



RE: RSNKLEIN - RON KLEIN

**MiTek Industries, Inc.**

1801 Massaro Blvd.  
Tampa, FL 33619  
Phone: 813/675-1200  
Fax: 813/675-1148

**Site Information:**

Project Customer:      Project Name:  
Lot/Block:                      Subdivision:  
Address:  
City:                              State:

**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 6.2  
Wind Code: ASCE 7/02      Wind Speed: 150 mph      Design Method: User defined  
Roof Load: 40 psf, nonconcurrent BCLL=10 psf      Floor Load: N/A psf

This package includes 37 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.

No.	Seal#	Job ID#	Truss Name	Date	No.	Seal#	Job ID#	Truss Name	Date
1	T1986418	RSNKLEIN	A1	1/24/06	17	T1986434	RSNKLEIN	A7A	1/24/06
2	T1986419	RSNKLEIN	A10	1/24/06	18	T1986435	RSNKLEIN	A8	1/24/06
3	T1986420	RSNKLEIN	A11	1/24/06	19	T1986436	RSNKLEIN	A8A	1/24/06
4	T1986421	RSNKLEIN	A12	1/24/06	20	T1986437	RSNKLEIN	A9	1/24/06
5	T1986422	RSNKLEIN	A1A	1/24/06	21	T1986438	RSNKLEIN	A9A	1/24/06
6	T1986423	RSNKLEIN	A2	1/24/06	22	T1986439	RSNKLEIN	B1	1/24/06
7	T1986424	RSNKLEIN	A2A	1/24/06	23	T1986440	RSNKLEIN	B2	1/24/06
8	T1986425	RSNKLEIN	A3	1/24/06	24	T1986441	RSNKLEIN	B3	1/24/06
9	T1986426	RSNKLEIN	A3A	1/24/06	25	T1986442	RSNKLEIN	C1	1/24/06
10	T1986427	RSNKLEIN	A4	1/24/06	26	T1986443	RSNKLEIN	CGT	1/24/06
11	T1986428	RSNKLEIN	A4A	1/24/06	27	T1986444	RSNKLEIN	CJ1	1/24/06
12	T1986429	RSNKLEIN	A5	1/24/06	28	T1986445	RSNKLEIN	CJ2	1/24/06
13	T1986430	RSNKLEIN	A5A	1/24/06	29	T1986446	RSNKLEIN	EJ3	1/24/06
14	T1986431	RSNKLEIN	A6	1/24/06	30	T1986447	RSNKLEIN	EJ7	1/24/06
15	T1986432	RSNKLEIN	A6A	1/24/06	31	T1986448	RSNKLEIN	EJ7A	1/24/06
16	T1986433	RSNKLEIN	A7	1/24/06	32	T1986449	RSNKLEIN	EJ7B	1/24/06

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

Truss Design Engineer's Name: Zhang, Guo-jie  
My license renewal date for the state of is February 28, 2007.

**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 Sec. 2.

Guo-Jie Zhang, FL Lic #47744  
MiTek Industries, Inc.  
1801 Massaro Blvd  
Tampa FL 33619  
FL Cert.#6634

January 24, 2006



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Phone: 813/675-1200

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Project Customer:      Project Name:

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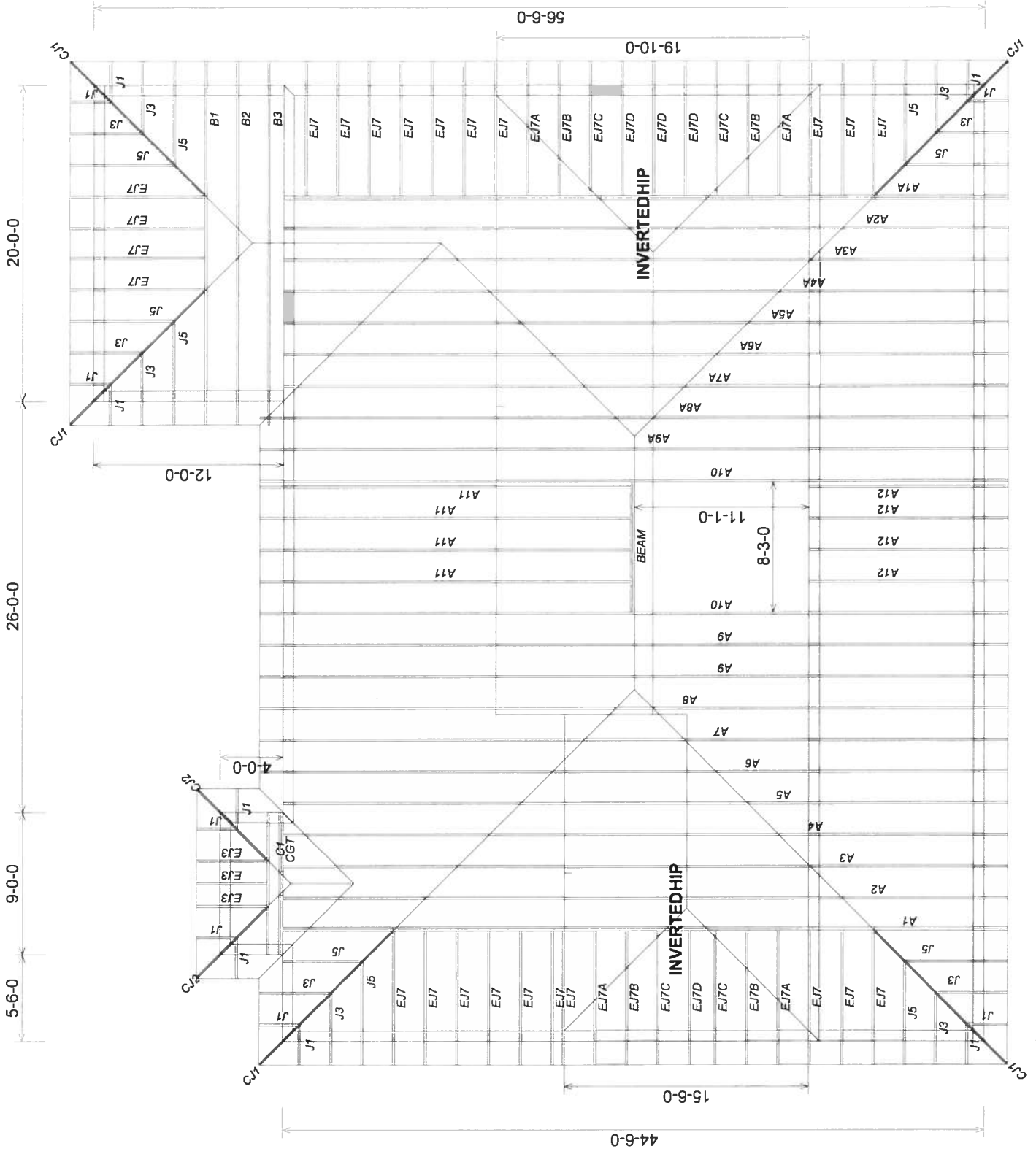
Subdivision:

Address:

City:

State:

No.	Seal#	Job ID#	Truss Name	Date
33	T1986450	RSNKLEIN	EJ7C	1/24/06
34	T1986451	RSNKLEIN	EJ7D	1/24/06
35	T1986452	RSNKLEIN	J1	1/24/06
36	T1986453	RSNKLEIN	J3	1/24/06
37	T1986454	RSNKLEIN	J5	1/24/06



Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986418
RSNKLEIN	A1	SPECIAL	1	2	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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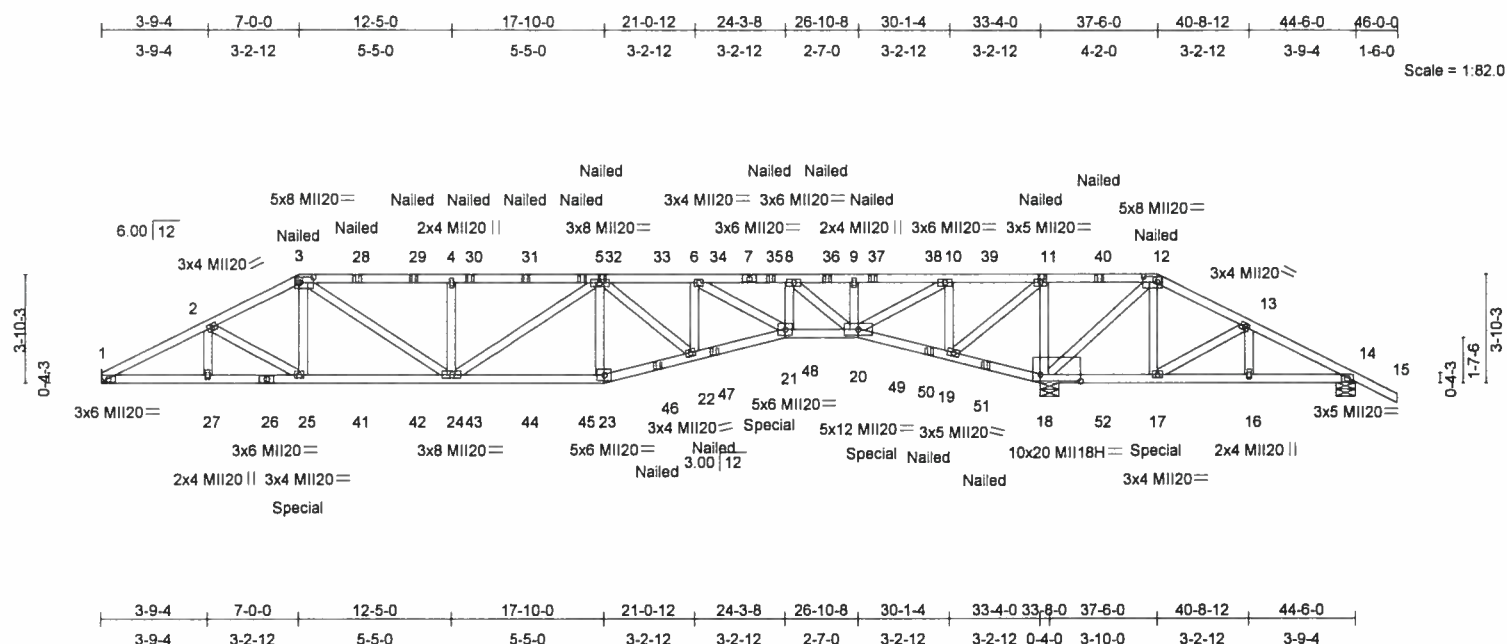


Plate Offsets (X,Y): [3:0-6:0,0-2:8], [12:0-6:0,0-2:8], [18:1-5:0,0-2:12]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.64	Vert(LL)	0.42 23-24	>956	240	MII20	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.70	Vert(TL)	-0.37 23-24	>999	180	MII18H	195/188
BCLL 10.0 *	Rep Stress Incr NO	WB 0.61	Horz(TL)	-0.10 18	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 483 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 5-9-13 oc bracing.

#### REACTIONS (lb/size) 1=2094/Mechanical, 18=6172/0-8-0, 14=943/0-8-0

Max Horz 1=-224(load case 6)  
Max Uplift 1=-2447(load case 5), 18=-7116(load case 4), 14=-1185(load case 9)  
Max Grav 1=2096(load case 9), 18=6172(load case 1), 14=1392(load case 4)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-4236/4932, 2-3=-4068/4879, 3-28=-4615/5611, 28-29=-4615/5611, 4-29=-4615/5611, 4-30=-4615/5612, 30-31=-4615/5612, 31-32=-4615/5612, 5-32=-4615/5612, 5-33=-3955/4769, 6-33=-3955/4769, 6-34=-2786/3281, 7-34=-2786/3281, 7-35=-2786/3281, 8-35=-2786/3281, 8-36=-176/215, 9-36=-176/215, 9-37=-176/215, 37-38=-176/215, 10-38=-176/215, 10-39=-3492/3085, 11-39=-3492/3085, 11-40=-5894/5189, 12-40=-5894/5189, 12-13=-3263/2863, 13-14=-3166/2616, 14-15=0/40  
BOT CHORD 1-27=-4335/3710, 26-27=-4335/3710, 25-26=-4335/3710, 25-41=-4204/3652, 41-42=-4204/3652, 24-42=-4204/3652, 24-43=-4928/4164, 43-44=-4928/4164, 44-45=-4928/4164, 23-45=-4928/4164, 23-46=-5020/4240, 22-46=-5078/4296, 22-47=-4724/4042, 47-48=-4735/4076, 21-48=-4762/4120, 20-21=-2956/2645, 20-49=-3133/3746, 49-50=-3172/3771, 19-50=-3210/3782, 19-51=-5414/6332, 18-51=-5470/6388, 18-52=-2519/3022, 17-52=-2519/3022, 16-17=-2264/2845, 14-16=-2264/2845  
WEBS 2-27=-4/119, 2-25=-201/209, 3-25=-781/766, 3-24=-1574/1223, 4-24=-393/684, 5-24=-693/548, 5-23=-473/650, 5-22=-252/471, 6-22=-559/462, 6-21=-1375/1764, 8-21=-2097/1892, 8-20=-3271/3855, 9-20=-247/422, 10-20=-4241/3710, 10-19=-2098/2532, 11-19=-3230/2825, 11-18=-2105/2544, 12-18=-3577/4035, 12-17=-777/777, 13-17=-450/519, 13-16=0/154

#### NOTES

- 2-ply truss to be connected together with 0.131"x3" Nails as follows:  
Top chords connected as follows: 2 X 4 - 1 row at 0-7-0 oc.  
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.  
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- Provide adequate drainage to prevent water ponding.
- \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All plates are MT20 plates unless otherwise indicated.

Continued on page 2

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FL Cert.#6634

January 24, 2006

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1801 Massaro Blvd.  
Tampa, FL 33619





Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986419
RSNKLEIN	A10	SPECIAL	2	1		

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

Job Reference (optional)

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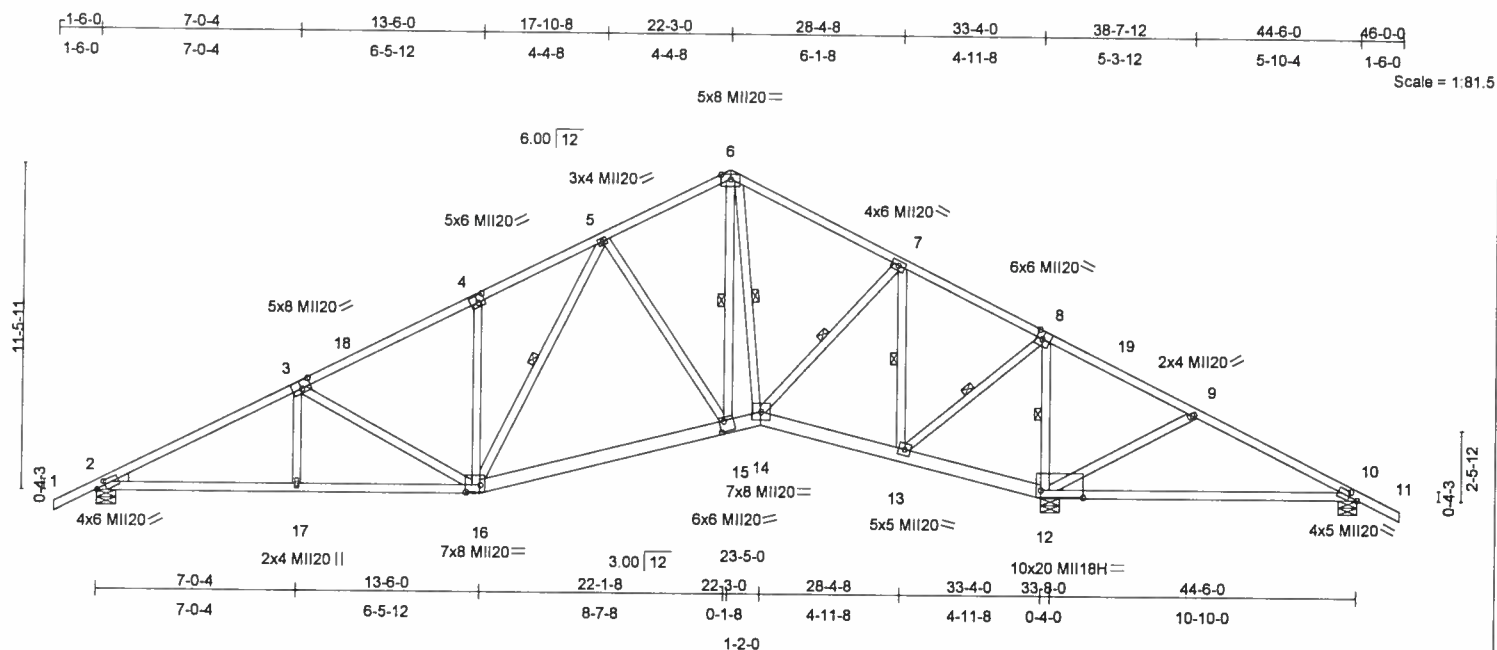


Plate Offsets (X,Y): [2:0-3-14,0-1-12], [3:0-4-0,0-3-4], [4:0-3-0,0-3-0], [8:0-2-8,0-3-4], [10:0-3-10,0-2-0], [12:1-6-0,0-3-0], [15:0-2-0,0-4-8], [16:0-6-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.95	Vert(LL)	-0.20 10-12	>640	240	MI120	249/190
TCDL 10.0	Lumber Increase	1.25	BC 0.70	Vert(TL)	-0.50 10-12	>260	180	MI18H	195/188
BCLL 10.0 *	Rep Stress Incr	NO	WB 0.90	Horz(TL)	0.13 12	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 286 lb	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D *Except*	TOP CHORD Structural wood sheathing directly applied or 3-5-9 oc purlins.
1-3 2 X 4 SYP SS	BOT CHORD Rigid ceiling directly applied or 3-9-10 oc bracing.
BOT CHORD 2 X 4 SYP No.2D *Except*	WEBS 1 Row at midpt 5-16, 6-15, 6-14, 7-14, 7-13, 8-13, 8-12
14-16 2 X 6 SYP No.2, 12-14 2 X 6 SYP No.2	
WEBS 2 X 4 SYP No.3	
WEDGE	
Left: 2 X 4 SYP No.3	

**REACTIONS** (lb/size) 2=1893/0-8-0, 12=3928/0-8-0, 10=-94/0-8-0  
 Max Horz 2=362(load case 4)  
 Max Uplift 2=-1959(load case 5), 12=-3474(load case 6), 10=-315(load case 9)  
 Max Grav 2=1893(load case 1), 12=3928(load case 1), 10=185(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/40, 2-3=-3373/3041, 3-18=-2850/2687, 4-18=-2762/2711, 4-5=-2827/2925, 5-6=-2545/2637, 6-7=-2553/2596,  
 7-8=-1099/1180, 8-19=-1116/1392, 9-19=-1131/1262, 9-10=-843/1037, 10-11=0/40  
 BOT CHORD 2-17=-2583/2902, 16-17=-2584/2899, 15-16=-1894/2488, 14-15=-1730/2383, 13-14=-507/977, 12-13=-1292/1542,  
 10-12=-878/881  
 WEBS 3-17=0/262, 3-16=-499/704, 4-16=-325/451, 5-16=-311/181, 5-15=-338/479, 6-15=-2120/2084, 6-14=-203/195,  
 7-14=-1587/1908, 7-13=-2388/2177, 8-13=-2455/2815, 8-12=-3172/2933, 9-12=-446/758

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCCL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1959 lb uplift at joint 2, 3474 lb uplift at joint 12 and 315 lb uplift at joint 10.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2000 lb down and 2199 lb up at 22-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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 MiTek Industries, Inc.  
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 Tampa FL 33619  
 FL Cert.#6634

Continued on page 2

January 24, 2006

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1801 Massaro Blvd.  
 Tampa, FL 33619



Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986418
RSNKLEIN	A1	SPECIAL	1	2	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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#### NOTES

- 8) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2447 lb uplift at joint 1, 7116 lb uplift at joint 18 and 1185 lb uplift at joint 14.
- 11) Uplift for first LC exceeds limits
- 12) "Nailed" indicates 3-10d or 3-12d common wire toe-nails.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 31 lb up at 19-9-4, 81 lb down and 202 lb up at 21-9-4, and 81 lb down and 202 lb up at 29-4-12, and 29 lb down and 31 lb up at 31-4-12 on top chord, and 440 lb down and 508 lb up at 7-0-0, 154 lb down and 193 lb up at 9-0-12, 154 lb down and 193 lb up at 11-0-12, 154 lb down and 193 lb up at 13-0-12, 154 lb down and 193 lb up at 15-0-12, 154 lb down and 193 lb up at 17-0-12, 154 lb down and 193 lb up at 17-10-0, 214 lb down and 112 lb up at 23-9-4, 214 lb down and 112 lb up at 27-4-12, 154 lb down and 193 lb up at 33-4-0, and 154 lb down and 193 lb up at 35-5-4, and 440 lb down and 508 lb up at 37-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-3=-60, 3-12=-60, 12-15=-60, 1-23=-20, 21-23=-20, 20-21=-20, 18-20=-20, 14-18=-20

##### Concentrated Loads (lb)

Vert: 3=-114(F) 12=-114(F) 23=-154(F) 18=-154(F) 25=-440(F) 5=-23(F) 11=-23(F) 17=-440(F) 28=-23(F) 29=-23(F) 30=-23(F) 31=-23(F) 32=-23(F) 33=12(F) 34=-81(F) 35=-45(F) 36=-31(F) 37=-45(F) 38=-81(F) 39=12(F) 40=-23(F) 41=-154(F) 42=-154(F) 43=-154(F) 44=-154(F) 45=-154(F) 46=-171(F) 47=-109(F) 48=-170(F) 49=-170(F) 50=-109(F) 51=-171(F) 52=-154(F)

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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986419
RSNKLEIN	A10	SPECIAL	2	1	Job Reference (optional)	
SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY			6 200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09 28 04 2006 Page 2			

# **LOAD CASE(S) Standard**

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-60, 6-11=-60, 2-16=-20, 14-16=-20, 12-14=-20, 10-12=-20

Concentrated Loads (lb)

Vert: 15=-2000(B)

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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986420
RSNKLEIN	A11	SPECIAL	4	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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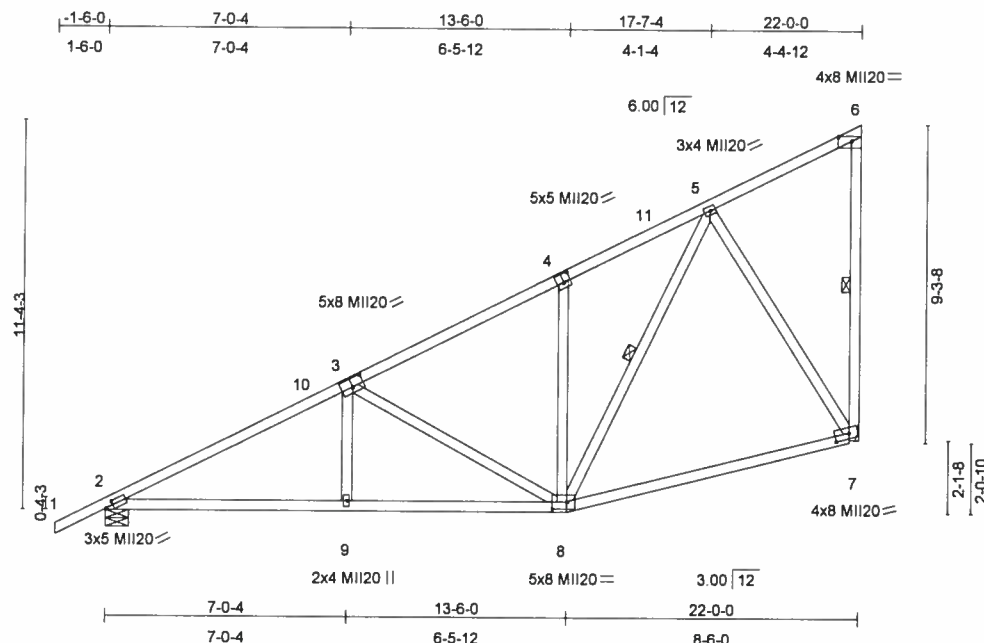


Plate Offsets (X,Y): [2:0-2-10,0-1-8], [3:0-4-0,0-3-0], [4:0-2-8,0-3-0], [6:0-4-8,Edge], [7:0-5-0,0-2-0], [8:0-5-4,0-2-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.95	Vert(LL)	0.17	7-8	>999	240	MI120	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.52	Vert(TL)	-0.30	7-8	>854	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.76	Horz(TL)	-0.02	7	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 136 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D  
WEBS 2 X 4 SYP No.3  
OTHERS 2 X 4 SYP No.3

#### BRACING

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

**REACTIONS** (lb/size) 2=976/0-8-0, 7=856/Mechanical  
Max Horz 2=1151 (load case 4)  
Max Uplift 2=956 (load case 5), 7=861 (load case 6)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-10=-1426/892, 3-10=-1255/908, 3-4=-862/608, 4-11=-829/797, 5-11=-725/814, 5-6=-271/225, 6-7=-110/194  
BOT CHORD 2-9=-1132/1183, 8-9=-1132/1180, 7-8=-549/405  
WEBS 3-9=0/257, 3-8=-565/650, 4-8=-303/446, 5-8=-746/720, 5-7=-676/811

#### NOTES

- 1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 956 lb uplift at joint 2 and 861 lb uplift at joint 7.

**LOAD CASE(S)** Standard

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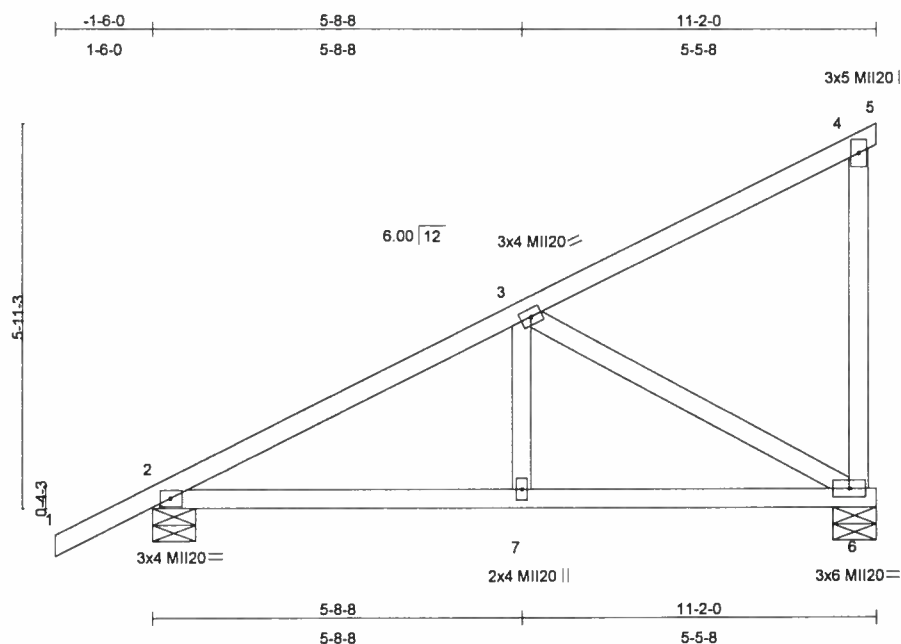




Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986421
RSNKLEIN	A12	MONO TRUSS	4	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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Scale = 1:35.6

Plate Offsets (X,Y): [2-0-1-12,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.49	Vert(LL)	0.03	2-7	>999	240	MI20	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.19	Vert(TL)	-0.05	2-7	>999	180		
BCLL 10.0 *	Rep Stress Incr YES	WB 0.30	Horz(TL)	-0.01	6	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 58 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 8-11-9 oc bracing.
WEBS 2 X 4 SYP No.3	

**REACTIONS** (lb/size) 6=418/0-8-0, 2=542/0-8-0  
Max Horz 2=647(load case 4)  
Max Uplift 6=-407(load case 4), 2=-661(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/40, 2-3=-572/354, 3-4=-213/136, 4-5=-2/0, 4-6=-133/212  
BOT CHORD 2-7=-484/442, 6-7=-484/442  
WEBS 3-7=0/238, 3-6=-483/560

**NOTES**  
1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.  
2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.  
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 407 lb uplift at joint 6 and 661 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
MiTek Industries, Inc.  
1801 Massaro Blvd  
Tampa FL 33619  
FL Cert.#6634

January 24, 2006

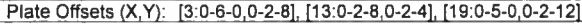
**WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.**

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<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	

**FORCES (lb) - Maximum Compression/Maximum Tension**

<b>TOP CHORD</b>	1-2=-2481/2597, 2-29=-2283/2496, 3-29=-2205/2505, 3-30=-2568/2996, 30-31=-2568/2996, 4-31=-2567/2996, 4-32=-2568/2997, 5-32=-2568/2997, 5-33=-3748/4378, 6-33=-3748/4378, 6-34=-4309/4979, 34-35=-4309/4979, 7-35=-4309/4979, 7-36=-2446/2925, 8-36=-2446/2925, 8-9=-2446/2925, 9-37=-2446/2925, 10-37=-2446/2925, 10-38=-257/327, 38-39=-257/327, 11-39=-257/327, 11-40=-3060/2810, 12-40=-3060/2810, 12-41=-2431/2222, 13-41=-2431/2222, 13-42=-2666/2434, 14-42=-2679/2408, 14-15=-2598/1297, 15-16=0/40
<b>BOT CHORD</b>	1-28=-2214/2122, 27-28=-2214/2122, 26-27=-2127/2013, 25-26=-3237/2887, 25-43=-3288/2940, 24-43=-3345/2988, 24-44=-4313/3824, 44-45=-4324/3860, 23-45=-4351/3902, 22-23=-4759/4249, 22-46=-190/466, 21-46=-190/466, 21-47=-2845/3302, 47-48=-2896/3327, 20-48=-2926/3340, 20-49=-4758/5438, 19-49=-4809/5494, 19-50=-4470/5110, 18-50=-4470/5110, 17-18=-1898/2348, 15-17=-1898/2348
<b>WEBS</b>	2-28=0/129, 2-27=-132/267, 3-27=-129/197, 3-26=-1113/878, 4-26=-219/388, 5-26=-529/681, 5-25=-576/710, 5-24=-1292/1149, 6-24=-620/812, 6-23=-702/666, 7-23=-704/797, 7-22=-2094/2320, 9-22=-235/402, 10-22=-3491/3029, 10-21=-1839/2288, 11-21=-3270/2902, 11-20=-1725/2073, 12-20=-2863/2350, 12-19=-3910/4498, 12-18=-3444/3122, 13-18=-1356/1699, 14-18=-432/489, 14-17=0/151

- 1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:  
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.  
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-02; 150mph (3-second gust);  $h=18ft$ ; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; and vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 5) Provide adequate drainage to prevent water ponding.
- 6) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.

January 24, 2006

Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986422
RSNKLEIN	A1A	SPECIAL	1	2	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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#### NOTES

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1404 lb uplift at joint 1, 6283 lb uplift at joint 19 and 980 lb uplift at joint 15.
- 10) "Nailed" indicates 3-10d or 3-12d common wire toe-nails.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 31 lb up at 15-5-4, 81 lb down and 202 lb up at 17-5-4, and 81 lb down and 202 lb up at 29-4-12, and 29 lb down and 31 lb up at 31-4-12 on top chord, and 214 lb down and 112 lb up at 19-5-4, 135 lb down and 164 lb up at 23-5-4, 135 lb down and 164 lb up at 25-5-4, 214 lb down and 112 lb up at 27-4-12, 154 lb down and 193 lb up at 33-4-0, and 154 lb down and 193 lb up at 35-5-4, and 440 lb down and 508 lb up at 37-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-3=-60, 3-13=-60, 13-16=-60, 1-25=-20, 23-25=-20, 21-23=-20, 19-21=-20, 15-19=-20

##### Concentrated Loads (lb)

Vert: 13=-114(B) 19=-154(B) 5=-23(B) 9=-31(B) 22=-135(B) 12=-23(B) 18=-440(B) 30=-23(B) 31=-23(B) 32=-23(B) 33=12(B) 34=-81(B) 35=-45(B) 36=-31(B) 37=-31(B) 38=-45(B) 39=-81(B) 40=12(B) 41=-23(B) 43=-171(B) 44=-109(B) 45=-170(B) 46=-135(B) 47=-170(B) 48=-109(B) 49=-171(B) 50=-154(B)

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Tampa, FL 33619



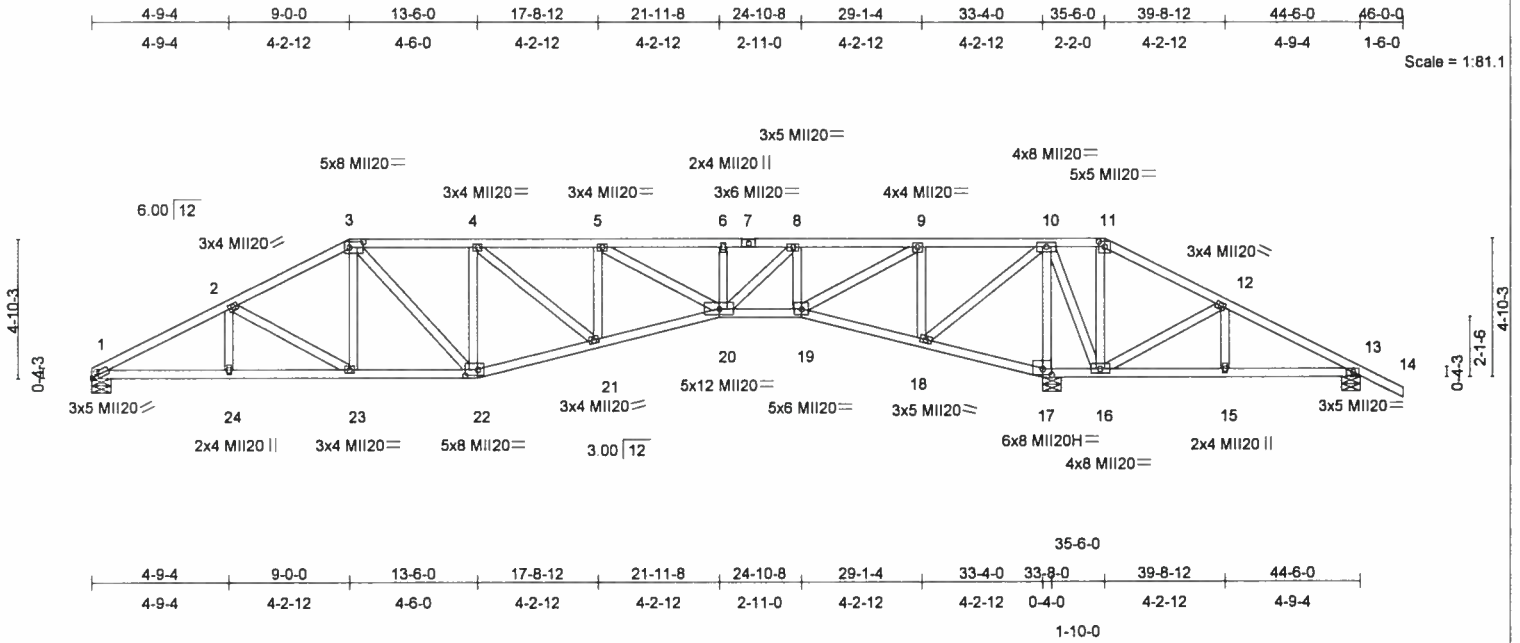




Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986424
RSNKLEIN	A2A	SPECIAL	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.48	Vert(LL)	0.29 20-21	>999	240	MI20	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.41	Vert(TL)	-0.29 20-21	>999	180	MI20H	187/143
BCLL 10.0 *	Rep Stress Incr YES	WB 0.86	Horz(TL)	0.10 17	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 250 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 4-5-1 oc bracing.
WEBS 2 X 4 SYP No.3	

**REACTIONS** (lb/size) 1=1044/0-8-0, 17=2859/0-8-0, 13=-287/0-8-0  
 Max Horz 1=-257(load case 6)  
 Max Uplift 1=953(load case 5), 17=-2714(load case 4), 13=-561(load case 9)  
 Max Grav 1=1049(load case 9), 17=2859(load case 1), 13=614(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-1927/1673, 2-3=-1577/1516, 3-4=-1540/1686, 4-5=-1792/1974, 5-6=-1608/1799, 6-7=-1608/1799, 7-8=-1608/1799,  
 8-9=-698/869, 9-10=-673/841, 10-11=-1489/1513, 11-12=-1678/1673, 12-13=-1621/1414, 13-14=0/40  
 BOT CHORD 1-24=-1444/1640, 23-24=-1444/1640, 22-23=-1223/1367, 21-22=-1515/1582, 20-21=-1829/1850, 19-20=-737/758,  
 18-19=-877/915, 17-18=-2063/2160, 16-17=-1916/2016, 15-16=-1218/1509, 13-15=-1218/1509  
 WEBS 2-24=0/185, 2-23=-321/542, 3-23=-216/294, 3-22=-494/337, 4-22=-494/692, 4-21=-407/365, 5-21=-193/362, 5-20=-230/311,  
 6-20=-198/325, 8-20=-1178/1168, 8-19=-998/1131, 9-19=-1780/1734, 9-18=-1139/1340, 10-18=-1551/1474,  
 10-17=-2232/2161, 10-16=-960/1166, 11-16=-846/802, 12-16=-490/578, 12-15=0/210

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCCL=5.0psf; BCCL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) All plates are MT20 plates unless otherwise indicated.
  - 6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 953 lb uplift at joint 1, 2714 lb uplift at joint 17 and 561 lb uplift at joint 13.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
 MiTek Industries, Inc.  
 1801 Massaro Blvd  
 Tampa FL 33619  
 FL Cert.#6634

January 24, 2006

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1801 Massaro Blvd.  
 Tampa, FL 33619





Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986425
RSNKLEIN	A3	SPECIAL	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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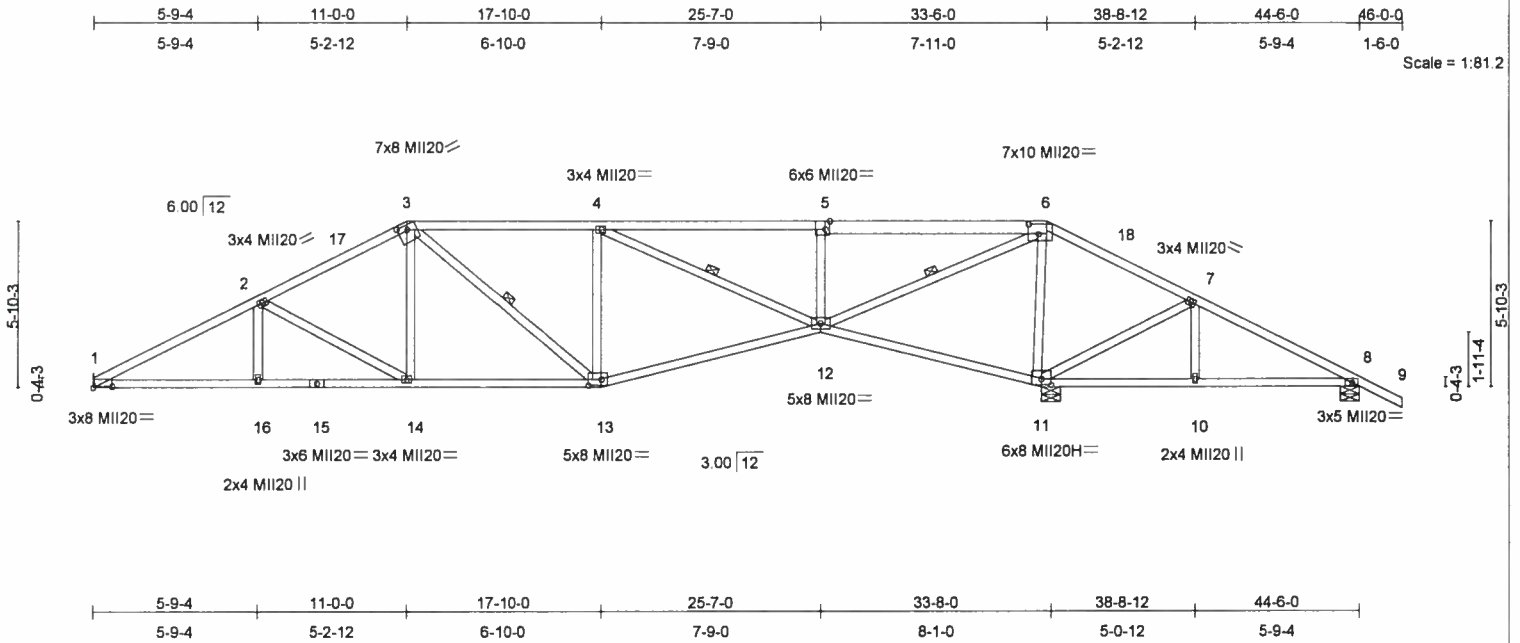


Plate Offsets (X,Y): [1:0-8-0,0-0-6], [3:0-4-0,0-1-15], [5:0-2-0,Edge], [6:0-4-0,0-4-4], [11:0-4-0,0-2-8], [13:0-5-4,0-2-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.74	Vert(LL) 0.22	12-13	>999	240	MI20	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.45	Vert(TL) -0.27	12-13	>999	180	MI20H	187/143
BCLL 10.0 *	Rep Stress Incr YES	WB 0.99	Horz(TL) 0.08	11	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 237 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2D *Except*	TOP CHORD Structural wood sheathing directly applied or 4-3-5 oc purlins.
5-6 2 X 6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 4-10-2 oc bracing.
BOT CHORD 2 X 4 SYP No.2D	WEBS 1 Row at midpt 3-13, 4-12, 6-12
WEBS 2 X 4 SYP No.3	

**REACTIONS** (lb/size) 1=1105/Mechanical, 8=-106/0-8-0, 11=2639/0-8-0  
 Max Horz 1=-254(load case 6)  
 Max Uplift 1=-999(load case 5), 8=-375(load case 9), 11=-2294(load case 3)  
 Max Grav 1=1114(load case 9), 8=395(load case 4), 11=2639(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-2093/1769, 2-17=-1597/1476, 3-17=-1470/1497, 3-4=-1364/1542, 4-5=-777/987, 5-6=-797/1018, 6-18=-1204/1452,  
 7-18=-1225/1327, 7-8=-1204/1100, 8-9=0/40  
 BOT CHORD 1-16=-1519/1799, 15-16=-1519/1799, 14-15=-1519/1799, 13-14=-1189/1375, 12-13=-1343/1420, 11-12=-1408/1430,  
 10-11=-944/1156, 8-10=-944/1155  
 WEBS 2-16=0/233, 2-14=-494/745, 3-14=-289/410, 3-13=-334/129, 4-13=-229/534, 4-12=-686/673, 5-12=-511/836,  
 6-12=-2373/2301, 7-10=0/224, 6-11=-1928/1932, 7-11=-528/689

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.  
 3) Provide adequate drainage to prevent water ponding.  
 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
 5) All plates are MT20 plates unless otherwise indicated.  
 6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.  
 7) Refer to girder(s) for truss to truss connections.  
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 999 lb uplift at joint 1, 375 lb uplift at joint 8 and 2294 lb uplift at joint 11.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
 MiTek Industries, Inc.  
 1801 Massaro Blvd  
 Tampa FL 33619  
 FL Cert.#5634

January 24, 2006

**WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.**

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1801 Massaro Blvd.  
 Tampa, FL 33619



Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986426
RSNKLEIN	A3A	SPECIAL	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

6.200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09:28:13 2006 Page 1

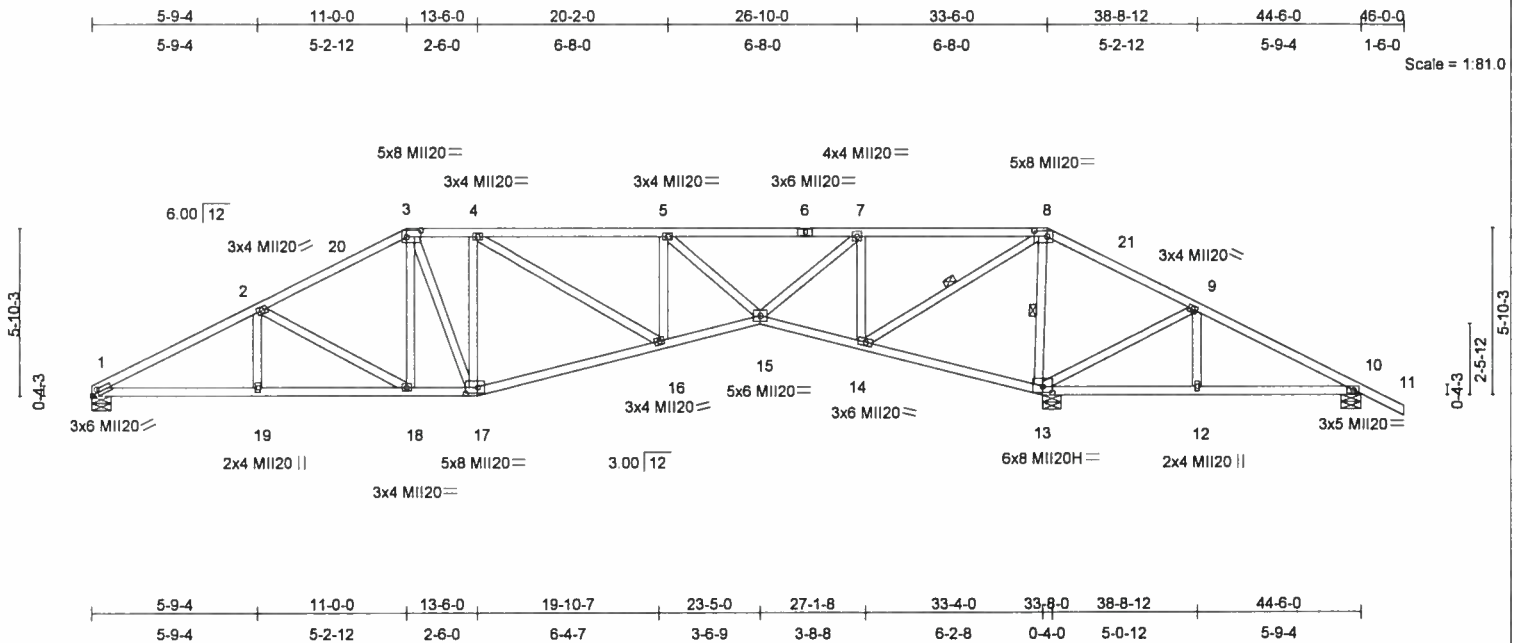


Plate Offsets (X,Y): [1:0-2-10,0-1-8], [3:0-6-0,0-2-8], [8:0-5-8,0-2-4], [13:0-4-0,0-2-8], [17:0-5-4,0-2-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.67	Vert(LL)	0.23	16	>999	240	MII20	249/190
TCDL 10.0	Lumber Increase	1.25	BC 0.40	Vert(TL)	-0.27	16-17	>999	180	MII20H	187/143
BCLL 10.0	Rep Stress Incr	YES	WB 0.61	Horz(TL)	0.09	13	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 243 lb	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 5-1-3 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 8-14, 8-13

**REACTIONS** (lb/size) 1=1057/0-8-0, 10=-210/0-8-0, 13=2769/0-8-0  
 Max Horz 1=-255(load case 6)  
 Max Uplift 1=-960(load case 5), 10=-482(load case 9), 13=-2417(load case 3)  
 Max Grav 1=1066(load case 9), 10=507(load case 4), 13=2769(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-1944/1649, 2-20=-1465/1363, 3-20=-1381/1373, 3-4=-1319/1428, 4-5=-1473/1654, 5-6=-1028/1182, 6-7=-1028/1182, 7-8=-72/337, 8-21=-1437/1677, 9-21=-1458/1574, 9-10=-1440/1322, 10-11=0/40  
 BOT CHORD 1-19=-1400/1652, 18-19=-1400/1652, 17-18=-1069/1249, 16-17=-1223/1365, 15-16=-1472/1520, 14-15=-59/435, 13-14=-1614/1642, 12-13=-1141/1364, 10-12=-1140/1363  
 WEBS 2-19=0/245, 2-18=-469/708, 3-18=-295/284, 3-17=-461/290, 4-17=-435/677, 5-15=-631/636, 7-15=-1187/1263, 8-14=-1913/1845, 9-13=-537/698, 9-12=0/234, 8-13=-2018/2022, 5-16=-62/295, 4-16=-326/247, 7-14=-1244/1461

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) All plates are MT20 plates unless otherwise indicated.
  - 6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 960 lb uplift at joint 1, 482 lb uplift at joint 10 and 2417 lb uplift at joint 13.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
 MiTek Industries, Inc.  
 1801 Massaro Blvd  
 Tampa FL 33619  
 FL Cert.#6634

January 24,2006

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1801 Massaro Blvd.  
 Tampa, FL 33619



Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986427
RSNKLEIN	A4	SPECIAL	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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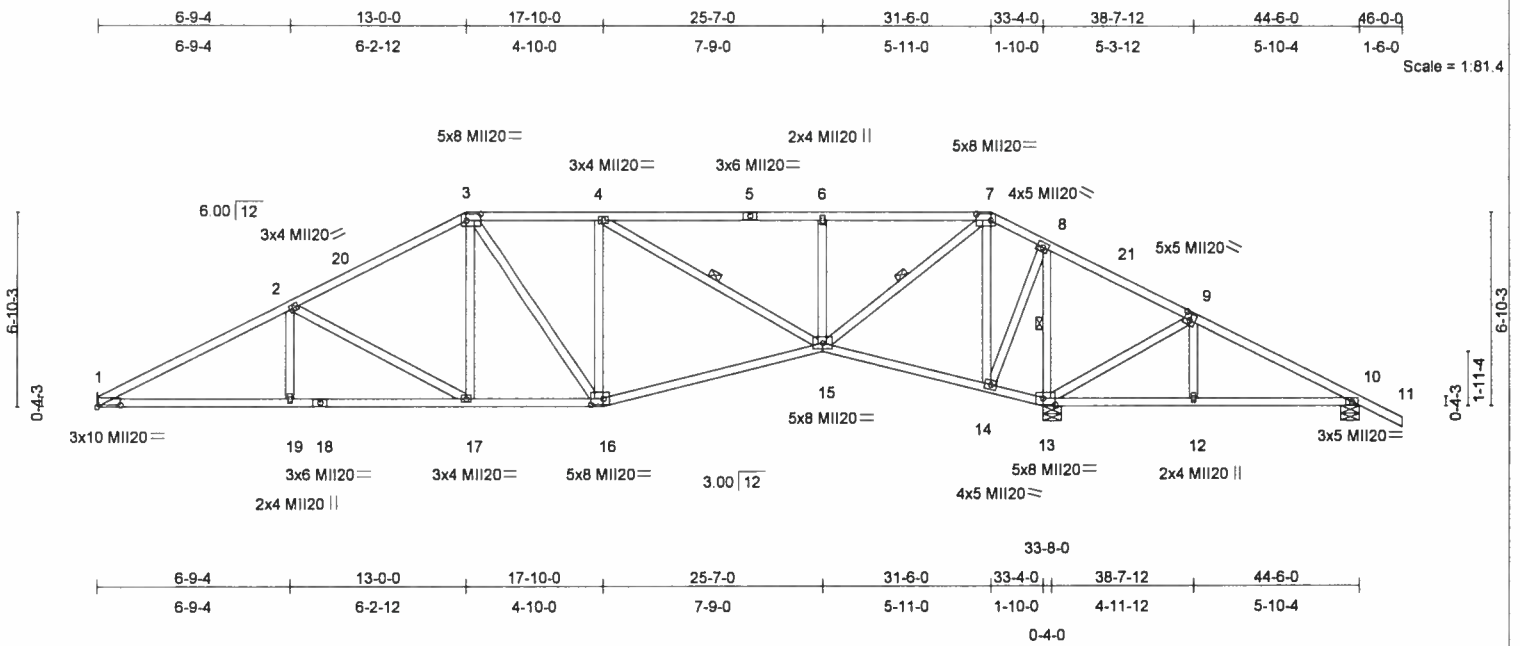


Plate Offsets (X,Y): [1:0-10-0,0-0-10], [3:0-6-0,0-2-8], [7:0-6-0,0-2-8], [9:0-2-8,0-3-0], [13:0-5-4,0-2-12], [16:0-5-4,0-2-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MI20	249/190
TCDL 10.0	Plates Increase 1.25	BC 0.50	Vert(LL) 0.20 1-19 >999 240		
BCCL 10.0	Lumber Increase 1.25	WB 0.96	Vert(TL) -0.29 15-16 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.09 13 n/a n/a		
	Code FBC2004/TPI2002			Weight: 252 lb	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 4-0-15 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 4-7-4 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 4-15, 7-15, 8-13

**REACTIONS** (lb/size) 1=1158/Mechanical, 13=2460/0-8-0, 10=21/0-8-0  
 Max Horz 1=-259(load case 3)  
 Max Uplift 1=-1032(load case 5), 13=-1934(load case 3), 10=-415(load case 6)  
 Max Grav 1=1167(load case 9), 13=2460(load case 1), 10=235(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-2169/1780, 2-20=-1545/1385, 3-20=-1453/1410, 3-4=-1289/1426, 4-5=-889/1075, 5-6=-889/1075, 6-7=-889/1075, 7-8=-273/540, 8-21=-856/1170, 9-21=-869/1047, 9-10=-864/817, 10-11=0/40  
 BOT CHORD 1-19=-1517/1861, 18-19=-1517/1861, 17-18=-1517/1861, 16-17=-1083/1307, 15-16=-1197/1344, 14-15=-528/818, 13-14=-1083/1093, 12-13=-696/852, 10-12=-693/854  
 WEBS 2-19=0/297, 2-17=-638/879, 3-17=-353/417, 3-16=-335/131, 4-16=-245/532, 4-15=-489/539, 6-15=-457/742, 7-15=-1671/1700, 7-14=-1459/1433, 8-14=-1360/1475, 8-13=-1839/1560, 9-13=-518/684, 9-12=0/237

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1032 lb uplift at joint 1, 1934 lb uplift at joint 13 and 415 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
 MiTek Industries, Inc.  
 1801 Massaro Blvd  
 Tampa FL 33619  
 FL Cert.#6634

January 24, 2006

**WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE 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, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

1801 Massaro Blvd.  
 Tampa, FL 33619



Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986428
RSNKLEIN	A4A	SPECIAL	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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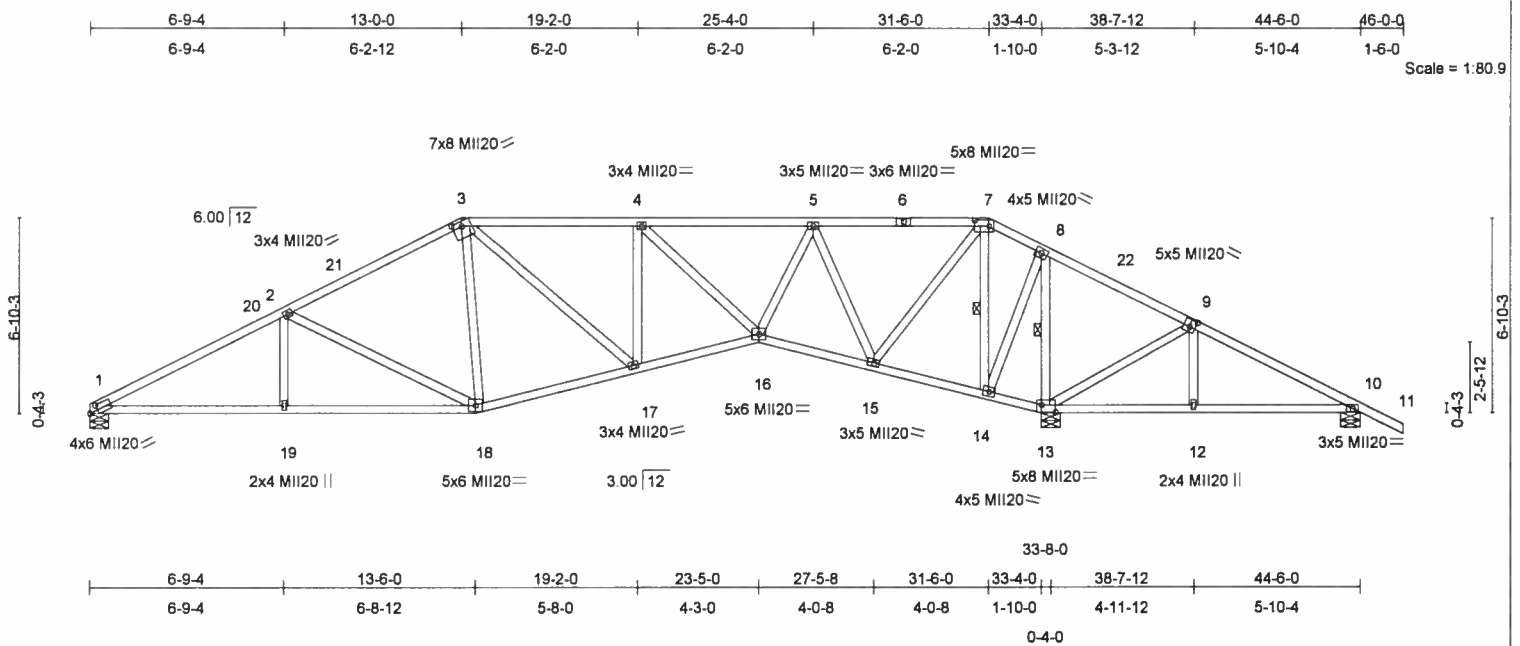


Plate Offsets (X,Y): [1:0-3-10,0-2-0], [3:0-4-0,0-1-15], [7:0-6-0,0-2-8], [9:0-2-8,0-3-0], [13:0-6-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MI20	249/190
TCDL 10.0	Plates Increase 1.25	BC 0.47	Vert(LL) 0.20 17 >999 240		
BCCL 10.0 *	Lumber Increase 1.25	WB 0.89	Vert(TL) -0.22 18-19 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.10 13 n/a n/a		
	Code FBC2004/TPI2002			Weight: 252 lb	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 4-9-14 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 7-14, 8-13

**REACTIONS** (lb/size) 1=1124/0-8-0, 13=2535/0-8-0, 10=-43/0-8-0  
 Max Horz 1=-259(load case 3)  
 Max Uplift 1=1006(load case 5), 13=-1986(load case 3), 10=-394(load case 6)  
 Max Grav 1=1133(load case 9), 13=2535(load case 1), 10=294(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-20=-2048/1670, 2-20=-1885/1686, 2-21=-1459/1319, 3-21=-1373/1344, 3-4=-1436/1577, 4-5=-1182/1326, 5-6=-248/486, 6-7=-248/486, 7-8=-392/669, 8-22=-985/1307, 9-22=-998/1184, 9-10=-989/953, 10-11=0/40  
 BOT CHORD 1-19=-1414/1737, 18-19=-1415/1738, 17-18=-1057/1285, 16-17=-1358/1489, 15-16=-756/806, 14-15=-632/845, 13-14=-1214/1161, 12-13=-816/962, 10-12=-813/964  
 WEBS 2-19=0/284, 2-18=-569/818, 3-18=-125/227, 3-17=-461/351, 4-17=-196/430, 4-16=-376/446, 5-16=-779/960, 5-15=-1361/1444, 7-15=-1236/1298, 7-14=-1540/1512, 8-14=-1436/1526, 8-13=-1867/1597, 9-13=-524/688, 9-12=0/236

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1006 lb uplift at joint 1, 1986 lb uplift at joint 13 and 394 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
 MiTek Industries, Inc.  
 1801 Massaro Blvd  
 Tampa FL 33619  
 FL Cert.#6634

January 24, 2006

**WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE 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, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

1801 Massaro Blvd.  
 Tampa, FL 33619





Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986429
RSNKLEIN	A5	SPECIAL	1	1	Job Reference (optional)	

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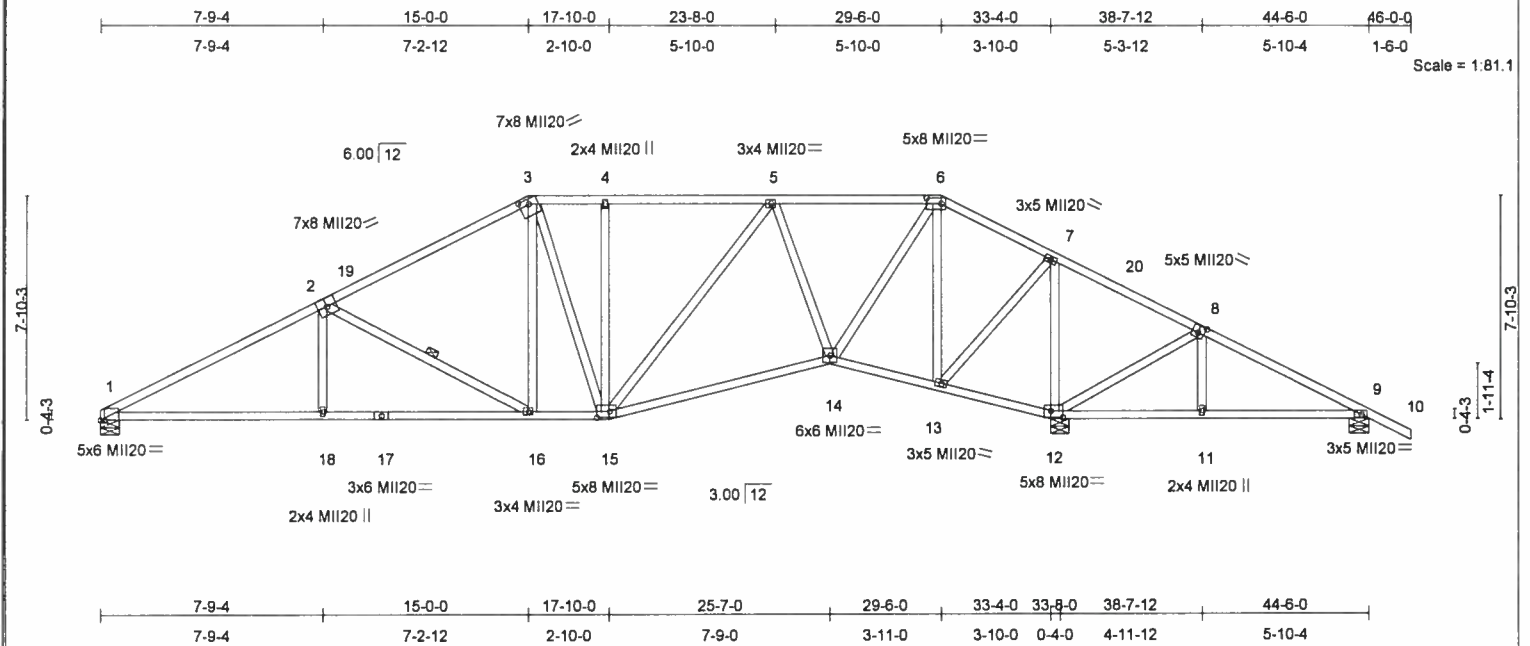


Plate Offsets (X,Y): [1:0-1-11,Edge], [3:0-4-0,0-1-15], [6:0-6-0,0-2-8], [8:0-2-8,0-3-0], [12:0-5-4,0-2-12], [15:0-5-4,0-2-8]									
<b>LOADING</b> (psf)		<b>SPACING</b> 2-0-0		<b>CSI</b>		<b>DEFL</b> in (loc) l/defl L/d		<b>PLATES GRIP</b>	
TCLL	20.0	Plates Increase	1.25	TC	0.88	Vert(LL)	0.27 1-18 >999 240	Mil/20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.29 14-15 >999 180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(TL)	0.08 12 n/a n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)				Weight: 262 lb	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 4-4-9 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 2-16

**REACTIONS** (lb/size) 1=1174/0-8-0, 12=2335/0-8-0, 9=108/0-8-0  
 Max Horz 1=293(load case 3)  
 Max Uplift1=-1043(load case 5), 12=-1656(load case 5), 9=-493(load case 6)  
 Max Grav 1=1179(load case 9), 12=2335(load case 1), 9=185(load case 10)

**FORCES (lb) - Maximum Compression/Maximum Tension**  
**TOP CHORD** 1-2=-2106/1704, 2-19=-1415/1230, 3-19=-1309/1259, 3-4=-1138/1231, 4-5=-1137/1231, 5-6=-762/898, 6-7=-177/401, 7-20=-583/985, 8-20=-596/862, 8-9=-587/617, 9-10=0/40  
**BOT CHORD** 1-18=-1405/1782, 17-18=-1406/1778, 16-17=-1406/1778, 15-16=-929/1178, 14-15=-894/1020, 13-14=0/485, 12-13=-912/939, 11-12=-520/608, 9-11=-517/610  
**WEBS** 2-18=0/339, 2-16=-891/923, 3-16=-370/402, 3-15=-270/158, 4-15=-263/430, 5-15=-312/280, 5-14=-643/777, 6-14=-1060/1208, 6-13=-1234/1063, 7-13=-1149/1415, 7-12=-1756/1315, 8-12=-515/681, 8-11=0/235

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDF=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 3) Provide adequate drainage to prevent water ponding.
- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1043 lb uplift at joint 1, 1656 lb uplift at joint 12 and 493 lb uplift at joint 9.

LOAD CASE(S) Standard

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FL Cert.#6634

January 24, 2006

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Tampa, FL 33619





Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986430
RSNKLEIN	A5A	SPECIAL	1	1		

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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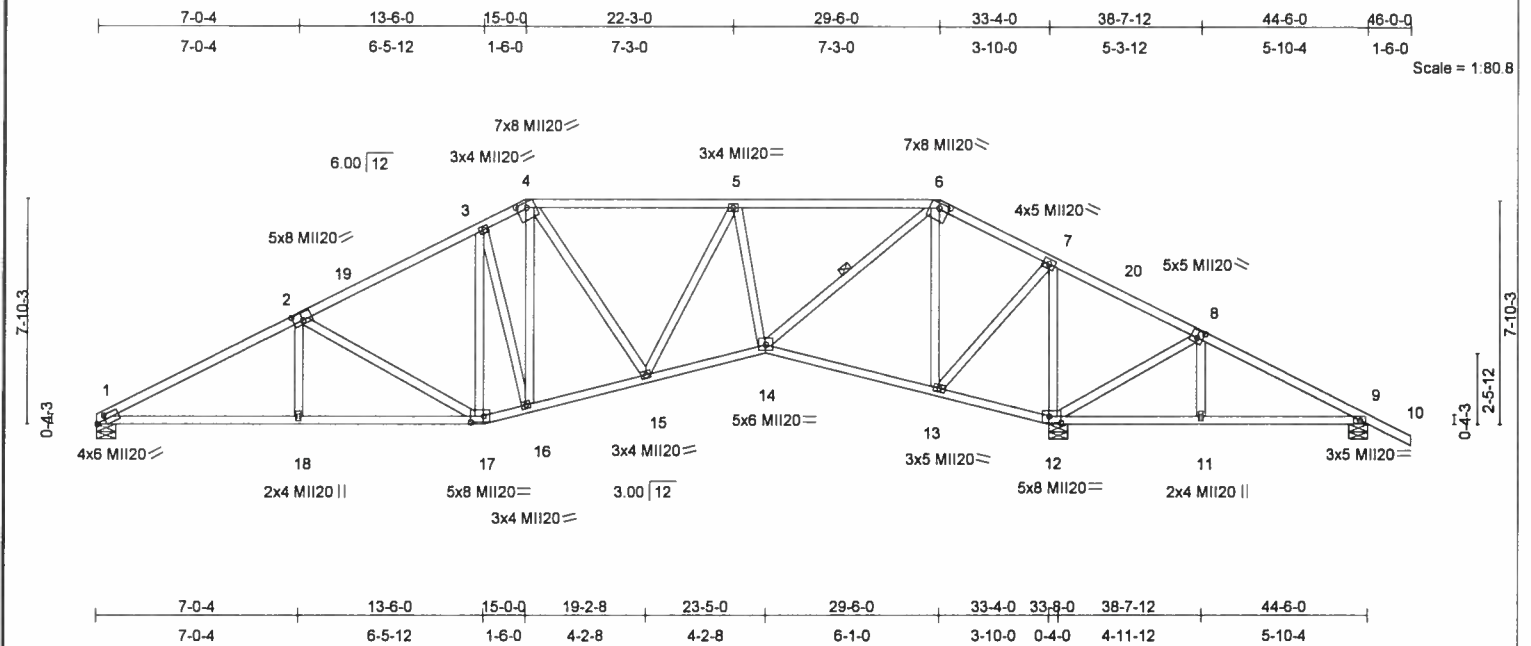


Plate Offsets (X,Y): [1:0-3-14,0-1-12], [2:0-4-0,0-3-4], [4:0-4-4,0-2-0], [6:0-4-0,0-1-15], [8:0-2-8,0-3-0], [12:0-5-4,0-2-12], [17:0-5-4,0-2-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.77	in (loc) l/defl L/d	MI20	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.49	Vert(LL) 0.20 1-18 >999 240		
BCLL 10.0 *	Rep Stress Incr YES	WB 1.00	Vert(TL) -0.21 17-18 >999 180		
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.09 12 n/a n/a		
				Weight: 263 lb	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 4-7-15 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 6-14

**REACTIONS** (lb/size) 1=1155/0-8-0, 12=2411/0-8-0, 9=51/0-8-0  
 Max Horz 1=-293(load case 3)  
 Max Uplift 1=-1032(load case 5), 12=-1703(load case 5), 9=-465(load case 6)  
 Max Grav 1=1160(load case 9), 12=2411(load case 1), 9=159(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-2095/1725, 2-19=-1496/1268, 3-19=-1402/1293, 3-4=-1335/1326, 4-5=-1229/1297, 5-6=-1114/1239, 6-7=-108/337, 7-20=-700/1111, 8-20=-714/989, 8-9=-700/736, 9-10=0/40  
 BOT CHORD 1-18=-1433/1777, 17-18=-1433/1773, 16-17=-1016/1295, 15-16=-997/1252, 14-15=-1097/1255, 13-14=-53/520, 12-13=-1028/998, 11-12=-625/707, 9-11=-621/709  
 WEBS 2-18=0/296, 2-17=-596/844, 3-17=-153/170, 3-16=-205/357, 4-16=-376/278, 4-15=-154/143, 5-15=-125/240, 5-14=-523/657, 6-14=-1315/1439, 6-13=-1244/1148, 7-13=-1210/1487, 7-12=-1812/1347, 8-12=-526/686, 8-11=0/241

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.  
 3) Provide adequate drainage to prevent water ponding.  
 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
 5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.  
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1032 lb uplift at joint 1, 1703 lb uplift at joint 12 and 465 lb uplift at joint 9.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
 MiTek Industries, Inc.  
 1801 Massaro Blvd  
 Tampa FL 33619  
 FL Cert.#6634

January 24, 2006

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 Tampa, FL 33619





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**Weight: 260 lb**

Structural wood sheathing directly applied or 4-1-5 oc purlins.  
Rigid ceiling directly applied or 4-7-9 oc bracing.  
1 Row at midpt 4-14

Max Horz 1=-327(load case 3)  
Max Uplift1=-1041(load case 5), 12=-1664(load case 5), 9=-487(load case 6)  
Max Grav 1=1175(load case 1), 12=2330(load case 1), 9=207(load case 10)

**FORCES (lb) - Maximum Compression/Maximum Tension**  
**TOP CHORD** 1-2=-2128/1745, 2-18=-1528/1291, 3-18=-1434/1317, 3-4=-1303/1208, 4-5=-989/1043, 5-6=-989/1043, 6-7=-515/556, 7-19=-511/969, 8-19=-531/846, 8-9=-527/600, 9-10=0/40  
**BOT CHORD** 1-17=-1450/1806, 16-17=-1450/1802, 15-16=-956/1333, 14-15=-835/1184, 13-14=-164/385, 12-13=-892/938, 11-12=-506/557, 9-11=-503/559  
**WEBS** 2-17=0/299, 2-16=-596/839, 3-16=-164/161, 3-15=-290/476, 4-15=-421/419, 4-14=-206/328, 5-14=-342/567, 6-14=-1002/1142, 6-13=-1026/822, 7-13=-1028/1481, 7-12=-1755/1285, 8-12=-489/656, 8-11=0/226

## LOAD CASE(S) Standard

January 24, 2006



**MiTek**

Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986433
RSNKLEIN	A7	SPECIAL	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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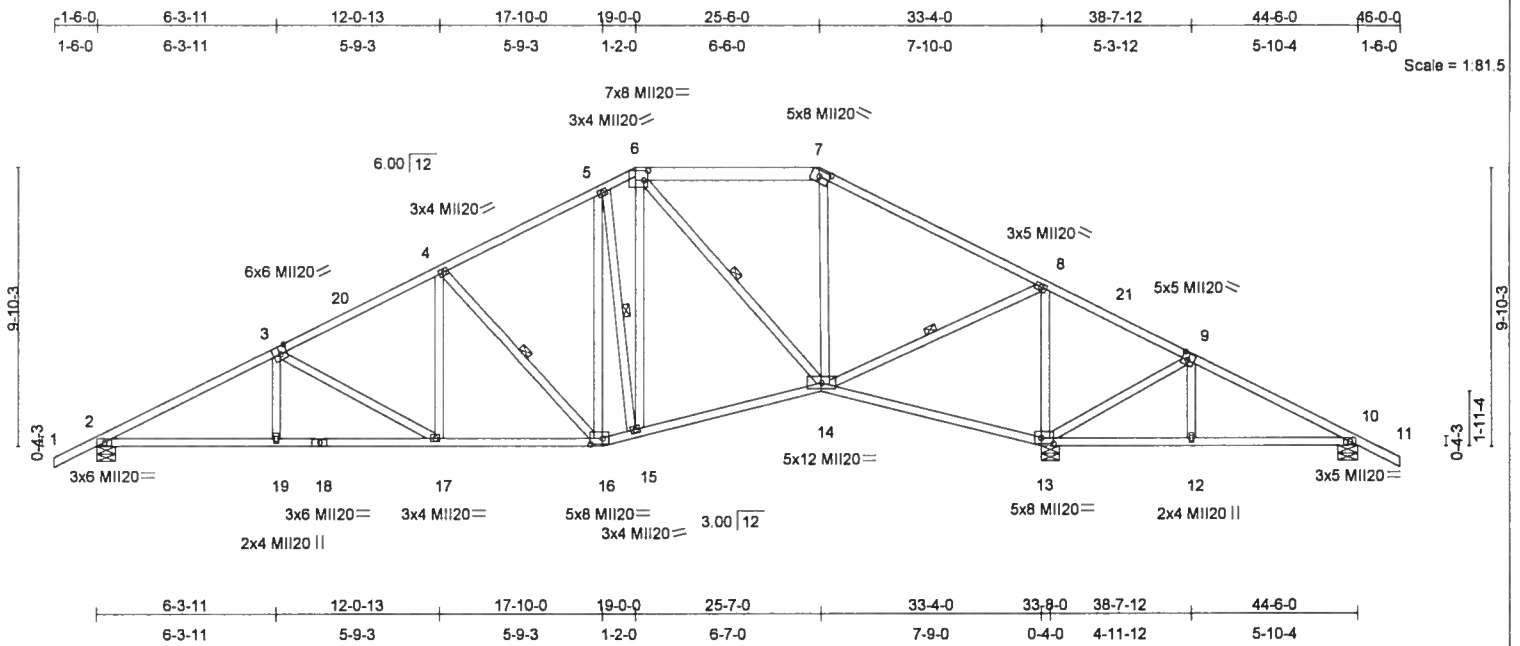


Plate Offsets (X,Y): [3:0-3-0,Edge], [6:0-1-12,0-4-0], [7:0-4-8,0-2-8], [9:0-2-4,0-3-0], [13:0-5-4,0-2-8], [16:0-5-4,0-2-8]

<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MI20	249/190
TCDL 10.0	Plates Increase 1.25	BC 0.42	Vert(LL) 0.16 16-17 >999 240		
BCCL 10.0	Lumber Increase 1.25	WB 0.93	Vert(TL) -0.21 16-17 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.06 13 n/a n/a		
	Code FBC2004/TPI2002			Weight: 281 lb	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D *Except*	TOP CHORD Structural wood sheathing directly applied or 4-2-6 oc purlins.
6-7 2 X 6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 5-3-9 oc bracing.
BOT CHORD 2 X 4 SYP No.2D	WEBS 1 Row at midpt 4-16, 5-15, 6-14, 8-14
WEBS 2 X 4 SYP No.3	

**REACTIONS** (lb/size) 2=1314/0-8-0, 13=2224/0-8-0, 10=189/0-8-0  
Max Horz2=-306(load case 3)  
Max Uplift2=-1329(load case 5), 13=-1573(load case 5), 10=-538(load case 6)  
Max Grav2=1314(load case 1), 13=2224(load case 1), 10=281(load case 10)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/40, 2-3=-2168/1732, 3-20=-1685/1399, 4-20=-1548/1422, 4-5=-1187/1115, 5-6=-1044/1149, 6-7=-692/786,  
7-8=-872/720, 8-21=-358/789, 9-21=-378/666, 9-10=-321/429, 10-11=0/40  
BOT CHORD 2-19=-1444/1840, 18-19=-1445/1837, 17-18=-1445/1837, 16-17=-951/1439, 15-16=-620/1032, 14-15=-579/980,  
13-14=-720/821, 12-13=-355/376, 10-12=-352/377  
WEBS 3-19=0/247, 3-17=-459/660, 4-17=-272/411, 4-16=-655/723, 5-16=-356/277, 5-15=-400/598, 6-15=-619/514, 6-14=-457/399,  
8-14=-859/1506, 8-13=-1689/1253, 9-13=-453/624, 9-12=0/212, 7-14=-197/331

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1329 lb uplift at joint 2, 1573 lb uplift at joint 13 and 538 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
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1801 Massaro Blvd  
Tampa FL 33619  
FL Cert.#6634

January 24, 2006

**WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.**

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1801 Massaro Blvd.  
Tampa, FL 33619





Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986434
RSNKLEIN	ATA	SPECIAL	1	1		

SANTA FE TRUSS, HIGH SPRINGS FL, MARK CRAY

6.200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09:28:23 2006 Page 1

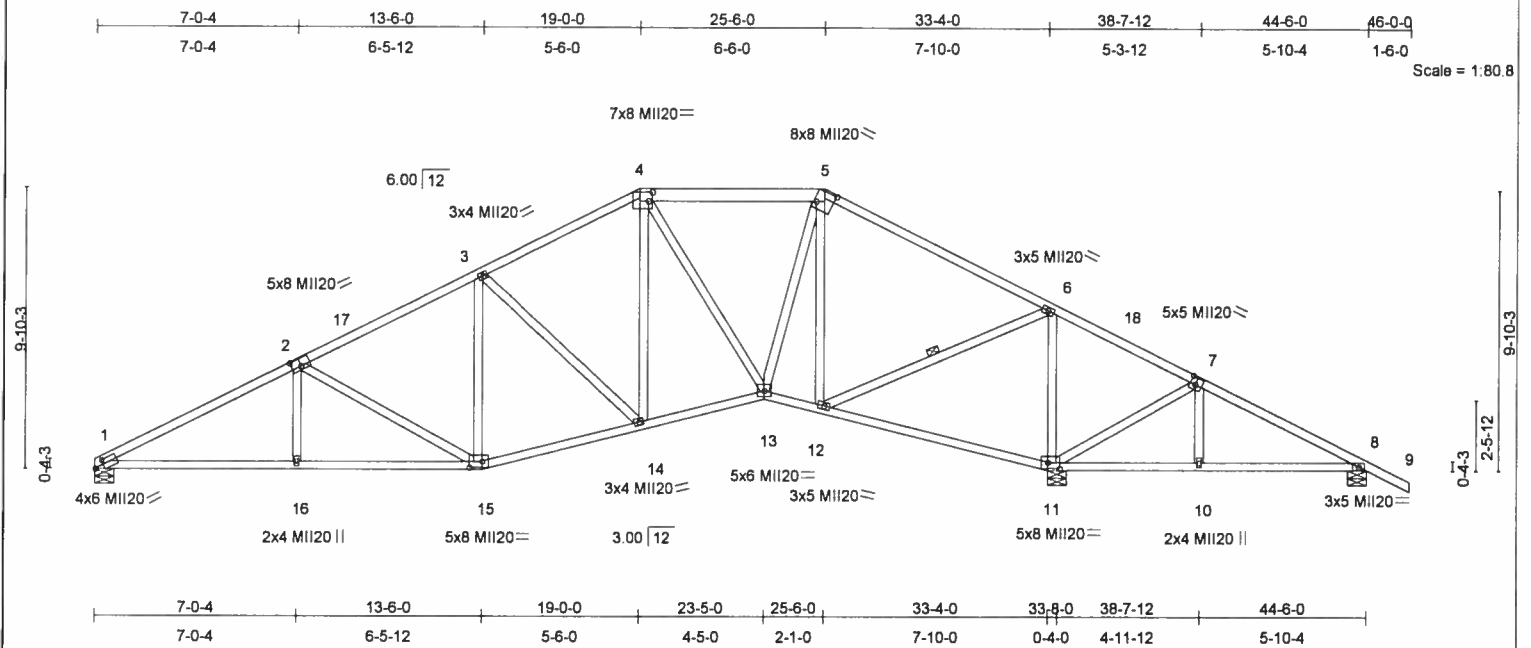


Plate Offsets (X, Y): [1:0-3-14,0-1-12], [2:0-4-0,0-3-4], [4:0-1-12,0-4-0], [5:0-6-12,0-5-8], [7:0-2-4,0-3-0], [11:0-5-4,0-2-8], [15:0-5-4,0-2-8]									
<b>LOADING</b> (psf)	<b>SPACING</b>	2-0-0	<b>CSI</b>	<b>DEFL</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase	1.25	TC 0.75	Vert(LL)	0.20	1-16	>999	240	249/190
TCDL 10.0	Lumber Increase	1.25	BC 0.50	Vert(TL)	-0.21	1-16	>999	180	
BCLL 10.0	Rep Stress Incr	YES	WB 0.94	Horz(TL)	0.08	11	n/a	n/a	
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 261 lb	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D *Except*	TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins.
4-5 2 X 6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 4-6-12 oc bracing.
BOT CHORD 2 X 4 SYP No.2D	WEBS 1 Row at midpt 6-12
WEBS 2 X 4 SYP No.3	

**REACTIONS** (lb/size) 1=1198/0-8-0, 11=2239/0-8-0, 8=180/0-8-0  
 Max Horz 1=-360(load case 3)  
 Max Uplift 1=-1058(load case 5), 11=-1598(load case 5), 8=-531(load case 6)  
 Max Grav 1=1198(load case 1), 11=2239(load case 1), 8=277(load case 10)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-2171/1776, 2-17=-1585/1332, 3-17=-1495/1357, 3-4=-1251/1116, 4-5=-899/902, 5-6=-896/735, 6-18=-386/808,  
 7-18=-406/685, 7-8=-332/448, 8-9=0/40  
 BOT CHORD 1-16=-1476/1843, 15-16=-1476/1840, 14-15=-903/1394, 13-14=-653/1099, 12-13=-314/707, 11-12=-738/836,  
 10-11=-371/386, 8-10=-369/387  
 WEBS 2-16=0/290, 2-15=-579/820, 3-15=-134/201, 3-14=-391/579, 4-14=-451/471, 4-13=-381/374, 5-13=-523/747, 5-12=-804/617,  
 6-12=-884/1537, 6-11=-1699/1277, 7-11=-453/625, 7-10=0/209

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCCL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.  
 3) Provide adequate drainage to prevent water ponding.  
 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
 5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.  
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1058 lb uplift at joint 1, 1598 lb uplift at joint 11 and 531 lb uplift at joint 8.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
 MiTek Industries, Inc.  
 1801 Massaro Blvd  
 Tampa FL 33619  
 FL Cert.#6634

January 24,2006



Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986435
RSNKLEIN	A8	SPECIAL	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL.

6.200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09:58:14 2006 Page 1

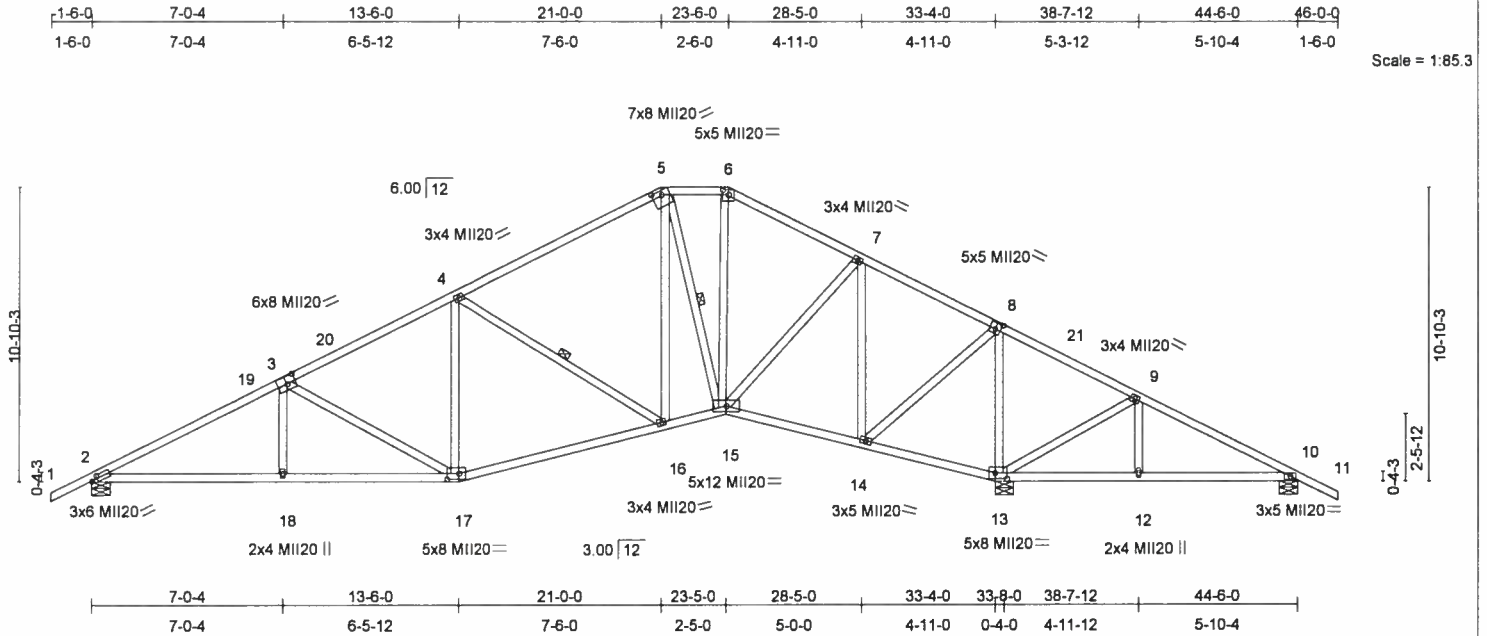


Plate Offsets (X,Y): [2:0-2-10,0-1-8], [3:0-3-14,0-3-6], [5:0-4-4,0-2-0], [6:0-2-8,0-2-4], [8:0-2-8,0-3-0], [13:0-5-4,0-2-8], [17:0-5-4,0-2-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.71	Vert(LL)	0.15 16-17	>999	240	MI20	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.45	Vert(TL)	-0.28 16-17	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.95	Horz(TL)	0.07 13	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 270 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 5-2-12 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 4-16, 5-15

**REACTIONS** (lb/size) 2=1301/0-8-0, 13=2275/0-8-0, 10=151/0-8-0  
 Max Horz 2=-341(load case 3)  
 Max Uplift 2=-1317(load case 5), 13=-1623(load case 5), 10=-503(load case 6)  
 Max Grav 2=1301(load case 1), 13=2275(load case 1), 10=267(load case 10)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/40, 2-19=-2114/1656, 3-19=-1943/1671, 3-20=-1566/1295, 4-20=-1415/1320, 4-5=-1094/936, 5-6=-765/829,  
 6-7=-925/841, 7-8=-389/448, 8-21=-460/894, 9-21=-473/768, 9-10=-315/472, 10-11=0/40  
 BOT CHORD 2-18=-1371/1787, 17-18=-1372/1784, 16-17=-786/1390, 15-16=-362/922, 14-15=0/394, 13-14=-796/900, 12-13=-390/371,  
 10-12=-390/371  
 WEBS 3-18=0/272, 3-17=-525/723, 4-17=-92/238, 4-16=-542/720, 5-16=-460/535, 5-15=-533/501, 7-15=-366/712, 7-14=-1079/737,  
 8-14=-801/1391, 8-13=-1731/1239, 9-13=-511/677, 9-12=0/234, 6-15=-251/303

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1317 lb uplift at joint 2, 1623 lb uplift at joint 13 and 503 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
 MiTek Industries, Inc.  
 1801 Massaro Blvd  
 Tampa FL 33619  
 FL Cert.#6634

January 24, 2006

**WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.**

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1801 Massaro Blvd.  
 Tampa, FL 33619



Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986436
RSNKLEIN	A8A	SPECIAL	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

6.200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09:28:25 2006 Page 1

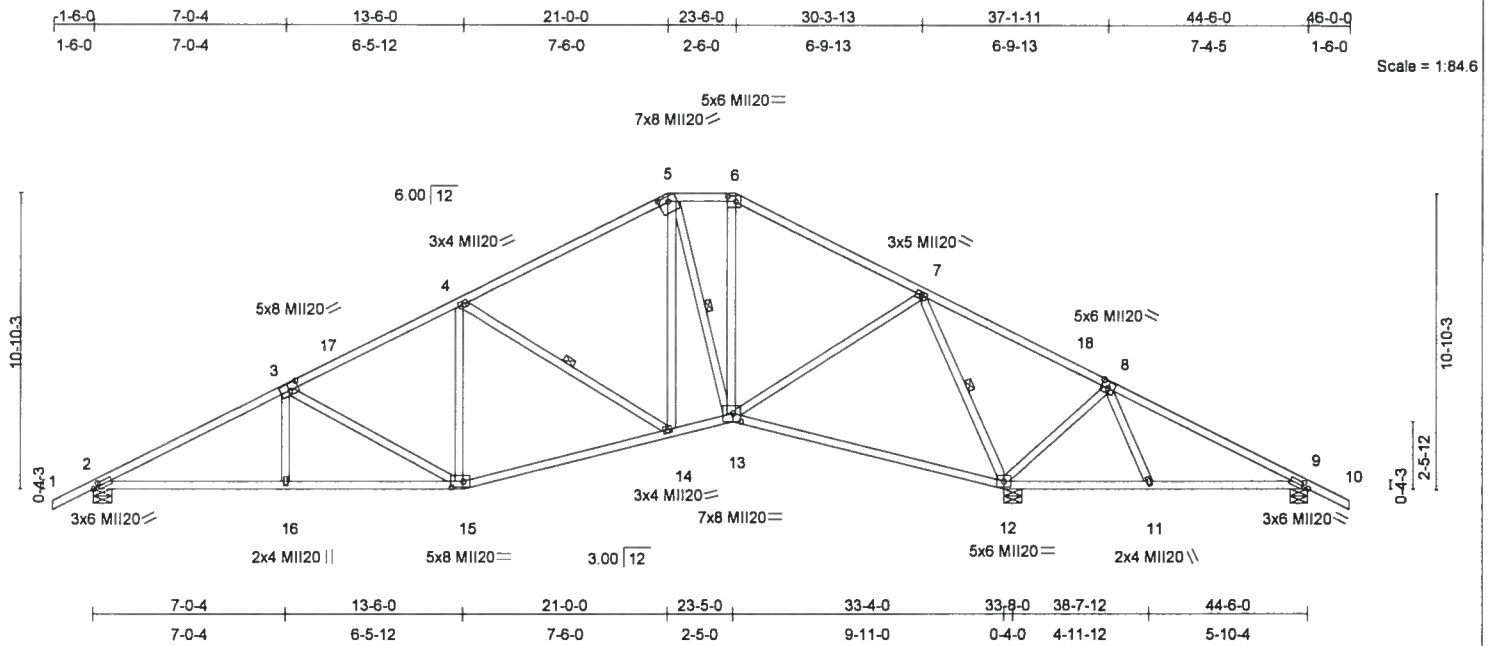


Plate Offsets (X,Y): [2:0-2-10,0-1-8], [3:0-4-0,0-3-0], [5:0-4-4,0-2-0], [6:0-3-8,0-2-4], [8:0-3-0,0-3-0], [9:0-2-10,0-1-8], [13:0-3-8,0-3-8], [15:0-5-4,0-2-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.73	Vert(LL)	-0.17	12-13	>999	240	249/190
TCDL 10.0	Lumber Increase	1.25	BC 0.58	Vert(TL)	-0.45	12-13	>890	180	
BCLL 10.0	Rep Stress Incr	YES	WB 0.65	Horz(TL)	0.08	12	n/a	n/a	
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)						Weight: 256 lb

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 5-2-11 oc bracing.  
WEBS 1 Row at midpt 4-14, 5-13, 7-12

REACTIONS (lb/size) 2=1300/0-8-0, 12=2280/0-8-0, 9=147/0-8-0

Max Horz 2=-341(load case 3)

Max Uplift 2=-1318(load case 5), 12=-1619(load case 5), 9=-508(load case 6)

Max Grav 2=1300(load case 1), 12=2280(load case 1), 9=265(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-2111/1673, 3-17=-1564/1297, 4-17=-1413/1322, 4-5=-1089/939, 5-6=-786/839, 6-7=-976/818, 7-18=-428/956, 8-18=-455/790, 8-9=-331/522, 9-10=0/40

BOT CHORD 2-16=-1372/1785, 15-16=-1373/1781, 14-15=-786/1388, 13-14=-354/929, 12-13=-126/494, 11-12=-470/425, 9-11=-429/426

WEBS 3-16=0/270, 3-15=-523/723, 4-15=-89/244, 4-14=-546/721, 5-14=-494/457, 5-13=-463/472, 6-13=-176/276, 7-13=-436/985, 7-12=-1903/1341, 8-12=-508/771, 8-11=-2/204

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCCL=5.0psf; BCCL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- Provide adequate drainage to prevent water ponding.
- \*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 1318 lb uplift at joint 2, 1619 lb uplift at joint 12 and 508 lb uplift at joint 9.

LOAD CASE(S) Standard

Guo-Jie Zhang, FL Lic #47744  
MiTek Industries, Inc.  
1801 Massaro Blvd  
Tampa FL 33619  
FL Cert.#6634

January 24, 2006

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1801 Massaro Blvd.  
Tampa, FL 33619



Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986437
RSNKLEIN	A9	SPECIAL	2	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

6.200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09:28:26 2006 Page 1

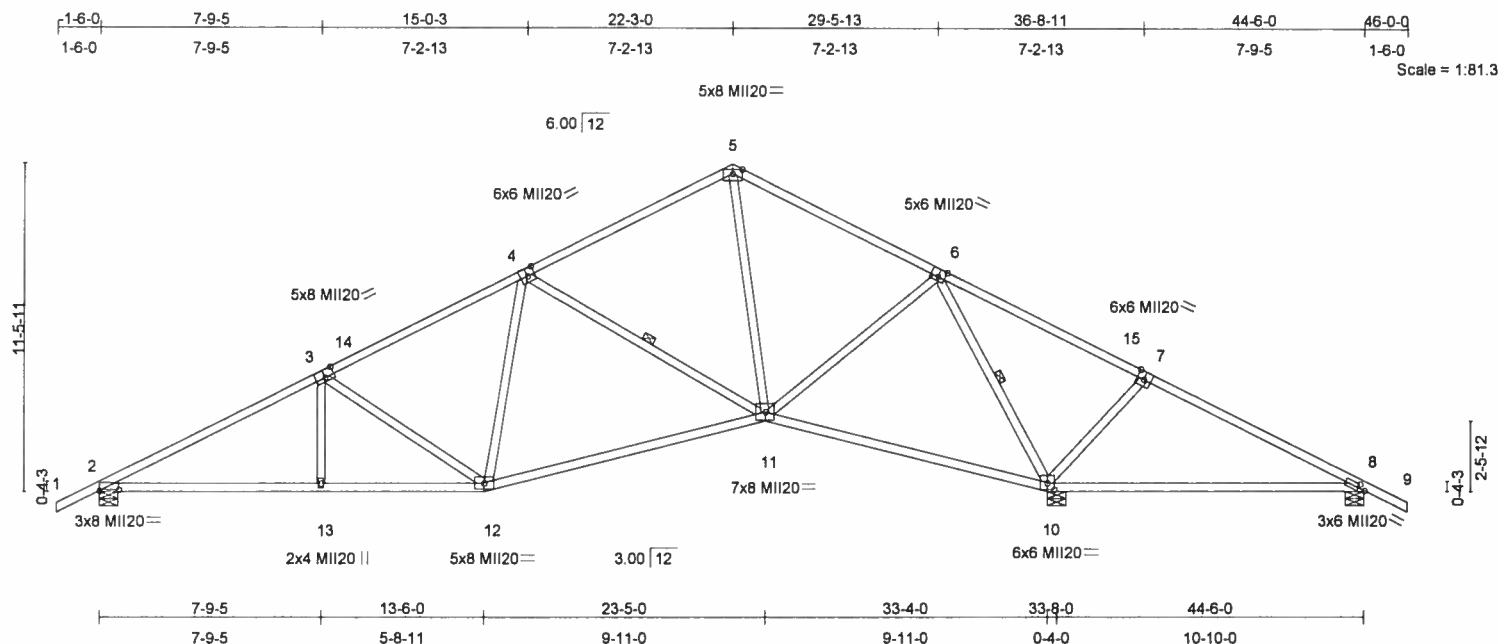


Plate Offsets (X,Y): [2:0-8-4,0-0-6], [3:0-4-0,0-3-4], [4:0-3-0,Edge], [6:0-2-12,0-3-4], [7:0-3-0,Edge], [8:0-2-10,0-1-8], [10:0-3-0,0-2-12]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.79	Vert(LL)	-0.24	8-10	>548	240	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.60	Vert(TL)	-0.63	8-10	>207	180	
BCLL 10.0	Rep Stress Incr YES	WB 0.70	Horz(TL)	0.08	10	n/a	n/a	
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 231 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 5-1-2 oc bracing.  
WEBS 1 Row at midpt 4-11, 6-10

REACTIONS (lb/size) 2=1299/0-8-0, 10=2283/0-8-0, 8=145/0-8-0

Max Horz2=362(load case 4)

Max Uplift2=-1312(load case 5), 10=-1642(load case 5), 8=-491(load case 6)

Max Grav2=1299(load case 1), 10=2283(load case 1), 8=277(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-2081/1634, 3-14=-1538/1275, 4-14=-1440/1303, 4-5=-912/774, 5-6=-958/807, 6-15=-454/945, 7-15=-470/770, 7-8=-355/636, 8-9=0/40

BOT CHORD 2-13=-1321/1755, 12-13=-1321/1753, 11-12=-663/1321, 10-11=-19/460, 8-10=-500/480

WEBS 3-13=0/252, 3-12=-562/790, 4-12=-210/324, 4-11=-657/807, 5-11=-206/414, 6-11=-321/858, 6-10=-1936/1357, 7-10=-464/786

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; 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 1312 lb uplift at joint 2, 1642 lb uplift at joint 10 and 491 lb uplift at joint 8.

LOAD CASE(S) Standard

Guo-Jie Zhang, FL Lic #47744  
MiTek Industries, Inc.  
1801 Massaro Blvd  
Tampa FL 33619  
FL Cert.#6634

January 24,2006

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1801 Massaro Blvd.  
Tampa, FL 33619



Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986438
RSNKLEIN	A9A	SPECIAL	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

6 200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09:28:27 2006 Page 1

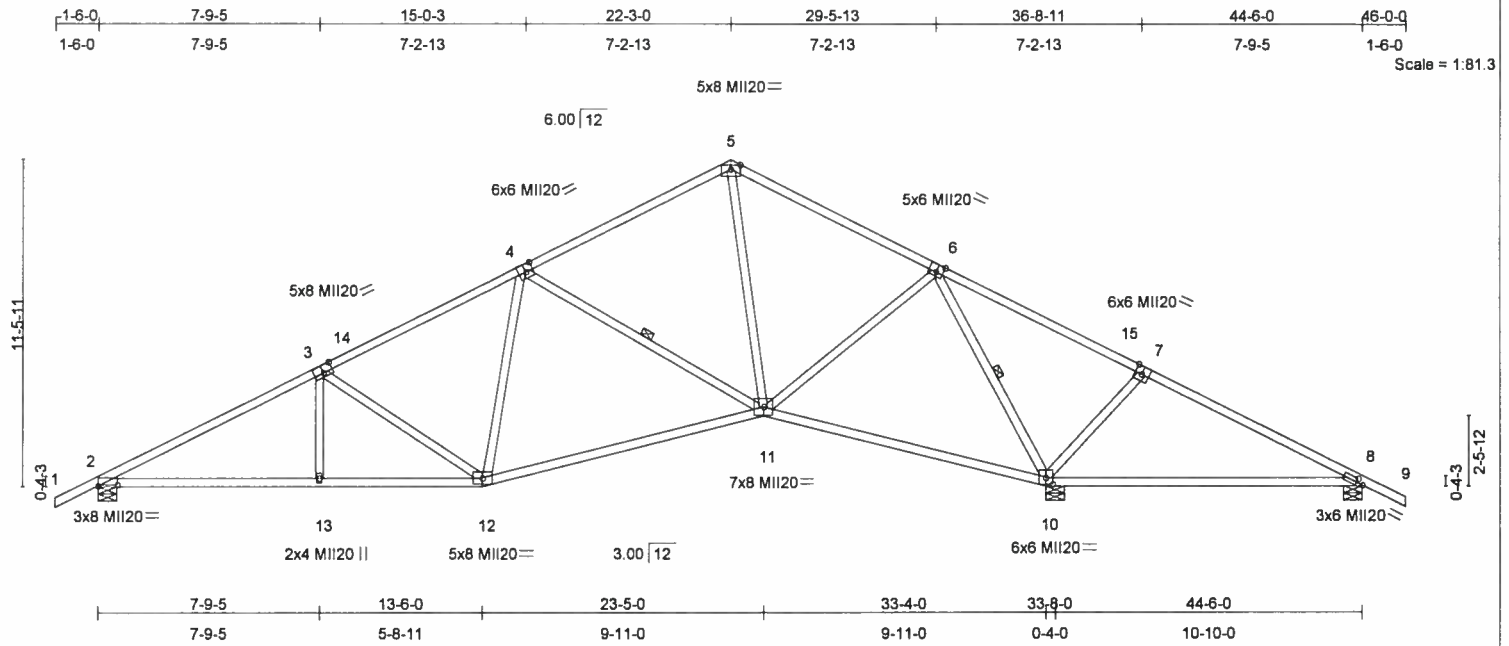


Plate Offsets (X,Y): [2:0-8-4,0-0-6], [3:0-4-0,0-3-4], [4:0-3-0,Edge], [6:0-2-12,0-3-4], [7:0-3-0,Edge], [8:0-2-10,0-1-8], [10:0-3-0,0-2-12]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MI20	249/190
TCDL 10.0	Plates Increase 1.25	BC 0.61	Vert(LL) -0.24 8-10 >547 240		
BCLL 10.0 *	Lumber Increase 1.25	WB 0.70	Vert(TL) -0.63 8-10 >206 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.08 10 n/a n/a		
	Code FBC2004/TPI2002			Weight: 231 lb	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 5-1-2 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 4-11, 6-10

**REACTIONS** (lb/size) 2=1299/0-8-0, 10=2282/0-8-0, 8=145/0-8-0  
 Max Horz2=-362(load case 3)  
 Max Uplift2=-1312(load case 5), 10=-1642(load case 5), 8=-491(load case 6)  
 Max Grav2=1299(load case 1), 10=2282(load case 1), 8=277(load case 10)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/40, 2-3=-2080/1634, 3-14=-1539/1279, 4-14=-1441/1308, 4-5=-913/774, 5-6=-958/807, 6-15=-453/944, 7-15=-470/769  
 , 7-8=-354/635, 8-9=0/40  
 BOT CHORD 2-13=-1321/1755, 12-13=-1321/1752, 11-12=-663/1320, 10-11=-18/460, 8-10=-500/480  
 WEBS 3-13=0/255, 3-12=-566/793, 4-12=-213/324, 4-11=-654/808, 5-11=-206/415, 6-11=-321/858, 6-10=-1936/1357,  
 7-10=-464/786

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1312 lb uplift at joint 2, 1642 lb uplift at joint 10 and 491 lb uplift at joint 8.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
 MiTek Industries, Inc.  
 1801 Massaro Blvd  
 Tampa FL 33619  
 FL Cert.#6634

January 24, 2006

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1801 Massaro Blvd.  
 Tampa, FL 33619





Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986439
RSNKLEIN	B1	HIP	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

6.200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09:28:29 2006 Page 1

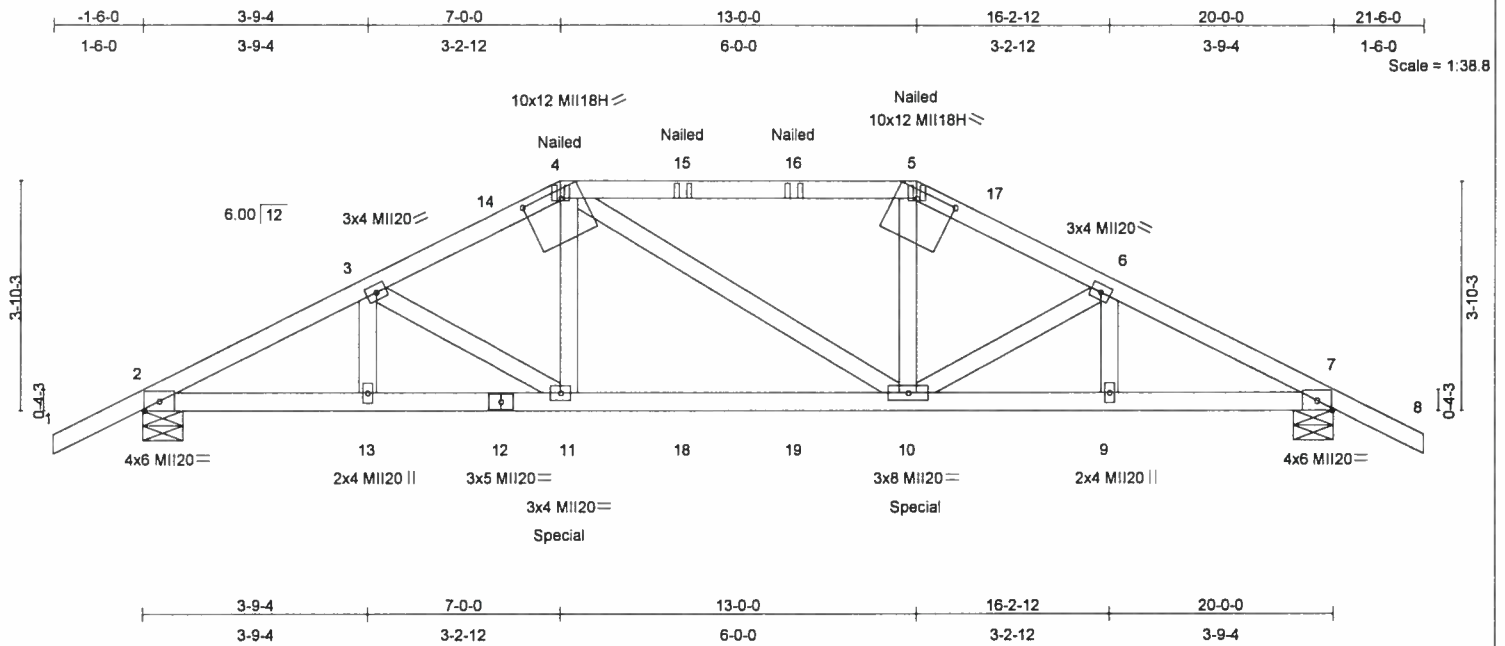


Plate Offsets (X,Y): [4:0-7-12,0-1-12], [5:0-7-12,0-1-12]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.98	Vert(LL)	0.32 10-11	>731	240	MI20	249/190
TCDL 10.0	Plates Increase 1.25	BC 0.75	Vert(TL)	-0.31 10-11	>757	180	MI18H	195/188
BCLL 10.0 *	Lumber Increase 1.25	WB 0.25	Horz(TL)	-0.08 7	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix)						
	Code FBC2004/TPI2002							
							Weight: 102 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 3-8-6 oc bracing.
WEBS 2 X 4 SYP No.3	

**REACTIONS** (lb/size) 2=1614/0-8-0, 7=1614/0-8-0  
Max Horz 2=-165(load case 6)  
Max Uplift 2=-2012(load case 5), 7=-2012(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/40, 2-3=-2749/3086, 3-14=-2687/3200, 4-14=-2617/3205, 4-15=-2424/2989, 15-16=-2424/2989, 5-16=-2424/2989, 5-17=-2619/3205, 6-17=-2689/3201, 6-7=-2748/3088, 7-8=0/40  
BOT CHORD 2-13=-2618/2345, 12-13=-2618/2345, 11-12=-2618/2345, 11-18=-2680/2422, 18-19=-2680/2422, 10-19=-2680/2422, 9-10=-2503/2344, 7-9=-2503/2344  
WEBS 3-13=-38/172, 3-11=-357/171, 4-11=-720/781, 4-10=-134/90, 5-10=-701/781, 6-10=-364/178, 6-9=-40/172

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) All plates are MT20 plates unless otherwise indicated.
  - 6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2012 lb uplift at joint 2 and 2012 lb uplift at joint 7.
  - 8) "Nailed" indicates 3-10d or 3-12d common wire toe-nails.
  - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 440 lb down and 508 lb up at 7-0-0, 154 lb down and 193 lb up at 9-0-12, and 154 lb down and 193 lb up at 10-11-4, and 440 lb down and 508 lb up at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S) Standard**

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-5=-60, 5-8=-60, 2-7=-20

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986439
RSNKLEIN	B1	HIP	1	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 4=-114(B) 5=-114(B) 11=-440(B) 10=-440(B) 15=-23(B) 16=-23(B) 18=-154(B) 19=-154(B)

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Weight: 108 lb

TOP CHORD	Structural wood sheathing directly applied or 5-7-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-4-3 oc bracing.

## LOAD CASE(S) Standard





<b>LUMBER</b>	
TOP CHORD	2 X 4 SYP No.2D
BOT CHORD	2 X 4 SYP No.2D
WEBS	2 X 4 SYP No.3
<b>BRACING</b>	
TOP CHORD	Structural wood sheathing directly applied or 5-7-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-5-5 oc bracing.

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/40, 2-3=-1276/992, 3-11=-1118/958, 4-11=-1054/978, 4-12=-1054/978, 5-12=-1118/959, 5-6=-1276/992, 6-7=0/40
BOT CHORD	2-10=-767/1064, 9-10=-344/739, 8-9=-344/739, 6-8=-666/1064
WEBS	3-10=-246/440, 4-10=-357/403, 4-8=-357/403, 5-8=-246/440

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft, TCDL=5.0psf, BCDL=5.0psf, Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 952 lb uplift at joint 2 and 952 lb uplift at joint 6.

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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986442
RSNKLEIN	C1	HIP	1	1		

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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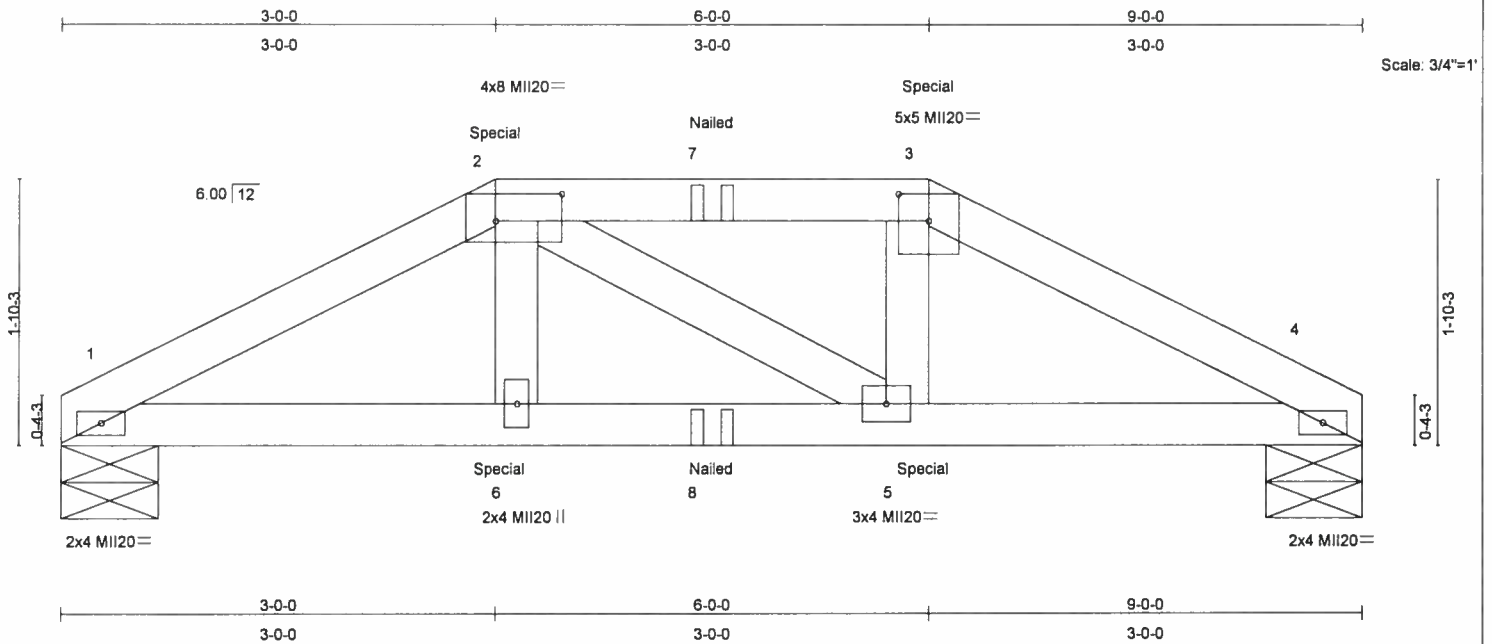


Plate Offsets (X,Y): [2:0-5-8,0-2-4], [3:0-2-8,0-2-4]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.27	Vert(LL)	0.01	5-6	>999	240	MII20	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.11	Vert(TL)	0.01	5	>999	180		
BCLL 10.0	Rep Stress Incr NO	WB 0.05	Horz(TL)	0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 36 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	

**REACTIONS** (lb/size) 1=320/0-8-0, 4=320/0-8-0  
Max Horz 1=-53(load case 3)  
Max Uplift 1=-324(load case 5), 4=-314(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-462/409, 2-7=-380/414, 3-7=-380/414, 3-4=-462/420  
BOT CHORD 1-6=-317/372, 6-8=-314/379, 5-8=-314/379, 4-5=-300/372  
WEBS 2-6=0/163, 2-5=-65/35, 3-5=0/164

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCCL=5.0psf; BCCL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - Provide adequate drainage to prevent water ponding.
  - \*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 324 lb uplift at joint 1 and 314 lb uplift at joint 4.
  - "Nailed" indicates 3-10d or 3-12d common wire toe-nails.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 23 lb down and 71 lb up at 3-0-0, and 23 lb down and 84 lb up at 6-0-0 on top chord, and 37 lb down at 3-0-0, and 37 lb down at 5-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 1-4=-20  
Concentrated Loads (lb)  
Vert: 2=22(B) 3=22(B) 6=-18(B) 5=-18(B) 7=24(B) 8=-6(B)

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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986443
RSNKLEIN	CGT	HIP	1	2	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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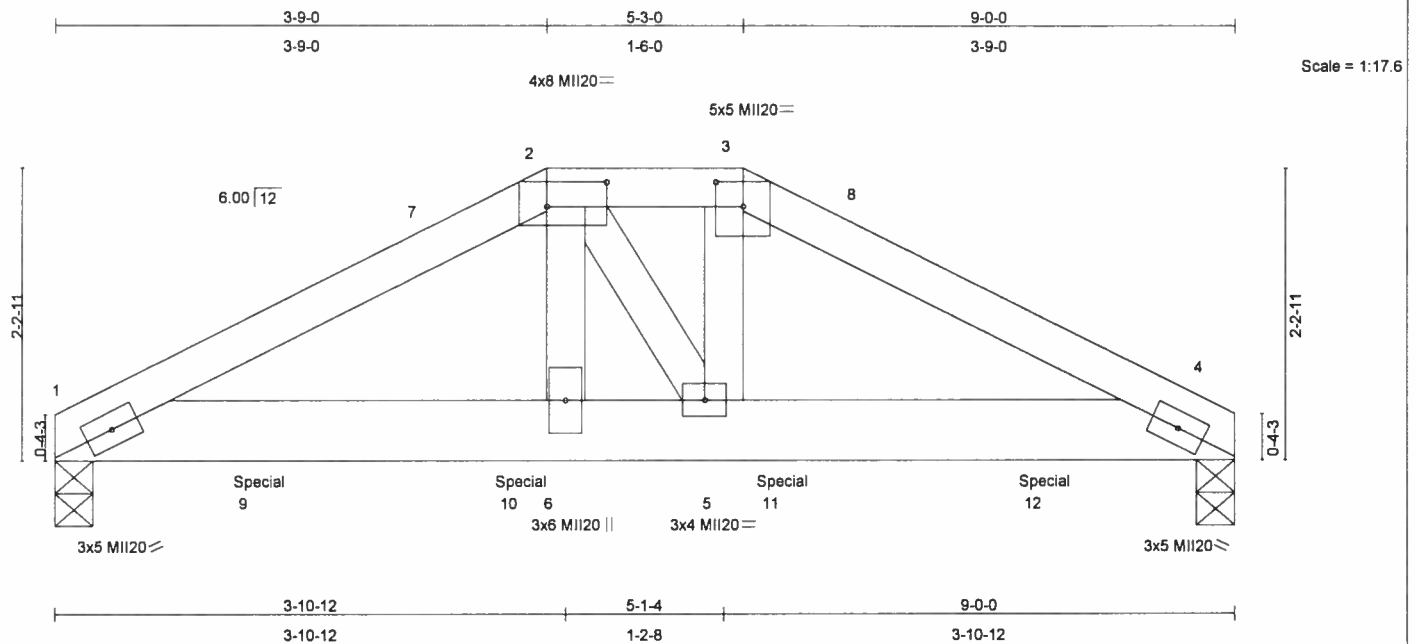


Plate Offsets (X,Y): [2:0-5-8, 0-2-4], [3:0-2-8, 0-2-4]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.54	Vert(LL)	0.09	1-6	>999	240	MI20	249/190
TCDL 10.0	Lumber Increase	1.25	BC 0.56	Vert(TL)	-0.08	1-6	>999	180		
BCLL 10.0	Rep Stress Incr	NO	WB 0.35	Horz(TL)	0.02	4	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 86 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 6 SYP SS  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-11-5 oc bracing.

**REACTIONS** (lb/size) 1=3317/0-3-8, 4=2761/0-3-8  
Max Horz 1=63(load case 4)  
Max Uplift 1=3561(load case 5), 4=2668(load case 6)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-7=-4398/4425, 2-7=-4330/4432, 2-3=-3795/3784, 3-8=-4080/4008, 4-8=-4148/4002  
BOT CHORD 1-9=-3885/3881, 9-10=-3885/3881, 6-10=-3885/3881, 5-6=-4073/4054, 5-11=-3494/3659, 11-12=-3494/3659,  
4-12=-3494/3659  
WEBS 2-6=-2389/2194, 3-5=-1628/1752, 2-5=-469/774

#### NOTES

- 2-ply truss to be connected together with 0.131"x3" Nails as follows:  
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-4-0 oc.  
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- Provide adequate drainage to prevent water ponding.
- \*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 3561 lb uplift at joint 1 and 2668 lb uplift at joint 4.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2076 lb down and 2457 lb up at 1-6-12, 1064 lb down and 994 lb up at 3-6-12, and 1094 lb down and 1009 lb up at 5-6-12, and 1147 lb down and 1042 lb up at 7-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25

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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986443
RSNKLEIN	CGT	HIP	1	2	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL, MARK CRAY

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**LOAD CASE(S) Standard**

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 1-4=-20

Concentrated Loads (lb)

Vert: 9=-2076(F) 10=-1064(F) 11=-1094(F) 12=-1147(F)

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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986444
RSNKLEIN	CJ1	MONO TRUSS	5	1	Job Reference (optional)	
SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY						
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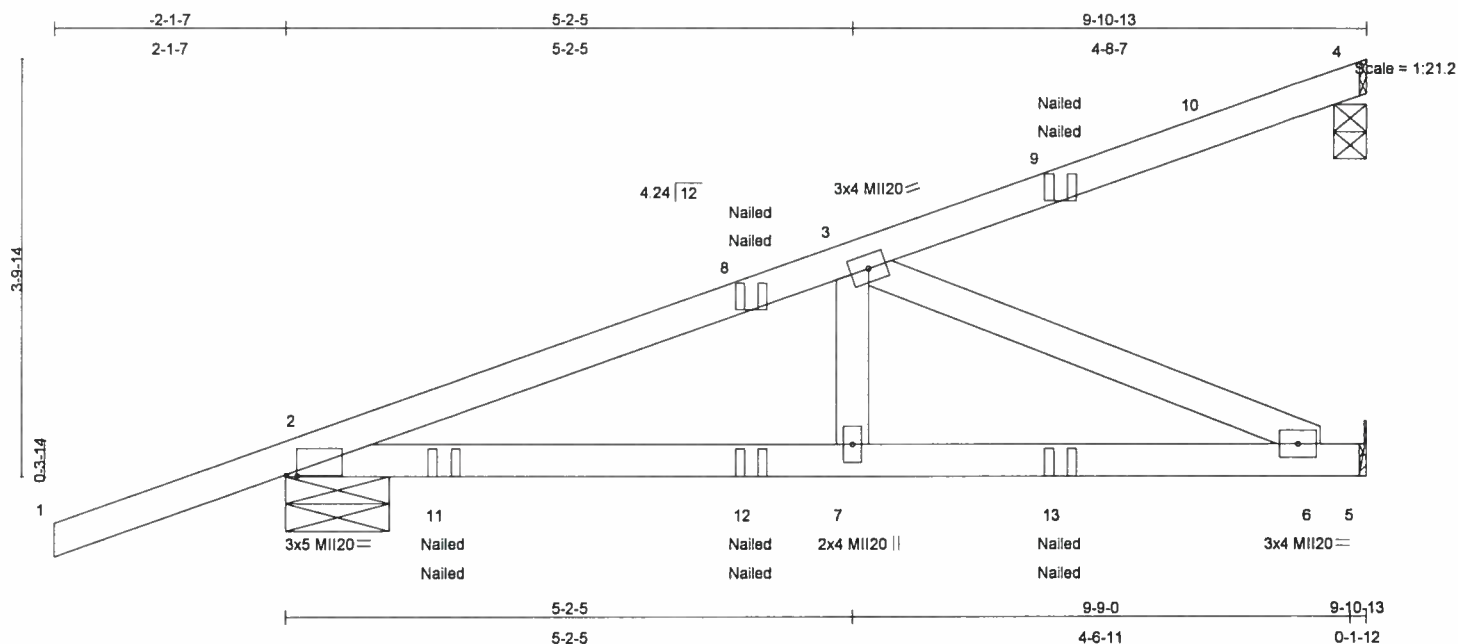


Plate Offsets (X,Y): [2:0-1-3,0-0-1]

LOADING (psf)
TCLL 20.0
TCDL 10.0
BCLL 10.0
BCDL 10.0

SPACING	2:0-0
Plates Increase	1.25
Lumber Increase	1.25
Rep Stress Incr	NO
Code FBC2004/TPI2002	

CSI	
TC	0.81
BC	0.43
WB	0.28
(Matrix)	

DEFL	in	(loc)	l/defl	L/d
Vert(LL)	0.07	6-7	>999	240
Vert(TL)	-0.11	6-7	>998	180
Horz(TL)	-0.01	5	n/a	n/a

PLATES	GRIP
MI20	249/190
Weight: 43 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-9-14 oc bracing.

#### REACTIONS (lb/size) 4=151/0-3-8, 2=555/0-11-5, 5=306/Mechanical

Max Horz 2=470(load case 3)  
Max Uplift 4=-262(load case 3), 2=-801(load case 3), 5=-304(load case 3)  
Max Grav 4=151(load case 1), 2=555(load case 1), 5=325(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/42, 2-8=-724/632, 3-8=-646/627, 3-9=-77/56, 9-10=-96/0, 4-10=-91/41  
BOT CHORD 2-11=-791/632, 11-12=-791/632, 7-12=-791/632, 7-13=-791/632, 6-13=-791/632, 5-6=0/0  
WEBS 3-7=0/342, 3-6=-689/862

#### NOTES

- 1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 4, 801 lb uplift at joint 2 and 304 lb uplift at joint 5.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4.
- 7) "Nailed" indicates 3-10d or 2-12d common wire toe-nails.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)

Vert: 1-4=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 8=45(F=23, B=23) 9=-109(F=-55, B=-55) 11=21(F=10, B=10) 12=-13(F=-6, B=-6) 13=-53(F=-26, B=-26)

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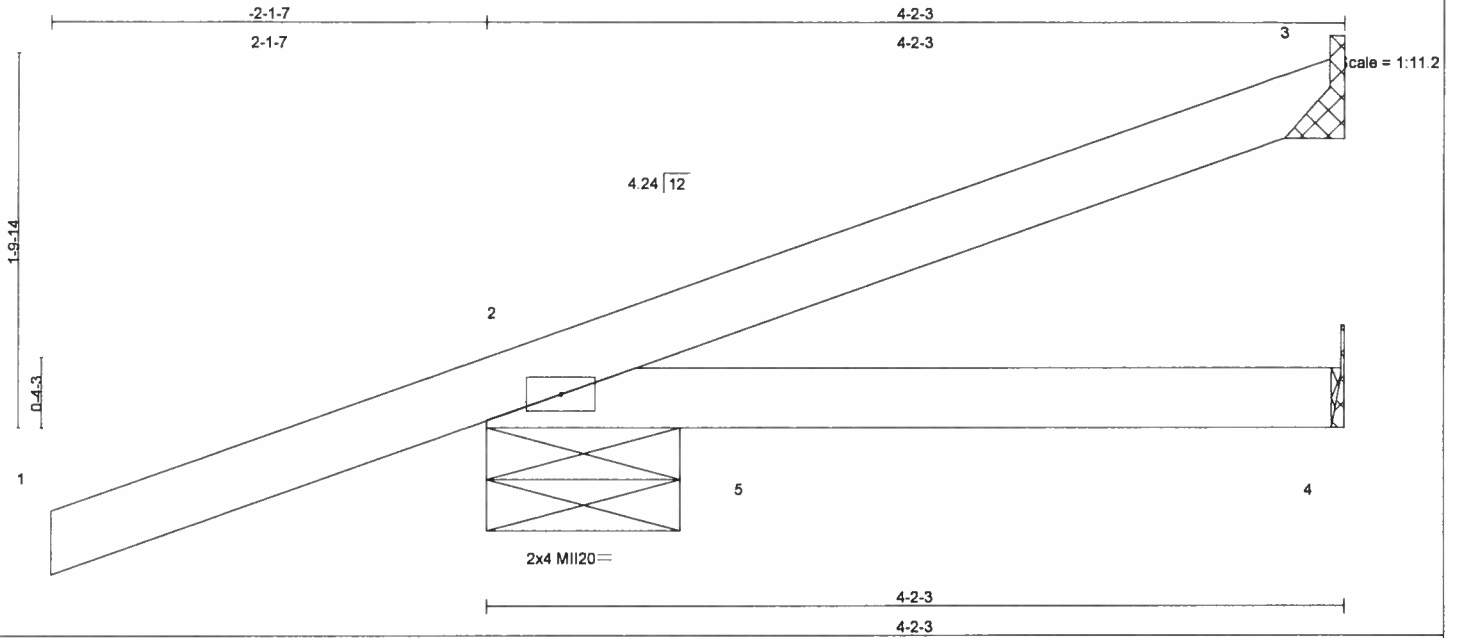
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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986445
RSNKLEIN	CJ2	JACK	2	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL.

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LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.80	Vert(LL)	-0.01	2-4	>999	M1120	249/190
TCDL 10.0	Plates Increase 1.25	BC 0.15	Vert(TL)	-0.03	2-4	>999		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix)						
	Code FBC2004/TPI2002							
							Weight: 16 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=62/Mechanical, 2=360/0-11-5, 4=44/Mechanical  
Max Horz 2=265(load case 3)  
Max Uplift 3=-98(load case 5), 2=-619(load case 3)  
Max Grav 3=62(load case 1), 2=360(load case 1), 4=81(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/41, 2-3=-59/15  
BOT CHORD 2-5=0/0, 4-5=0/0

#### NOTES

- 1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 3 and 619 lb uplift at joint 2.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 10 lb down and 11 lb up at 1-4-8, and 10 lb down and 11 lb up at 1-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 2-4=-20  
Concentrated Loads (lb)  
Vert: 5=-21(F=-10, B=-10)

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MiTek Industries, Inc.  
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Tampa FL 33619  
FL Cert.#6634

January 24, 2006

#### WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.

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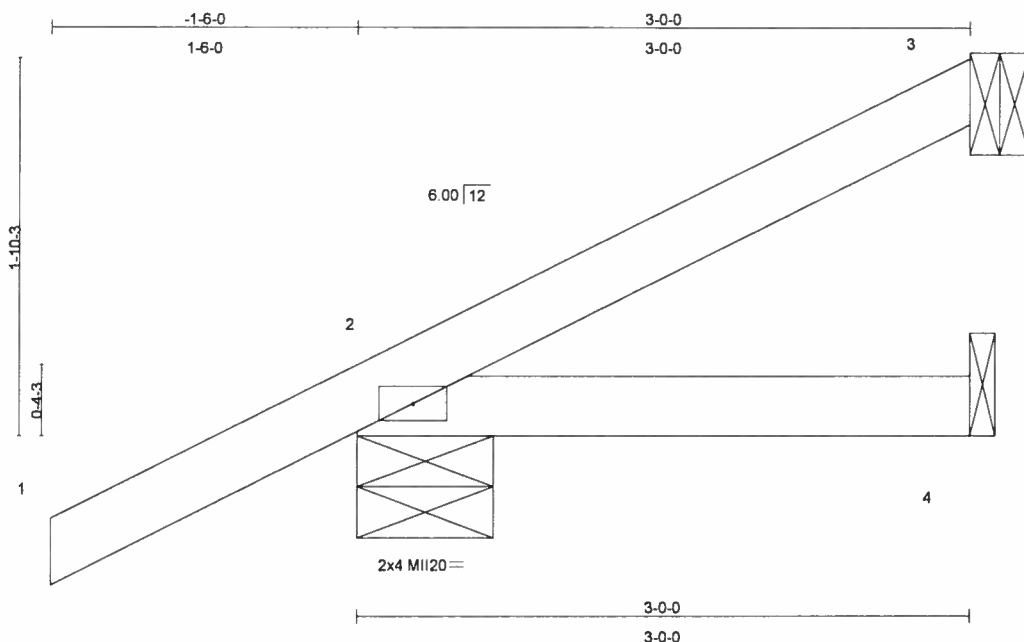




Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986446
RSNKLEIN	EJ3	JACK	3	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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Scale = 1:11.3

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.42	Vert(LL) -0.00	2-4	>999	240		MI120	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.06	Vert(TL) -0.01	2-4	>999	180			
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a			
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 12 lb	

**LUMBER**  
TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=36/Mechanical, 2=252/0-8-0, 4=26/Mechanical  
Max Horz 2=266(load case 5)  
Max Uplift 3=-75(load case 6), 2=-433(load case 5)  
Max Grav 3=36(load case 1), 2=252(load case 1), 4=52(load case 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/40, 2-3=-58/10  
BOT CHORD 2-4=0/0

- NOTES**
- 1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
  - 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 3 and 433 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Guo-Jie Zhang, FL Lic #47744  
MiTek Industries, Inc.  
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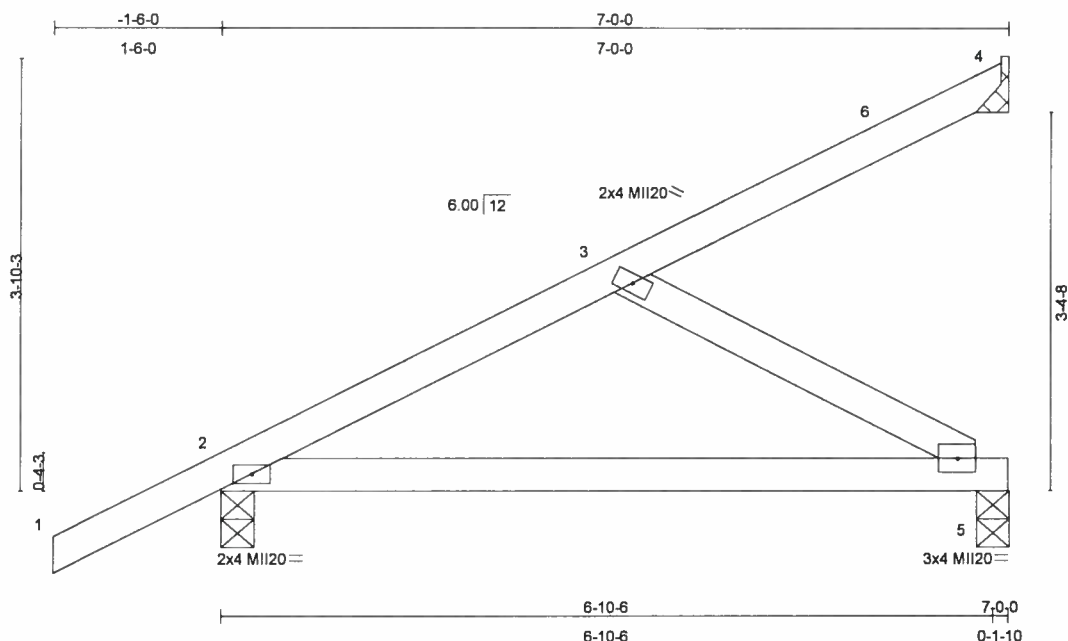
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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986447
RSNKLEIN	EJ7	JACK	24	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

6.200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09:28:36 2006 Page 1



**LOADING** (psf)  
 TCLL 20.0  
 TCCL 10.0  
 BCLL 10.0  
 BCDL 10.0

**SPACING** 2'-0"  
 Plates Increase 1.25  
 Lumber Increase 1.25  
 Rep Stress Incr YES  
 Code FBC2004/TPI2002

**CSI**  
 TC 0.35  
 BC 0.37  
 WB 0.13  
 (Matrix)

**DEFL** in (loc) l/defl L/d  
 Vert(LL) -0.09 2-5 >860 240  
 Vert(TL) -0.23 2-5 >344 180  
 Horz(TL) -0.00 5 n/a n/a

**PLATES** MII20  
**GRIP** 249/190  
 Weight: 30 lb

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
 BOT CHORD 2 X 4 SYP No.2D  
 WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

**REACTIONS** (lb/size) 4=83/Mechanical, 2=375/0-3-8, 5=174/0-3-8

Max Horz 2=468(load case 5)

Max Uplift 4=-146(load case 5), 2=-466(load case 5), 5=-183(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/39, 2-3=-271/166, 3-6=-81/0, 4-6=-69/28  
 BOT CHORD 2-5=-388/195  
 WEBS 3-5=-223/444

#### NOTES

- 1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCCL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 4, 466 lb uplift at joint 2 and 183 lb uplift at joint 5.

**LOAD CASE(S)** Standard

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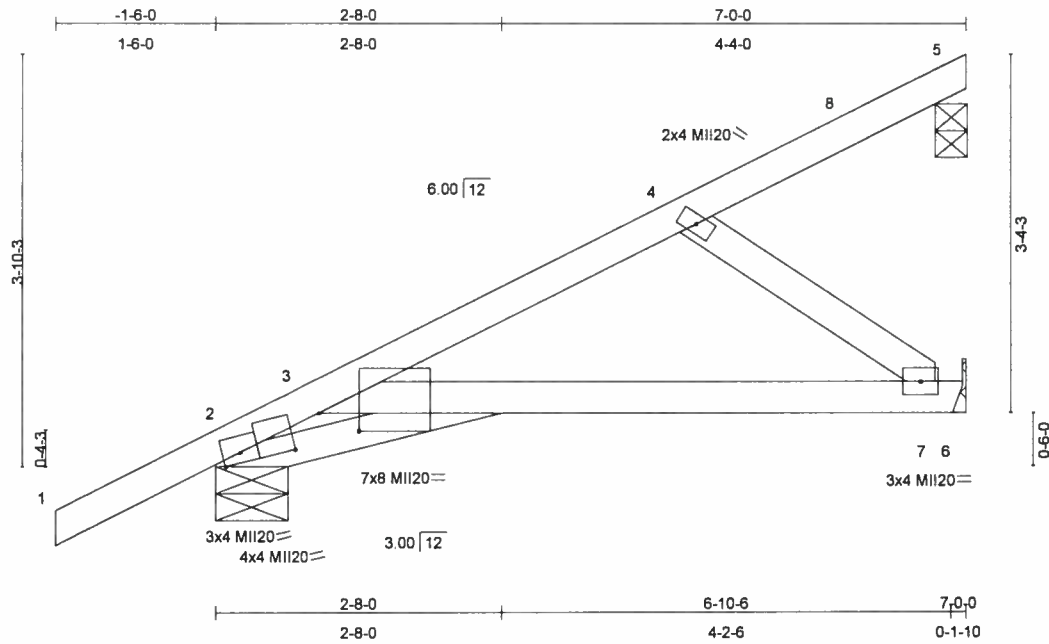
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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986448
RSNKLEIN	EJ7A	SPECIAL	4	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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Scale = 1:21.5

Plate Offsets (X,Y): [3:0-4-9,0-2-0], [3:0-3-9,0-3-5]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.24	Vert(LL)	-0.07	3-7	>999	240	MI20	249/190
TCDL 10.0	Lumber Increase	1.25	BC 0.33	Vert(TL)	-0.18	3-7	>444	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.15	Horz(TL)	-0.03	6	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 31 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP SS  
BOT CHORD 2 X 4 SYP No.2D  
WEBS 2 X 4 SYP No.3

#### BRACING

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

**REACTIONS** (lb/size) 5=48/0-3-8, 2=378/0-8-0, 6=196/Mechanical  
Max Horz 2=464(load case 5)  
Max Uplift 5=-69(load case 5), 2=-497(load case 5), 6=-244(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/36, 2-3=-187/0, 3-4=-240/183, 4-8=-46/0, 5-8=-35/15  
BOT CHORD 3-7=-394/195, 6-7=0/0  
WEBS 4-7=-240/486

#### NOTES

- 1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 5, 497 lb uplift at joint 2 and 244 lb uplift at joint 6.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5.

**LOAD CASE(S)** Standard

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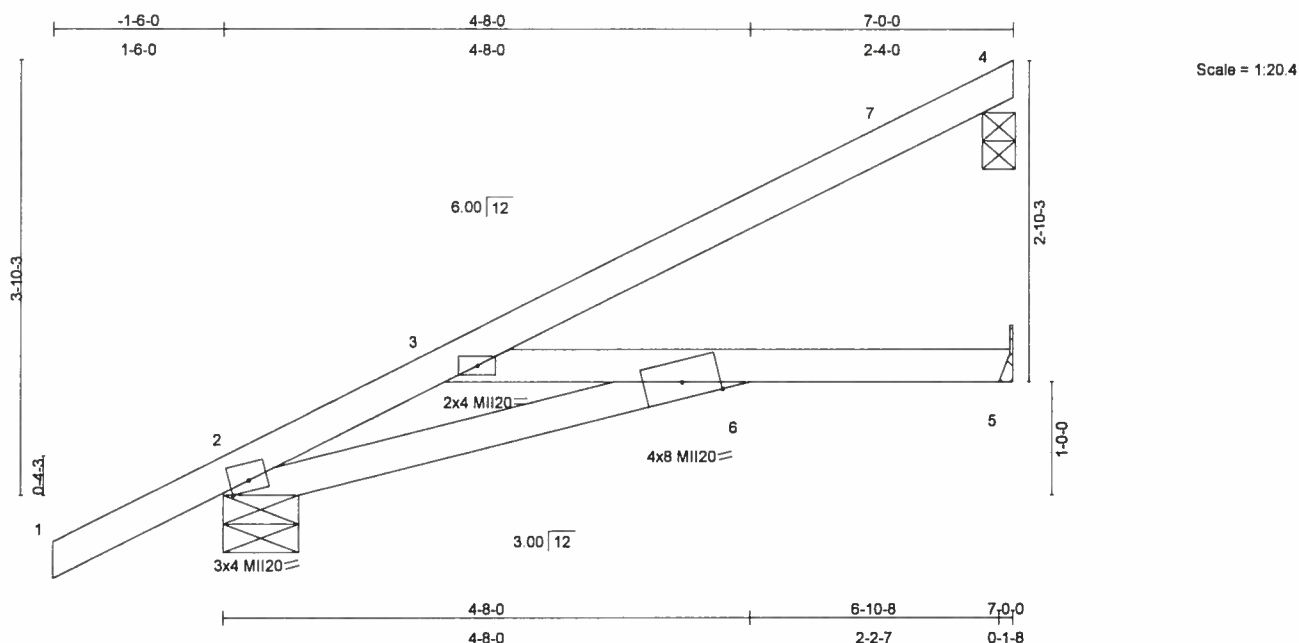
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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986449
RSNKLEIN	EJ7B	SPECIAL	4	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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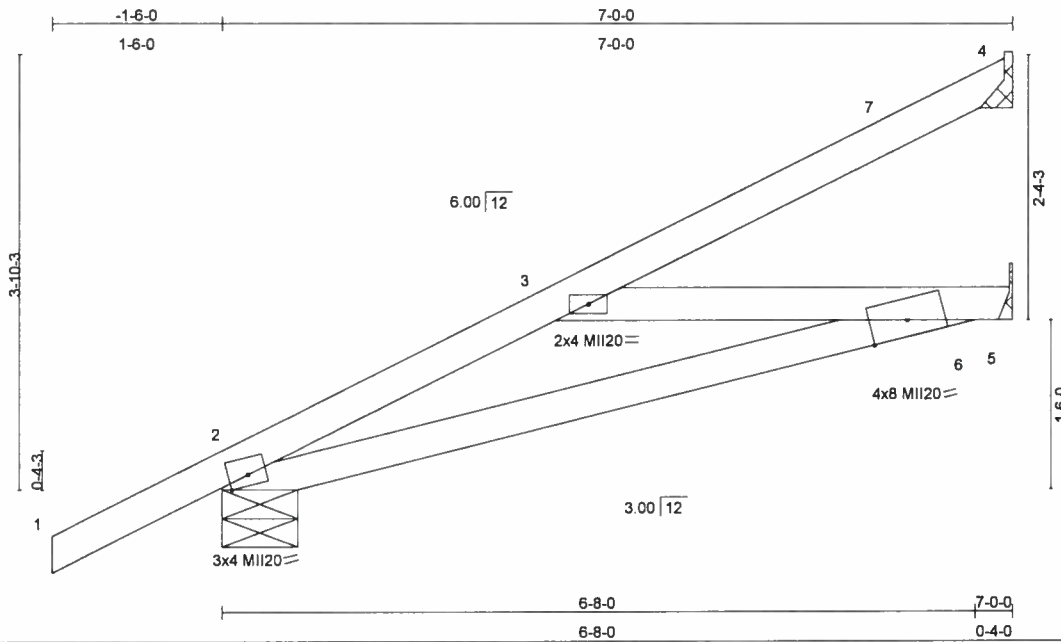




Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986450
RSNKLEIN	EJ7C	SPECIAL	4	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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Scale = 1:20.4

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	Vert(LL)	-0.08	2-6	>951	240	MI20	249/190
TCDL 10.0	Plates Increase 1.25	BC 0.37	Vert(TL)	-0.21	2-6	>379	180		
BCLL 10.0 *	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.01	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 31 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-9-1 oc bracing.

#### REACTIONS (lb/size)

4=105/Mechanical, 2=412/0-8-0, 5=190/Mechanical  
Max Horz 2=464(load case 5)  
Max Uplift 4=-187(load case 5), 2=-478(load case 5), 5=-102(load case 5)  
Max Grav 4=105(load case 1), 2=412(load case 1), 5=254(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-3=-514/470, 3-7=-102/0, 4-7=-88/37  
BOT CHORD 2-6=-679/421, 3-6=-396/653, 5-6=0/0

#### NOTES

- 1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 4, 478 lb uplift at joint 2 and 102 lb uplift at joint 5.

#### LOAD CASE(S) Standard

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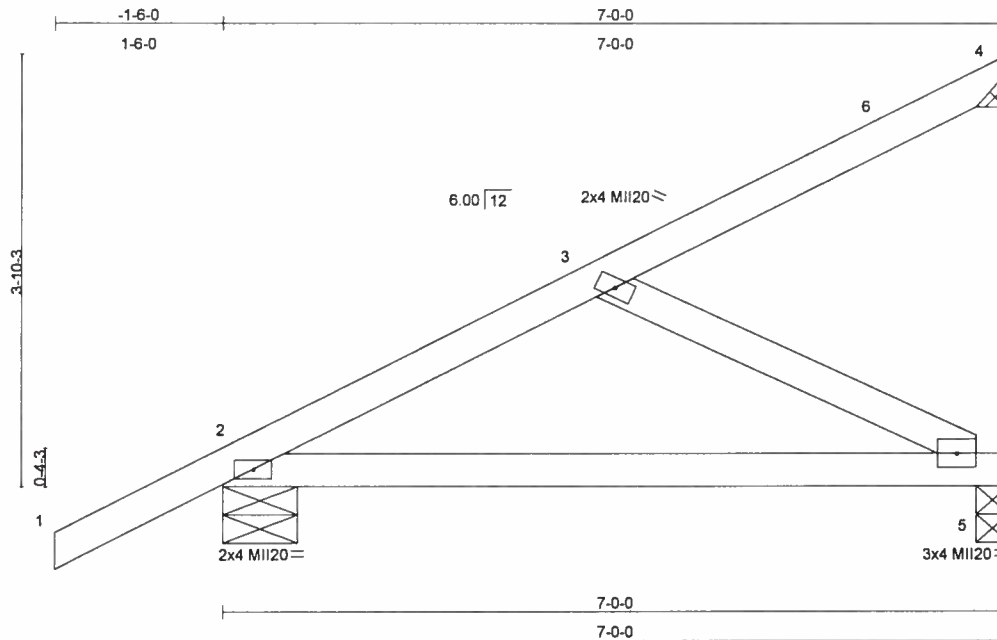
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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986451
RSNKLEIN	EJ7D	JACK	4	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

6 200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09:28:39 2006 Page 1



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.42	Vert(LL)	-0.08	2-5	>938	240	MI20	249/190
TCDL 10.0	Lumber Increase	1.25	BC 0.35	Vert(TL)	-0.20	2-5	>375	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.12	Horz(TL)	-0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002		(Matrix)						Weight: 30 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D  
WEBS 2 X 4 SYP No.3

#### BRACING

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

#### REACTIONS (lb/size) 4=91/Mechanical, 2=383/0-8-0, 5=155/0-3-8

Max Horz 2=468(load case 5)  
Max Uplift 4=-162(load case 5), 2=-490(load case 5), 5=-154(load case 5)  
Max Grav 4=91(load case 1), 2=383(load case 1), 5=158(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-261/152, 3-6=-88/0, 4-6=-76/31  
BOT CHORD 2-5=-368/181  
WEBS 3-5=-203/412

#### NOTES

- 1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 4, 490 lb uplift at joint 2 and 154 lb uplift at joint 5.

#### LOAD CASE(S) Standard

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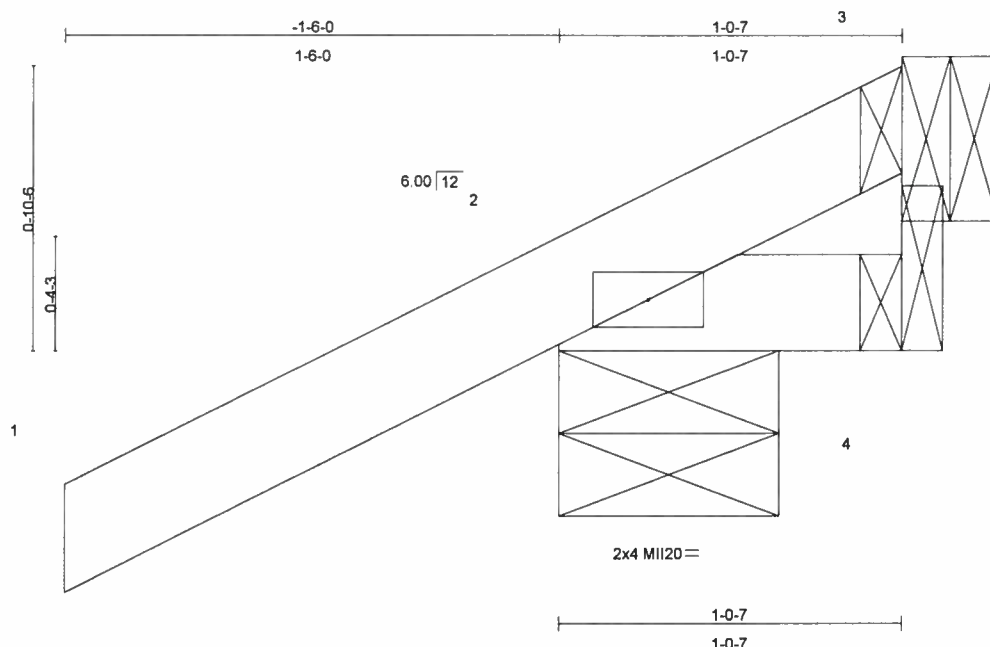
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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986452
RSNKLEIN	J1	JACK	14	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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Scale = 1:7.0

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	Vert(LL)	-0.00	2	>999	240	MI120	249/190
TCDL 10.0	Plates Increase 1.25	BC 0.01	Vert(TL)	-0.00	2	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 6 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 1-0-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS (lb/size) 2=210/0-8-0, 4=10/Mechanical, 3=-50/Mechanical

Max Horz 2=166(load case 5)  
Max Uplift 2=-470(load case 5), 3=-50(load case 1)  
Max Grav 2=210(load case 1), 4=19(load case 2), 3=162(load case 5)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/39, 2-3=-53/80  
BOT CHORD 2-4=0/0

#### NOTES

- 1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 470 lb uplift at joint 2 and 50 lb uplift at joint 3.

#### LOAD CASE(S) Standard

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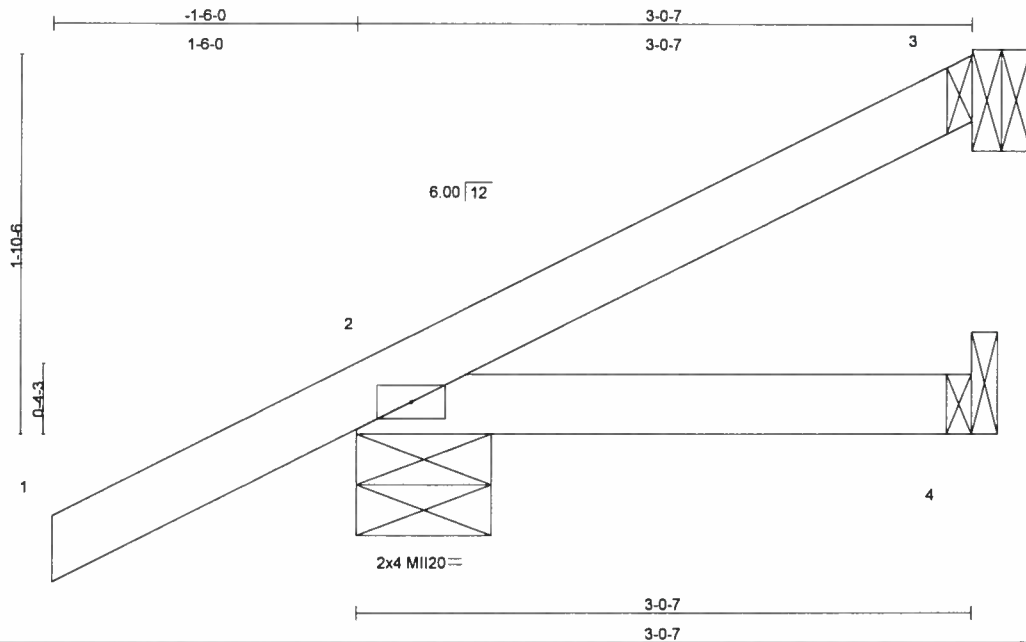
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Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986453
RSNKLEIN	J3	JACK	10	1	Job Reference (optional)	

SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY

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LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.42	Vert(LL)	-0.00	2-4	>999	240	249/190
TCDL 10.0	Lumber Increase 1.25	BC 0.06	Vert(TL)	-0.01	2-4	>999	180	
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 12 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS (lb/size) 3=37/Mechanical, 2=253/0-8-0, 4=26/Mechanical

Max Horz 2=268(load case 5)  
Max Uplift 3=-77(load case 6), 2=-432(load case 5)  
Max Grav 3=37(load case 1), 2=253(load case 1), 4=53(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-58/11  
BOT CHORD 2-4=0/0

#### NOTES

- 1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCCL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 3 and 432 lb uplift at joint 2.

#### LOAD CASE(S) Standard

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MiTek Industries, Inc.  
1801 Massaro Blvd  
Tampa FL 33619  
FL Cert.#6634

January 24, 2006

#### WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.

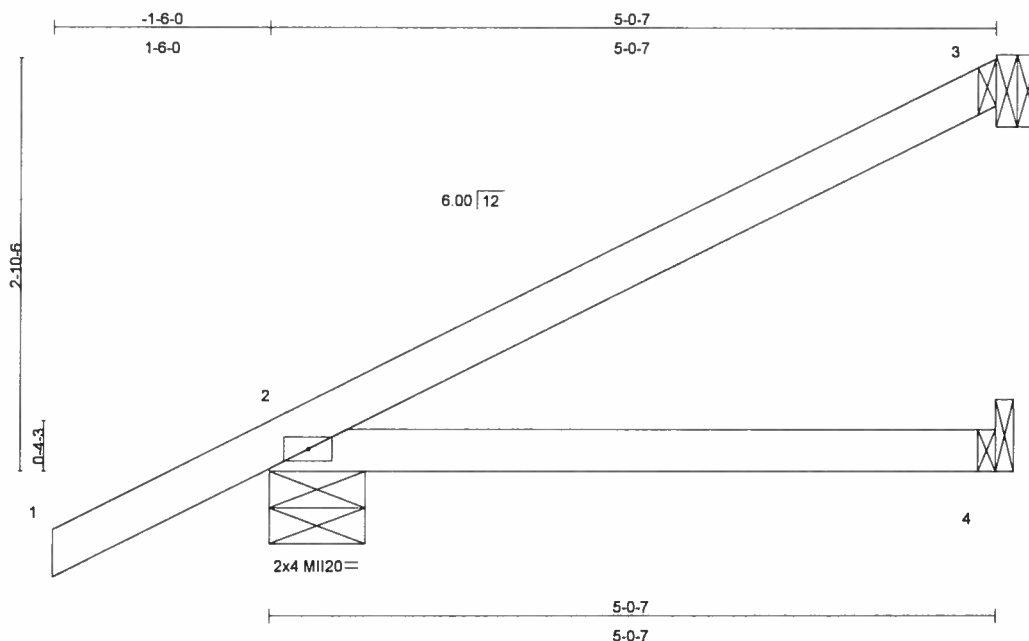
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral 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, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

1801 Massaro Blvd.  
Tampa, FL 33619





Job	Truss	Truss Type	Qty	Ply	RON KLEIN	T1986454
RSNKLEIN	J5	JACK	10	1	Job Reference (optional)	
SANTA FE TRUSS, HIGH SPRINGS FL., MARK CRAY						
6.200 s Oct 18 2005 MiTek Industries, Inc. Tue Jan 24 09:28:42 2006 Page 1						



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MI120	249/190
TCDL 10.0	Plates Increase 1.25	BC 0.18	Vert(LL) -0.02 2-4 >999 240		
BCLL 10.0 *	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.06 2-4 >972 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TPI2002			Weight: 19 lb	

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2D	TOP CHORD Structural wood sheathing directly applied or 5-0-7 oc purlins.
BOT CHORD 2 X 4 SYP No.2D	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=115/Mechanical, 2=315/0-8-0, 4=46/Mechanical  
Max Horz 2=376(load case 5)  
Max Uplift 3=-236(load case 5), 2=-446(load case 5)  
Max Grav 3=115(load case 1), 2=315(load case 1), 4=93(load case 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/40, 2-3=-135/42  
BOT CHORD 2-4=0/0

**NOTES**  
1) Wind: ASCE 7-02; 150mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.  
2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.  
4) Refer to girder(s) for truss to truss connections.  
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 3 and 446 lb uplift at joint 2.

**LOAD CASE(S)** Standard

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