	E4402579	AET	9/24/07

The truss drawing(s) referenced above have been prepared by
TRENCO under my direct supervision based on the parameters
provided by Santa Fe Truss.

Truss Design Engineer's Name: Fowler, Shane
My license renewal date for the state of is February 28, 2009.

NOTE: 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-1 Chapter 2.



Gregory Shane Fowler, FL Lic #65486
Truss Engineering Company
818 Soundside Road
Edenton, NC 27932
FL Cert. #7239

September 24, 2007

Fowler, Shane

Job	Truss	Truss Type	Qty	Ply	
MICH2	A1	FINK	9	1	

E4402578

SANTA FE TRUSS, HIGH SPRINGS, FL

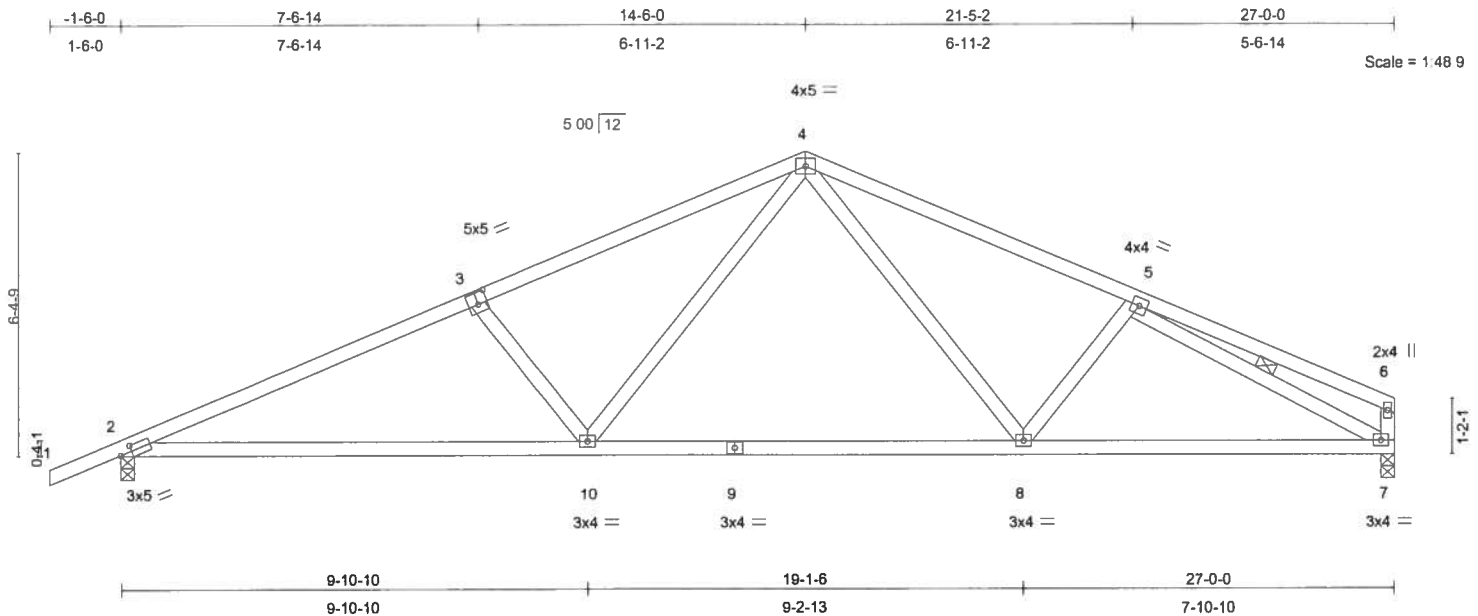
Job Reference (optional)
6 500 s Apr 2 2007 MiTek Industries, Inc Mon Sep 24 07 54 55 2007 Page 1

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

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.36	Vert(LL)	-0.15 2-10	>999	240	MT20	244/190
TCOL 10.0	Lumber Increase 1.25	BC 0.44	Vert(TL)	-0.45 2-10	>717	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(TL)	0.06 7	n/a	n/a		
BCOL 10.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 129 lb	

LUMBER

TOP CHORD 2 X 4 SYP 2400F 2.0E *Except*
3-4 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS (lb/size) 2=1170/0-3-8, 7=1065/0-3-8
Max Horz 2=120(LC 5)
Max Uplift 2=188(LC 5), 7=-108(LC 6)

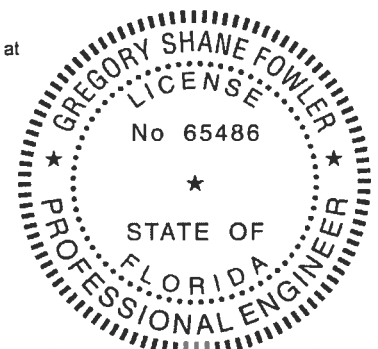
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/33, 2-3=-2100/234, 3-4=-1826/215, 4-5=-1609/191, 5-6=-34/79
BOT CHORD 2-10=-240/1859, 9-10=-85/1191, 8-9=-85/1191, 7-8=-143/1496
WEBS 3-10=-439/189, 4-10=-70/711, 4-8=-45/428, 5-8=-200/163, 6-7=-120/53, 5-7=-1738/167

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCCL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2 and 108 lb uplift at joint 7.

LOAD CASE(S) Standard



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September 24, 2007

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

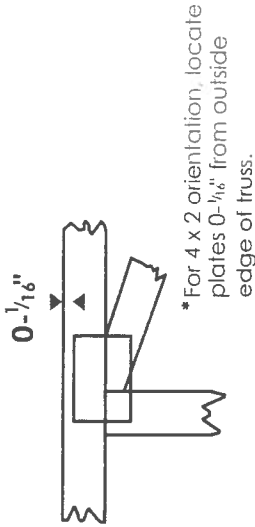
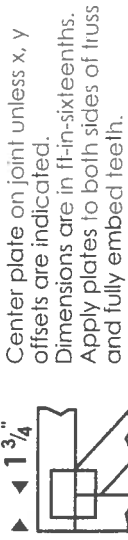
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral 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 BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

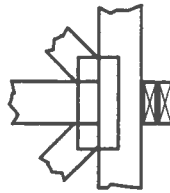
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

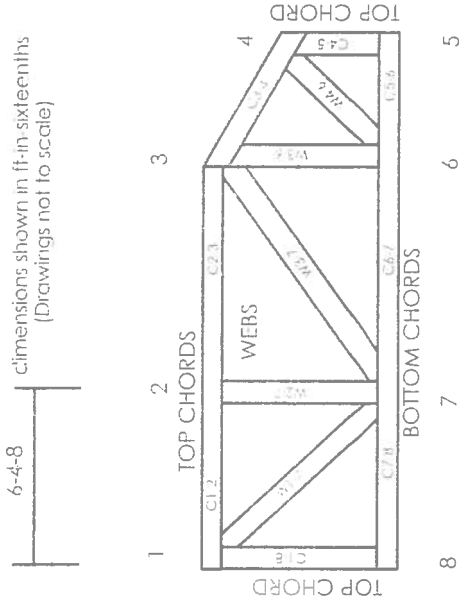


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

- ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSII: 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, ESR-5243, 9604B
- 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: MI-7473

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 BCSII.
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 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 lightly 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.

Job	Truss	Truss Type	Qty	Ply	
MICH2	AET	GABLE	1	1	E4402579
Job Reference (optional)					

SANTA FE TRUSS, HIGH SPRINGS, FL

6 500 s Apr 2 2007 MiTek Industries, Inc. Mon Sep 24 07 54 57 2007 Page 1

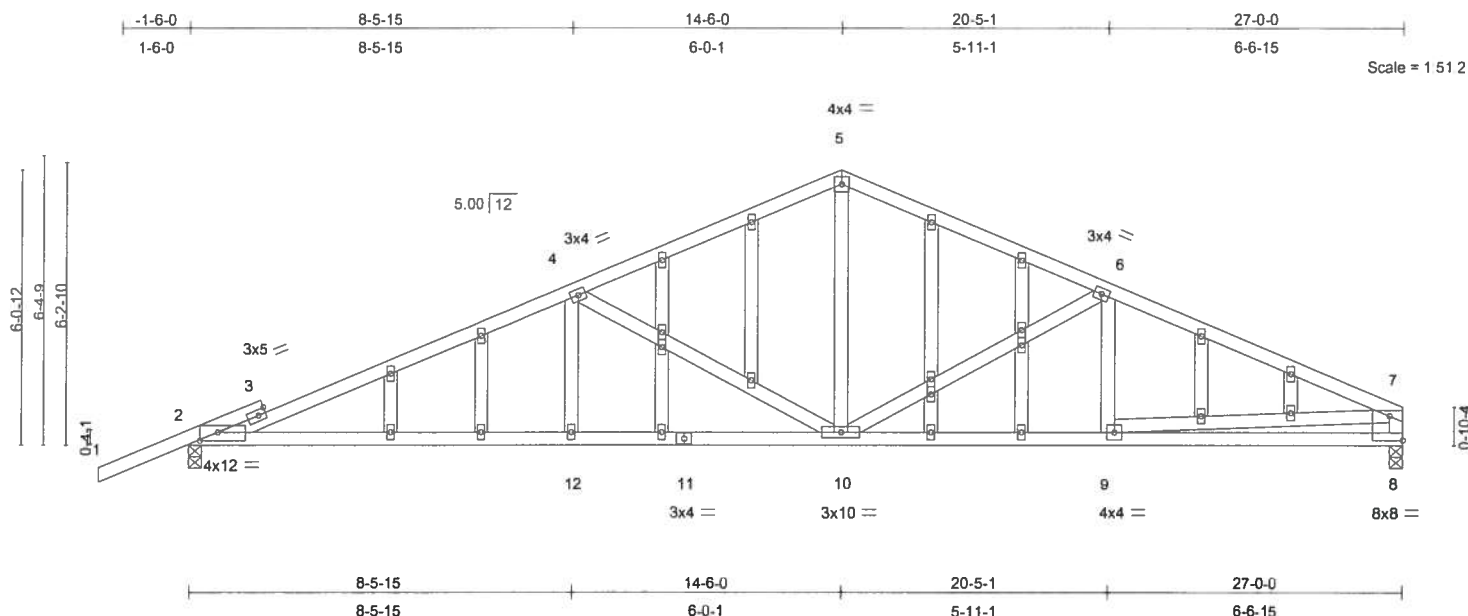


Plate Offsets (X,Y): [2:0-4-12,0-2-4], [8:Edge,0-6-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.68	Vert(LL)	-0.17	2-12	>999	240	MT20	244/190
TCDL 10.0	Lumber Increase	1.25	BC 0.50	Vert(TL)	-0.50	2-12	>640	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.71	Horz(TL)	0.06	8	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 167 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2D
 BOT CHORD 2 X 4 SYP 2400F 2.0E
 WEBS 2 X 4 SYP No.3 *Except*
 7-8 2 X 4 SYP No.2
 OTHERS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 2=1202/0-3-8, 8=1063/0-3-8
 Max Horz 2=107(LC 5)
 Max Uplift 2=-212(LC 5), 8=-108(LC 6)

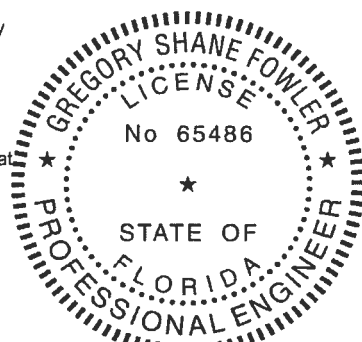
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-2221/175, 3-4=-2183/213, 4-5=-1438/167, 5-6=-1425/170, 6-7=-1854/188, 7-8=-986/139
 BOT CHORD 2-12=-197/2015, 11-12=-197/2015, 10-11=-197/2015, 9-10=-106/1640, 8-9=-86/572
 WEBS 4-12=0/346, 4-10=-873/163, 5-10=-30/729, 6-10=-492/133, 6-9=0/166, 7-9=-43/1073

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 108 lb uplift at joint 8.

LOAD CASE(S) Standard



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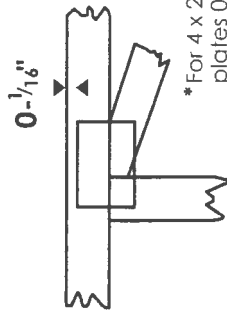
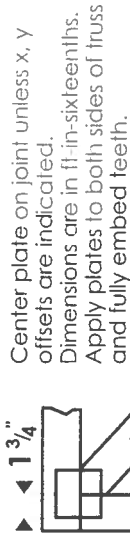
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ENGINEERING BY
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 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



* 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

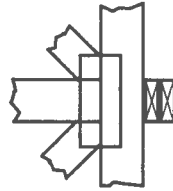
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BEARING

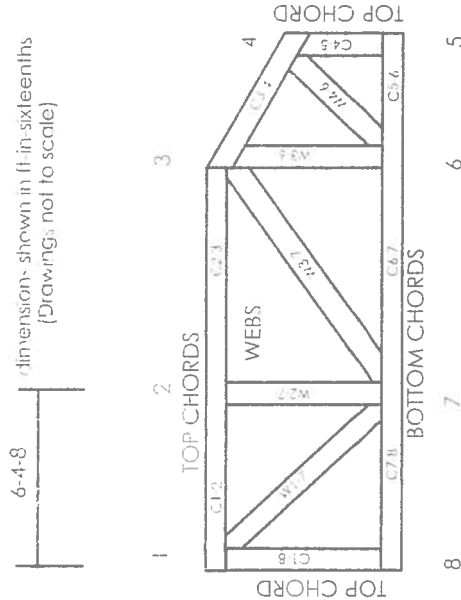


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NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

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