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Name: **SIMQUE, AARON DAVID (Primary Name)**
AARON SIMQUE HOMES INC (DBA Name)
Main Address: **PO BOX 2183**
LAKE CITY Florida 32056
County: **COLUMBIA**

License Mailing: **POST OFFICE BOX 2183**
LAKE CITY FL 32056
County: **COLUMBIA**

LicenseLocation:

License Information

License Type: **Registered Building Contractor**
Rank: **Reg Building**
License Number: **RB29003130**
Status: **Current,Active**
Licensure Date: **10/23/2002**
Expires: **08/31/2007**

Special Qualifications	Qualification Effective
Bldg Code Core Course Credit	
Qualified Business License Required	02/20/2004

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JANUARY 22, 2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
1805 N. FIDELITY AVE, STE B, LUTZ, FL 33549

LATERAL TOE-NAIL DETAIL

ST-TOENAIL

MITek Industries, Chesterfield, MO Page 1 of 1

NOTES:

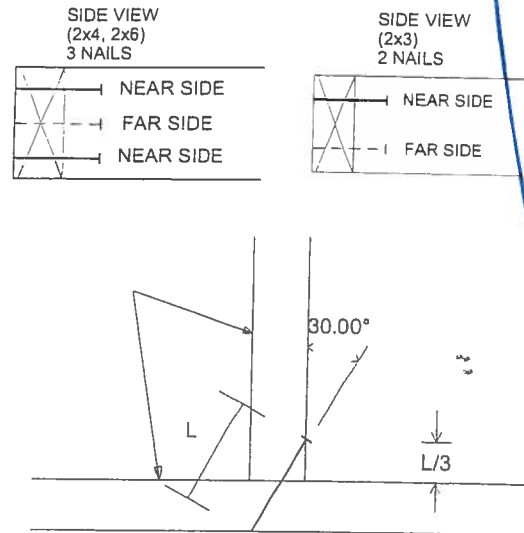
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE BOTTOM CHORD SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

	DIAM.	SYP
3.5" LONG	.131	83.3
	.135	89.6
	.162	118.3
3.25" LONG	.128	80.5
	.131	83.3
	.148	102.1
3.0" LONG	.120	70.5
	.128	80.5
	.131	83.3
	.148	102.1

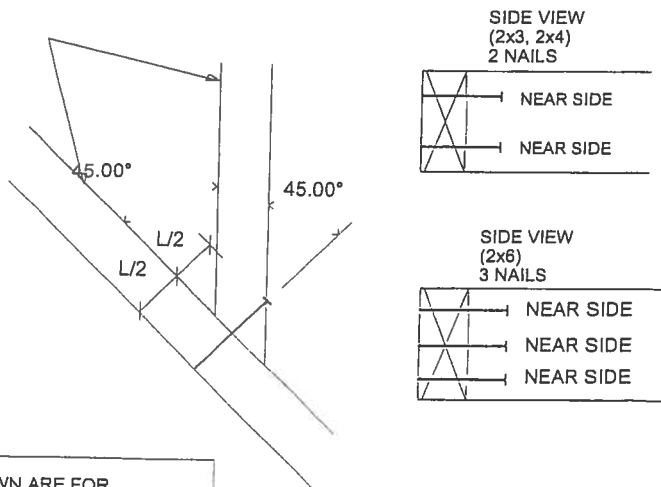
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

SQUARE CUT



45 DEGREE ANGLE BEVEL CUT

This detail may only be applied to Pre-engineered truss drawings signed and sealed by Structural Engineering and Inspections Inc.

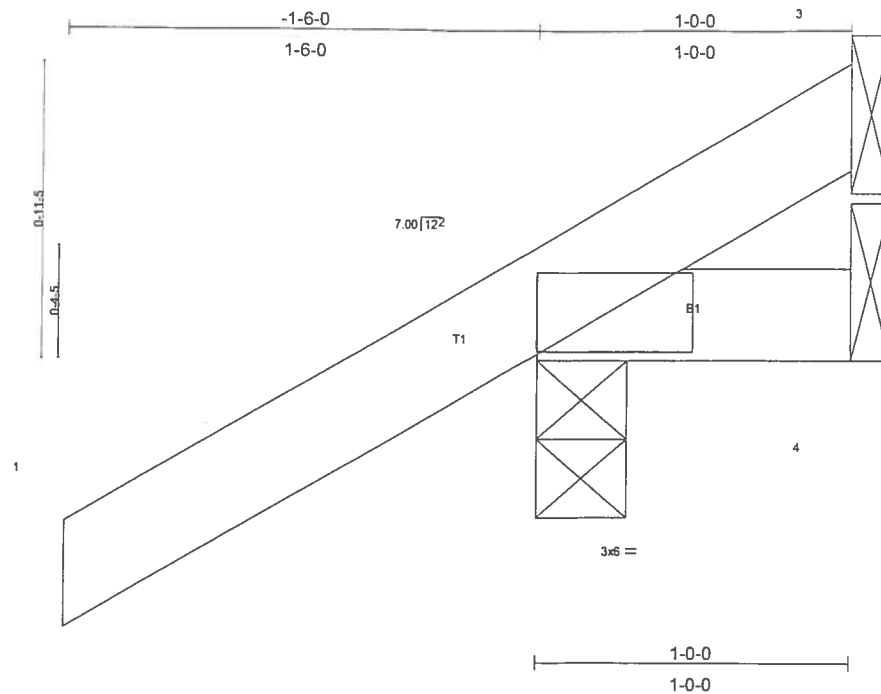


VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

The seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any particular building design is the responsibility of the building designer.

JAN 2 2 2007

Job MASTER	Truss CJ1	Truss Type JACK	Qty 4	Ply 1	AARON SIMQUE - GRAND ROSS
Builders FirstSource, Lake City, FL 32055					
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Scale = 1/8" = 1'-0"

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

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL 7.0	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 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TP12002								
								Weight: 6 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 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 2=189/0-3-8, 4=14/Mechanical, 3=40/Mechanical
Max Horz 2=82(load case 5)
Max Uplift 2=-196(load case 5), 4=-11(load case 3), 3=-40(load case 1)
Max Grav 2=189(load case 1), 4=14(load case 1), 3=64(load case 5)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-50/41
BOT CHORD 2-4=0/0

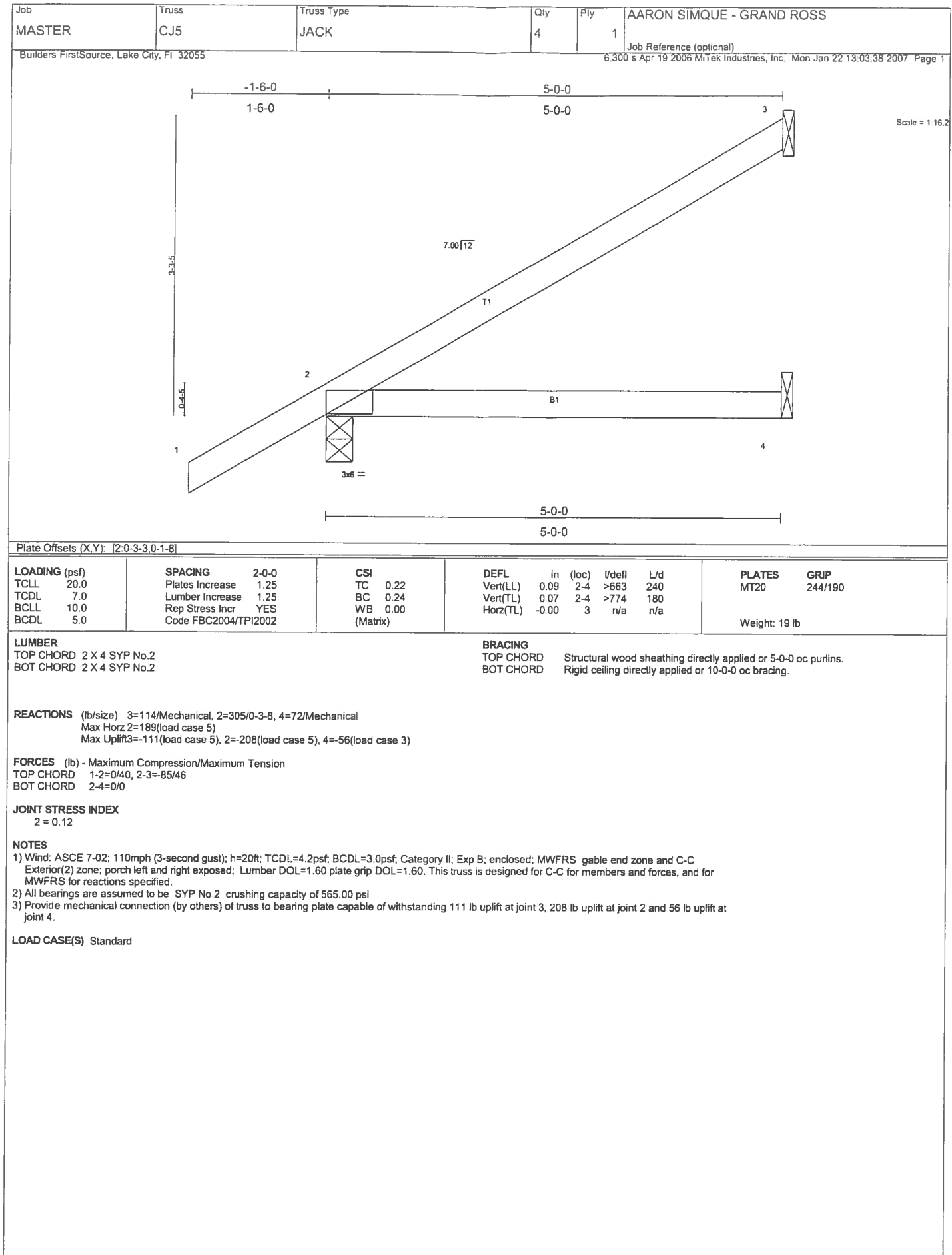
JOINT STRESS INDEX

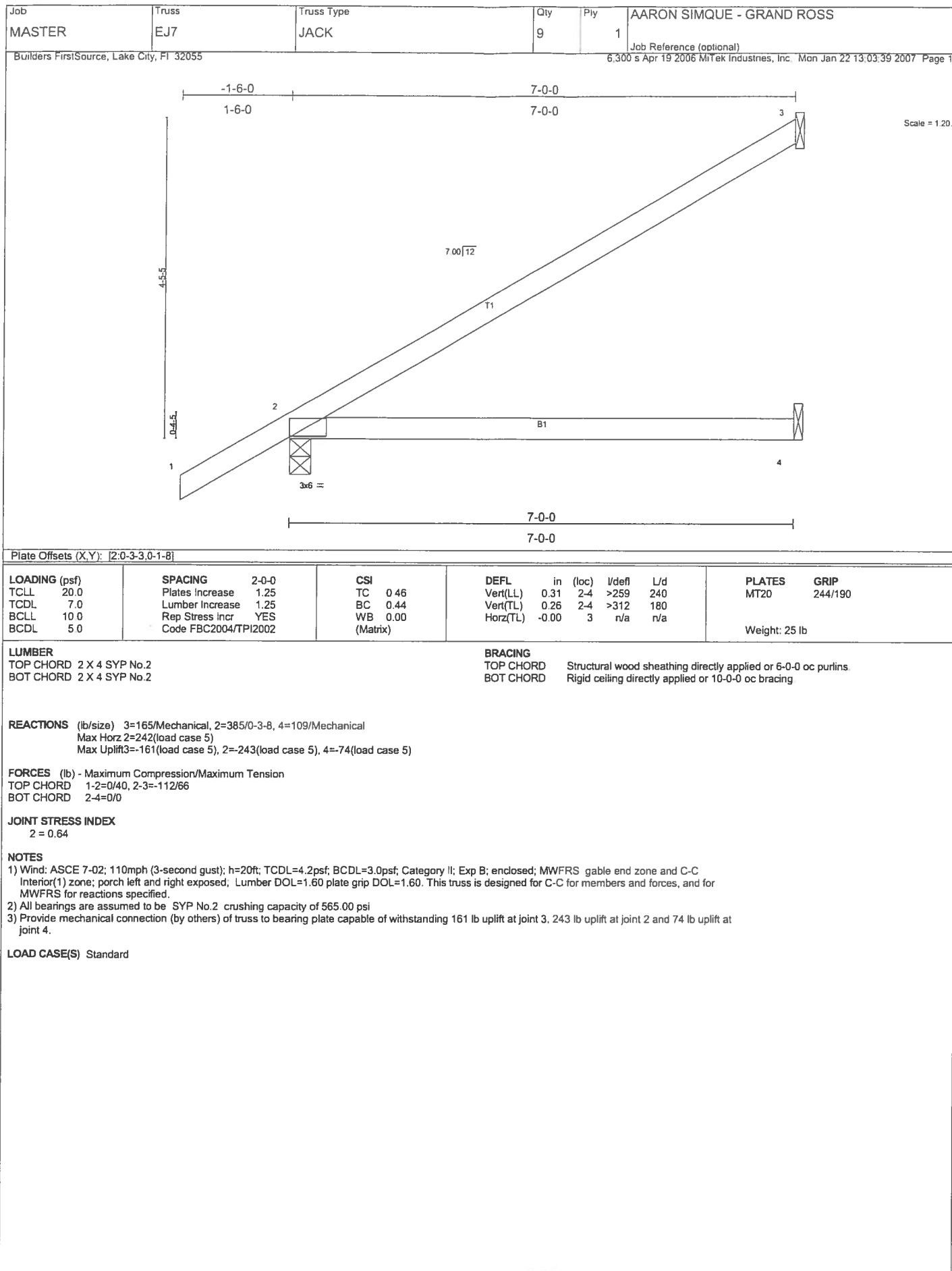
2 = 0.10

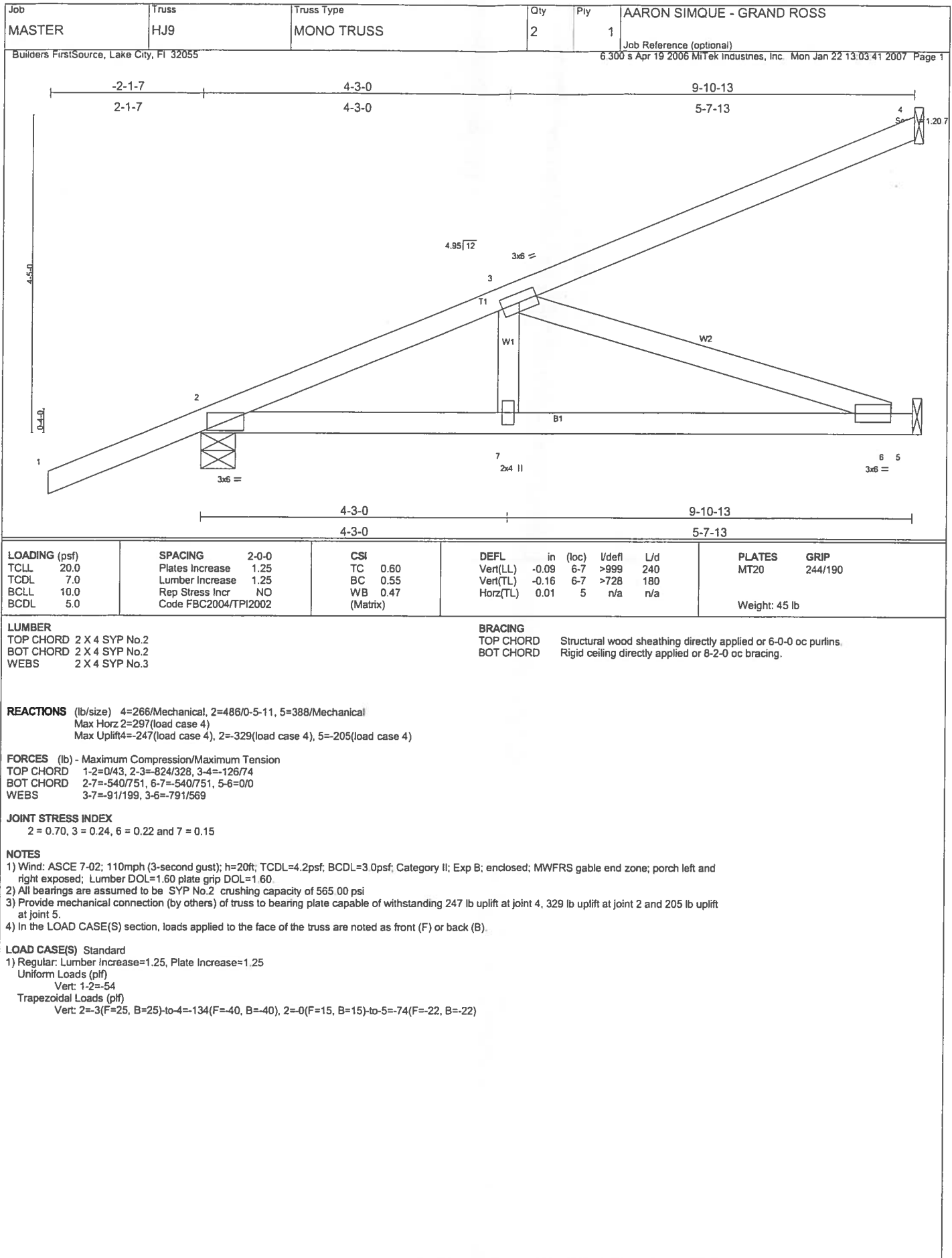
NOTES

- 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 2, 11 lb uplift at joint 4 and 40 lb uplift at joint 3.

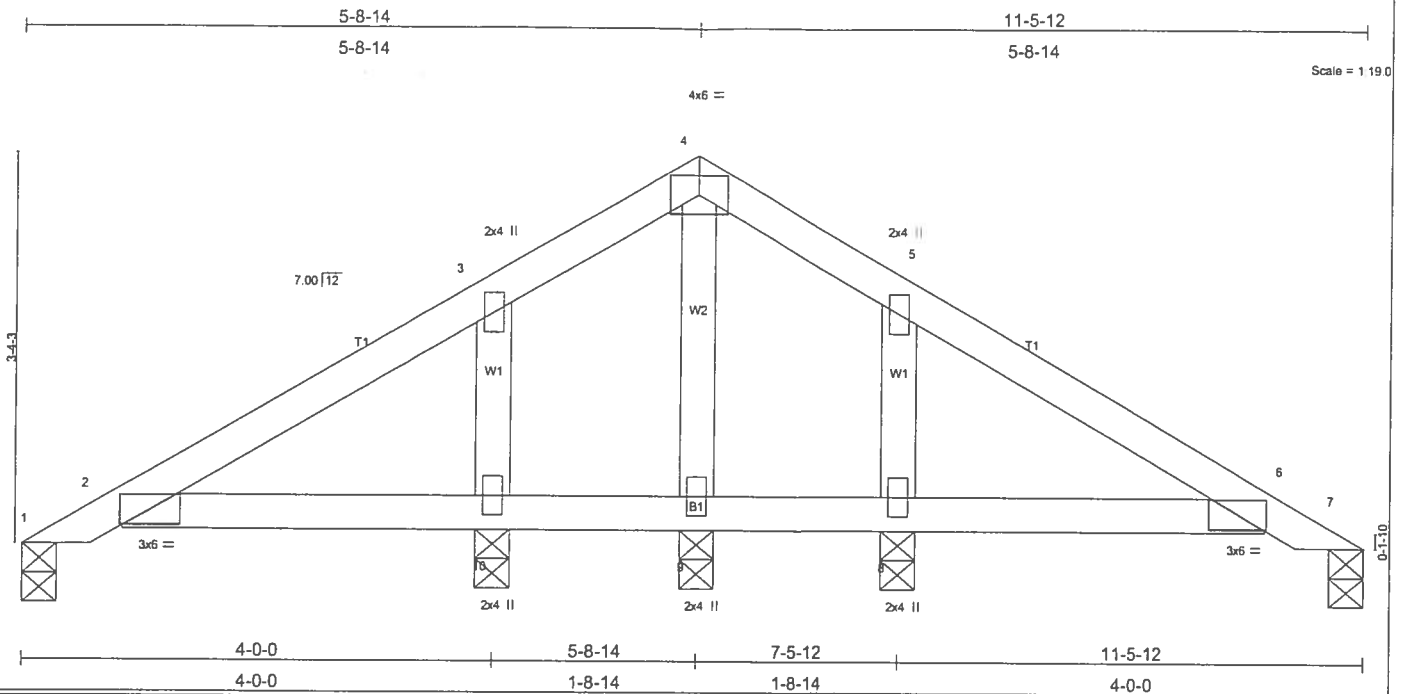
LOAD CASE(S) Standard







Job MASTER	Truss PB11	Truss Type PIGGYBACK	Qty 11	Ply 1	AARON SIMQUE - GRAND ROSS
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:03:42 2007 Page 1



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.09	Vert(LL) -0.01 2-10 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.04	Vert(TL) -0.01 2-10 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 7 n/a n/a		
	Code FBC2004/TP12002			Weight: 43 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 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=49/0-3-8, 7=49/0-3-8, 9=191/0-3-8, 10=312/0-3-8, 8=312/0-3-8
 Max Horz 1=113(load case 4)
 Max Uplift 1=18(load case 6), 7=22(load case 3), 9=5(load case 4), 10=170(load case 5), 8=165(load case 6)
 Max Grav 1=66(load case 9), 7=66(load case 10), 9=191(load case 1), 10=317(load case 9), 8=317(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-110/112, 2-3=-104/232, 3-4=-19/180, 4-5=-12/180, 5-6=-74/232, 6-7=-28/15
 BOT CHORD 2-10=-155/116, 9-10=-155/116, 8-9=-155/116, 6-8=-155/116
 WEBS 4-9=-201/27, 3-10=-189/162, 5-8=-189/159

JOINT STRESS INDEX
 2 = 0.21, 3 = 0.09, 4 = 0.06, 5 = 0.09, 6 = 0.21, 8 = 0.09, 9 = 0.07 and 10 = 0.09

NOTES

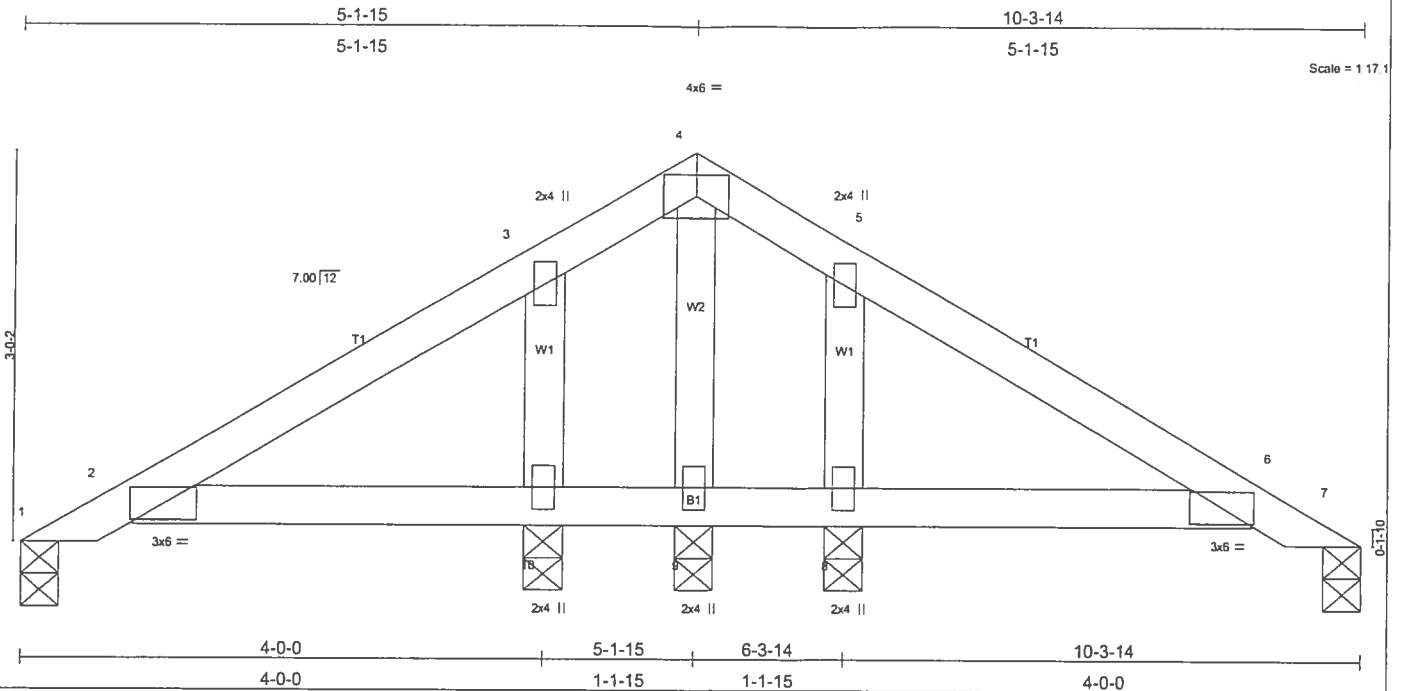
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B, enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members 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, 7 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 18 lb uplift at joint 1, 22 lb uplift at joint 7, 5 lb uplift at joint 9, 170 lb uplift at joint 10 and 165 lb uplift at joint 8
- SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - GRAND ROSS
MASTER	PB11G	PIGGYBACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	Vert(LL)	-0.01	2-10	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.09	Vert(TL)	-0.01	2-10	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.04	Horz(TL)	0.00	7	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TP12002								
								Weight: 39 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 6'-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6'-0-0 oc bracing.

REACTIONS (lb/size) 1=41/0-3-8, 7=41/0-3-8, 9=62/0-3-8, 10=336/0-3-8, 8=336/0-3-8
 Max Horz 1=-102(load case 3)
 Max Uplift 1=-14(load case 6), 7=-23(load case 3), 9=-1(load case 4), 10=-178(load case 5), 8=-171(load case 6)
 Max Grav 1=60(load case 9), 7=60(load case 10), 9=62(load case 1), 10=339(load case 9), 8=339(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-97/100, 2-3=-105/249, 3-4=-10/181, 4-5=-15/181, 5-6=-81/249, 6-7=-26/16
 BOT CHORD 2-10=-170/119, 9-10=-170/119, 8-9=-170/119, 6-8=-170/119
 WEBS 4-9=-134/5, 3-10=-197/163, 5-8=-197/159

JOINT STRESS INDEX
 2 = 0.20, 3 = 0.09, 4 = 0.10, 5 = 0.09, 6 = 0.20, 8 = 0.09, 9 = 0.05 and 10 = 0.09

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 Interior(1) 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, 7 considers parallel to grain value using ANSI/TP1 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 14 lb uplift at joint 1, 23 lb uplift at joint 7, 1 lb uplift at joint 9, 178 lb uplift at joint 10 and 171 lb uplift at joint 8.
- SEE Mitek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

Job MASTER	Truss T01	Truss Type COMMON	Qty 12	Ply 1	AARON SIMQUE - GRAND ROSS
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6 300 s Apr 19 2006 Mitek Industries, Inc. Mon Jan 22 13:03:44 2007 Page 1		

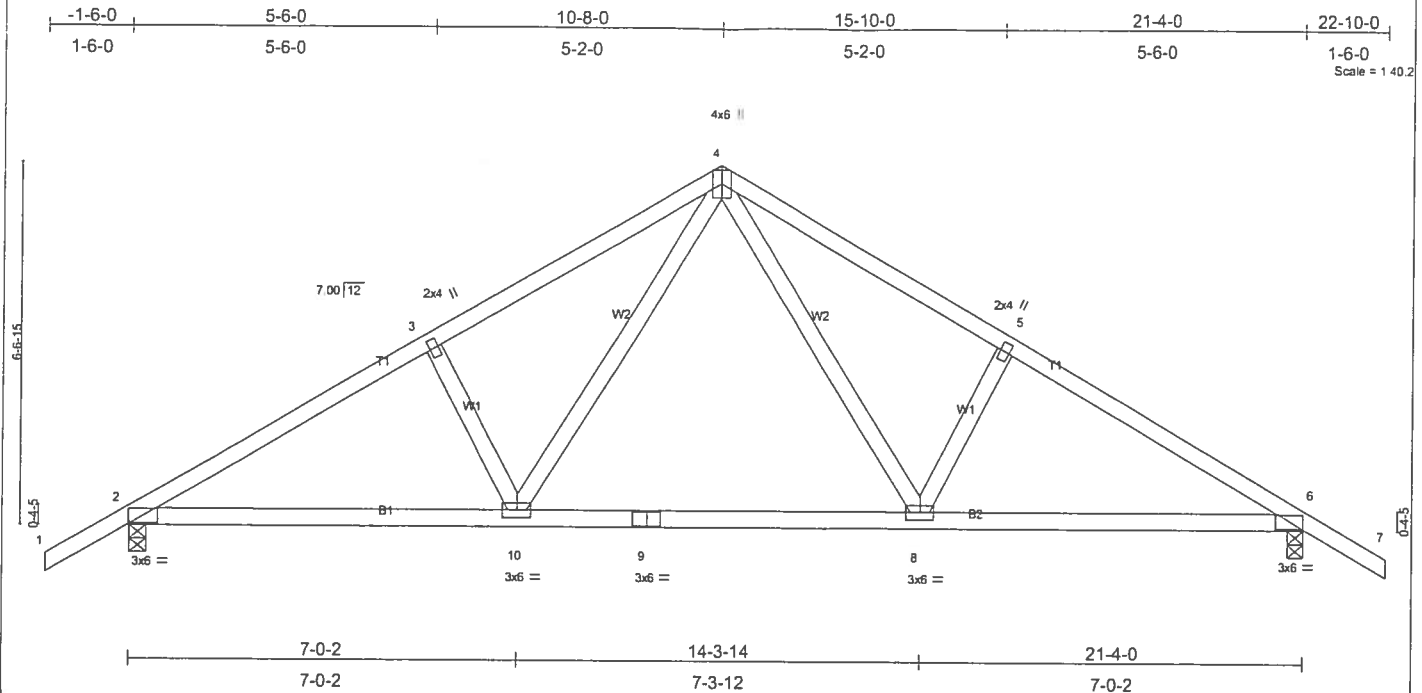


Plate Offsets (X,Y): [2-0-3-3,0-1-8], [6-0-3-3,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	Vert(LL)	-0.23 8-10	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.84	Vert(TL)	-0.36 8-10	>692	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.27	Horz(TL)	0.04 6	n/a	n/a		
BCDL 5.0	Rep Stress Incr NO	(Matrix)						
	Code FBC2004/TPI2002							
							Weight: 105 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 4-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-2-14 oc bracing.

REACTIONS (lb/size) 2=1155/0-3-8, 6=1155/0-3-8
Max Horz 2=-222(load case 3)
Max Uplift 2=-448(load case 5), 6=-448(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-1744/557, 3-4=-1613/598, 4-5=-1613/599, 5-6=-1744/558, 6-7=0/40
BOT CHORD 2-10=-457/1430, 9-10=-211/964, 8-9=-211/964, 6-8=-370/1430
WEBS 3-10=-235/234, 4-10=-284/750, 4-8=-284/750, 5-8=-235/234

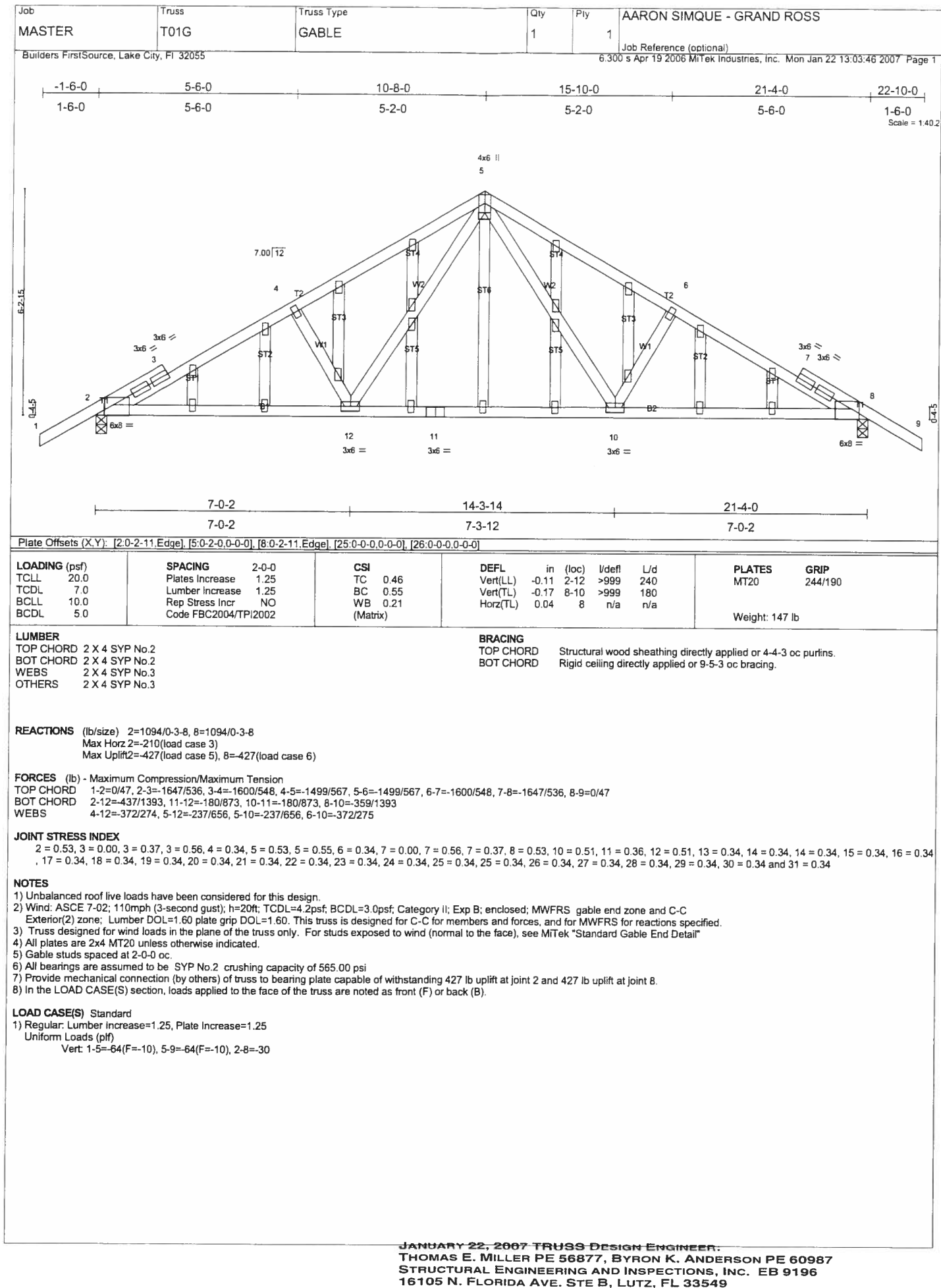
JOINT STRESS INDEX
2 = 0.75, 3 = 0.34, 4 = 0.47, 5 = 0.34, 6 = 0.75, 8 = 0.59, 9 = 0.72 and 10 = 0.59

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 Interior(1) 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 448 lb uplift at joint 2 and 448 lb uplift at joint 6.
- 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: 1-4=-54, 4-7=-54, 2-10=-30, 8-10=-80(F=-50), 6-8=-30



Job MASTER	Truss T02	Truss Type COMMON	Qty 5	Ply 1	AARON SIMQUE - GRAND ROSS
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:03:48 2007 Page 1		

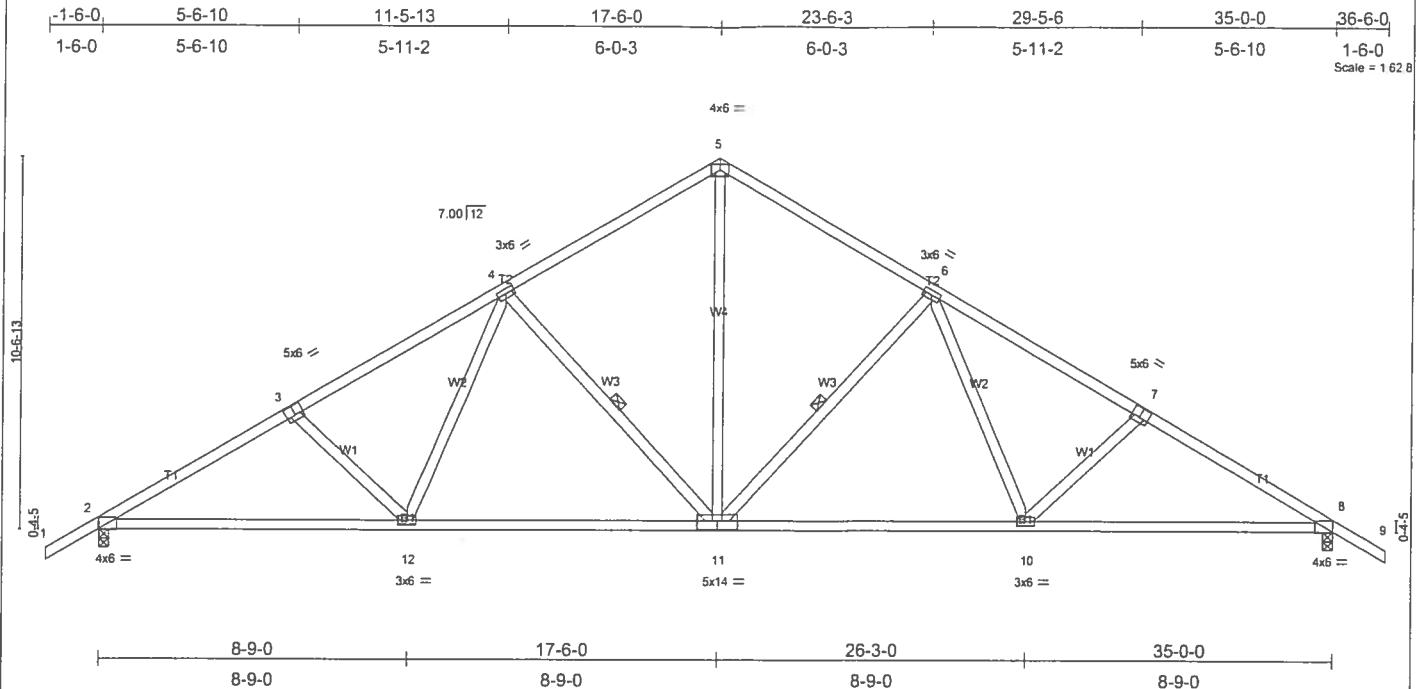


Plate Offsets (X,Y): [2-0-0-0-0-0-4], [3-0-3-0-0-3-4], [7-0-3-0-0-3-4], [8-0-0-0-0-0-4], [11-0-7-0-0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.33	Vert(LL) -0.20	10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.61	Vert(TL) -0.33	10-11	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.74	Horz(TL) 0.10	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)						
							Weight: 192 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 3-8-7 oc purlins
BOT CHORD Rigid ceiling directly applied or 7-6-15 oc bracing
WEBS 1 Row at midpt 4-11, 6-11

REACTIONS (lb/size) 2=1547/0-3-8, 8=1547/0-3-8
Max Horz 2=360(load case 4)
Max Uplift 2=563(load case 5), 8=563(load case 6)

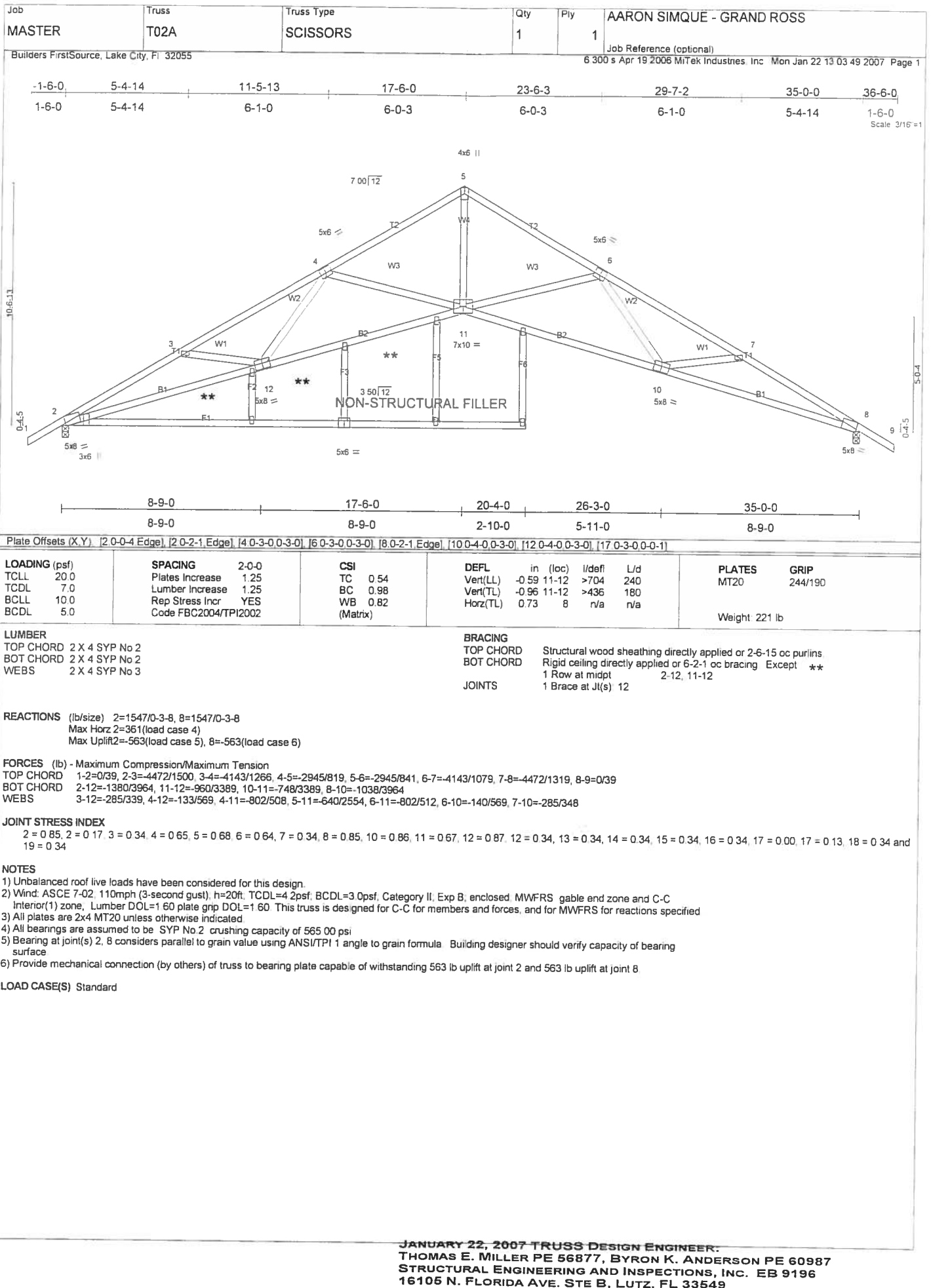
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-2412/772, 3-4=-2213/734, 4-5=-1540/600, 5-6=-1540/600, 6-7=-2213/734, 7-8=-2412/772, 8-9=0/40
BOT CHORD 2-12=-698/2025, 11-12=-467/1654, 10-11=-364/1654, 8-10=-522/2025
WEBS 3-12=-263/254, 4-12=-134/498, 4-11=-606/377, 5-11=-395/1139, 6-11=-606/377, 6-10=-135/498, 7-10=-263/254

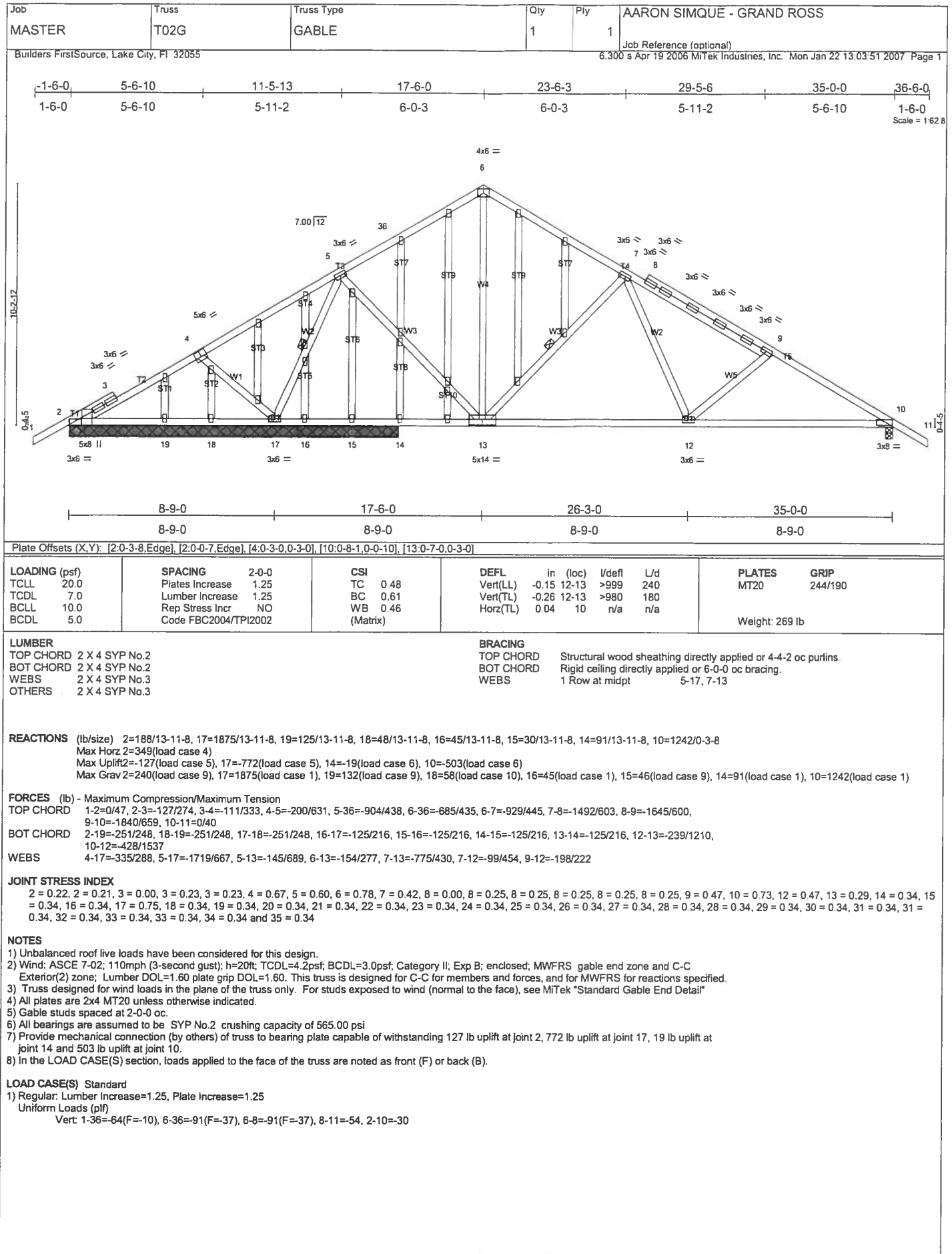
JOINT STRESS INDEX
2 = 0.79, 3 = 0.40, 4 = 0.42, 5 = 0.57, 6 = 0.42, 7 = 0.40, 8 = 0.79, 10 = 0.48, 11 = 0.43 and 12 = 0.48

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 Interior(1) 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 563 lb uplift at joint 2 and 563 lb uplift at joint 8.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - GRAND ROSS
MASTER	T03	SPECIAL	9	1	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:03:52 2007 Page 1

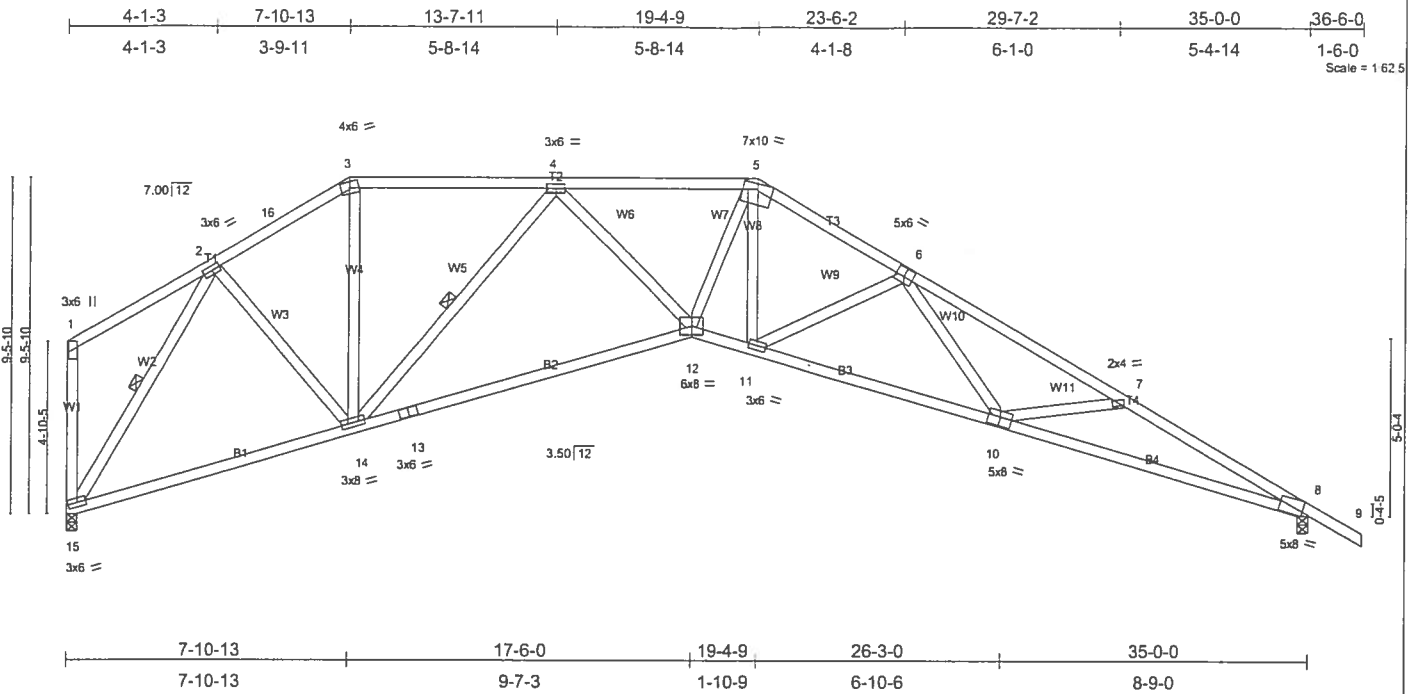


Plate Offsets (X,Y): [6.0-3.0-0.3-0], [8.0-2.1-Edge], [10.0-4.0-0.3-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.90	Vert(LL) -0.45 12-14 >919 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.71	Vert(TL) -0.75 12-14 >555 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.53 8 n/a n/a		
	Code FBC2004/TPI2002			Weight: 204 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-4 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 6-7-11 oc bracing.
 WEBS 1 Row at midpt 4-14, 2-15

REACTIONS (lb/size) 15=2162/0-3-8, 8=1608/0-3-8
 Max Horz 15=330(load case 6)
 Max Uplift 15=492(load case 5), 8=556(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-266/116, 2-16=-1944/539, 3-16=-1737/513, 3-4=-1564/485, 4-5=-3311/716, 5-6=-3387/756, 6-7=-4357/1052, 7-8=-4690/1305,
 8-9=0/39, 1-15=-419/100
 BOT CHORD 14-15=-472/1248, 13-14=-762/2584, 12-13=-754/2655, 11-12=-575/3029, 10-11=-604/3578, 8-10=-1026/4158
 WEBS 2-14=-191/596, 3-14=-89/612, 4-14=-1506/490, 4-12=-128/1173, 5-12=-367/1028, 5-11=-277/488, 6-11=-607/399, 6-10=-152/536,
 7-10=-274/364, 2-15=-2261/579

JOINT STRESS INDEX

1 = 0.51, 2 = 0.62, 3 = 0.58, 4 = 0.75, 5 = 0.87, 6 = 0.53, 7 = 0.34, 8 = 0.89, 10 = 0.91, 11 = 0.38, 12 = 0.92, 13 = 0.89, 14 = 0.82 and 15 = 0.82

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 Interior(1) 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) 15, 8 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 492 lb uplift at joint 15 and 556 lb uplift at joint 8.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

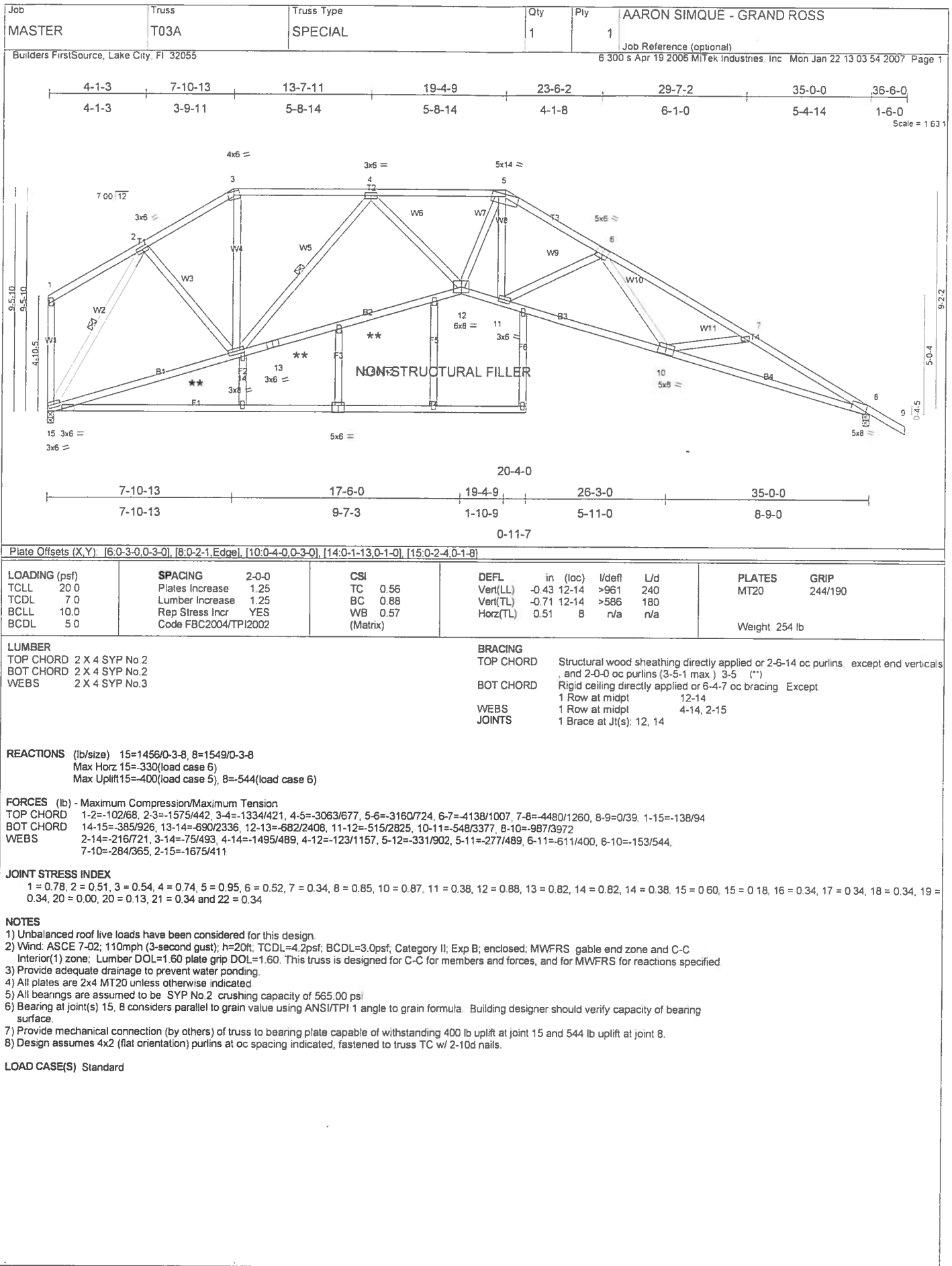
LOAD CASE(S) Standard

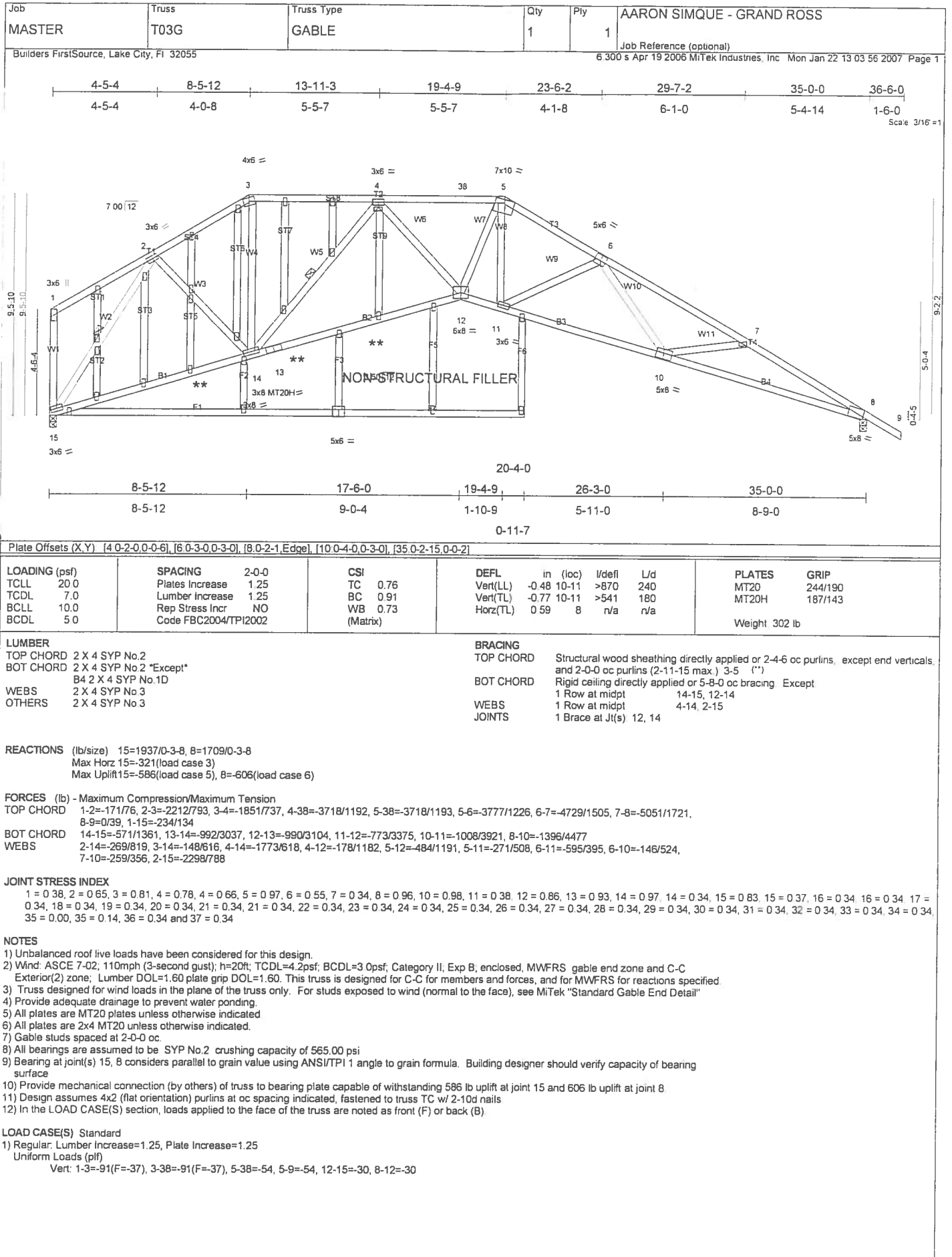
- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 3-16=-54, 3-5=-54, 5-9=-54, 12-15=-30, 8-12=-30
 Trapezoidal Loads (plf)
 Vert: 1=-212-to-16=-164
- C-C Wind: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 3-16=28, 3-5=31, 5-8=28, 8-9=58, 12-15=6, 8-12=6
 Horz: 1-3=-36, 5-8=36, 8-9=66
 Drag: 3-4=0, 4-5=0
 Trapezoidal Loads (plf)
 Vert: 1=14-to-16=61
- MWFRS Wind Left: Lumber Increase=1.60, Plate Increase=1.60

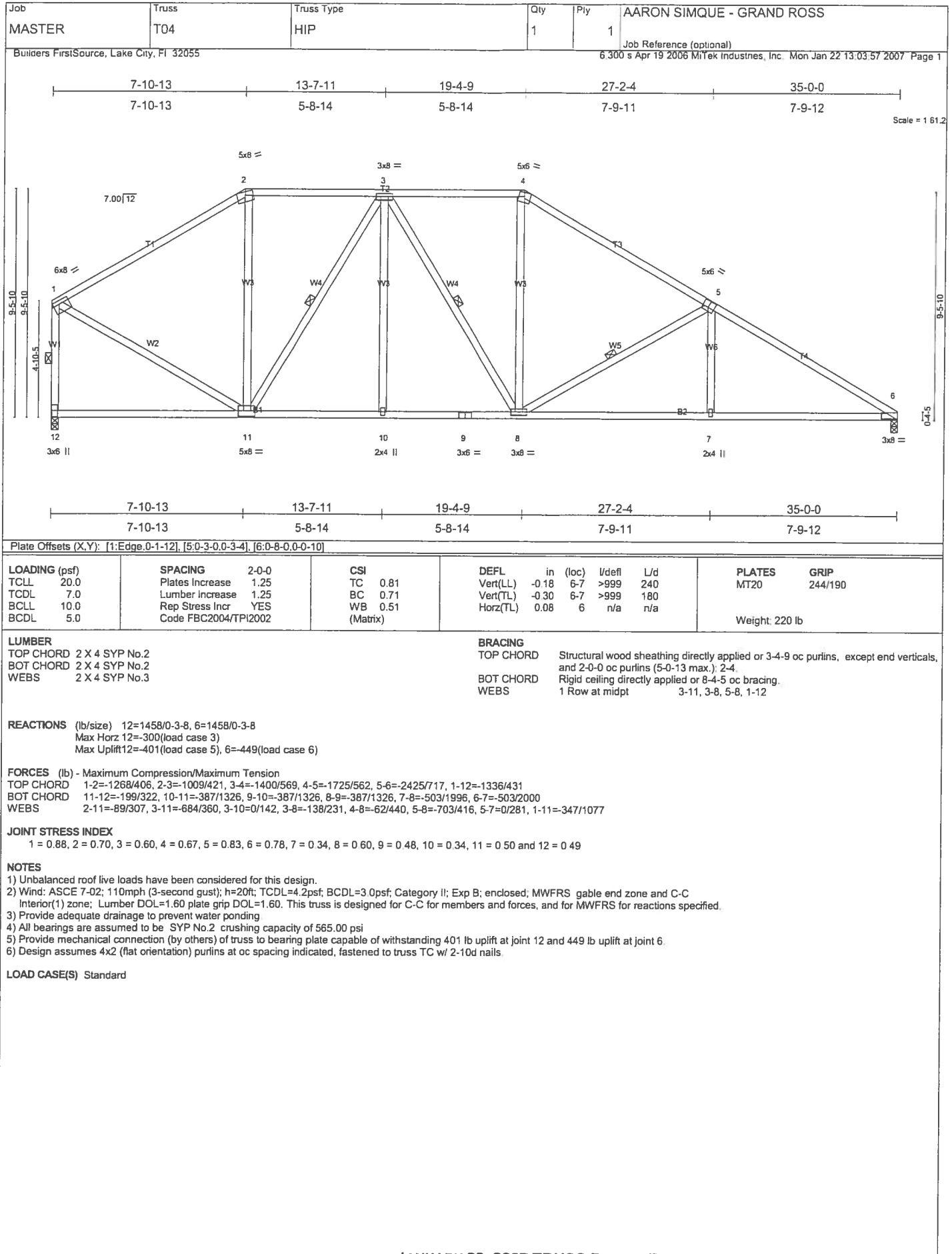
Continued on page 2

JANUARY 22, 2007 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	Truss	Truss Type	Qty	Ply	AARON SIMQUE - GRAND ROSS
MASTER	T03	SPECIAL	9	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 Mitek Industries, Inc. Mon Jan 22 13:03:52 2007 Page 2		
LOAD CASE(S) Standard					
Uniform Loads (plf)					
Vert: 3-16=-12, 3-5=46, 5-8=22, 8-9=15, 12-15=-6, 8-12=-6					
Horz: 1-3=4, 5-8=31, 8-9=23					
Drag: 3-4=-0, 4-5=0					
Trapezoidal Loads (plf)					
Vert: 1=-7-to-16=40					
4) MWFRS Wind Right: Lumber Increase=1.60, Plate Increase=1.60					
Uniform Loads (plf)					
Vert: 3-16=22, 3-5=46, 5-8=-12, 8-9=9, 12-15=-6, 8-12=-6					
Horz: 1-3=-31, 5-8=-4, 8-9=18					
Drag: 3-4=-0, 4-5=0					
Trapezoidal Loads (plf)					
Vert: 1=28-to-16=75					
5) MWFRS 1st Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60					
Uniform Loads (plf)					
Vert: 3-16=38, 3-5=24, 5-8=24, 8-9=17, 12-15=-6, 8-12=-6					
Horz: 1-3=-46, 5-8=32, 8-9=25					
Drag: 3-4=-0, 4-5=0					
Trapezoidal Loads (plf)					
Vert: 1=32-to-16=79					
6) MWFRS 2nd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60					
Uniform Loads (plf)					
Vert: 3-16=24, 3-5=24, 5-8=38, 8-9=56, 12-15=-6, 8-12=-6					
Horz: 1-3=-32, 5-8=46, 8-9=65					
Drag: 3-4=-0, 4-5=0					
Trapezoidal Loads (plf)					
Vert: 1=18-to-16=65					
7) MWFRS 3rd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60					
Uniform Loads (plf)					
Vert: 3-16=18, 3-5=12, 5-8=12, 8-9=5, 12-15=-6, 8-12=-6					
Horz: 1-3=-26, 5-8=20, 8-9=14					
Drag: 3-4=-0, 4-5=0					
Trapezoidal Loads (plf)					
Vert: 1=-14-to-16=33					
8) MWFRS 4th Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60					
Uniform Loads (plf)					
Vert: 3-16=12, 3-5=12, 5-8=18, 8-9=36, 12-15=-6, 8-12=-6					
Horz: 1-3=-20, 5-8=26, 8-9=45					
Drag: 3-4=-0, 4-5=0					
Trapezoidal Loads (plf)					
Vert: 1=-20-to-16=27					
9) 1st unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25					
Uniform Loads (plf)					
Vert: 3-16=-54, 3-5=-54, 5-9=-14, 12-15=-30, 8-12=-30					
Trapezoidal Loads (plf)					
Vert: 1=-212-to-16=-164					
10) 2nd unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25					
Uniform Loads (plf)					
Vert: 3-16=-14, 3-5=-54, 5-9=-54, 12-15=-30, 8-12=-30					
Trapezoidal Loads (plf)					
Vert: 1=-172-to-16=-124					







Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - GRAND ROSS
MASTER	T04G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055
6:300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:03:59 2007 Page 1

4-4-10
8-5-12
13-11-3
19-4-9
27-2-4
35-0-0

4-4-10
4-1-2
5-5-7
5-5-7
7-9-11
7-9-12

Scale = 1:61.2

8-5-12
13-11-3
19-4-9
27-2-4
35-0-0

8-5-12
5-5-7
5-5-7
7-9-11
7-9-12

Plate Offsets (X,Y): [6,0-4-0,0-3-0], [7,0-1-3,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 0.69	Vert(LL)	-0.20	7-8	>999	240	MT20
TCDL 7.0	Lumber Increase	1.25	BC 0.84	Vert(TL)	-0.32	7-8	>999	180	244/190
BCLL 10.0	Rep Stress Incr	NO	WB 0.58	Horz(TL)	0.10	7	n/a	n/a	
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						

Weight: 282 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 3-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-8 max.); 3-5

BOT CHORD Rigid ceiling directly applied or 6-11-11 oc bracing

WEBS 1 Row at midpt 4-12, 4-9, 6-9, 2-13

REACTIONS (lb/size) 13=1943/0-3-8, 7=1621/Mechanical

Max Horz 13=-301(load case 3)

Max Uplift 13=-588(load case 5), 7=-512(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-174/73, 2-3=-1652/713, 3-4=-1357/668, 4-28=-1682/806, 5-28=-1682/806, 5-6=-2049/839, 6-7=-2756/979, 1-13=-233/131

BOT CHORD 12-13=-462/1046, 11-12=-548/1692, 10-11=-548/1692, 9-10=-548/1692, 8-9=-734/2286, 7-8=-734/2291

WEBS 2-12=-270/610, 3-12=-100/342, 4-12=-722/373, 4-11=0/121, 4-9=-211/309, 5-9=-150/583, 6-9=-713/419, 6-8=0/282, 2-13=-1861/734

JOINT STRESS INDEX

1 = 0.37, 2 = 0.53, 3 = 0.75, 4 = 0.60, 5 = 0.72, 6 = 0.66, 7 = 0.69, 8 = 0.34, 9 = 0.60, 10 = 0.60, 11 = 0.34, 12 = 0.64, 13 = 0.84, 14 = 0.34, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.34, 19 = 0.34, 20 = 0.34, 21 = 0.34, 22 = 0.34, 23 = 0.34, 24 = 0.34, 25 = 0.34, 26 = 0.34 and 27 = 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"
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 588 lb uplift at joint 13 and 512 lb uplift at joint 7.
- Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
- 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)

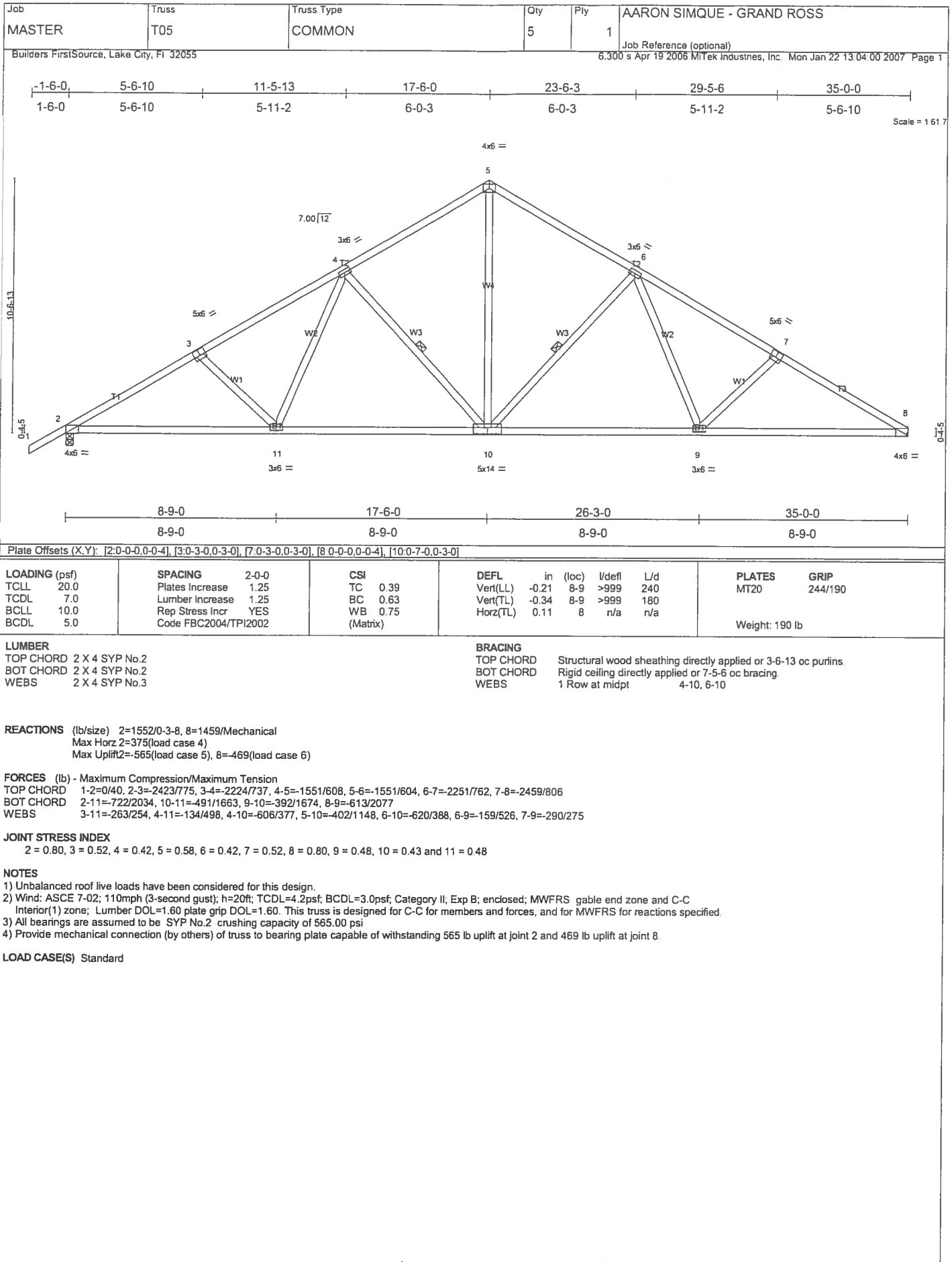
Vert: 1-3=-91(F=-37), 3-28=-91(F=-37), 5-28=-54, 5-7=-54, 7-13=-30

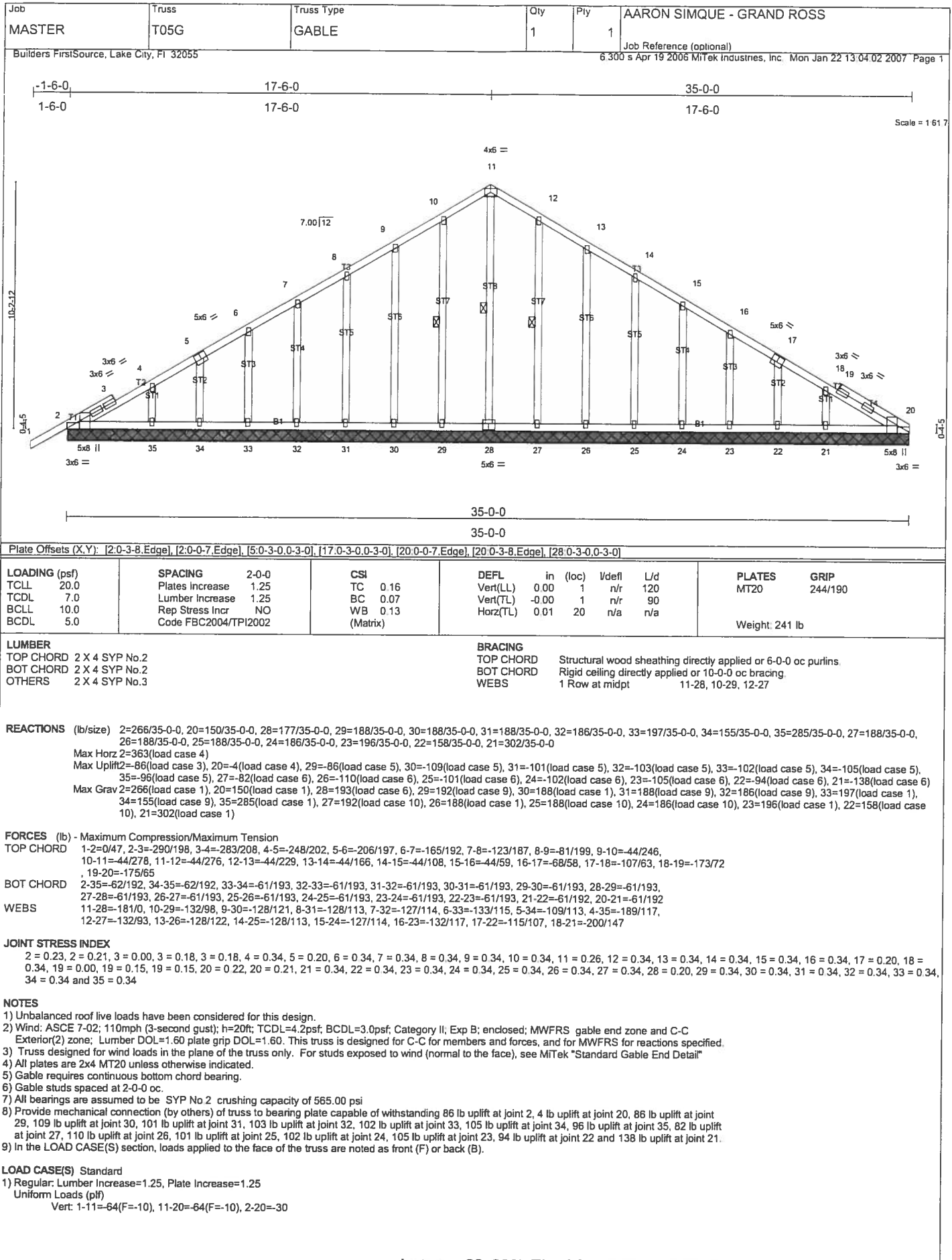
JANUARY 22, 2007 TRUSS DESIGN ENGINEER:

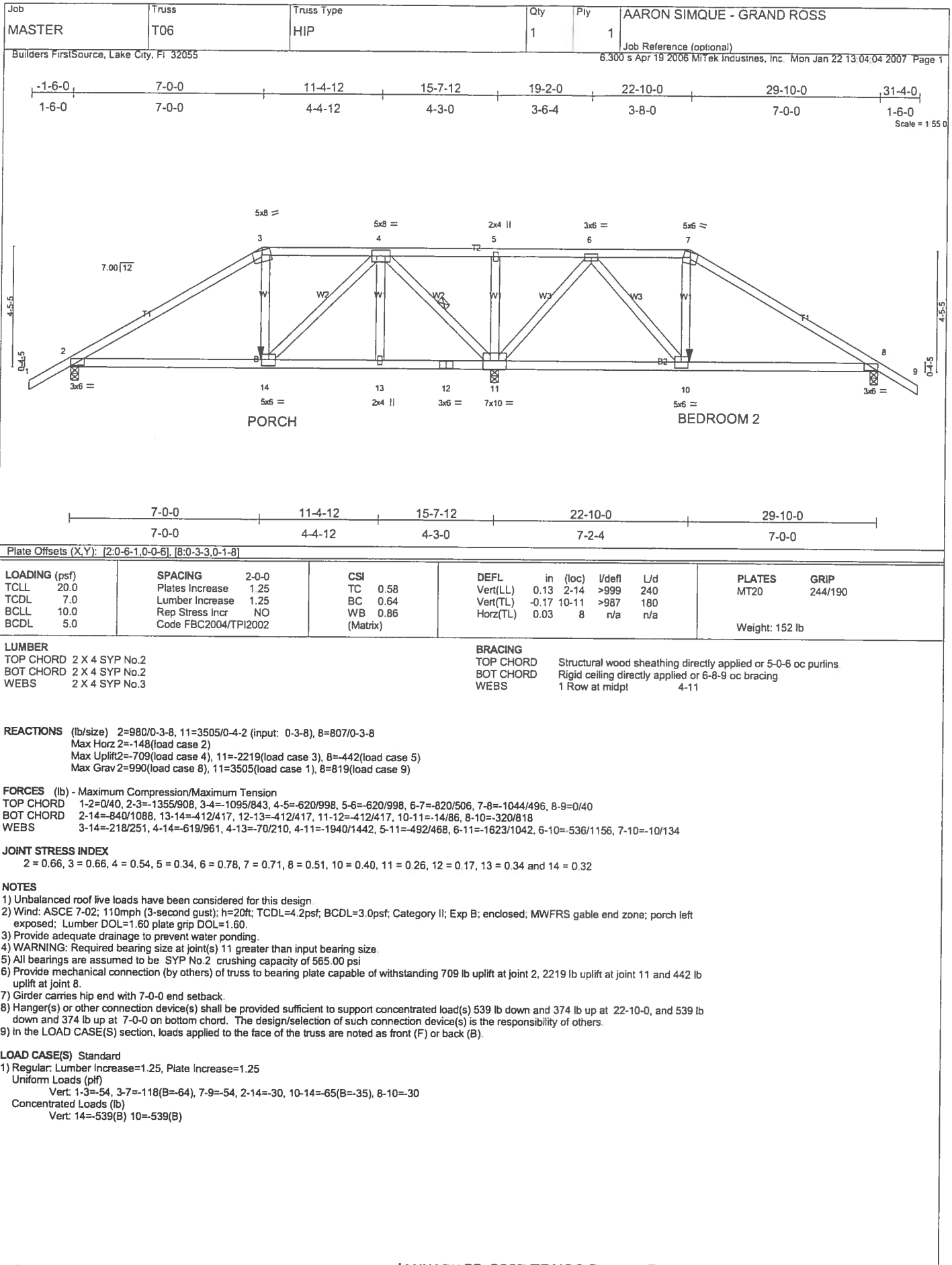
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987

STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196

16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549







Job MASTER	Truss T07	Truss Type HIP	Qty 1	Ply 1	AARON SIMQUE - GRAND ROSS
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:04:05 2007 Page 1		

-1-6-0	4-8-13	9-0-0	12-4-12	15-7-12	20-10-0	25-1-3	29-10-0	31-4-0
1-6-0	4-8-13	4-3-3	3-4-12	3-3-0	5-2-4	4-3-3	4-8-13	1-6-0

Scale = 1/55.0

4-8-13	9-0-0	15-7-12	20-10-0	25-1-3	29-10-0
4-8-13	4-3-3	6-7-12	5-2-4	4-3-3	4-8-13

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.25	Vert(LL) 0.09 13-15 >999 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.46	Vert(TL) 0.08 13-15 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.01 9 n/a n/a		
Weight: 171 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 6-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	

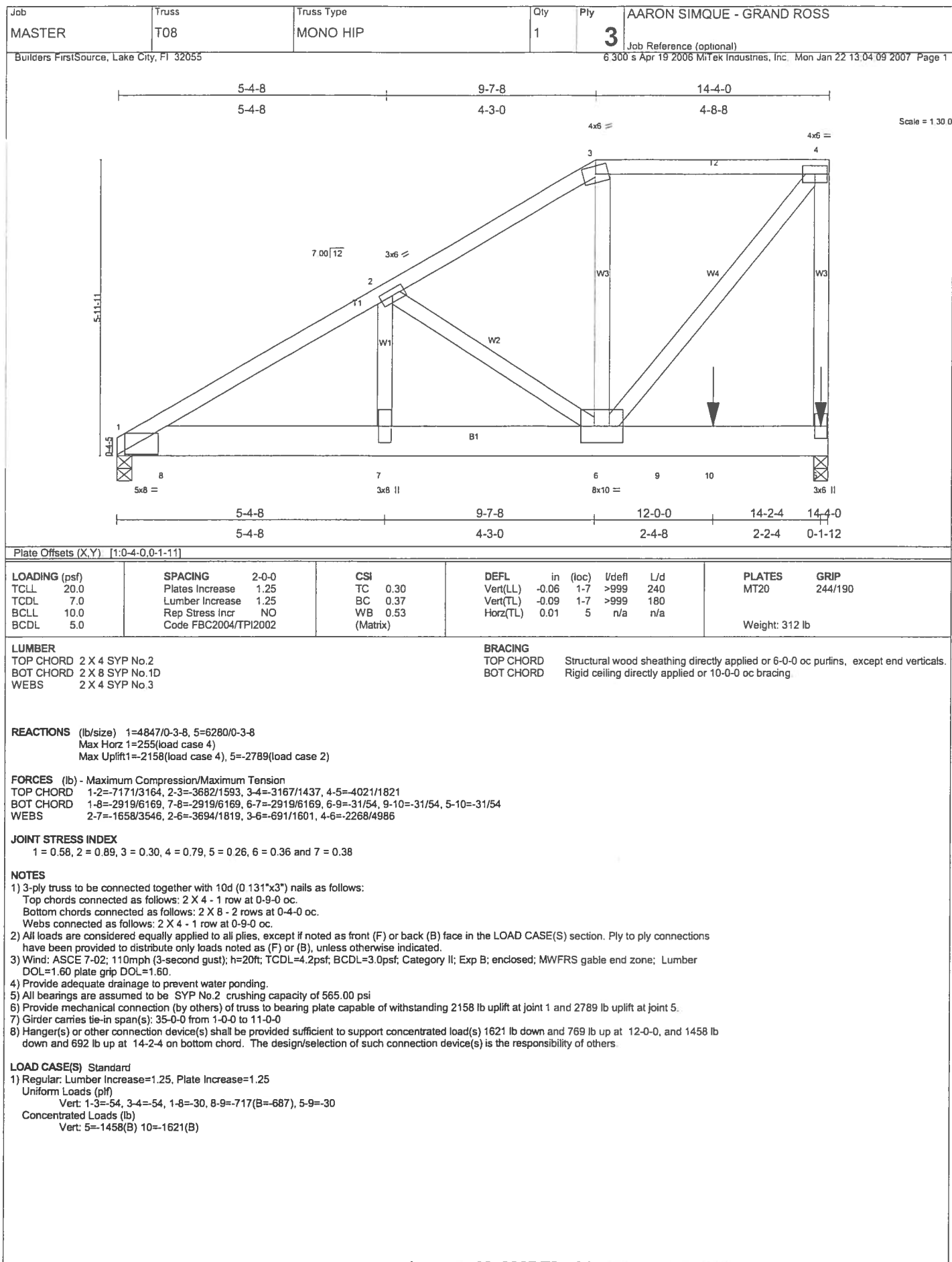
REACTIONS (lb/size) 2=606/0-3-8, 13=1522/0-3-8, 9=531/0-3-8
 Max Horz 2=-189(load case 3)
 Max Uplift 2=450(load case 5), 13=-714(load case 4), 9=-256(load case 6)
 Max Grav 2=628(load case 9), 13=1522(load case 1), 9=559(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/40, 2-3=-750/620, 3-4=-393/407, 4-5=-285/388, 5-6=-105/363, 6-7=-165/145, 7-8=-253/115, 8-9=-622/178, 9-10=0/40
 BOT CHORD 2-16=-495/589, 15-16=-495/589, 14-15=-133/142, 13-14=-133/142, 12-13=-363/324, 11-12=-48/477, 9-11=-48/477
 WEBS 3-16=-163/132, 3-15=-360/329, 4-15=-82/0, 5-15=-398/499, 5-13=-671/493, 6-13=-758/339, 6-12=-213/698, 7-12=-186/142, 8-12=-367/207, 8-11=0/149

JOINT STRESS INDEX
 2 = 0.41, 3 = 0.42, 4 = 0.28, 5 = 0.44, 6 = 0.46, 7 = 0.39, 8 = 0.42, 9 = 0.30, 11 = 0.34, 12 = 0.69, 13 = 0.44, 14 = 0.27, 15 = 0.59 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 Interior(1) 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.
 3) Provide adequate drainage to prevent water ponding.
 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 450 lb uplift at joint 2, 714 lb uplift at joint 13 and 256 lb uplift at joint 9.

LOAD CASE(S) Standard



Job MASTER	Truss T09	Truss Type COMMON	Qty 10	Ply 1	AARON SIMQUE - GRAND ROSS
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:04:11 2007 Page 1		

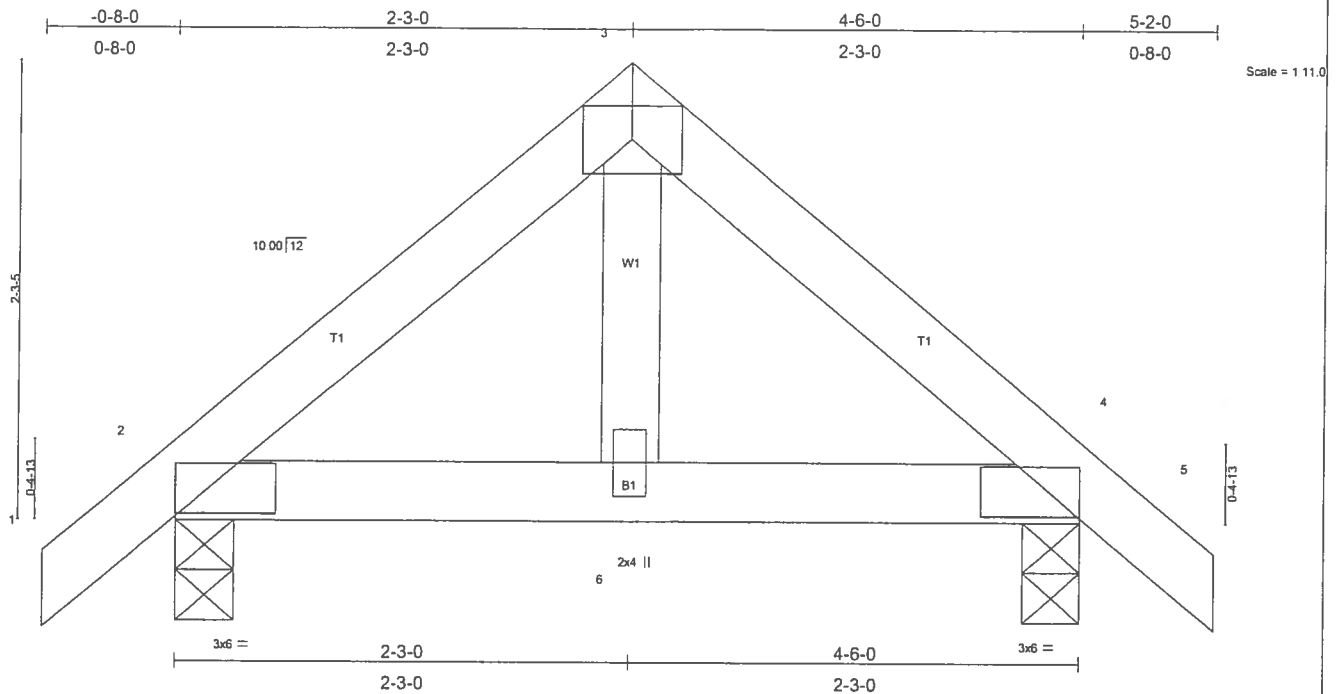


Plate Offsets (X,Y): [2:0-4-1,0-1-8], [4:0-4-1,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.05	Vert(LL) -0.00	6	>999	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.04	Vert(TL) -0.00	6	>999	180			
BCLL 10.0	Rep Stress Incr YES	WB 0.02	Horz(TL) 0.00	4	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
									Weight: 21 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 4-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=221/0-3-8, 4=221/0-3-8
Max Horz 2=70(load case 4)
Max Uplift 2=-103(load case 5), 4=-103(load case 6)

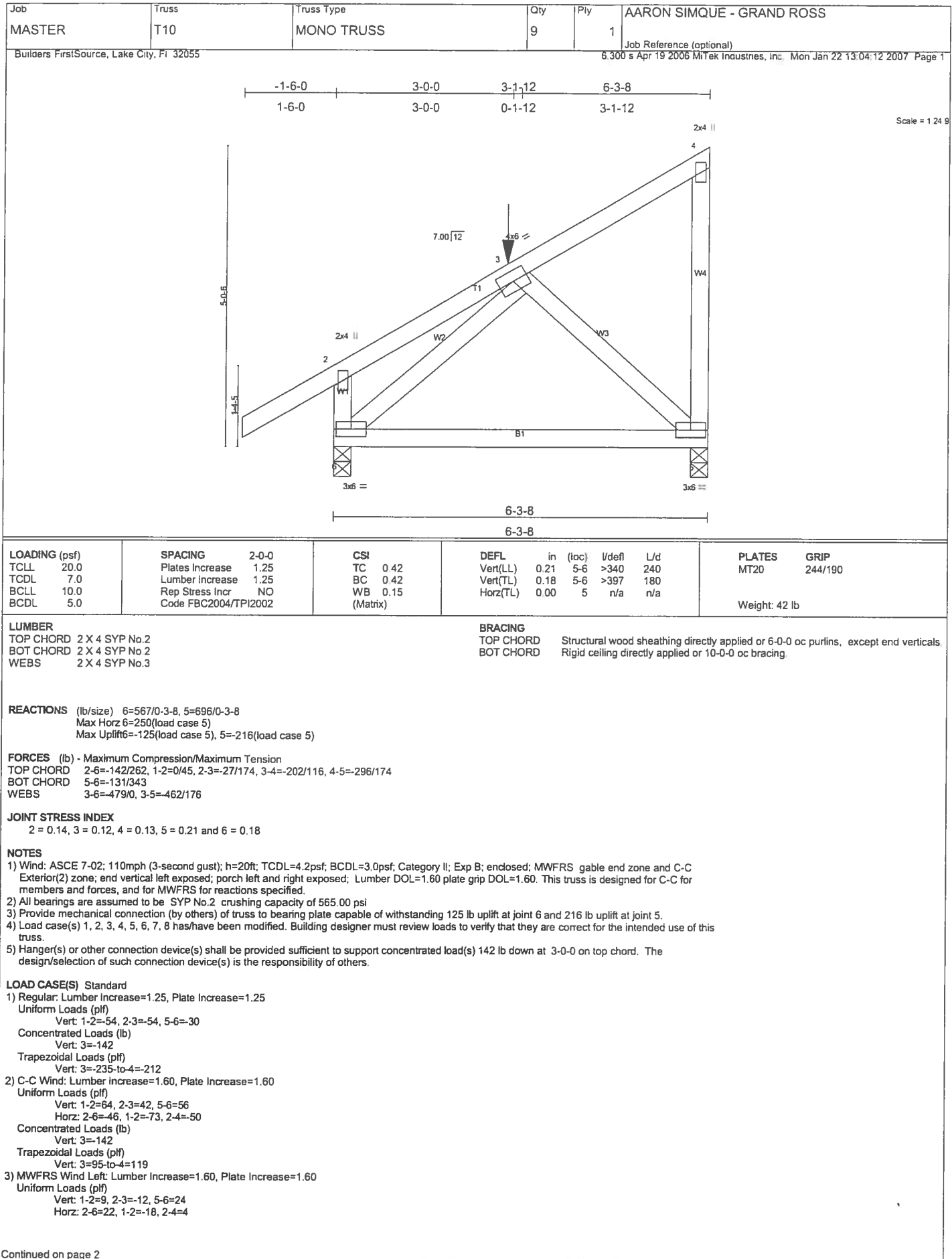
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-171/41, 3-4=-171/40, 4-5=0/23
BOT CHORD 2-6=-6/93, 4-6=-6/93
WEBS 3-6=0/75

JOINT STRESS INDEX
2 = 0.15, 3 = 0.04, 4 = 0.15 and 6 = 0.06

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 Interior(1) 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 103 lb uplift at joint 2 and 103 lb uplift at joint 4.

LOAD CASE(S) Standard



Continued on page 2

JANUARY 22, 2007 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	Truss	Truss Type	Qty	Ply	AARON SIMQUE - GRAND ROSS
MASTER	T10	MONO TRUSS	9	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:04:12 2007 Page 2		

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-142

Trapezoidal Loads (plf)

Vert: 3=-53-to-4=-29

4) MWFRS Wind Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=11, 2-3=18, 5-6=19

Horz: 2-6=-24, 1-2=-20, 2-4=-26

Concentrated Loads (lb)

Vert: 3=-142

Trapezoidal Loads (plf)

Vert: 3=-5-to-4=19

5) MWFRS 1st Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=56, 2-3=38, 5-6=19

Horz: 2-6=-23, 1-2=-65, 2-4=-46

Concentrated Loads (lb)

Vert: 3=-142

Trapezoidal Loads (plf)

Vert: 3=42-to-4=65

6) MWFRS 2nd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=17, 2-3=24, 5-6=19

Horz: 2-6=-23, 1-2=-25, 2-4=-32

Concentrated Loads (lb)

Vert: 3=-142

Trapezoidal Loads (plf)

Vert: 3=9-to-4=33

7) MWFRS 3rd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=36, 2-3=18, 5-6=19

Horz: 2-6=-23, 1-2=-45, 2-4=-26

Concentrated Loads (lb)

Vert: 3=-142

Trapezoidal Loads (plf)

Vert: 3=-5-to-4=19

8) MWFRS 4th Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-3=12, 5-6=19

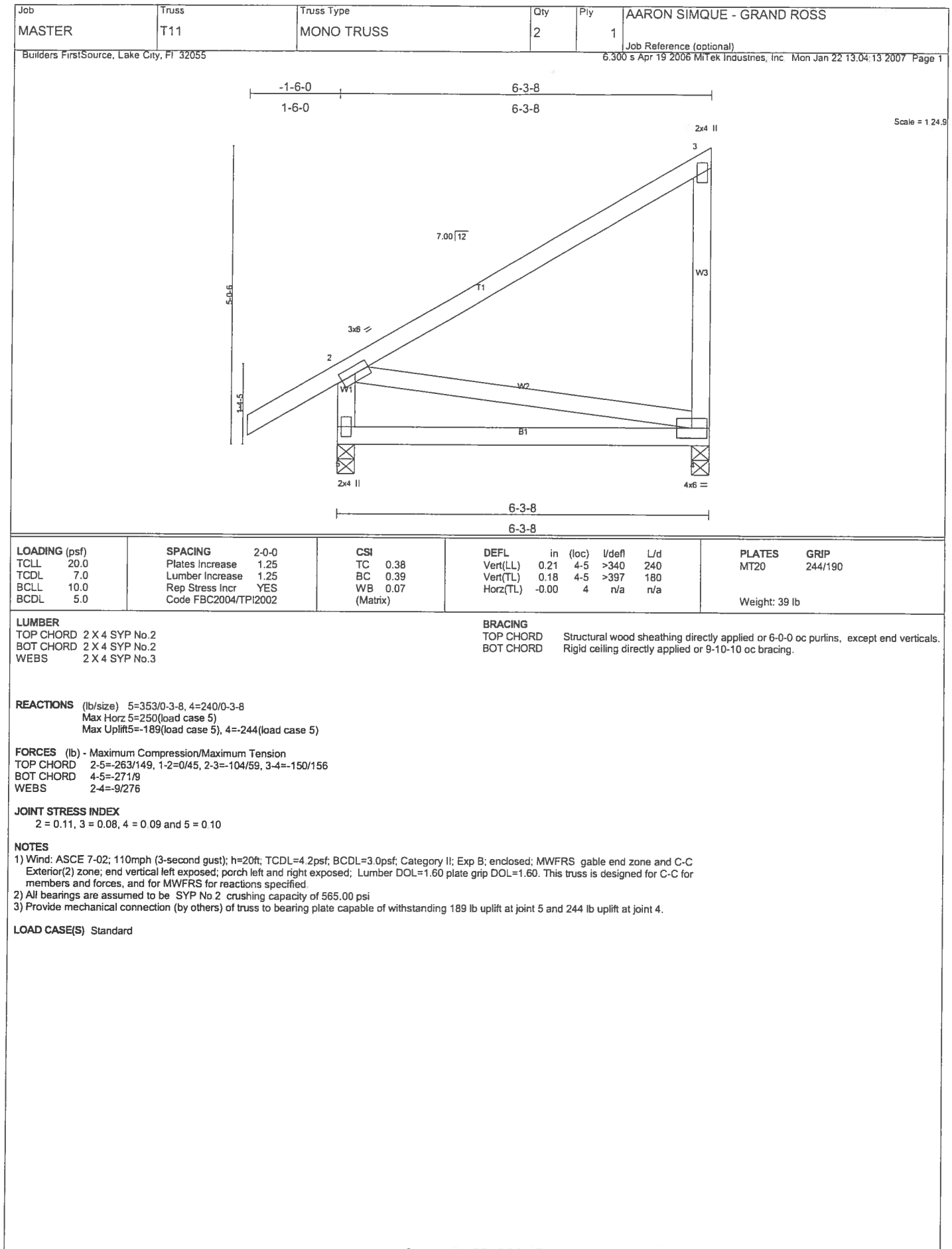
Horz: 2-6=-23, 1-2=-14, 2-4=-20

Concentrated Loads (lb)

Vert: 3=-142

Trapezoidal Loads (plf)

Vert: 3=-14-to-4=10



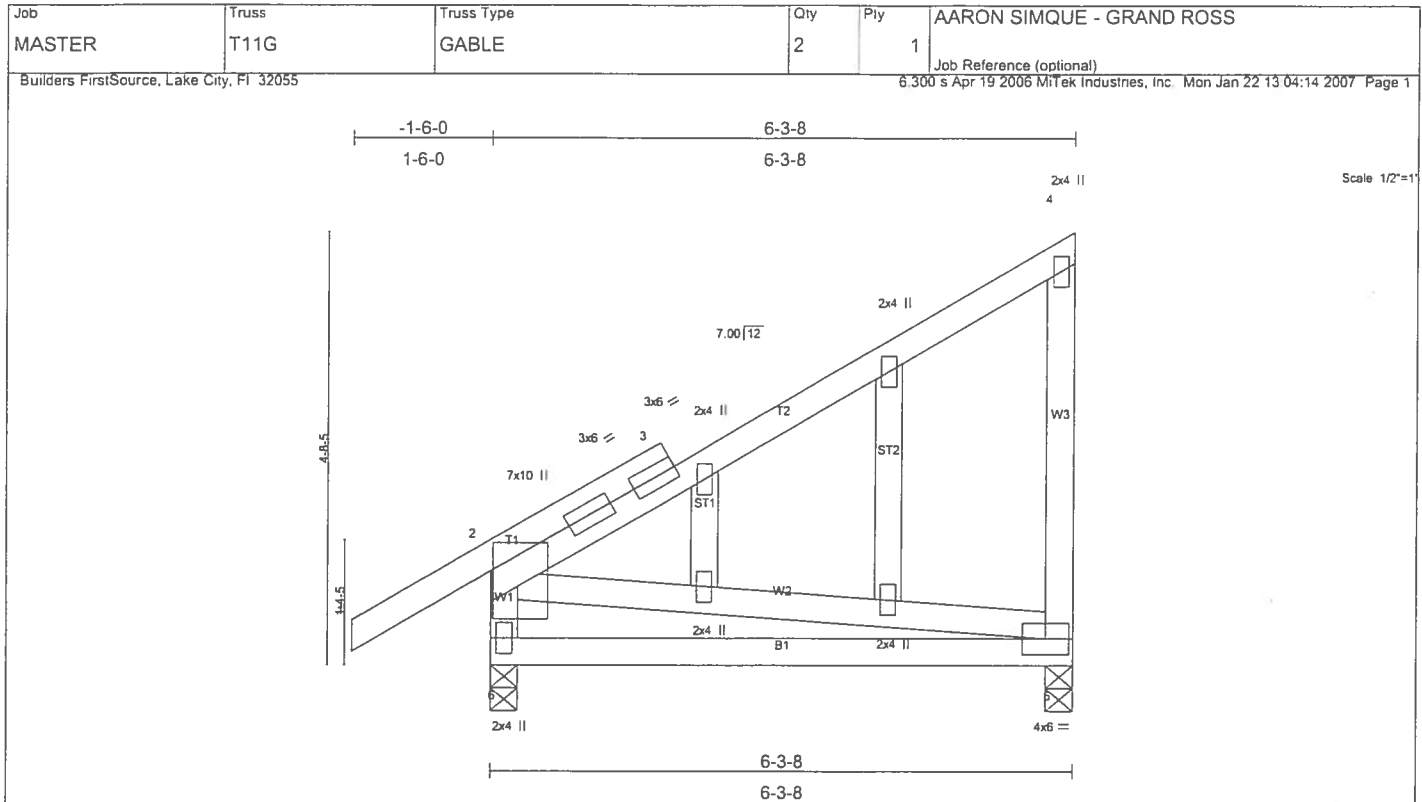


Plate Offsets (X,Y): [2.0-5-11.0-3-2]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.52	Vert(LL)	0.21	5-6	>340	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.43	Vert(TL)	0.18	5-6	>397	180		
BCLL 10.0	Rep Stress Incr	NO	WB 0.06	Horz(TL)	-0.00	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 47 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 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 6=402/0-3-8, 5=268/0-3-8
 Max Horz 6=227(load case 5)
 Max Uplift 6=-235(load case 5), 5=-250(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-6=-312/220, 1-2=-2/46, 2-3=-93/7, 3-4=-92/70, 4-5=-178/185
 BOT CHORD 5-6=-246/10
 WEBS 2-5=-10/249

JOINT STRESS INDEX
 2 = 0.32, 3 = 0.00, 3 = 0.32, 3 = 0.33, 4 = 0.10, 5 = 0.08, 6 = 0.13, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES

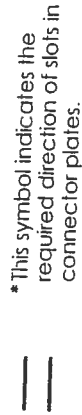
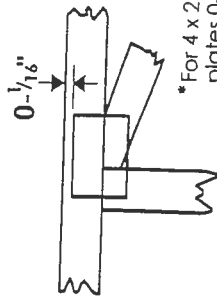
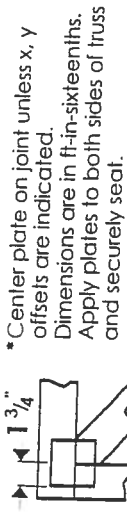
- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) 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"
- 3) Gable studs spaced at 2-0-0 oc.
- 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 235 lb uplift at joint 6 and 250 lb uplift at joint 5.
- 6) 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=-64(F=-10), 2-4=-64(F=-10), 5-6=-30

Symbols

PLATE LOCATION AND ORIENTATION



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

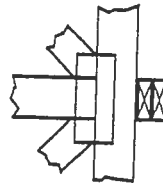
PLATE SIZE

4 x 4
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



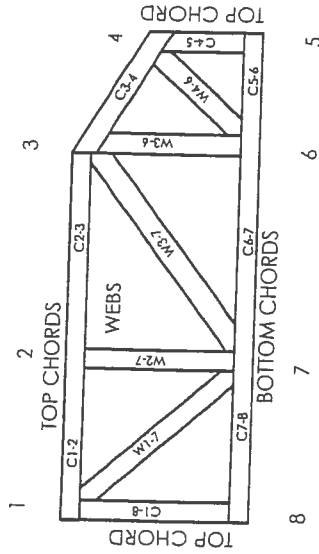
BEARING



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

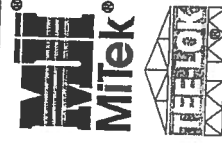


JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

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.