

Project Information for:		L206596	
Builder:	BRYAN ZECHER	Date:	8/14/2006
Lot:	NA	Start Number:	2352
Subdivision:	304 SW SHORTLEAF DR	SEI Ref:	L206596
County or City:	COLUMBIA COUNTY		
Truss Page Count:	40		

Truss Design Load Information (UNO)		Design Program: MiTek	
Gravity	Wind	Building Code:	FBC2004
Roof (psf): 42	Wind Standard: ASCE 7-02		
Floor (psf): 55	Wind Speed (mph): 110		

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)	
ZECHER, BRYAN C. CBC 054575	
Address: PO BOX 815	Designer: 175
LAKE CITY, FLORIDA 32056	

Truss Design Engineer:	Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987
Company:	Structural Engineering and Inspections, Inc. EB 9196
Address	16105 N. Florida Ave, Ste B, Lutz, FL 33549
	Phone: 813-849-5769

Notes:

1. Truss Design Engineer is responsible for the individual trusses as components only.
2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
4. Trusses designed for vertical loads only, unless noted otherwise.
5. Where hangers are shown, Carried Member hanger capacity per Simpson C-2006 (SYP/Full Nailing Value) as an individual component. Building Designer shall verify the suitability and use of Carrying Member hanger capacity.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ2A	0814062352	8/14/2006				
2	CJ3	0814062353	8/14/2006				
3	CJ4	0814062354	8/14/2006				
4	CJ6	0814062355	8/14/2006				
5	EJ7	0814062357	8/14/2006				
6	EJ7A	0814062358	8/14/2006				
7	EJ7T	0814062359	8/14/2006				
8	HJ5A	0814062360	8/14/2006				
9	PB01	0814062361	8/14/2006				
10	PB02	0814062362	8/14/2006				
11	PB03	0814062363	8/14/2006				
12	PB04	0814062364	8/14/2006				
13	PB05	0814062365	8/14/2006				
14	PB06	0814062366	8/14/2006				
15	T01G	0814062367	8/14/2006				
16	T02	0814062368	8/14/2006				
17	T03	0814062369	8/14/2006				
18	T04G	0814062370	8/14/2006				
19	T05	0814062371	8/14/2006				
20	T06	0814062372	8/14/2006				
21	T07	0814062373	8/14/2006				
22	T07	0814062374	8/14/2006				
23	T08	0814062375	8/14/2006				
24	T09	0814062376	8/14/2006				
25	T10	0814062377	8/14/2006				
26	T11	0814062378	8/14/2006				
27	T12	0814062379	8/14/2006				
28	T13	0814062380	8/14/2006				
29	T14	0814062381	8/14/2006				
30	T15	0814062382	8/14/2006				
31	T16	0814062383	8/14/2006				
32	T17	0814062384	8/14/2006				
33	T18	0814062385	8/14/2006				
34	T19	0814062386	8/14/2006				
35	T20	0814062387	8/14/2006				
36	T21	0814062388	8/14/2006				
37	T22	0814062389	8/14/2006				
38	T23	0814062390	8/14/2006				
39	T24G	0814062391	8/14/2006				
40	T25	0814062392	8/14/2006				

AUG 14 2006

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Licensee Details**Licensee Information**

Name: **ZECHER, BRYAN CHRISTIAN (Primary Name)**
BRYAN ZECHER CONSTRUCTION INC (DBA)
Main Address: **P O BOX 815**
LAKE CITY, Florida 32056
Lic. Location: **465 NW ORANGE ST**
LAKE CITY, FL 32055 United States
Columbia

License Information

License Type: **Certified Building Contractor**
Rank: **Cert Building**
License Number: **CBC054575**
Status: **Current, Active**
Licensure Date: **12/05/1991**
Expires: **08/31/2006**

Special Qualifications

Effective Date

Bldg Code Core Course Credit

Qualified Business License
Required

04/13/2004

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Job L206596	Truss CJ2A	Truss Type JACK	Qty 1	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:28:25 2006 Page 1		

Scale = 1/16\"

LOADING (psf)	SPACING 2-0-0	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.22	Ver(LL) 0.01 4-5 >999 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Ver(TL) 0.01 4-5 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) -0.05 3 n/a n/a		
				Weight: 13 lb	

LUMBER TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 WEBS 2 X 4 SYP No.3	BRACING TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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REACTIONS (lb/size) 5=261/0-4-0, 4=16/Mechanical, 3=-6/Mechanical
 Max Horz 5=149(load case 5)
 Max Uplift 5=-63(load case 5), 4=-66(load case 5), 3=-49(load case 5)
 Max Grav 5=261(load case 1), 4=16(load case 1), 3=18(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-5=-221/166, 1-2=0/64, 2-3=-58/9
 BOT CHORD 4-5=0/0

JOINT STRESS INDEX
 2 = 0.74 and 5 = 0.43

NOTES
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 2) Refer to girder(s) for truss to truss connections.
 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 5, 66 lb uplift at joint 4 and 49 lb uplift at joint 3.

LOAD CASE(S) Standard

**AUGUST 14, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549**

Job L206596	Truss EJ7	Truss Type MONO TRUSS	Qty 29	Ply 1	WILSON RESIDENCE
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Builders FirstSource, Lake City, FL 32055

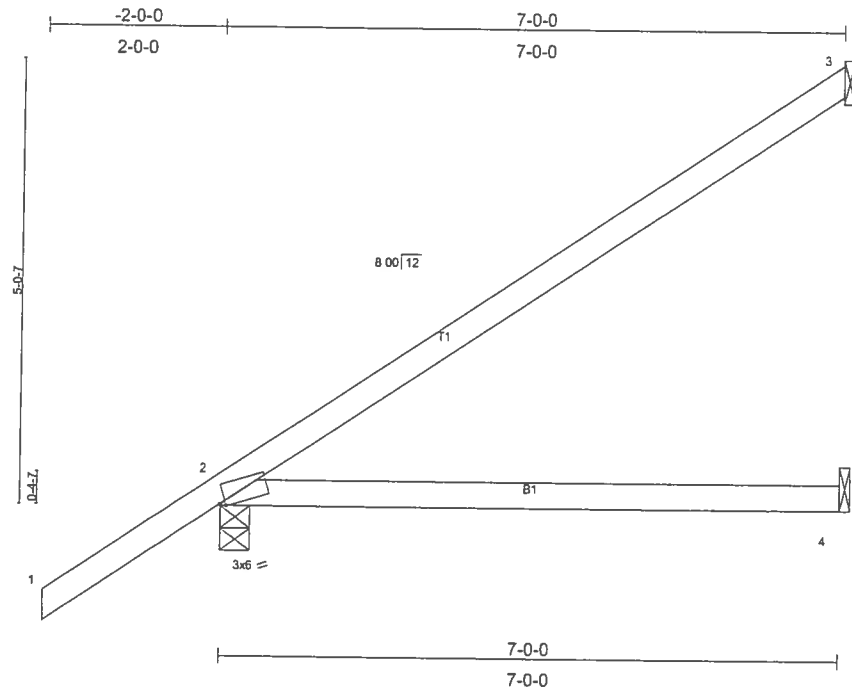
Job Reference (optional)
6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:28:36 2006 Page 1

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

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	Vert(LL)	0.31	2-4	>263	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.43	Vert(TL)	0.26	2-4	>314	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 27 lb	

LUMBER

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

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) 3=161/Mechanical, 2=420/0-4-0, 4=105/Mechanical
Max Horz 2=298(load case 5)
Max Uplift 3=169(load case 5), 2=-267(load case 5), 4=-70(load case 6)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/60, 2-3=-143/71
BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.70

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 3, 267 lb uplift at joint 2 and 70 lb uplift at joint 4.

LOAD CASE(S) Standard

Job L206596	Truss EJ7A	Truss Type MONO SCISSOR	Qty 3	Ply 1	WILSON RESIDENCE Job Reference (optional)
Builders FirstSource, Lake City, Fl 32055			6.200 s Jul 13 2005 M/Tek Industries, Inc Mon Aug 14 09:28:39 2006 Page 1		

Diagram Details:

- Dimensions:** Top chord horizontal spans are 2-0-0 and 7-0-0. Bottom chord horizontal spans are 2-0-0 and 7-0-0. Vertical height is 5-0-7.
- Members:** T1 (top chord), B1 (bottom chord), W1 (web). Plates are labeled 1, 2, 3, 4, 5.
- Connections:** Labeled 1, 2, 3, 4, 5.
- Scale:** Scale = 1.22.0

Plate Offsets (X,Y): [1:0-1-10,0-0-3]

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) 0.31	1-5	>253	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.51	Vert(TL) 0.28	1-5	>282	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.12	Horz(TL) -0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)						

Weight: 33 lb

LUMBER	BRACING
TOP CHORD 2 X 6 SYP No.1D	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 1=273/0-4-0, 3=367/Mechanical, 4=-94/Mechanical
Max Horz 1=289(load case 5)
Max Uplift 1=-92(load case 5), 3=-352(load case 3), 4=-94(load case 1)
Max Grav 1=273(load case 1), 3=367(load case 1), 4=298(load case 3)

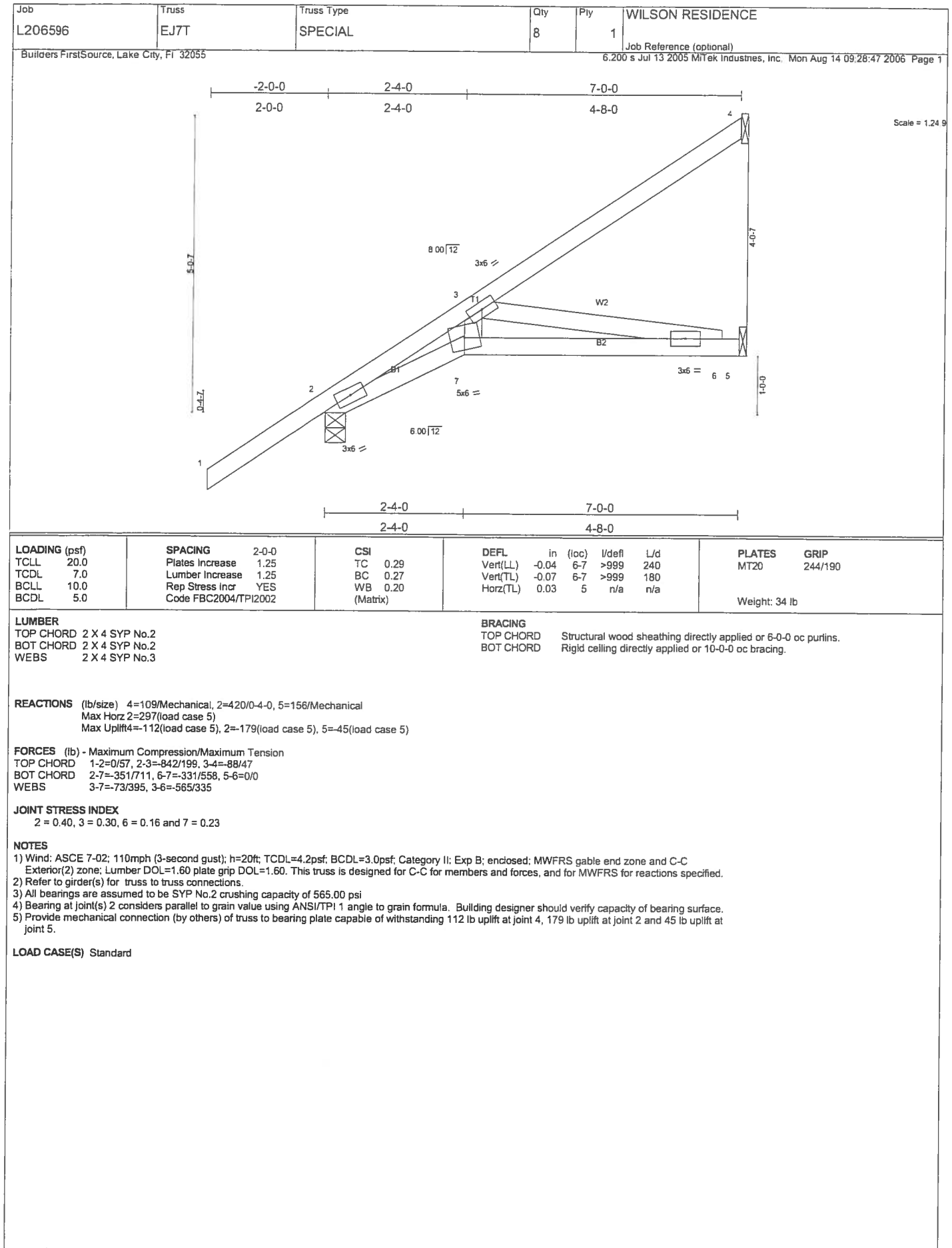
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-135/63, 2-3=-627/202
BOT CHORD 1-5=-180/44, 4-5=-47/271
WEBS 2-5=-972/203

JOINT STRESS INDEX
1 = 0.06, 1 = 0.00, 2 = 0.47 and 5 = 0.38

NOTES

- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCCL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Refer to girder(s) for truss to truss connections.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 1, 352 lb uplift at joint 3 and 94 lb uplift at joint 4.

LOAD CASE(S) Standard



Job L206596	Truss HJ5A	Truss Type JACK	Qty 1	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc Mon Aug 14 09:28:54 2006 Page 1		

Scale = 1.227

LOADING (psf) TCCL 20.0 TCDL 7.0 BCCL 10.0 BCDL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2004/TPI2002	CSI TC 0.78 BC 0.25 WB 0.00 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) 0.05 4-5 >999 240 Vert(TL) 0.05 4-5 >999 180 Horz(TL) -0.11 3 n/a n/a	PLATES MT20 GRIP 244/190 Weight: 25 lb
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LUMBER

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

WEBS 2 X 4 SYP No.3

REACTIONS (lb/size) 5=316/0-6-7, 3=107/Mechanical, 4=67/Mechanical

Max Horz 5=218(load case 4)

Max Uplift 5=-152(load case 4), 3=-113(load case 4), 4=-12(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-267/188, 1-2=0/68, 2-3=-62/29

BOT CHORD 4-5=0/0

JOINT STRESS INDEX

2 = 0.85 and 5 = 0.44

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.

2) Refer to girder(s) for truss to truss connections.

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 5, 113 lb uplift at joint 3 and 12 lb uplift at joint 4.

5) 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: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-2(F=26, B=26)-to-3=-76(F=-11, B=-11), 5=0(F=15, B=15)-to-4=-42(F=-6, B=-6)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

Job L206596	Truss PB01	Truss Type HIP PIGGYBACK	Qty 2	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Aug 14 09:28:57 2006 Page 1		

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.12	Vert(LL) 0.01 2-16 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.05	Vert(TL) -0.01 10-12 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 11 n/a n/a		
	Code FBC2004/TP12002			Weight: 65 lb	

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

REACTIONS (lb/size) 1=131/0-4-0, 11=133/0-4-0, 16=358/0-4-0, 15=282/0-4-0, 14=136/0-4-0, 13=281/0-4-0, 12=361/0-4-0
 Max Horz 1=43(load case 4)
 Max Uplift 1=49(load case 5), 11=52(load case 6), 16=169(load case 4), 15=148(load case 3), 14=60(load case 4), 13=145(load case 4), 12=161(load case 3)
 Max Grav 1=131(load case 1), 11=133(load case 1), 16=362(load case 9), 15=290(load case 10), 14=136(load case 1), 13=289(load case 9), 12=365(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-64/40, 2-3=-92/50, 3-4=-66/56, 4-5=-66/56, 5-6=-66/56, 6-7=-66/56, 7-8=-66/56, 8-9=-66/56, 9-10=-92/51, 10-11=-65/32
 BOT CHORD 2-16=-24/66, 15-16=-24/66, 14-15=-24/66, 13-14=-24/66, 12-13=-24/66, 10-12=-24/66
 WEBS 4-16=-219/180, 5-15=-189/168, 6-14=-84/67, 7-13=-189/166, 8-12=-221/176

JOINT STRESS INDEX
 2 = 0.24, 3 = 0.17, 4 = 0.34, 5 = 0.34, 6 = 0.34, 7 = 0.34, 8 = 0.34, 9 = 0.17, 10 = 0.25, 12 = 0.34, 13 = 0.34, 14 = 0.34, 15 = 0.34 and 16 = 0.34

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Bearing at joint(s) 1, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 52 lb uplift at joint 11, 169 lb uplift at joint 16, 148 lb uplift at joint 15, 60 lb uplift at joint 14, 145 lb uplift at joint 13 and 161 lb uplift at joint 12.
- 8) SEE Mitek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

Job L206596	Truss PB02	Truss Type HIP PIGGYBACK	Qty 2	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

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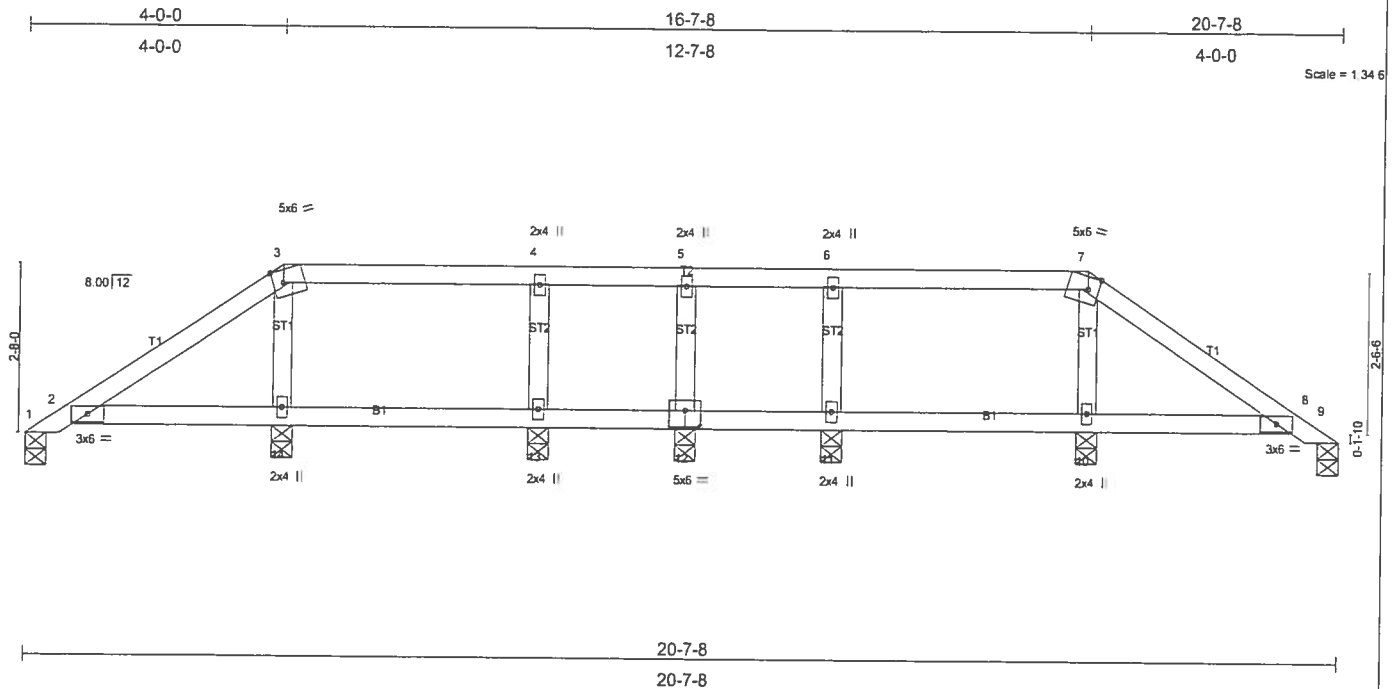


Plate Offsets (X,Y): [3:0-2-0,Edge], [7:0-2-0,Edge], [12:0-3-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.10	Vert(LL) 0.01 2-14 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.05	Vert(TL) -0.01 2-14 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 9 n/a n/a		
	Code FBC2004/TPI2002			Weight: 76 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 OTHERS 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 6-0-0 oc bracing.

REACTIONS

(lb/size) 1=66/0-4-0, 9=66/0-4-0, 12=136/0-4-0, 10=425/0-4-0, 11=283/0-4-0, 14=425/0-4-0, 13=283/0-4-0

Max Horz 1=89(load case 4)

Max Uplift 1=-21(load case 6), 9=-33(load case 3), 12=-53(load case 4), 10=-138(load case 6), 11=-161(load case 4), 14=-154(load case 5), 13=-163(load case 3)

Max Grav 1=83(load case 9), 9=83(load case 10), 12=136(load case 1), 10=425(load case 1), 11=301(load case 9), 14=425(load case 1), 13=301(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-79/87, 2-3=-71/170, 3-4=0/89, 4-5=0/88, 5-6=0/88, 6-7=0/89, 7-8=-50/170, 8-9=-40/21

BOT CHORD 2-14=-88/95, 13-14=-88/95, 12-13=-88/95, 11-12=-88/95, 10-11=-88/95, 8-10=-88/95

WEBS 5-12=-85/64, 7-10=-285/172, 6-11=-198/179, 3-14=-285/172, 4-13=-198/179

JOINT STRESS INDEX

2 = 0.24, 3 = 0.39, 4 = 0.34, 5 = 0.34, 6 = 0.34, 7 = 0.39, 8 = 0.24, 10 = 0.34, 11 = 0.34, 12 = 0.20, 13 = 0.34 and 14 = 0.34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1, 33 lb uplift at joint 9, 53 lb uplift at joint 12, 138 lb uplift at joint 10, 161 lb uplift at joint 11, 154 lb uplift at joint 14 and 163 lb uplift at joint 13.
- SEE MITek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

Job L206596	Truss PB03	Truss Type HIP PIGGYBACK	Qty 2	Ply 1	WILSON RESIDENCE
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Builders FirstSource, Lake City, FL 32055

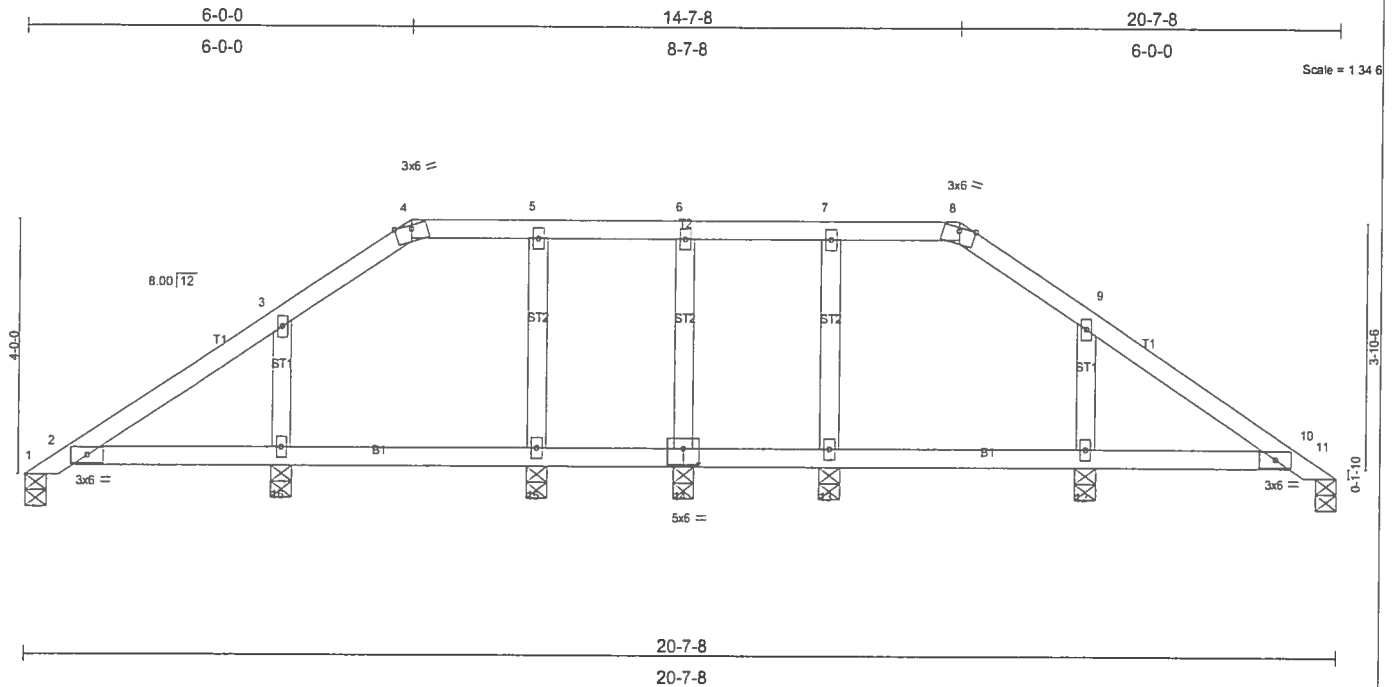
Job Reference (optional)
6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Aug 14 09:29:05 2006 Page 1

Plate Offsets (X,Y): [14;0-3-0-0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2'-0-0	TC 0.14	Vert(LL)	0.01	2-16	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.12	Vert(TL)	-0.01	10-12	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.05	Horz(TL)	0.01	11	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 83 lb	

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 OTHERS 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) 1=125/0-4-0, 11=125/0-4-0, 14=148/0-4-0, 12=376/0-4-0, 13=266/0-4-0, 16=376/0-4-0, 15=266/0-4-0
 Max Horz 1=136(load case 4)
 Max Uplift 1=34(load case 3), 11=24(load case 6), 14=98(load case 3), 12=181(load case 6), 13=92(load case 4), 16=192(load case 5), 15=104(load case 4)
 Max Grav 1=127(load case 9), 11=127(load case 10), 14=153(load case 9), 12=376(load case 1), 13=266(load case 1), 16=376(load case 1), 15=266(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-125/139, 2-3=-79/114, 3-4=-87/87, 4-5=-21/84, 5-6=-21/84, 6-7=-21/84, 7-8=-21/84, 8-9=-87/84, 9-10=-60/68, 10-11=-62/19
 BOT CHORD 2-16=-55/107, 15-16=-55/107, 14-15=-55/107, 13-14=-55/107, 12-13=-55/107, 10-12=-55/107
 WEBS 6-14=-101/107, 9-12=-226/188, 7-13=-172/114, 3-16=-226/196, 5-15=-172/131

JOINT STRESS INDEX
 2 = 0.33, 3 = 0.34, 4 = 0.17, 5 = 0.34, 6 = 0.34, 7 = 0.34, 8 = 0.17, 9 = 0.34, 10 = 0.33, 12 = 0.34, 13 = 0.34, 14 = 0.20, 15 = 0.34 and 16 = 0.34

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Bearing at joint(s) 1, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1, 24 lb uplift at joint 11, 98 lb uplift at joint 14, 181 lb uplift at joint 12, 92 lb uplift at joint 13, 192 lb uplift at joint 16 and 104 lb uplift at joint 15.
- 8) SEE MITek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

Job L206596	Truss PB04	Truss Type HIP PIGGYBACK	Qty 2	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:29:09 2006 Page 1		

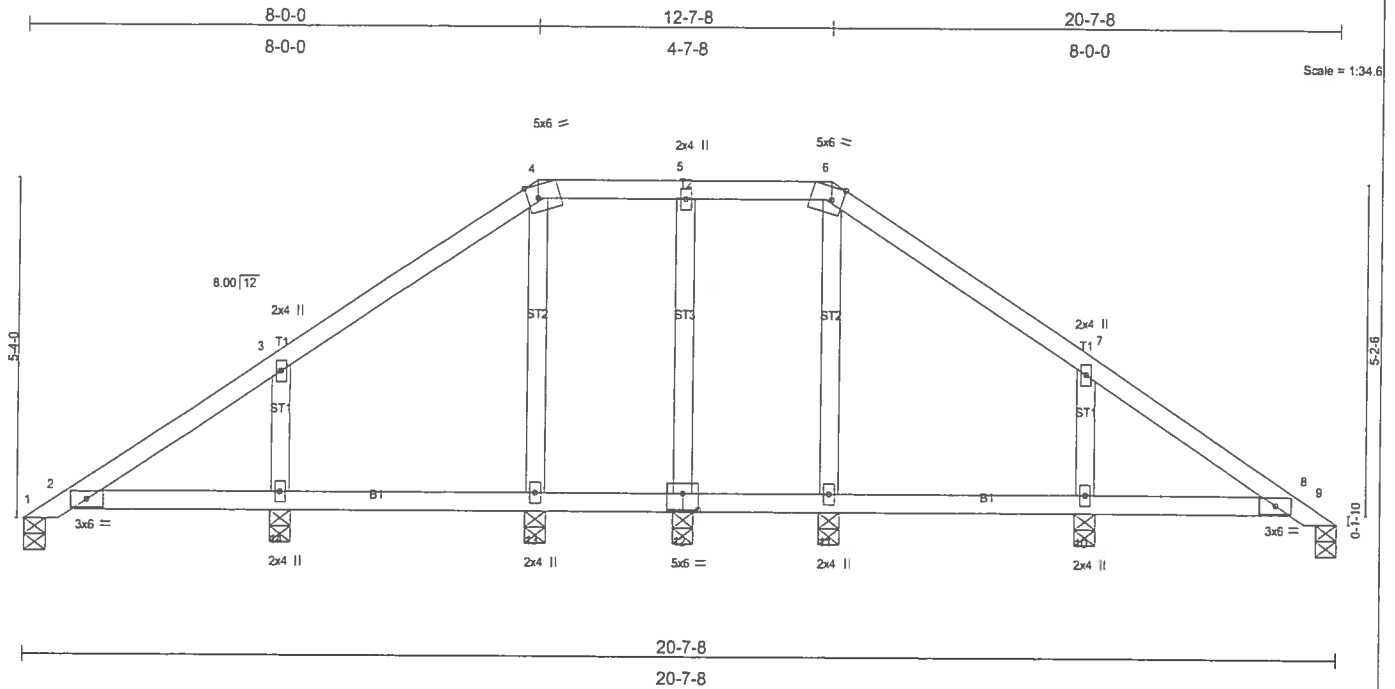


Plate Offsets (X,Y): [4:0-2-0,Edge], [6:0-2-0,Edge], [12:0-3-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	0.01	2-14	>999	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.10	Vert(TL)	-0.01	8-10	>999		
BCLL 10.0	Lumber Increase 1.25	WB 0.10	Horz(TL)	0.01	9	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)						
	Code FBC2004/TPI2002							
							Weight: 90 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 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 6-0-0 oc bracing.

REACTIONS (lb/size)

1=76/0-4-0, 9=76/0-4-0, 12=141/0-4-0, 10=369/0-4-0, 11=326/0-4-0, 14=369/0-4-0, 13=326/0-4-0
Max Horz 1=-182(load case 3)
Max Uplift 1=-55(load case 3), 9=-14(load case 6), 12=-102(load case 4), 10=-222(load case 6), 11=-58(load case 6), 14=-227(load case 5), 13=-101(load case 4)
Max Grav 1=85(load case 9), 9=85(load case 10), 12=161(load case 10), 10=372(load case 10), 11=326(load case 1), 14=372(load case 9), 13=326(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-188/189, 2-3=-150/149, 3-4=-51/141, 4-5=0/129, 5-6=0/129, 6-7=0/141, 7-8=-72/149, 8-9=-41/11
BOT CHORD 2-14=-70/113, 13-14=-70/113, 12-13=-70/113, 11-12=-70/113, 10-11=-70/113, 8-10=-70/113
WEBS 5-12=-111/110, 7-10=-230/234, 6-11=-229/95, 3-14=-230/236, 4-13=-229/126

JOINT STRESS INDEX

2 = 0.24, 3 = 0.34, 4 = 0.27, 5 = 0.34, 6 = 0.27, 7 = 0.34, 8 = 0.24, 10 = 0.34, 11 = 0.34, 12 = 0.20, 13 = 0.34 and 14 = 0.34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 1, 14 lb uplift at joint 9, 102 lb uplift at joint 12, 222 lb uplift at joint 10, 58 lb uplift at joint 11, 227 lb uplift at joint 14 and 101 lb uplift at joint 13.
- SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

Job L206596	Truss PB05	Truss Type HIP PIGGYBACK	Qty 2	Ply 1	WILSON RESIDENCE
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Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:29:12 2006 Page 1

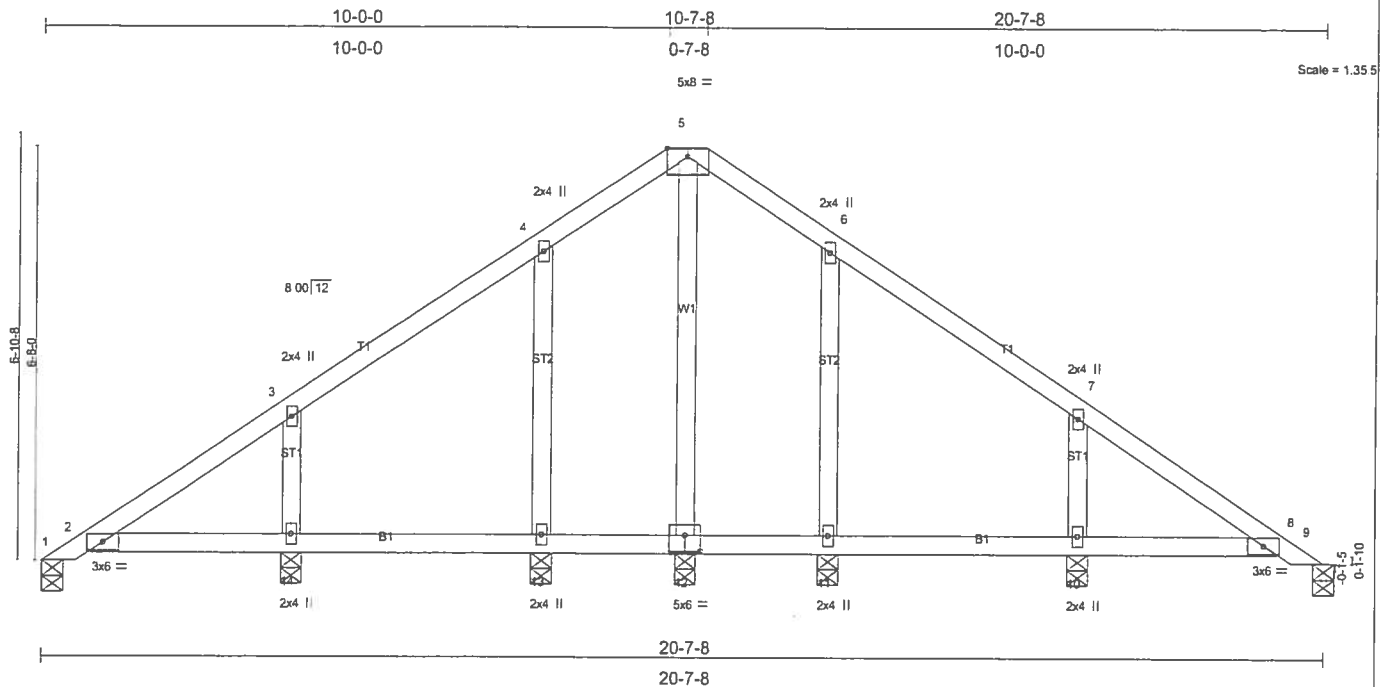


Plate Offsets (X,Y): [12:0-3:0-0-3:0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2'-0"	TC 0.17	Vert(LL)	0.01	2-14	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.10	Vert(TL)	-0.01	2-14	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.13	Horz(TL)	0.01	9	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TP12002							Weight: 94 lb	

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 WEBS 2 X 4 SYP No.3
 OTHERS 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 6'-0" oc bracing.

REACTIONS (lb/size) 1=77/0-4-0, 9=77/0-4-0, 10=370/0-4-0, 11=282/0-4-0, 14=370/0-4-0, 13=282/0-4-0, 12=226/0-4-0
 Max Horz 1=235(load case 4)
 Max Uplift 1=70(load case 3), 10=216(load case 6), 11=174(load case 6), 14=223(load case 5), 13=173(load case 5), 12=3(load case 4)
 Max Grav 1=94(load case 4), 9=85(load case 10), 10=372(load case 10), 11=283(load case 10), 14=372(load case 9), 13=283(load case 9), 12=226(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-250/243, 2-3=-207/169, 3-4=-107/151, 4-5=-19/175, 5-6=0/167, 6-7=-0/139, 7-8=-117/146, 8-9=-41/2
 BOT CHORD 2-14=-68/150, 13-14=-68/150, 12-13=-68/150, 11-12=-68/150, 10-11=-68/150, 8-10=-68/150
 WEBS 7-10=-229/232, 6-11=-186/197, 3-14=-229/235, 4-13=-186/198, 5-12=-175/10

JOINT STRESS INDEX
 2 = 0.24, 3 = 0.34, 4 = 0.34, 5 = 0.14, 6 = 0.34, 7 = 0.34, 8 = 0.24, 10 = 0.34, 11 = 0.34, 12 = 0.20, 13 = 0.34 and 14 = 0.34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02, 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TP1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 1, 216 lb uplift at joint 10, 174 lb uplift at joint 11, 223 lb uplift at joint 14, 173 lb uplift at joint 13 and 3 lb uplift at joint 12.
- SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	WILSON RESIDENCE
L206596	PB06	PIGGYBACK	8	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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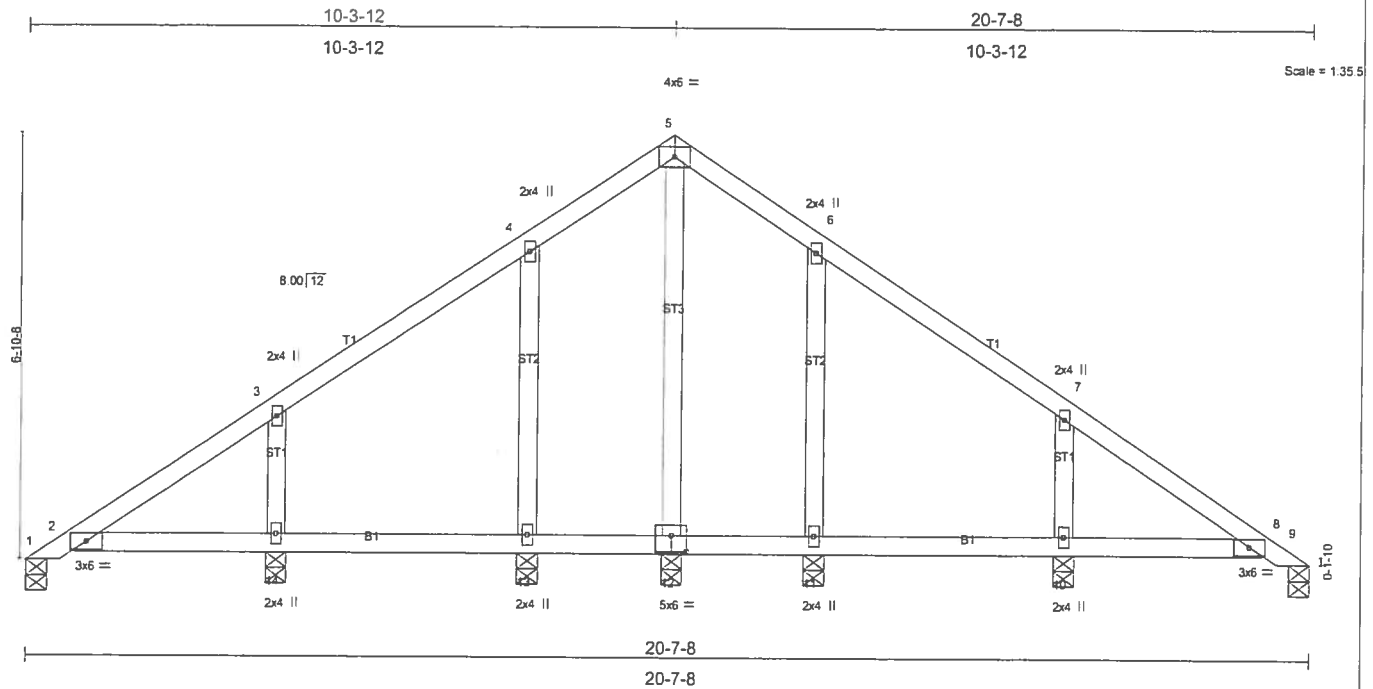


Plate Offsets (X,Y): [12:0-3-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.17	Vert(LL)	0.01	2-14	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.10	Vert(TL)	-0.01	2-14	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.13	Horz(TL)	0.01	9	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 94 lb	

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 OTHERS 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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=77/0-4-0, 9=77/0-4-0, 12=226/0-4-0, 10=370/0-4-0, 11=282/0-4-0, 14=370/0-4-0, 13=282/0-4-0
 Max Horz 1=235(load case 4)
 Max Uplift 1=70(load case 3), 12=-3(load case 4), 10=-216(load case 6), 11=-174(load case 6), 14=-223(load case 5), 13=-173(load case 5)
 Max Grav 1=94(load case 4), 9=85(load case 10), 12=226(load case 1), 10=372(load case 10), 11=283(load case 10), 14=372(load case 9), 13=283(load case 9)

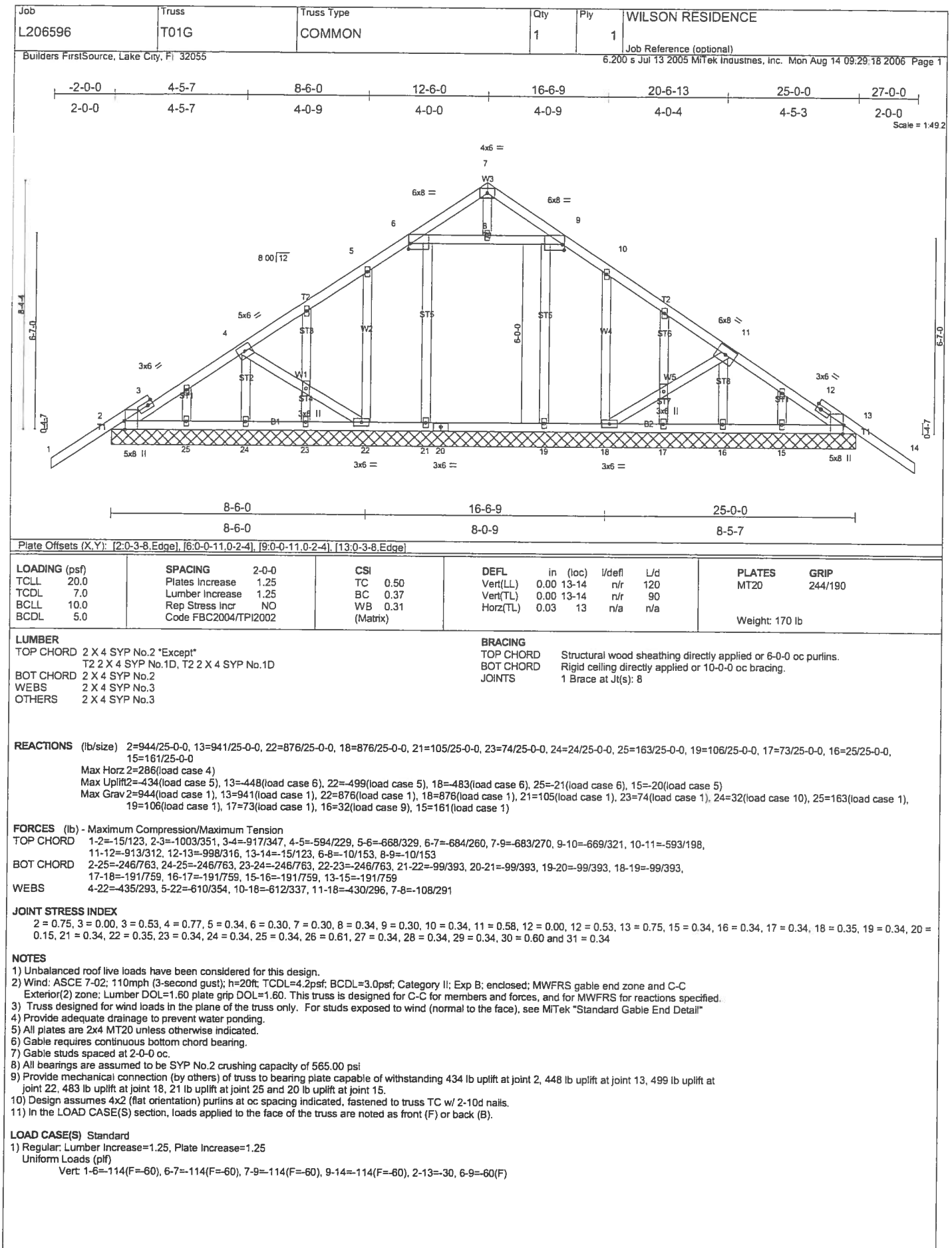
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-250/243, 2-3=-207/169, 3-4=-107/151, 4-5=-19/175, 5-6=0/167, 6-7=-0/139, 7-8=-117/146, 8-9=-41/2
 BOT CHORD 2-14=-68/150, 13-14=-68/150, 12-13=-68/150, 11-12=-68/150, 10-11=-68/150, 8-10=-68/150
 WEBS 5-12=-175/10, 7-10=-229/232, 6-11=-186/197, 3-14=-229/235, 4-13=-186/198

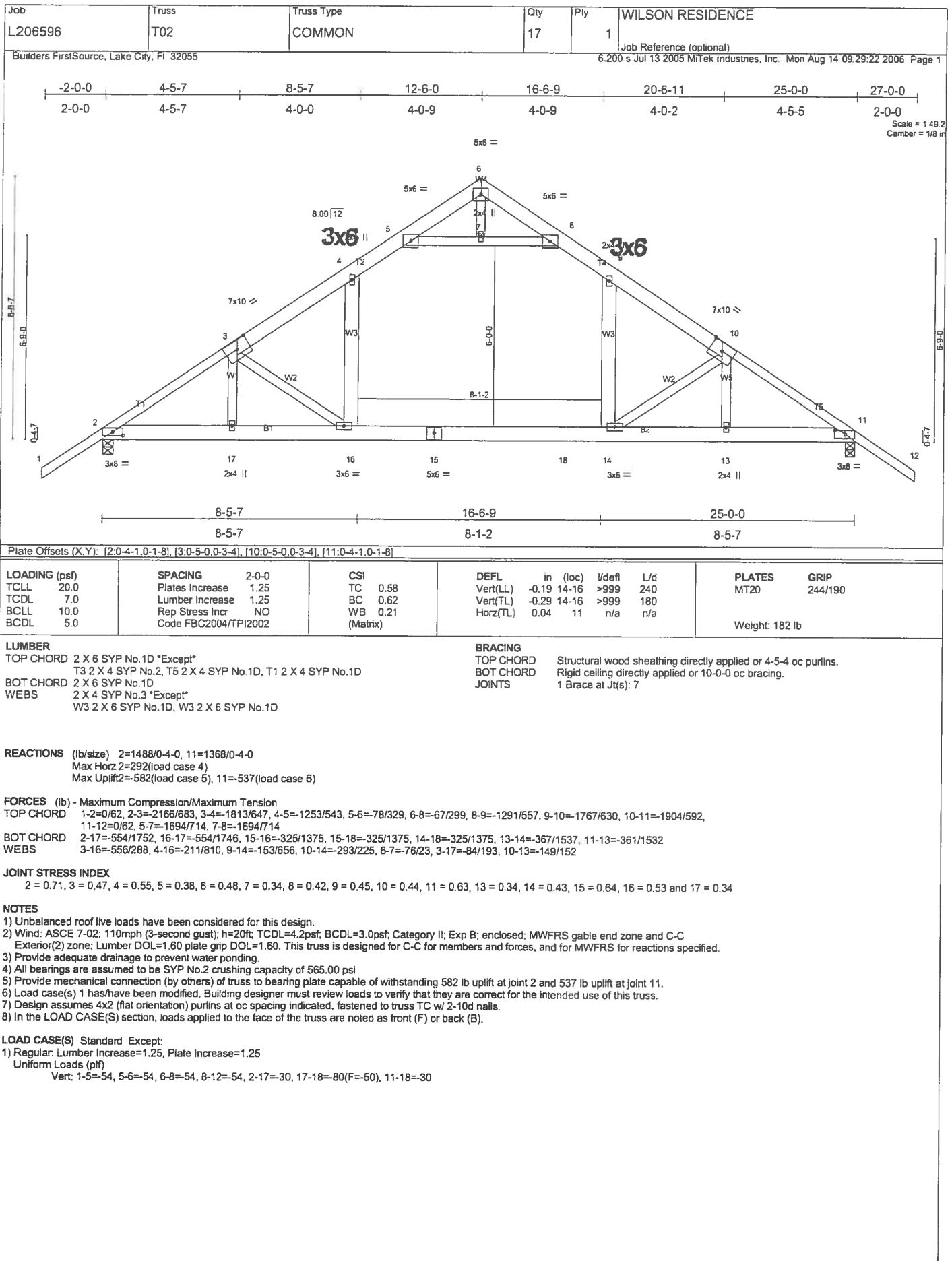
JOINT STRESS INDEX
 2 = 0.24, 3 = 0.34, 4 = 0.34, 5 = 0.28, 6 = 0.34, 7 = 0.34, 8 = 0.24, 10 = 0.34, 11 = 0.34, 12 = 0.20, 13 = 0.34 and 14 = 0.34

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 1, 3 lb uplift at joint 12, 216 lb uplift at joint 10, 174 lb uplift at joint 11, 223 lb uplift at joint 14 and 173 lb uplift at joint 13.
- 6) SEE MITek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard





Job L206596	Truss T03	Truss Type COMMON	Qty 1	Ply 4	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:29:25 2006 Page 1

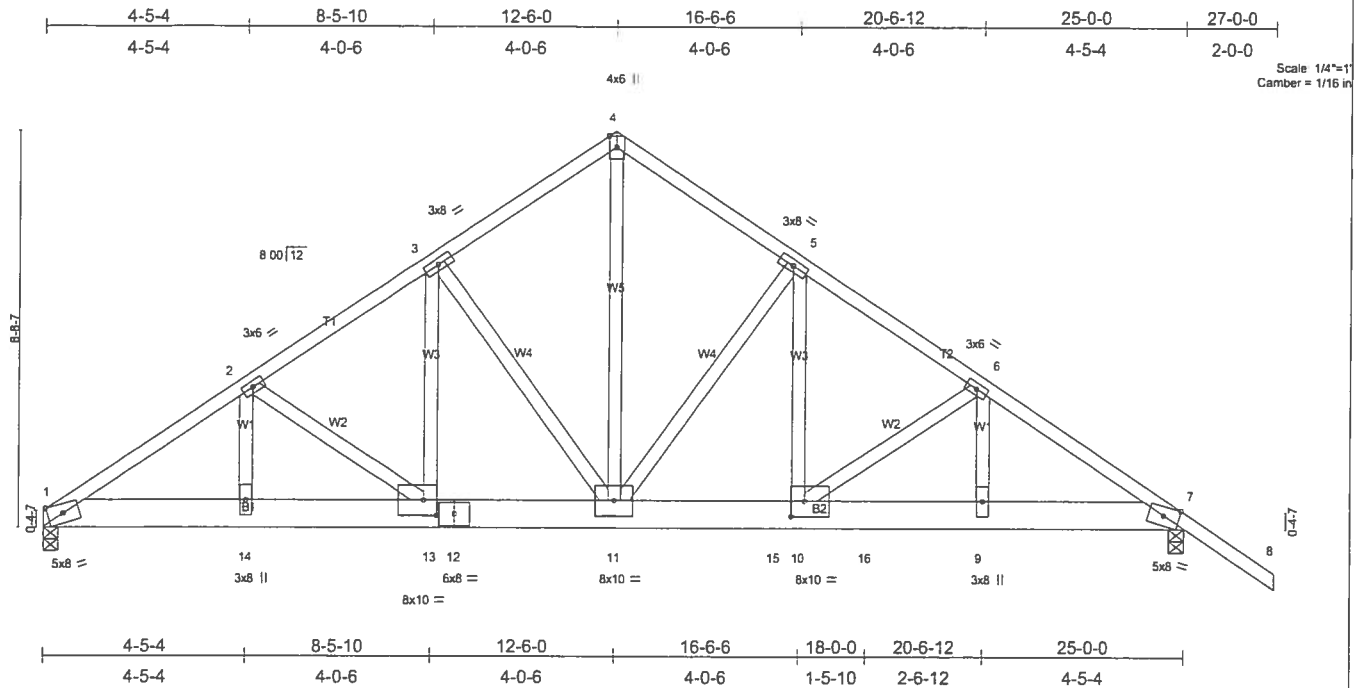


Plate Offsets (X,Y): [10:0-3-8,0-4-0], [13:0-3-8,0-4-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.38	Vert(LL)	-0.14	11-13	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.38	Vert(TL)	-0.23	11-13	>999	180		
BCLL 10.0	Rep Stress Incr	NO	WB 0.61	Horz(TL)	0.05	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002		(Matrix)							
Weight: 769 lb										

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 8 SYP 2400F 2.0E
 WEBS 2 X 4 SYP No.3 *Except*
 W5 2 X 4 SYP No.2

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) 1=11699/0-4-0, 7=8594/0-4-0
 Max Horz 1=-319(load case 2)
 Max Uplift1=4487(load case 4), 7=-3329(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-17338/6634, 2-3=-13959/5381, 3-4=-10540/4128, 4-5=-10540/4138, 5-6=-13609/5201, 6-7=-14794/5536, 7-8=0/65
 BOT CHORD 1-14=-5526/14388, 13-14=-5526/14388, 12-13=-4353/11570, 11-12=-4353/11570, 11-15=-4147/11280, 10-15=-4147/11280,
 10-16=-4510/12243, 9-16=-4510/12243, 7-9=-4510/12243
 WEBS 2-14=-1379/3635, 2-13=-3456/1437, 3-13=-2161/5592, 3-11=-4784/1974, 4-11=-4410/11330, 5-11=-4293/1726, 5-10=-1863/4999,
 6-10=-1183/486, 6-9=-347/1148

JOINT STRESS INDEX
 1 = 0.81, 2 = 0.69, 3 = 0.84, 4 = 0.68, 5 = 0.84, 6 = 0.69, 7 = 0.81, 9 = 0.30, 10 = 0.29, 11 = 0.53, 12 = 0.51, 13 = 0.29 and 14 = 0.30

NOTES

- 1) 4-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 8 - 4 rows at 0-4-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
 Attach chords with 1/2 inch diameter bolts (ASTM a-307) with washers at 2-0-0 on center.
- 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; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4487 lb uplift at joint 1 and 3329 lb uplift at joint 7.
- 7) Girder comes tie-in span(s): 44-7-8 from 0-0-0 to 16-0-0
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4042 lb down and 1526 lb up at 18-0-0 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: 1-4=-54, 4-8=-54, 1-15=-918(F=-888), 7-15=-30
 Concentrated Loads (lb)
 Vert: 16=-4042(F)

Job L206596	Truss T04G	Truss Type COMMON	Qty 1	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:29:29 2006 Page 1

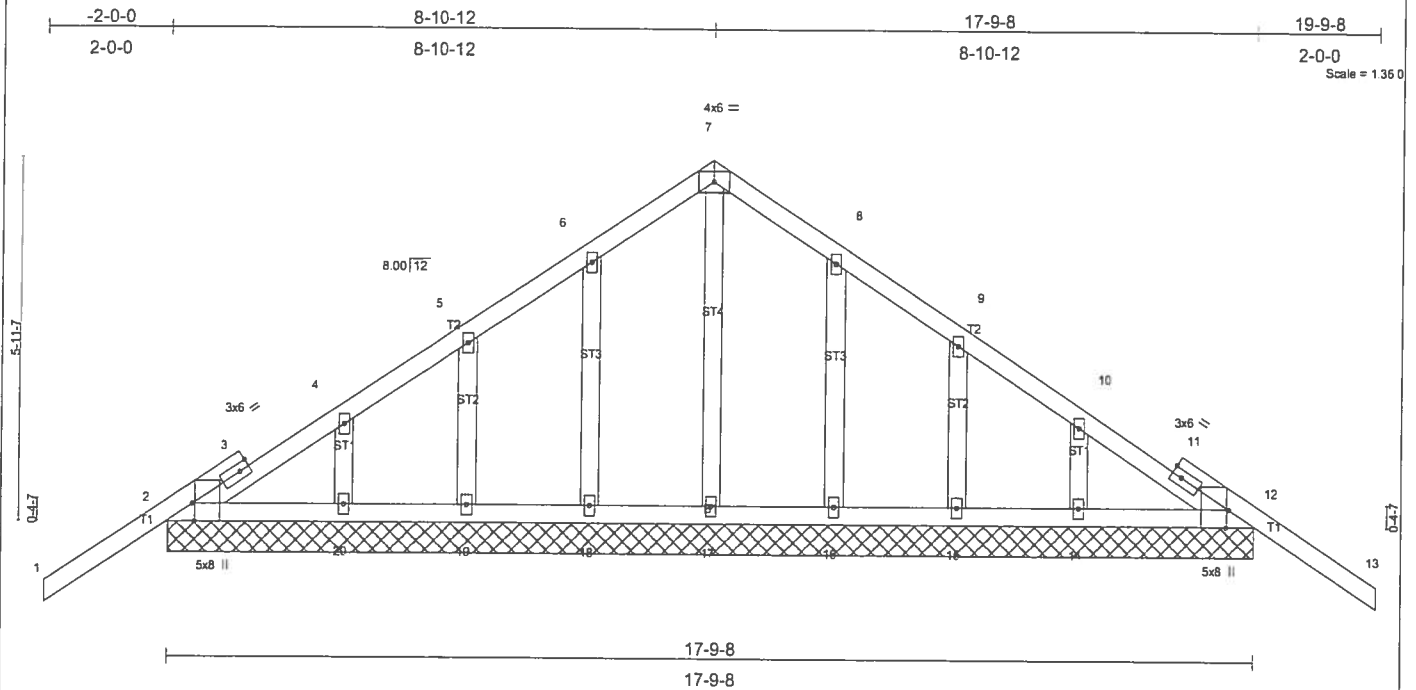


Plate Offsets (X, Y): [2-0-3-8, Edge], [12-0-3-8, Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.50	Vert(LL)	-0.04	13	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.07	Vert(TL)	-0.07	13	n/r	90		
BCLL 10.0	Rep Stress Incr	NO	WB 0.11	Horz(TL)	0.00	12	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002		(Matrix)							
										Weight: 101 lb

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 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) 2=514/17-9-8, 12=514/17-9-8, 17=251/17-9-8, 18=288/17-9-8, 19=287/17-9-8, 20=295/17-9-8, 16=288/17-9-8, 15=287/17-9-8, 14=295/17-9-8
Max Horz 2=202(load case 4)
Max Uplift 2=268(load case 5), 12=289(load case 6), 18=138(load case 5), 19=175(load case 5), 20=101(load case 6), 16=136(load case 6), 15=174(load case 6), 14=95(load case 5)
Max Grav 2=514(load case 1), 12=514(load case 1), 17=251(load case 1), 18=292(load case 9), 19=287(load case 1), 20=295(load case 1), 16=292(load case 10), 15=287(load case 1), 14=295(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-15/123, 2-3=-130/137, 3-4=-131/138, 4-5=-97/126, 5-6=-97/156, 6-7=-97/204, 7-8=-97/204, 8-9=-97/143, 9-10=-97/64, 10-11=-61/68, 11-12=-122/67, 12-13=-15/123
BOT CHORD 2-20=-30/157, 19-20=-30/157, 18-19=-30/157, 17-18=-30/157, 16-17=-30/157, 15-16=-30/157, 14-15=-30/157, 12-14=-30/157
WEBS 7-17=-191/7, 6-18=-232/152, 5-19=-228/177, 4-20=-231/121, 8-16=-232/150, 9-15=-228/177, 10-14=-231/121

JOINT STRESS INDEX
2 = 0.71, 3 = 0.00, 4 = 0.28, 5 = 0.34, 6 = 0.34, 7 = 0.28, 8 = 0.34, 9 = 0.34, 10 = 0.34, 11 = 0.00, 12 = 0.71, 14 = 0.34, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.34, 19 = 0.34 and 20 = 0.34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 2, 289 lb uplift at joint 12, 138 lb uplift at joint 18, 175 lb uplift at joint 19, 101 lb uplift at joint 20, 136 lb uplift at joint 16, 174 lb uplift at joint 15 and 95 lb uplift at joint 14.
- 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: 1-7=-114(F=-60), 7-13=-114(F=-60), 2-12=-30

Job L206596	Truss T05	Truss Type COMMON	Qty 2	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6,200 s Jul 13 2005 Mittek Industries, Inc. Mon Aug 14 09:29:33 2006 Page 1		

Dimensions:
Top Chord: -2-0-0, 4-7-13, 8-10-12, 13-1-11, 17-9-8, 19-9-8
Bottom Chord: 2-0-0, 4-7-13, 4-2-15, 4-2-15, 4-7-13, 2-0-0
Vertical Height: 6'-3"-10"
Horizontal Spacing: 8'-10"-12", 17'-9"-8"

Members:
Top Chord: 1, 2, 3, 4, 5, 6, 7
Bottom Chord: 8
Webs: W1, W2
Diagonals: D1, D2
Plates: P1, P2
Grips: G1, G2
Labels: 2x4, 3x8, 4x6, 8'00"/12'

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.42	Vert(LL) -0.10 6-8 >999 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.17	Vert(TL) -0.18 6-8 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.02 6 n/a n/a		
Weight: 89 lb					

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

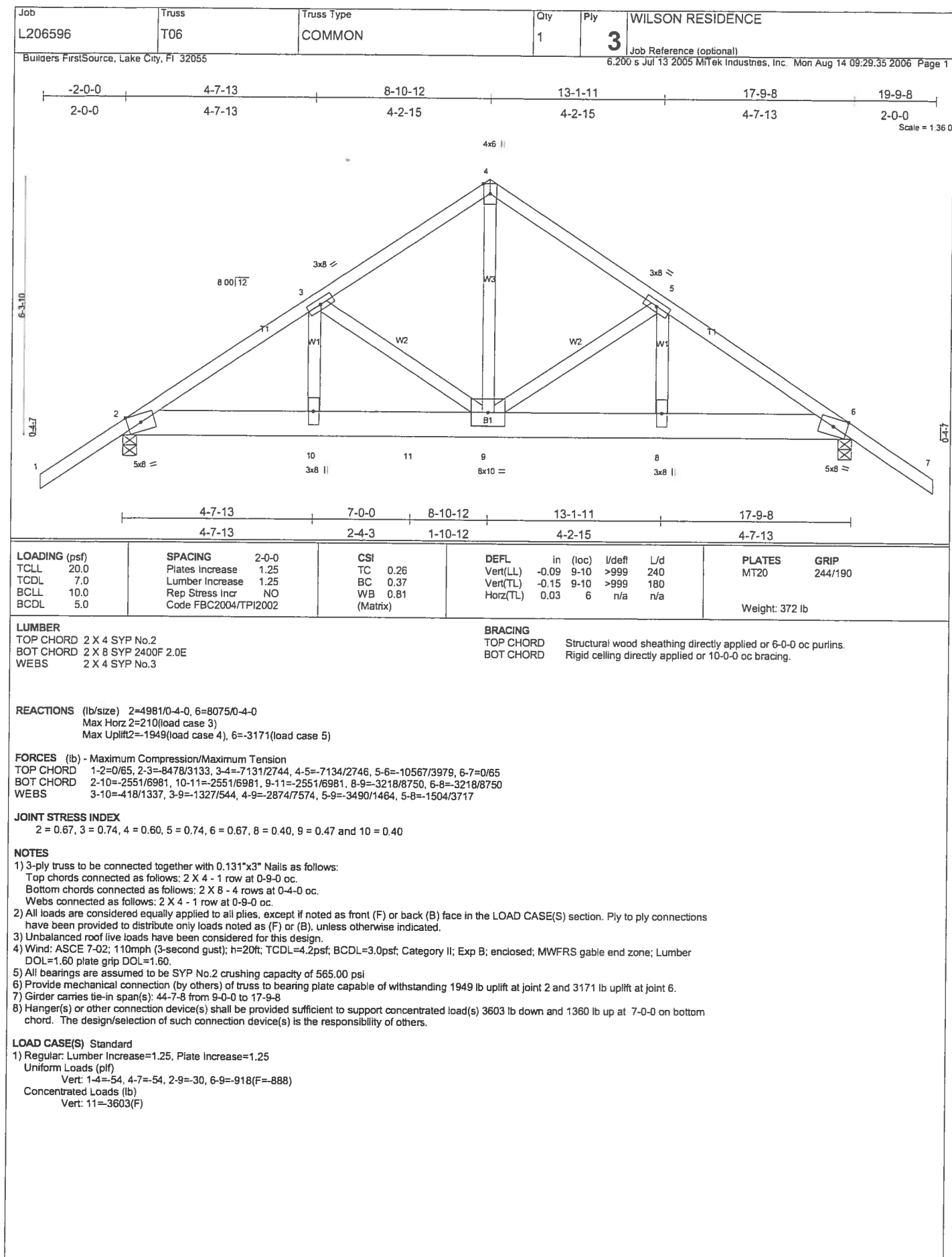
REACTIONS (lb/size) 2=850/0-4-0, 6=850/0-4-0
Max Horz 2=214(load case 4)
Max Uplift 2=361(load case 5), 6=361(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/60, 2-3=-940/318, 3-4=-745/277, 4-5=-745/277, 5-6=-940/318, 6-7=0/60
BOT CHORD 2-8=-197/735, 6-8=-138/735
WEBS 3-8=-225/198, 4-8=-129/523, 5-8=-225/199

JOINT STRESS INDEX
2 = 0.75, 3 = 0.34, 4 = 0.36, 5 = 0.34, 6 = 0.75 and 8 = 0.57

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 361 lb uplift at joint 2 and 361 lb uplift at joint 6.

LOAD CASE(S) Standard



Job L206596	Truss T07	Truss Type SPECIAL	Qty 1	Ply 2	WILSON RESIDENCE
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Builders FirstSource, Lake City, FL 32055

Job Reference (optional)
6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Aug 14 09:29:40 2006 Page 1

-2-0-0	4-0-0	7-1-12	10-3-8	15-7-5	20-11-3	26-3-0	30-11-0	35-5-4	39-11-8	44-7-8
2-0-0	4-0-0	3-1-12	3-1-12	5-3-13	5-3-13	5-3-13	4-8-0	4-6-4	4-6-4	4-8-0

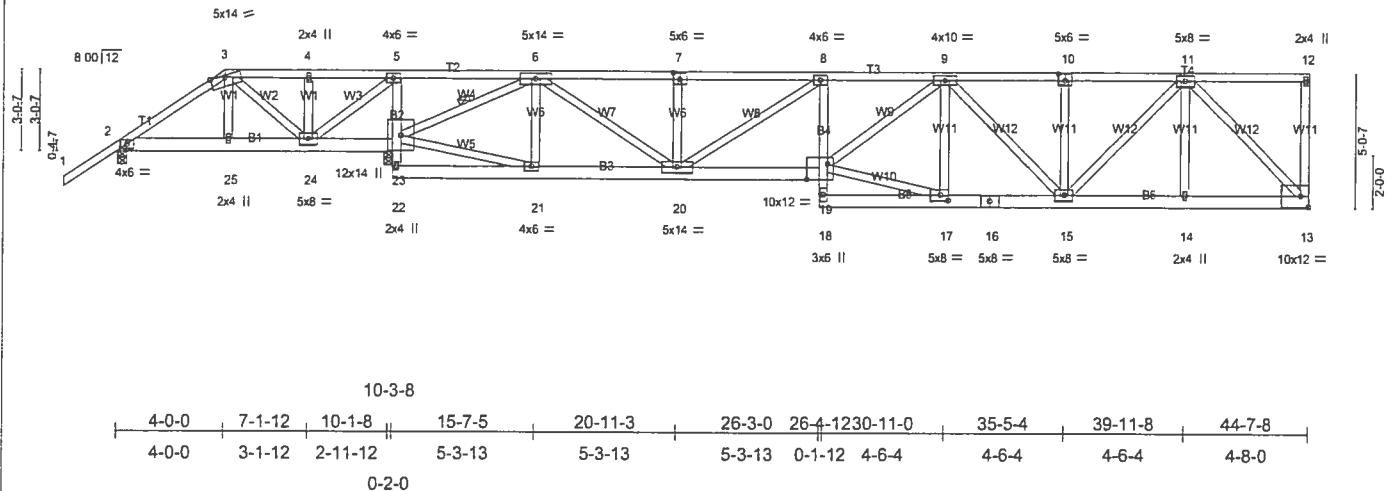
Scale = 1:82.4
Camber = 3/16 in

Plate Offsets (X,Y): [7:0-3-0-0-3-0], [10:0-3-0-0-3-0], [17:0-3-8-0-2-8], [19:0-9-4-0-7-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.76	Vert(LL) 0.38 19-20 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.89	Vert(TL) -0.54 19-20 >762 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.06 13 n/a n/a		
	Code FBC2004/TPI2002			Weight: 629 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 6 SYP No.10 *Except*
 B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.2
 WEBS 2 X 4 SYP No.3 *Except*
 W10 2 X 4 SYP No.1D

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-1 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 6-23

REACTIONS

(lb/size) 13=3603/Mechanical, 2=509/0-4-0, 23=6691/0-4-0
 Max Horz 2=540/load case 4)
 Max Uplift 13=-2287(load case 2), 2=509(load case 1), 23=4057(load case 2)
 Max Grav 13=3603(load case 1), 2=508(load case 2), 23=6691(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/62, 2-3=989/1456, 3-4=-1832/2791, 4-5=-1831/2791, 5-6=-3503/5482, 6-7=-6527/3861, 7-8=-6536/3868, 8-9=-10249/6570, 9-10=-5427/3452, 10-11=-5427/3452, 11-12=-55/43, 12-13=-249/263
 BOT CHORD 2-25=-1148/470, 24-25=-1135/461, 23-24=-5516/3223, 22-23=-61/225, 5-23=-2664/1704, 21-22=-238/208, 20-21=-1151/1975, 19-20=-6722/10324, 18-19=-47/240, 8-19=-1364/2089, 17-18=-546/860, 16-17=-4425/6943, 15-16=-4425/6943, 14-15=-2004/3155, 13-14=-2004/3155
 WEBS 3-25=-166/245, 3-24=-2164/1353, 4-24=-295/218, 5-24=-2205/3486, 21-23=-1399/2277, 6-23=-8222/4914, 6-21=-59/218, 6-20=-3530/5526, 7-20=-451/326, 8-20=-4543/3197, 17-19=-4028/6316, 9-19=-2683/4135, 9-17=-1496/1220, 9-15=-2178/1399, 10-15=-503/553, 11-15=-2079/3262, 11-14=0/298, 11-13=-4453/2817

JOINT STRESS INDEX

2 = 0.21, 3 = 0.57, 4 = 0.34, 5 = 0.73, 6 = 0.76, 7 = 0.52, 8 = 0.54, 9 = 1.00, 10 = 0.45, 11 = 0.78, 12 = 0.71, 13 = 0.37, 14 = 0.34, 15 = 0.78, 16 = 0.74, 17 = 0.72, 18 = 0.82, 19 = 0.99, 20 = 0.80, 21 = 0.45, 22 = 0.62, 23 = 0.91, 24 = 0.81 and 25 = 0.34

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 0-9-0 oc, 2 X 4 - 1 row at 0-6-0 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.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2287 lb uplift at joint 13, 509 lb uplift at joint 2 and 4057 lb uplift at joint 23.
- Girder carries tie-in span(s): 4-10-1 from 4-0-0 to 10-3-8; 4-0-15 from 4-0-0 to 10-3-8; 3-7-3 from 10-3-8 to 26-3-0; 5-3-8 from 10-3-8 to 26-3-0
- Girder carries hip end with 0-0-0 right side setback, 26-3-0 left side setback, and 7-0-0 end setback.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 76 lb up at 4-0-0 on top chord, and 76 lb down and 63 lb up at 4-0-0, and 2021 lb down and 1539 lb up at 26-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

AUGUST 14, 2006 TRUSS DESIGN ENGINEER:
 THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
 STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
 16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Job L206596	Truss T07	Truss Type SPECIAL	Qty 1	Ply 2	WILSON RESIDENCE
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional) 6,200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:29:40 2006 Page 2		

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-107(F=-53), 5-8=-81(F=-27), 8-12=-117(F=-63), 2-25=-30, 23-25=-67(F=-37), 19-22=-92(F=-62), 13-18=-65(F=-35)

Concentrated Loads (lb)

Vert: 3=-92(F) 25=-76(F) 19=-2021(F)

Job	Truss	Truss Type	Qty	Ply	WILSON RESIDENCE
L206596	T08	SPECIAL	1	1	
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)

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-2-0-0	6-0-0	10-3-8	18-3-4	26-3-0	32-5-4	38-7-8	44-7-8
2-0-0	6-0-0	4-3-8	7-11-12	7-11-12	6-2-4	6-2-4	6-0-0

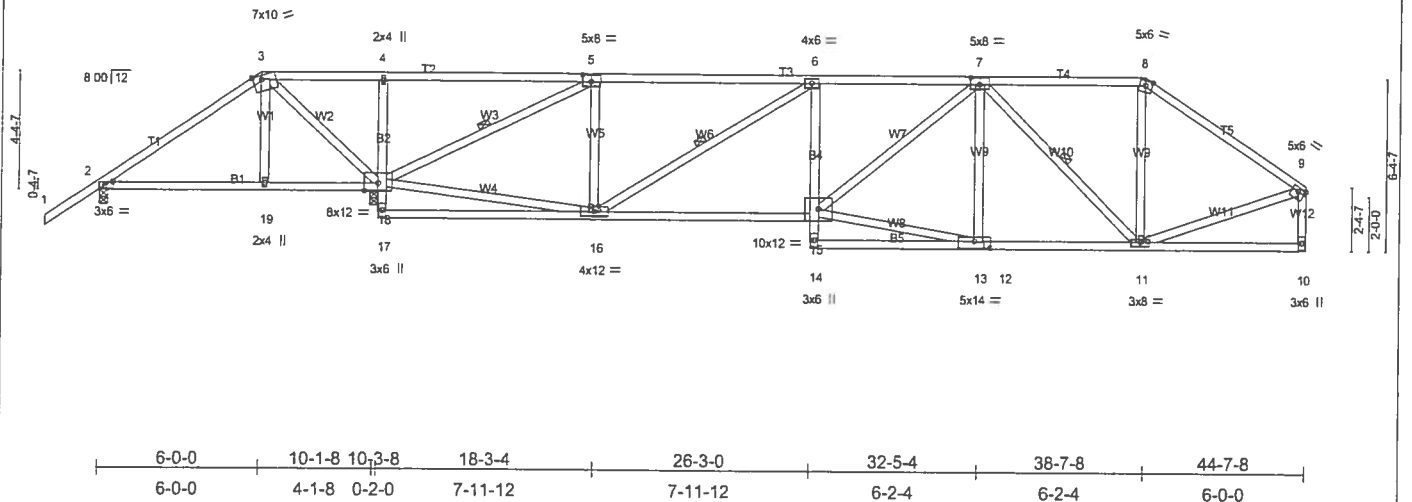
Scale = 1/8" = 1'-0"
Camber = 1/8" in

Plate Offsets (X,Y): [2:0-3-9.0-1-8], [3:0-4-0-Edge], [5:0-4-0.0-3-0], [7:0-4-0.0-3-0], [9:Edge,0-1-12], [12:0-7-0.0-3-0]																			
LOADING (psf)		SPACING		2-0-0		CSI		DEFL		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 20.0		Plates Increase		1.25		TC 0.56		Vert(LL)		-0.20 15-16		>999		240		MT20		244/190	
TCDL 7.0		Lumber Increase		1.25		BC 0.57		Vert(TL)		-0.34 15-16		>999		180					
BCLL 10.0		Rep Stress Incr		YES		WB 0.90		Horz(TL)		0.06 10		n/a		n/a					
BCDL 5.0		Code FBC2004/TPI2002				(Matrix)													
										Weight: 275 lb									

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-6 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2 "Except"	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.3	WEBS 1 Row at midpt 5-18, 6-16, 7-11
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 2=114/0-4-0, 18=2430/0-4-0, 10=1295/Mechanical
 Max Horz 2=170(load case 4)
 Max Uplift 2=291(load case 5), 18=1266(load case 4), 10=485(load case 3)
 Max Grav 2=124(load case 9), 18=2430(load case 1), 10=1297(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/60, 2-3=219/528, 3-4=509/1082, 4-5=489/1059, 5-6=1096/547, 6-7=2018/975, 7-8=1073/528, 8-9=1363/566, 9-10=1206/498
 BOT CHORD 2-19=409/293, 18-19=402/289, 17-18=0/114, 4-18=351/310, 16-17=0/114, 15-16=885/2059, 14-15=0/94, 6-15=0/212, 13-14=66/89,
 12-13=669/1606, 11-12=669/1606, 10-11=69/101
 WEBS 3-19=201/186, 3-18=1021/617, 16-18=519/971, 5-18=2408/1123, 5-16=150/687, 6-16=1134/526, 13-15=615/1545, 7-15=262/538,
 7-13=117/158, 7-11=805/426, 8-11=126/428, 9-11=420/1022

JOINT STRESS INDEX
 2 = 0.60, 3 = 0.46, 4 = 0.79, 5 = 0.78, 6 = 0.60, 7 = 0.36, 8 = 0.60, 9 = 0.78, 10 = 0.33, 11 = 0.94, 12 = 0.70, 13 = 0.00, 14 = 0.38, 15 = 0.80, 16 = 0.35, 17 = 0.52, 18 = 0.42 and 19 = 0.34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 2, 1266 lb uplift at joint 18 and 485 lb uplift at joint 10.

LOAD CASE(S) Standard

Job L206596	Truss T09	Truss Type SPECIAL	Qty 1	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)
6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:29:48 2006 Page 1					

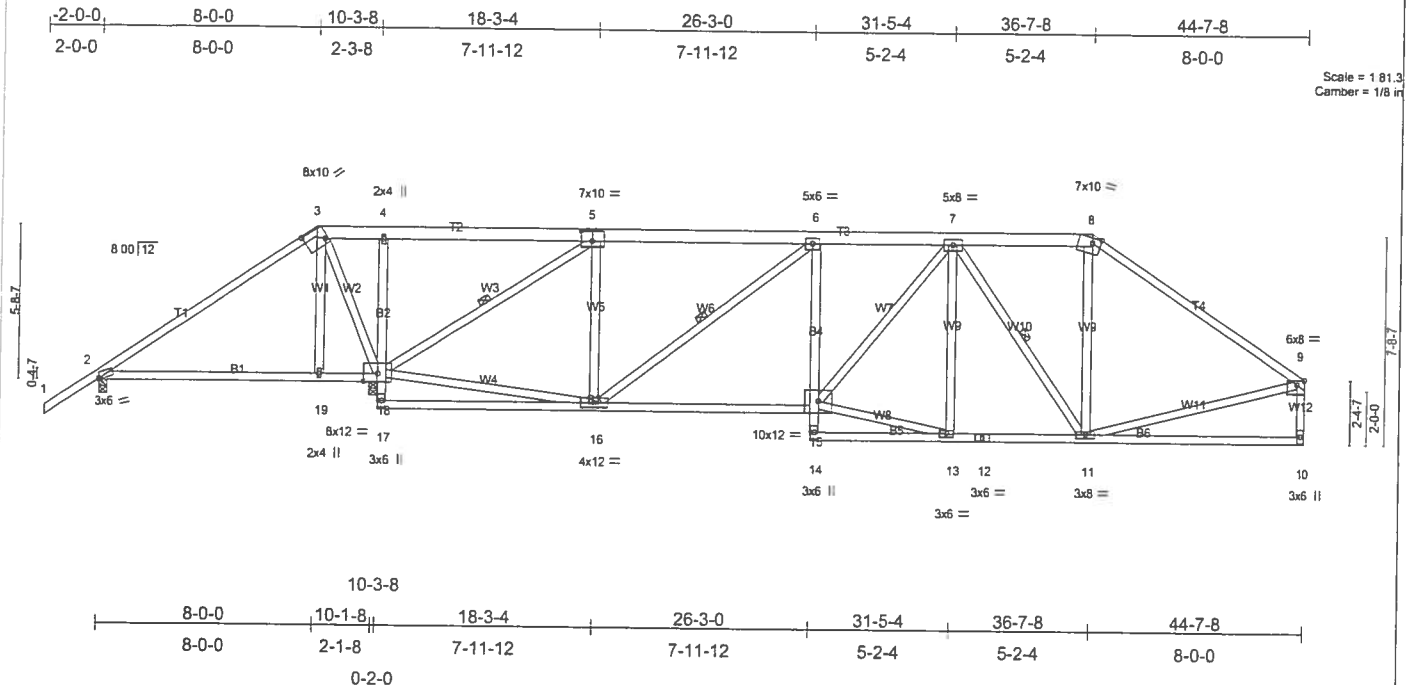


Plate Offsets (X,Y): [2-0-0-12,Edge], [3-0-8-12,0-5-12], [5-0-5-0-4-8], [8-0-3-12,Edge], [9-0-3-8,Edge]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.94	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.51	Vert(LL) 0.21 2-19 >582 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.83	Vert(TL) 0.16 2-19 >757 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.05 10 n/a n/a		
	Code FBC2004/TPI2002				
				Weight: 315 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2 "Except"
T2 2 X 6 SYP No.1D, T3 2 X 6 SYP No.1D
BOT CHORD 2 X 4 SYP No.2 "Except"
B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-18, 6-16, 7-11

REACTIONS

(lb/size) 2=162/0-4-0, 18=2367/0-4-0, 10=1310/Mechanical
Max Horz 2=215(load case 4)
Max Uplift 2=317(load case 5), 18=1185(load case 4), 10=458(load case 3)
Max Grav 2=177(load case 9), 18=2367(load case 1), 10=1313(load case 10)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/60, 2-3=238/555, 3-4=330/738, 4-5=324/730, 5-6=946/505, 6-7=1663/823, 7-8=1113/575, 8-9=1441/575, 9-10=1185/501
BOT CHORD 2-19=425/332, 18-19=418/327, 17-18=0/114, 4-18=310/321, 16-17=7/182, 15-16=674/1683, 14-15=0/82, 6-15=0/195, 13-14=44/25,
12-13=529/1372, 11-12=529/1372, 10-11=113/195
WEBS 3-19=302/283, 3-18=962/680, 16-18=395/755, 5-18=2005/918, 5-16=141/694, 6-16=934/408, 13-15=500/1383, 7-15=235/465,
7-13=184/143, 7-11=559/361, 8-11=162/442, 9-11=368/943

JOINT STRESS INDEX

2 = 0.68, 3 = 0.98, 4 = 0.34, 5 = 0.31, 6 = 0.23, 7 = 0.28, 8 = 0.81, 9 = 0.61, 10 = 0.57, 11 = 0.86, 12 = 0.46, 13 = 0.77, 14 = 0.27, 15 = 0.78, 16 = 0.27, 17 = 0.52, 18 = 0.35 and 19 = 0.34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 2, 1185 lb uplift at joint 18 and 458 lb uplift at joint 10.

LOAD CASE(S) Standard

Job L206596	Truss T10	Truss Type SPECIAL	Qty 1	Ply 1	WILSON RESIDENCE
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Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

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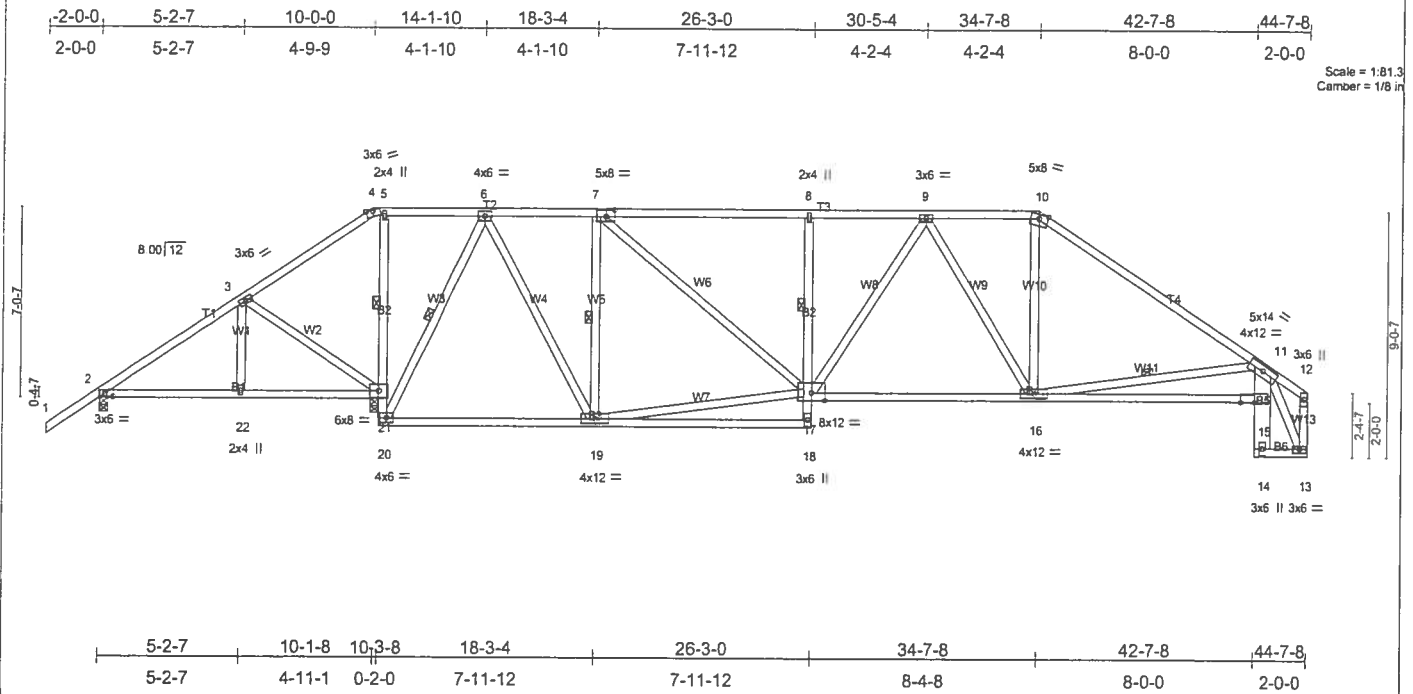
Scale = 1:81.3
Camber = 1/8 in

Plate Offsets (X,Y): [2:0-3-9,0-1-8], [7:0-3-12,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	TC 0.49	Vert(LL) -0.19	16-17	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.72	Vert(TL) -0.32	16-17	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.73	Horz(TL) 0.16	13	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 301 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2 *Except*
 B5 2 X 8 SYP No.1D
 WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except
 1 Row at midpt 5-21, 8-17
 WEBS 1 Row at midpt 6-20, 7-19, 11-16

REACTIONS

(lb/size) 2=379/0-4-0, 21=2085/0-4-0, 13=1375/Mechanical
 Max Horz 2=262(load case 4)
 Max Uplift 2=362(load case 5), 21=1050(load case 4), 13=452(load case 3)
 Max Grav 2=399(load case 9), 21=2085(load case 1), 13=1375(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/60, 2-3=212/231, 3-4=240/334, 4-5=146/236, 5-6=146/216, 6-7=981/533, 7-8=1689/824, 8-9=1690/814, 9-10=1486/707, 10-11=1898/727, 11-12=186/74, 12-13=251/94
 BOT CHORD 2-22=150/213, 21-22=150/213, 20-21=584/1353, 5-21=431/300, 19-20=139/382, 18-19=13/77, 17-18=0/112, 8-17=379/316, 16-17=575/1619, 15-16=830/2051, 14-15=1/47, 11-15=0/161, 13-14=223/605
 WEBS 3-22=160/131, 3-21=377/396, 6-20=1388/679, 6-19=539/1274, 7-19=982/559, 17-19=359/910, 7-17=384/935, 9-17=104/191, 9-16=394/336, 10-16=203/642, 11-16=585/481, 11-13=1252/466

JOINT STRESS INDEX

2 = 0.64, 3 = 0.43, 4 = 0.25, 5 = 0.46, 6 = 0.73, 7 = 0.48, 8 = 0.67, 9 = 0.44, 10 = 0.76, 11 = 0.51, 12 = 0.25, 13 = 0.56, 14 = 0.38, 15 = 0.68, 16 = 0.37, 17 = 0.36, 18 = 0.49, 19 = 0.90, 20 = 0.70, 21 = 0.75 and 22 = 0.34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 362 lb uplift at joint 2, 1050 lb uplift at joint 21 and 452 lb uplift at joint 13.

LOAD CASE(S) Standard

Job L206596	Truss T11	Truss Type SPECIAL	Qty 1	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:29:54 2006 Page 1

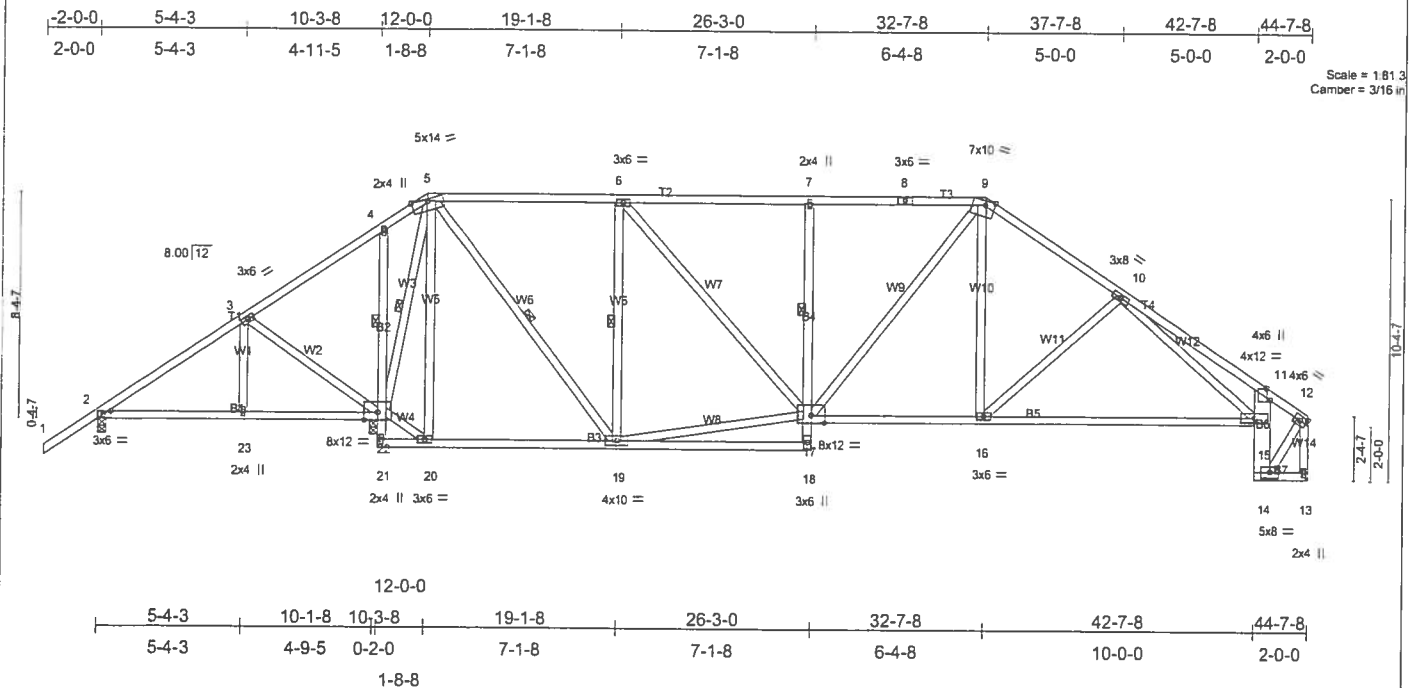


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [9:0-4-0,Edge], [11:0-5-5,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.37	Vert(LL)	-0.29 15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.66	Vert(TL)	-0.48 15-16	>848	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.57	Horz(TL)	0.18 13	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)						
Weight: 326 lb								

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2 "Except"
 B2 2 X 4 SYP No.3, B4 2 X 4 SYP No.3, B6 2 X 8 SYP No.1D
 WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
 1 Row at midpt 4-22, 7-17
 WEBS 1 Row at midpt 5-22, 5-19, 6-19

REACTIONS

(lb/size) 2=292/0-4-0, 22=2199/0-4-0, 13=1349/Mechanical
 Max Horz 2=309(load case 4)
 Max Uplift 2=295(load case 5), 22=925(load case 4), 13=417(load case 3)
 Max Grav 2=339(load case 9), 22=2199(load case 1), 13=1358(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/60, 2-3=-106/208, 3-4=-200/513, 4-5=-156/481, 5-6=-859/506, 6-7=-1353/687, 7-8=-1358/688, 8-9=-1359/688, 9-10=-1642/686,
 10-11=-2414/875, 11-12=-833/304, 12-13=-1369/490
 BOT CHORD 2-23=-200/211, 22-23=-200/211, 21-22=-46/0, 4-22=-149/185, 20-21=-152/88, 19-20=-63/225, 18-19=-23/148, 17-18=0/103, 7-17=-374/325,
 16-17=-360/1313, 15-16=-485/1543, 14-15=-705/266, 11-15=-908/402, 13-14=-16/46
 WEBS 3-23=-175/156, 3-22=-396/414, 20-22=-128/202, 5-22=-1754/708, 5-20=-68/123, 5-19=-590/1392, 6-19=-975/544, 17-19=-339/718,
 6-17=-279/763, 9-17=-260/196, 9-16=-151/509, 10-16=-325/297, 10-15=-188/544, 12-14=-331/941

JOINT STRESS INDEX

2 = 0.61, 3 = 0.43, 4 = 0.34, 5 = 0.54, 6 = 0.52, 7 = 0.34, 8 = 0.43, 9 = 0.42, 10 = 0.39, 11 = 0.71, 12 = 0.56, 13 = 0.52, 14 = 0.39, 15 = 0.71, 16 = 0.36, 17 = 0.29, 18 = 0.43, 19 = 0.85, 20 = 0.35, 21 = 0.42, 22 = 0.50 and 23 = 0.34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 295 lb uplift at joint 2, 925 lb uplift at joint 22 and 417 lb uplift at joint 13.

LOAD CASE(S) Standard

Job L206596	Truss T12	Truss Type SPECIAL	Qty 1	Ply 1	WILSON RESIDENCE
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Builders FirstSource, Lake City, FL 32055

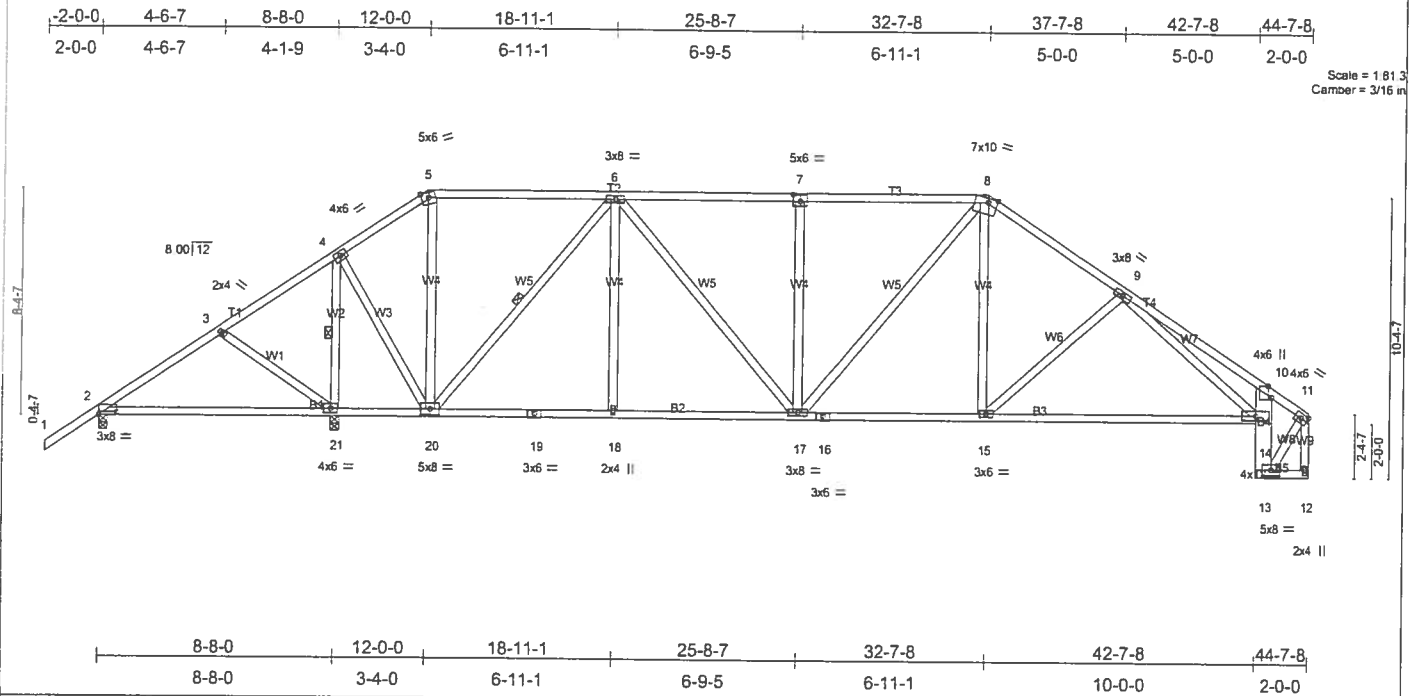
Job Reference (optional)
6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Aug 14 09:29:58 2006 Page 1

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.66	Vert(LL) 0.18 2-21 >573 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.71	Vert(TL) 0.14 2-21 >740 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.21 12 n/a n/a		
	Code FBC2004/TPI2002			Weight: 296 lb	

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2 *Except*
 B4 2 X 8 SYP No.1D
 WEBS 2 X 4 SYP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-9-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-21, 6-20

REACTIONS (lb/size) 2=109/0-4-0, 12=1414/Mechanical, 21=2316/0-4-0
 Max Horz 2=309(load case 4)
 Max Uplift 2=236(load case 5), 12=429(load case 3), 21=916(load case 4)
 Max Grav 2=165(load case 9), 12=1414(load case 1), 21=2316(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/60, 2-3=-199/536, 3-4=-246/676, 4-5=-355/220, 5-6=-267/233, 6-7=-1489/725, 7-8=-1490/725, 8-9=-1740/738, 9-10=-2509/922, 10-11=-868/323, 11-12=-1426/520
 BOT CHORD 2-21=406/345, 20-21=519/347, 19-20=484/1121, 18-19=484/1121, 17-18=484/1121, 16-17=-380/1397, 15-16=-380/1397, 14-15=-526/1623, 13-14=-737/282, 10-14=-937/416, 12-13=-16/48
 WEBS 3-21=-262/249, 4-21=-1950/726, 4-20=-513/1497, 5-20=-135/140, 6-20=-1367/606, 6-18=0/224, 6-17=-228/575, 7-17=-381/330, 8-17=-287/272, 8-15=-150/493, 9-15=-318/294, 9-14=-186/540, 11-13=-352/982

JOINT STRESS INDEX
 2 = 0.74, 3 = 0.34, 4 = 0.83, 5 = 0.50, 6 = 0.69, 7 = 0.62, 8 = 0.49, 9 = 0.39, 10 = 0.74, 11 = 0.59, 12 = 0.54, 13 = 0.41, 14 = 0.73, 15 = 0.36, 16 = 0.49, 17 = 0.58, 18 = 0.34, 19 = 0.52, 20 = 0.76 and 21 = 0.45

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 2, 429 lb uplift at joint 12 and 916 lb uplift at joint 21.

LOAD CASE(S) Standard

Job L206596	Truss T13	Truss Type HIP	Qty 3	Ply 1	WILSON RESIDENCE
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Builders FirstSource, Lake City, FL 32055

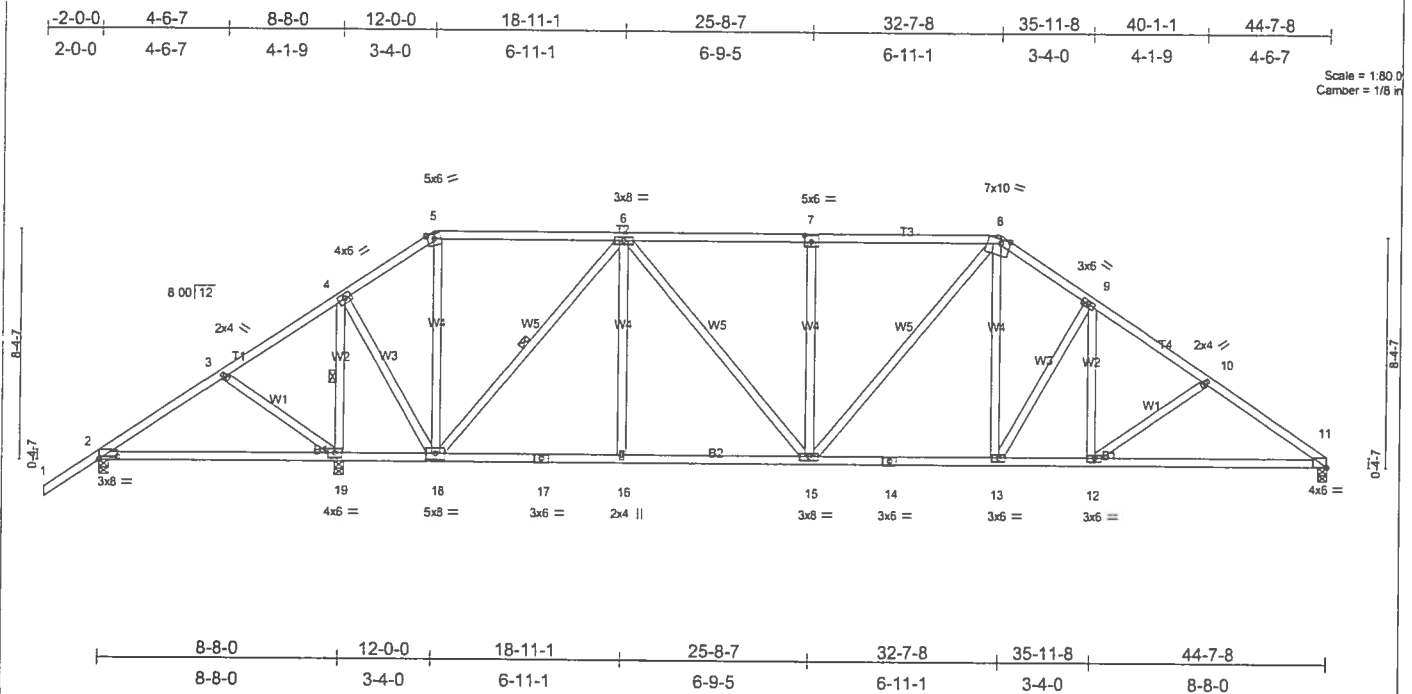
Job Reference (optional)
6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Aug 14 09:30:01 2006 Page 1

Plate Offsets (X,Y): [2:0-8-3,0-1-2], [7:0-3-0,0-3-0], [8:0-4-0,Edge], [11:0-0-3,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.32	Vert(LL) 0.18	2-19	>572	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.54	Vert(TL) 0.14	2-19	>740	180			
BCLL 10.0	Rep Stress Incr YES	WB 0.70	Horz(TL) 0.07	11	n/a	n/a			
BCDL 5.0	Code FBC2004/TP12002	(Matrix)							
								Weight: 286 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-19, 6-18

REACTIONS

(lb/size) 11=1420/0-4-0, 2=140/0-4-0, 19=2277/0-4-0
 Max Horz 2=310(load case 4)
 Max Uplift 11=431(load case 3), 2=-242(load case 5), 19=918(load case 4)
 Max Grav 11=1420(load case 1), 2=189(load case 9), 19=2277(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/60, 2-3=-201/483, 3-4=-249/623, 4-5=-381/231, 5-6=-289/242, 6-7=-1510/730, 7-8=-1510/729, 8-9=-1684/757, 9-10=-1975/775, 10-11=-2167/826
 BOT CHORD 2-19=-363/339, 18-19=-474/339, 17-18=-484/1142, 16-17=-484/1142, 15-16=-484/1142, 14-15=-380/1385, 13-14=-380/1385, 12-13=-440/1580, 11-12=-605/1752
 WEBS 3-19=-261/249, 4-19=-1913/714, 4-18=-505/1467, 5-18=-115/141, 6-18=-1353/604, 6-16=0/213, 6-15=-224/575, 7-15=-376/324, 8-15=-273/314, 8-13=-189/462, 9-13=-397/251, 9-12=-92/331, 10-12=-211/219

JOINT STRESS INDEX

2 = 0.74, 3 = 0.34, 4 = 0.81, 5 = 0.50, 6 = 0.68, 7 = 0.60, 8 = 0.48, 9 = 0.43, 10 = 0.34, 11 = 0.75, 12 = 0.35, 13 = 0.45, 14 = 0.61, 15 = 0.58, 16 = 0.34, 17 = 0.54, 18 = 0.75 and 19 = 0.44

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 431 lb uplift at joint 11, 242 lb uplift at joint 2 and 918 lb uplift at joint 19.

LOAD CASE(S) Standard

Job L206596	Truss T15	Truss Type HIP	Qty 1	Ply 1	WILSON RESIDENCE
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Builders FirstSource, Lake City, FL 32055

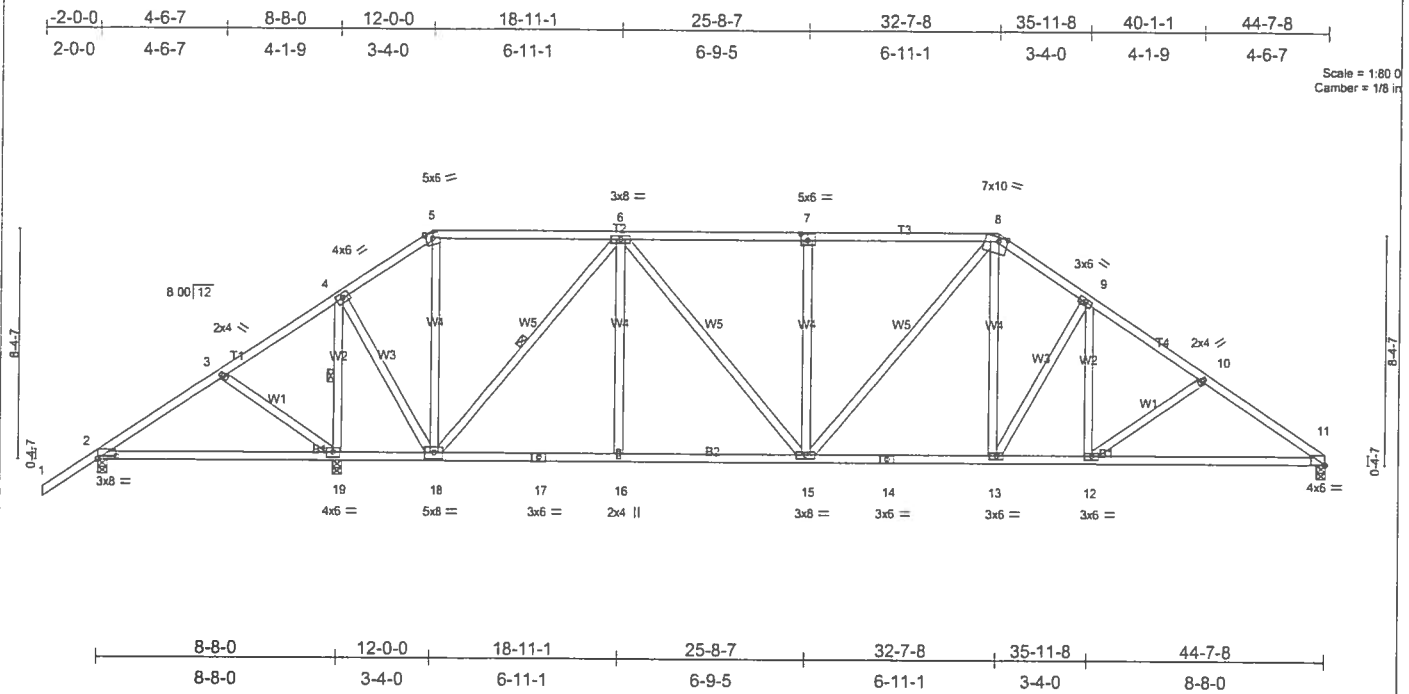
Job Reference (optional)
6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Aug 14 09:30:10 2006 Page 1

Plate Offsets (X,Y): [2:0-8-3,0-1-2], [7:0-3-0,0-3-0], [8:0-4-0,Edge], [11:0-0-3,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.32	Vert(LL) 0.18	2-19	>572	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.54	Vert(TL) 0.14	2-19	>740	180			
BCLL 10.0	Rep Stress Incr YES	WB 0.70	Horz(TL) 0.07	11	n/a	n/a			
BCDL 5.0	Code FBC2004/TP12002	(Matrix)							
								Weight: 286 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-19, 6-18

REACTIONS (lb/size) 11=1420/0-4-0, 2=140/0-4-0, 19=2277/0-4-0
 Max Horz 2=310(load case 4)
 Max Uplift 11=-431(load case 3), 2=-242(load case 5), 19=918(load case 4)
 Max Grav 11=1420(load case 1), 2=189(load case 9), 19=2277(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/60, 2-3=-201/483, 3-4=-249/623, 4-5=-381/231, 5-6=-289/242, 6-7=-1510/730, 7-8=-1510/729, 8-9=-1684/757, 9-10=-1975/775,
 10-11=-2167/826
 BOT CHORD 2-19=-363/339, 18-19=-474/339, 17-18=-484/1142, 16-17=-484/1142, 15-16=-484/1142, 14-15=-380/1385, 13-14=-380/1385,
 12-13=-440/1580, 11-12=-605/1752
 WEBS 3-19=-261/249, 4-19=-1913/714, 4-18=-505/1467, 5-18=-115/141, 6-18=-1353/604, 6-16=0/213, 6-15=-224/575, 7-15=-376/324,
 8-15=-273/314, 8-13=-189/462, 9-13=-397/251, 9-12=-92/331, 10-12=-211/219

JOINT STRESS INDEX
 2 = 0.74, 3 = 0.34, 4 = 0.81, 5 = 0.50, 6 = 0.68, 7 = 0.60, 8 = 0.48, 9 = 0.43, 10 = 0.34, 11 = 0.75, 12 = 0.35, 13 = 0.45, 14 = 0.61, 15 = 0.58, 16 = 0.34, 17 = 0.54, 18 = 0.75 and 19 = 0.44

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 431 lb uplift at joint 11, 242 lb uplift at joint 2 and 918 lb uplift at joint 19.

LOAD CASE(S) Standard

Job L206596	Truss T16	Truss Type MONO HIP	Qty 1	Ply 2	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)
6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:30:13 2006 Page 1					

-2-0-0	4-0-0	9-2-4	14-2-12	19-3-4	24-3-12	29-4-4	34-4-12	39-5-4	44-7-8
2-0-0	4-0-0	5-2-4	5-0-8	5-0-8	5-0-8	5-0-8	5-0-8	5-0-8	5-2-4

Scale = 1/8" = 1'-0"
Camber = 1/4" in

4-0-0	9-2-4	14-2-12	19-3-4	24-3-12	29-4-4	34-4-12	39-5-4	44-7-8
4-0-0	5-2-4	5-0-8	5-0-8	5-0-8	5-0-8	5-0-8	5-0-8	5-2-4

Plate Offsets (X,Y): [2:0-2-14.0-2-0], [6:0-3-0.0-3-0], [9:0-4-0.0-3-0], [12:Edge 0-3-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.56	Vert(LL) 0.47 17-18 >999 240		
BCLL 10.0	Rep Stress Incr NO	WB 0.84	Vert(TL) -0.68 17-18 >779 180		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)	Horz(TL) 0.12 12 n/a n/a		
				Weight: 636 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins, except end verticals.
BOT CHORD 2 X 6 SYP No.1D	BOT CHORD Rigid ceiling directly applied or 7-5-6 oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 12=4042/Mechanical, 23=4067/0-4-0
 Max Horz 23=261(load case 4)
 Max Uplift 12=2535(load case 2), 23=2284(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/64, 2-3=-3934/2346, 3-4=-6343/3933, 4-5=-6342/3934, 5-6=-9489/5927, 6-7=-9489/5927, 7-8=-8687/5438, 8-9=-8687/5438, 9-10=-3927/2457, 10-11=-3927/2457, 11-12=-3845/2516, 2-23=-4018/2289
 BOT CHORD 22-23=-190/27, 21-22=-1934/3195, 20-21=-5262/8439, 19-20=-5262/8439, 18-19=-5262/8439, 17-18=-6020/9618, 16-17=-6020/9618, 15-16=-6020/9618, 14-15=-4284/6832, 13-14=-4284/6832, 12-13=-61/77
 WEBS 3-22=-1087/814, 3-21=-2686/4226, 4-21=-597/676, 5-21=-2856/1808, 5-20=0/373, 5-18=-906/1431, 6-18=-575/634, 7-18=-175/127, 7-17=0/374, 7-15=-1267/793, 8-15=-575/633, 9-15=-1571/2527, 9-14=0/373, 9-13=-3957/2489, 10-13=-598/666, 11-13=-3263/5243, 2-22=-2235/3612

JOINT STRESS INDEX
 2 = 0.75, 3 = 0.80, 4 = 0.34, 5 = 0.70, 6 = 0.68, 7 = 0.57, 8 = 0.34, 9 = 0.75, 10 = 0.34, 11 = 0.86, 12 = 0.40, 13 = 0.92, 14 = 0.34, 15 = 0.60, 16 = 0.99, 17 = 0.34, 18 = 0.34, 19 = 0.88, 20 = 0.34, 21 = 0.79, 22 = 0.73 and 23 = 0.30

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 0-9-0 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.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2535 lb uplift at joint 12 and 2284 lb uplift at joint 23.
- Girder carries hip end with 0-0-0 right side setback, 4-0-0 left side setback, and 7-0-0 end setback.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 308 lb down and 235 lb up at 4-0-0 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
 Uniform Loads (plf)
 Vert: 1-2=54, 2-3=54, 3-11=-117(F=63), 22-23=30, 12-22=65(F=35)
 Concentrated Loads (lb)
 Vert: 22=308(F)

Job L206596	Truss T17	Truss Type MONO HIP	Qty 1	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Aug 14 09:30:16 2006 Page 1

2-0-0	6-0-0	13-8-0	21-4-0	29-0-0	36-8-0	44-7-8
2-0-0	6-0-0	7-8-0	7-8-0	7-8-0	7-8-0	7-11-8

Scale = 1/80.2
Camber = 1/4 in

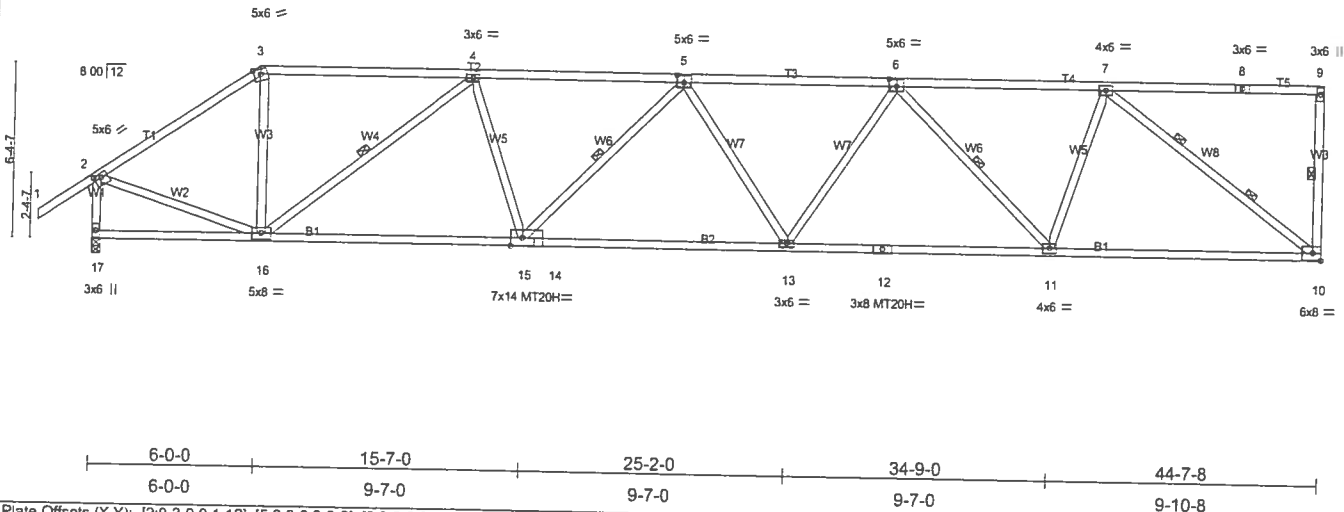


Plate Offsets (X,Y): [2:0-3-0-0-1-12], [5:0-3-0-0-3-0], [6:0-3-0-0-3-0], [14:0-5-4-Edge]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.88	Vert(LL) -0.40 13-15 >999 240	MT20H	187/143
BCLL 10.0	Lumber Increase 1.25	WB 0.90	Vert(TL) -0.65 13-15 >824 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.18 10 n/a n/a		
	Code FBC2004/TP12002				
				Weight: 259 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-0 oc bracing.
WEBS 1 Row at midpt 9-10, 4-16, 5-15, 6-11
2 Rows at 1/3 pts 7-10

REACTIONS (lb/size) 10=1859/Mechanical, 17=1981/0-4-0
Max Horz 17=323(load case 5)
Max Uplift 10=859(load case 3), 17=607(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-2026/801, 3-4=-1634/745, 4-5=-3100/1335, 5-6=-3340/1478, 6-7=-2358/1052, 7-8=-62/21, 8-9=-62/21, 9-10=-200/162, 2-17=-1909/829
BOT CHORD 16-17=-289/70, 15-16=-1281/2908, 14-15=-1552/3401, 13-14=-1552/3401, 12-13=-1438/3101, 11-12=-1438/3101, 10-11=-944/2014
WEBS 3-16=-257/708, 4-16=-1638/867, 4-15=-178/641, 5-15=-437/316, 5-13=-113/164, 6-13=-100/448, 6-11=-1084/563, 7-11=-358/1138, 7-10=-2473/1169, 2-16=-712/1681

JOINT STRESS INDEX
2 = 0.68, 3 = 0.71, 4 = 0.60, 5 = 0.76, 6 = 0.76, 7 = 0.75, 8 = 0.57, 9 = 0.56, 10 = 0.44, 11 = 0.75, 12 = 0.91, 13 = 0.43, 14 = 0.80, 15 = 0.00, 16 = 0.77 and 17 = 0.31

NOTES

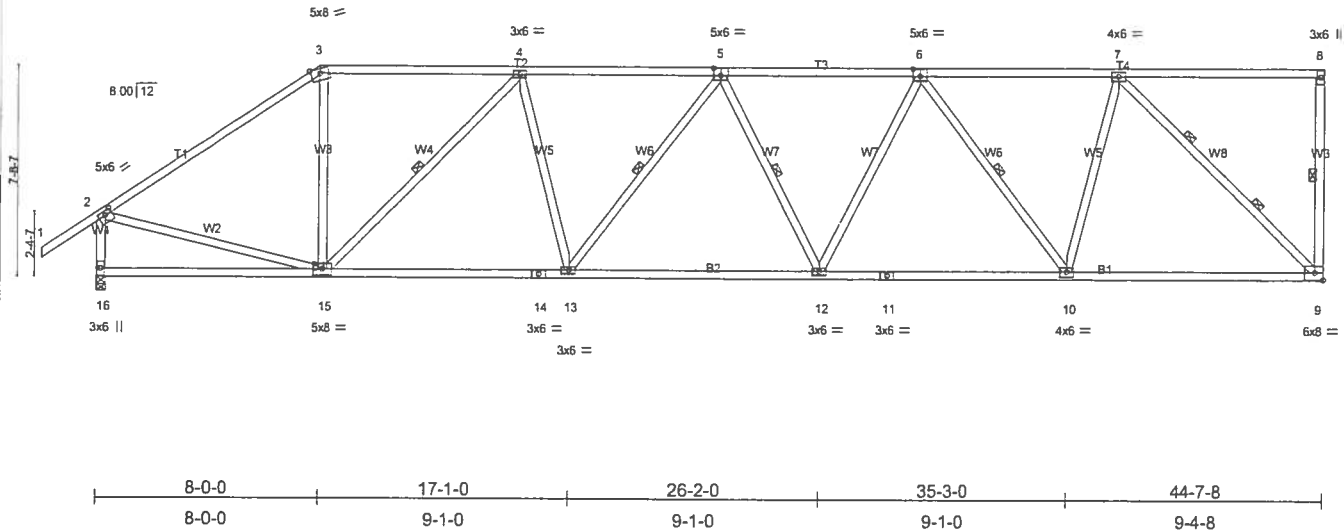
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 859 lb uplift at joint 10 and 607 lb uplift at joint 17.

LOAD CASE(S) Standard

Job L206596	Truss T18	Truss Type MONO HIP	Qty 1	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:30:21 2006 Page 1		

-2-0-0	8-0-0	15-3-4	22-6-7	29-9-10	37-0-13	44-7-8
2-0-0	8-0-0	7-3-3	7-3-3	7-3-3	7-3-3	7-6-11

Scale = 1:80.2
Camber = 3/16 in



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.74	Vert(LL) -0.30 12-13 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.87	Vert(TL) -0.49 12-13 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.14 9 n/a n/a		
	Code FBC2004/TPI2002			Weight: 277 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-15 oc bracing.
WEBS 1 Row at midpt 8-9, 4-15, 5-13, 5-12, 6-10
2 Rows at 1/3 pts 7-9

REACTIONS (lb/size) 9=1859/Mechanical, 16=1981/0-4-0
Max Horz 16=385(load case 5)
Max Uplift 9=840(load case 3), 16=586(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-2137/826, 3-4=-1692/786, 4-5=-2640/1105, 5-6=-2702/1153, 6-7=-1859/808, 7-8=-42/14, 8-9=-186/152, 2-16=-1864/820
BOT CHORD 15-16=408/140, 14-15=-1092/2522, 13-14=-1092/2522, 12-13=-1220/2793, 11-12=-1112/2478, 10-11=-1112/2478, 9-10=-723/1583
WEBS 3-15=-272/706, 4-15=-1198/692, 4-13=-138/497, 5-13=-259/235, 5-12=-209/200, 6-12=-142/508, 6-10=-1044/512, 7-10=-359/1159, 7-9=-2180/1003, 2-15=-681/1592

JOINT STRESS INDEX
2 = 0.82, 3 = 0.77, 4 = 0.52, 5 = 0.66, 6 = 0.67, 7 = 0.81, 8 = 0.46, 9 = 0.36, 10 = 0.81, 11 = 0.90, 12 = 0.46, 13 = 0.52, 14 = 0.98, 15 = 0.76 and 16 = 0.52

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Refer to girder(s) for truss to truss connections.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 840 lb uplift at joint 9 and 586 lb uplift at joint 16.

LOAD CASE(S) Standard

Job L206596	Truss T19	Truss Type HIP	Qty 1	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Aug 14 09:30:24 2006 Page 1		

-2-0-0	5-1-12	10-0-0	16-1-14	22-3-12	28-5-10	34-7-8	39-5-12	44-7-8
2-0-0	5-1-12	4-10-4	6-1-14	6-1-14	6-1-14	6-1-14	4-10-4	5-1-12

Scale = 1/8" = 1'-0"
Camber = 1/8" in

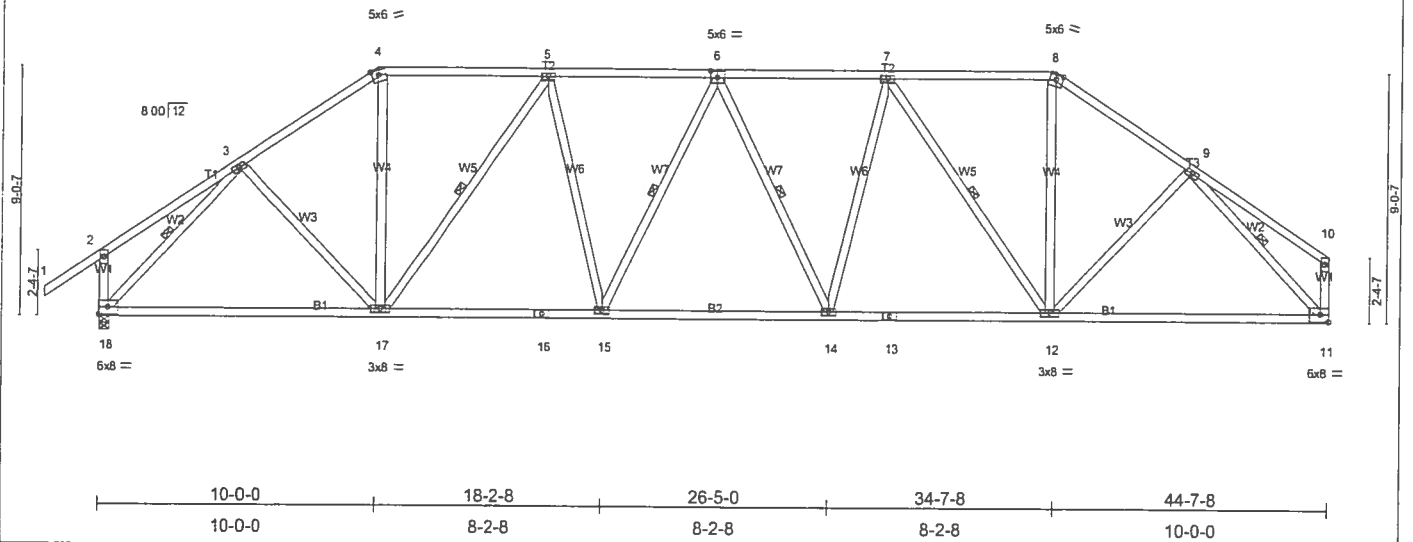


Plate Offsets (X,Y): [2:0-0-0,0-0-0], [6:0-3-0,0-3-0], [9:0-0-0,0-0-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.65	Vert(LL) -0.24 14-15 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.55	Vert(TL) -0.40 14-15 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.14 11 n/a n/a		
	Code FBC2004/TPI2002			Weight: 300 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-7 oc bracing.
WEBS 1 Row at midpt 5-17, 6-15, 6-14, 7-12, 3-18, 9-11

REACTIONS (lb/size) 18=1981/0-4-0, 11=1859/Mechanical
Max Horz 18=323(load case 4)
Max Uplift 18=623(load case 5), 11=586(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-257/208, 3-4=-2070/900, 4-5=-1681/819, 5-6=-2280/1046, 6-7=-2283/1044, 7-8=-1688/812, 8-9=-2079/894, 9-10=-303/126, 2-18=-368/328, 10-11=-271/148
BOT CHORD 17-18=722/1462, 16-17=-957/2185, 15-16=-957/2185, 14-15=-996/2359, 13-14=-863/2189, 12-13=-863/2189, 11-12=-546/1482
WEBS 3-17=-241/388, 4-17=-280/794, 5-17=-953/556, 5-15=-160/456, 6-15=-230/225, 6-14=-226/226, 7-14=-162/453, 7-12=-949/557, 8-12=-281/801, 9-12=-237/383, 3-18=-1970/697, 9-11=-1935/775

JOINT STRESS INDEX
2 = 0.49, 3 = 0.57, 4 = 0.58, 5 = 0.52, 6 = 0.48, 7 = 0.52, 8 = 0.58, 9 = 0.57, 10 = 0.46, 11 = 0.35, 12 = 0.58, 13 = 0.77, 14 = 0.52, 15 = 0.52, 16 = 0.77, 17 = 0.58 and 18 = 0.35

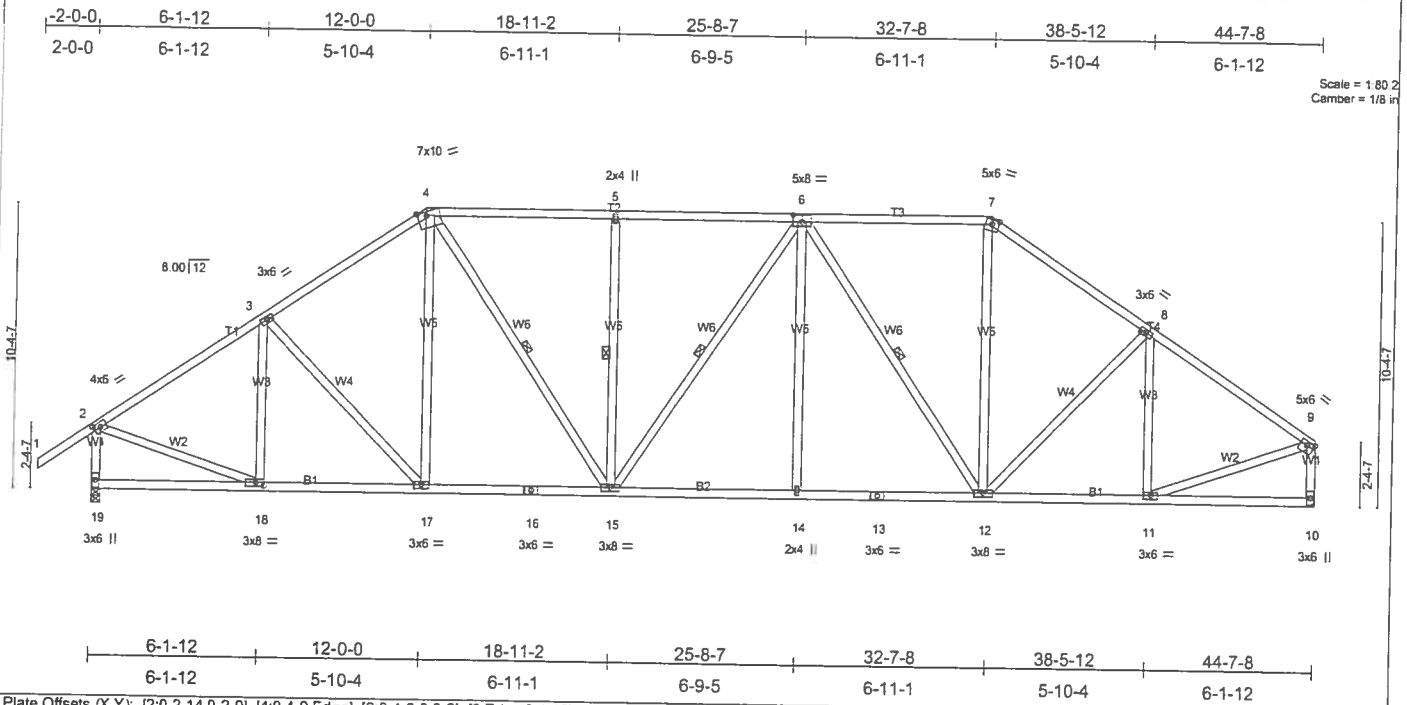
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 623 lb uplift at joint 18 and 586 lb uplift at joint 11.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	WILSON RESIDENCE
L206596	T20	HIP	1	1	
Builders FirstSource, Lake City, Fl 32055					Job Reference (optional)

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[illegible]

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

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-2-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-4-1 oc bracing.
WEBS	1 Row at midpt 4-15, 5-15, 6-15, 6-12

REACTIONS (lb/size) 19=1981/0-4-0, 10=1859/Mechanical
Max Horz 19=369(load case 4)
Max Uplift 19=640(load case 5), 10=522(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=2003/793, 3-4=2039/909, 4-5=2025/982, 5-6=2024/982, 6-7=1643/830, 7-8=2047/906, 8-9=2017/775, 2-19=1887/823, 9-10=1763/866
BOT CHORD 18-19=358/299, 17-18=710/1588, 16-17=686/1629, 15-16=686/1629, 14-15=749/2026, 13-14=749/2026, 12-13=749/2026, 11-12=549/1603, 10-11=66/122
WEBS 3-18=370/195, 3-17=238/183, 4-17=92/207, 4-15=464/785, 5-15=381/313, 6-15=109/110, 6-14=0/204, 6-12=776/464, 7-12=258/737, 8-12=230/180, 8-11=362/218, 2-18=467/1609, 9-11=513/1573

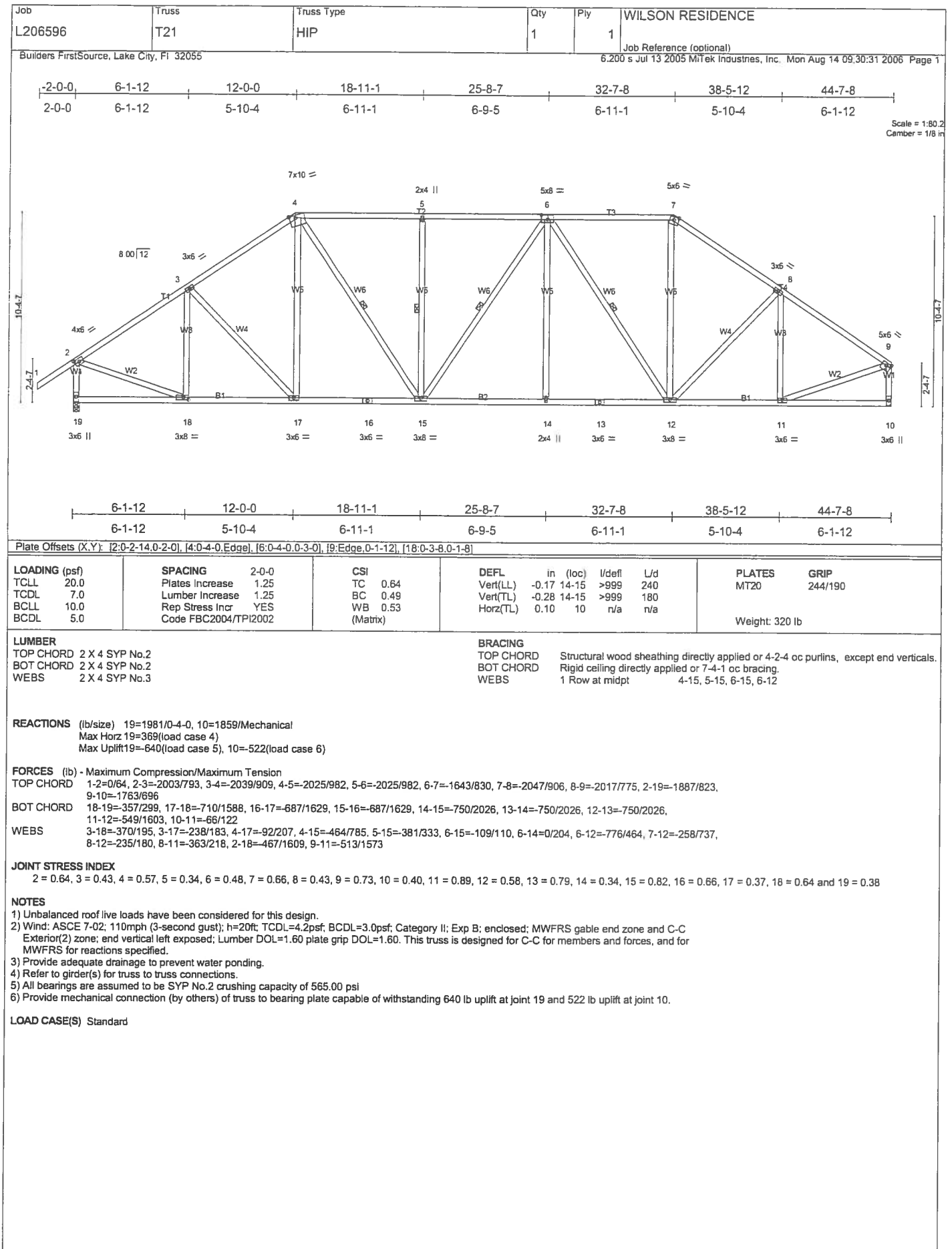
JOINT STRESS INDEX
2 = 0.64, 3 = 0.43, 4 = 0.57, 5 = 0.34, 6 = 0.48, 7 = 0.66, 8 = 0.43, 9 = 0.73, 10 = 0.41, 11 = 0.89, 12 = 0.58, 13 = 0.79, 14 = 0.34, 15 = 0.82, 16 = 0.66, 17 = 0.37, 18 = 0.64 and 19 = 0.38

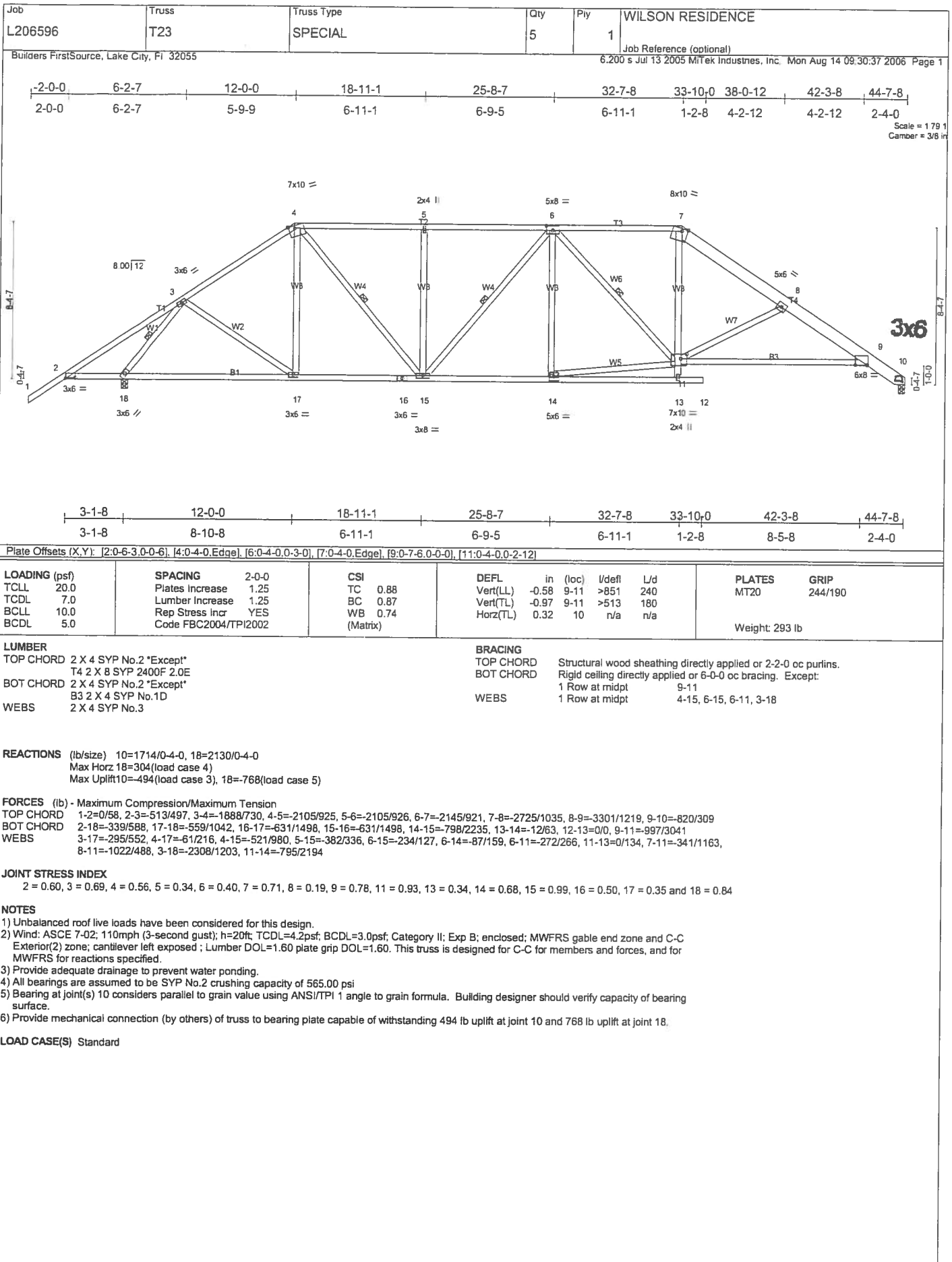
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone, end vertical lift exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Refer to girder(s) for truss to truss connections.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 640 lb uplift at joint 19 and 522 lb uplift at joint 10.

LOAD CASE(S) Standard

AUGUST 14, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549





Job L206596	Truss T24G	Truss Type COMMON	Qty 1	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)
6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:30:41 2006 Page 1					

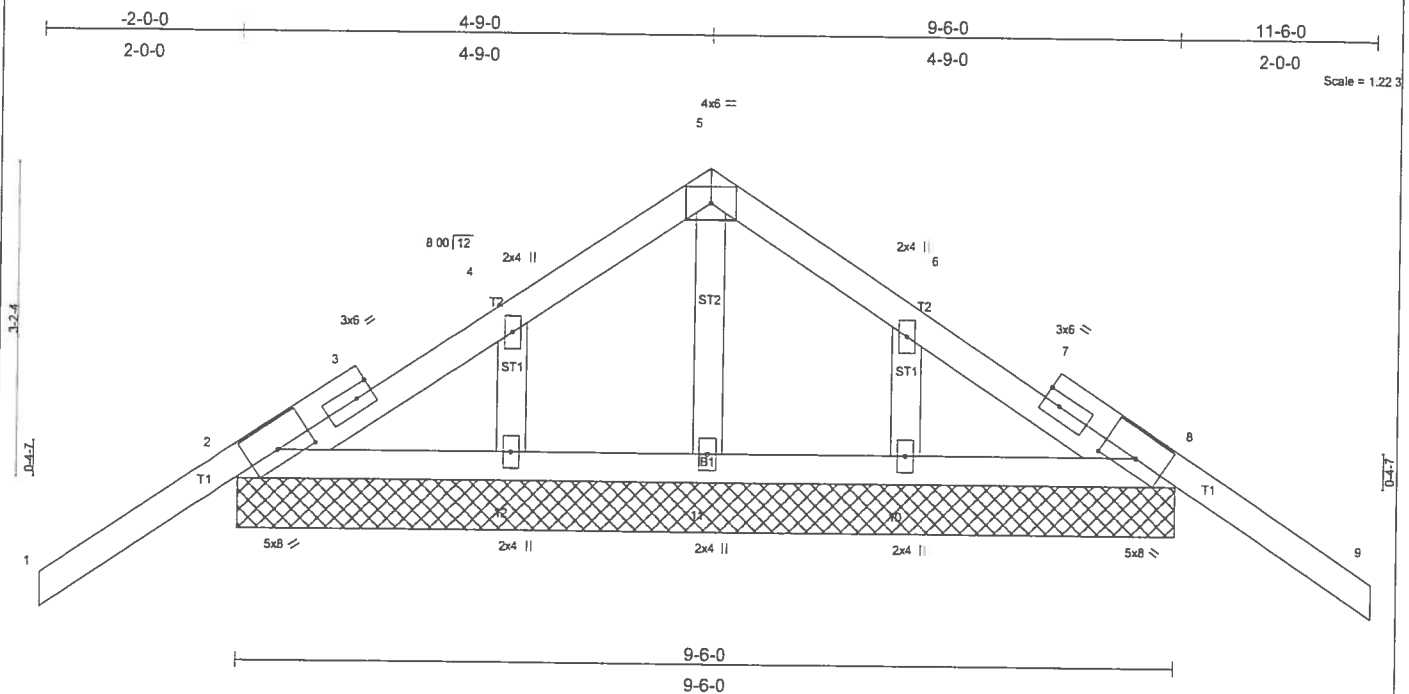


Plate Offsets (X,Y): [2-0-4-5,0-1-12], [8-0-4-5,0-1-12]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.07	Vert(LL) -0.04 9 n/r 120		
BCLL 10.0	Lumber Increase 1.25	WB 0.04	Vert(TL) -0.07 9 n/r 90		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.00 8 n/a n/a		
	Code FBC2004/TPI2002			Weight: 49 lb	

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 OTHERS 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) 2=511/9-6-0, 8=511/9-6-0, 11=255/9-6-0, 12=274/9-6-0, 10=274/9-6-0
 Max Horz 2=106(load case 3)
 Max Uplift 2=310(load case 5), 8=325(load case 6), 11=29(load case 5), 12=89(load case 6), 10=85(load case 5)
 Max Grav 2=511(load case 1), 8=511(load case 1), 11=255(load case 1), 12=278(load case 9), 10=278(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-16/123, 2-3=-123/90, 3-4=-38/91, 4-5=-99/144, 5-6=-99/144, 6-7=-37/91, 7-8=-123/90, 8-9=-16/123
 BOT CHORD 2-12=-16/90, 11-12=-16/90, 10-11=-16/90, 8-10=-16/90
 WEBS 5-11=-192/29, 4-12=-220/117, 6-10=-220/119

JOINT STRESS INDEX
 2 = 0.80, 3 = 0.00, 3 = 0.27, 4 = 0.11, 5 = 0.19, 6 = 0.11, 7 = 0.00, 7 = 0.27, 8 = 0.80, 10 = 0.08, 11 = 0.07 and 12 = 0.08

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 310 lb uplift at joint 2, 325 lb uplift at joint 8, 29 lb uplift at joint 11, 89 lb uplift at joint 12 and 85 lb uplift at joint 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

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-5=-114(F=-60), 5-9=-114(F=-60), 2-8=-30

Job L206596	Truss T25	Truss Type COMMON	Qty 2	Ply 1	WILSON RESIDENCE
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)
6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Aug 14 09:30:44 2006 Page 1					

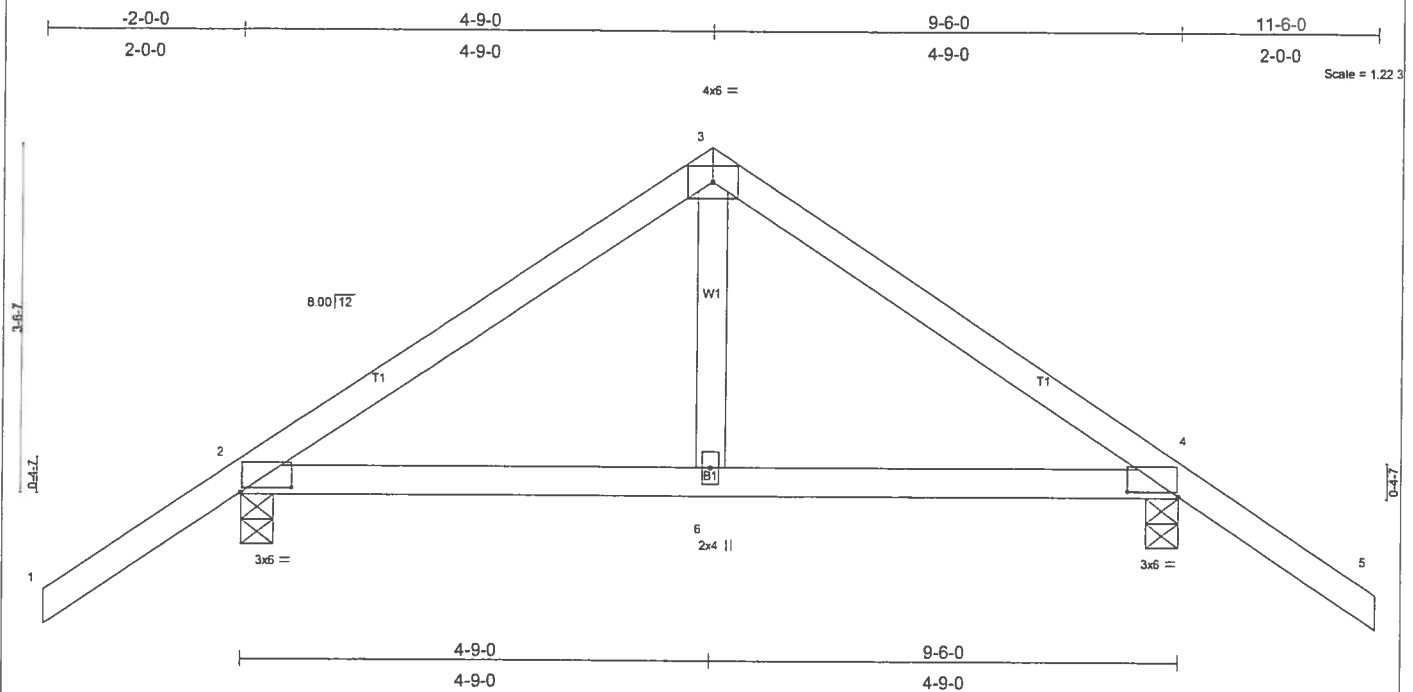


Plate Offsets (X,Y): [2-0-6-3-0-0-10], [4-0-6-3-0-0-10]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.12	Vert(LL) 0.02 4-6 >999 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.05	Vert(TL) 0.02 4-6 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.00 4 n/a n/a		
Weight: 43 lb					

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

REACTIONS (lb/size) 2=502/0-4-0, 4=502/0-4-0
 Max Horz 2=118(load case 3)
 Max Uplift 2=372(load case 5), 4=372(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/60, 2-3=413/384, 3-4=413/384, 4-5=0/60
 BOT CHORD 2-6=-139/281, 4-6=-139/281
 WEBS 3-6=-249/146

JOINT STRESS INDEX
 2 = 0.60, 3 = 0.39, 4 = 0.60 and 6 = 0.11

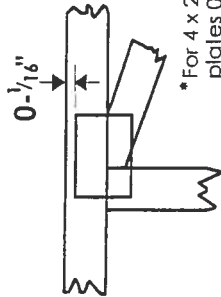
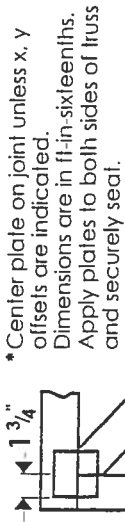
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B, enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 372 lb uplift at joint 2 and 372 lb uplift at joint 4.

LOAD CASE(S) Standard

Symbols

PLATE LOCATION AND ORIENTATION



* For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

* This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 x 4

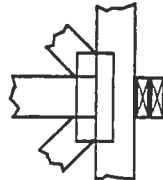
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



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

BEARING

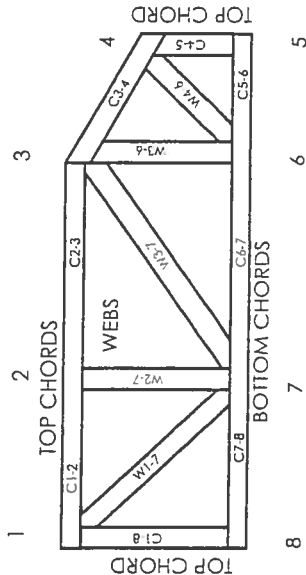


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A



MiTek Engineering Reference Sheet: MIL-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear lightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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