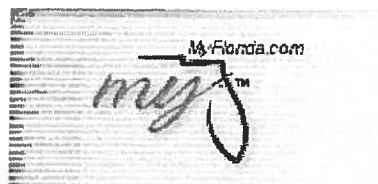


Project Information for:		L200089					
Builder:		RICHARD KEEN		Date:	6/28/2006		
Lot:		LOT 75		Start Number:	1003		
Subdivision:		EMERALD LAKES		SEI Ref:	L200089		
County or City:		COLUMBIA COUNTY					
Truss Page Count:		35					
Truss Design Load Information (UNO)			Design Program: MiTek 5.2 / 6.2				
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)							
Address:		JOHNSTON,JAMES H III RC0067161 650 SOUTHWEST MAIN BOULEVARD LAKE CITY, FL 32024		Designer:	68		
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	CJ1	0628061003	6/28/2006				
2	CJ3	0628061004	6/28/2006				
3	CJ5	0628061005	6/28/2006				
4	EJ5	0628061006	6/28/2006				
5	EJ7	0628061007	6/28/2006				
6	EJ7A	0628061008	6/28/2006				
7	HJ7	0628061009	6/28/2006				
8	HJ9	0628061010	6/28/2006				
9	T01	0628061011	6/28/2006				
10	T02	0628061012	6/28/2006				
11	T03	0628061013	6/28/2006				
12	T04	0628061014	6/28/2006				
13	T05	0628061015	6/28/2006				
14	T06	0628061016	6/28/2006				
15	T07	0628061017	6/28/2006				
16	T08	0628061018	6/28/2006				
17	T09	0628061019	6/28/2006				
18	T10	0628061020	6/28/2006				
19	T11	0628061021	6/28/2006				
20	T12	0628061022	6/28/2006				
21	T13	0628061023	6/28/2006				
22	T14	0628061024	6/28/2006				
23	T15	0628061025	6/28/2006				
24	T16	0628061026	6/28/2006				
25	T17	0628061027	6/28/2006				
26	T18	0628061028	6/28/2006				
27	T19	0628061029	6/28/2006				
28	T20	0628061030	6/28/2006				
29	T21	0628061031	6/28/2006				
30	T22	0628061032	6/28/2006				
31	T23	0628061033	6/28/2006				
32	T24	0628061034	6/28/2006				
33	T25	0628061035	6/28/2006				
34	T26	0628061036	6/28/2006				
35	T27	0628061037	6/28/2006				

JUN 28 2006


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4:25:30 PM

Licensee Details

Licensee Information

Name: **JOHNSTON, JAMES H III (Primary Name)**
INDIVIDUAL (DBA Name)
Main Address: **650 SOUTHWEST MAIN BOULEVARD**
LAKE CITY Florida 32024
County: **COLUMBIA**

License Mailing:

License Location: **RT #15 BOX 3693**
LAKE CITY FL 32024
County: **COLUMBIA**

License Information

License Type: **Registered Roofing Contractor**
Rank: **Reg Roofing**
License Number: **RC0067161**
Status: **Current,Inactive**
Licensure Date: **08/27/1998**
Expires: **08/31/2005**

Special Qualifications

Bldg Code Core
Course Credit

No Qualified

Business License **02/20/2004**
Required

Qualification Effective

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Job L200089	Truss CJ1	Truss Type ROOF TRUSS	Qty 14	Ply 1	RICHARD J KEEN - EMERALD LAKES
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 27 09:03:53 2006 Page 1		

Scale = 1/2" = 1'-0"

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2'-0"	TC 0.28	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.01	Vert(LL) -0.00 2 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.00 2 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 3 n/a n/a		
	Code FBC2004/TPI2002			Weight: 7 lb	

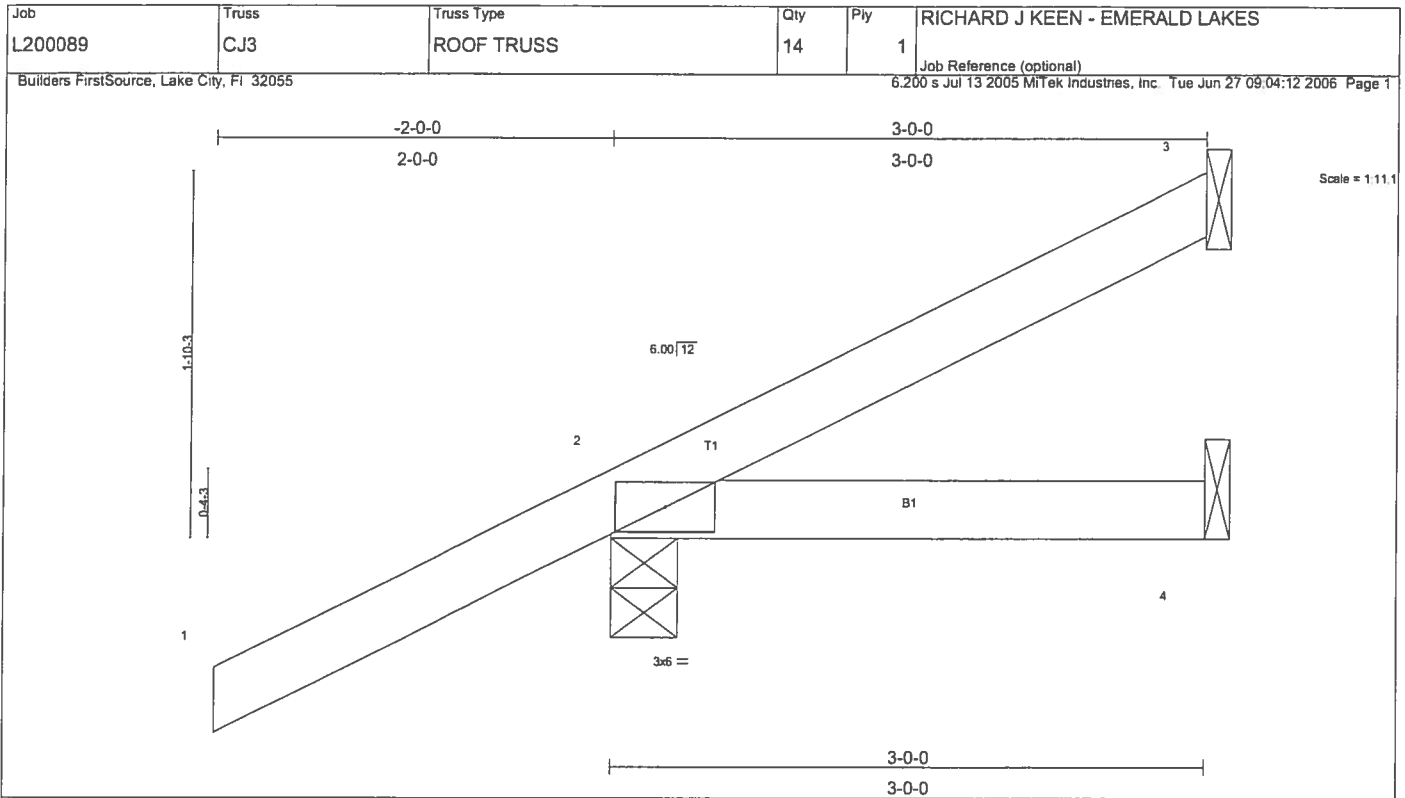
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 1'-0" oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS (lb/size) 2=267/0-4-0, 4=14/Mechanical, 3=-91/Mechanical
 Max Horz 2=87(load case 5)
 Max Uplift 2=287(load case 5), 4=9(load case 3), 3=-91(load case 1)
 Max Grav 2=267(load case 1), 4=14(load case 1), 3=128(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=-69/76
 BOT CHORD 2-4=0/0

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; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 2, 9 lb uplift at joint 4 and 91 lb uplift at joint 3.

LOAD CASE(S) Standard



LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.08	Vert(TL)	0.01	2-4	>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/TPI2002								
								Weight: 13 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 3-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

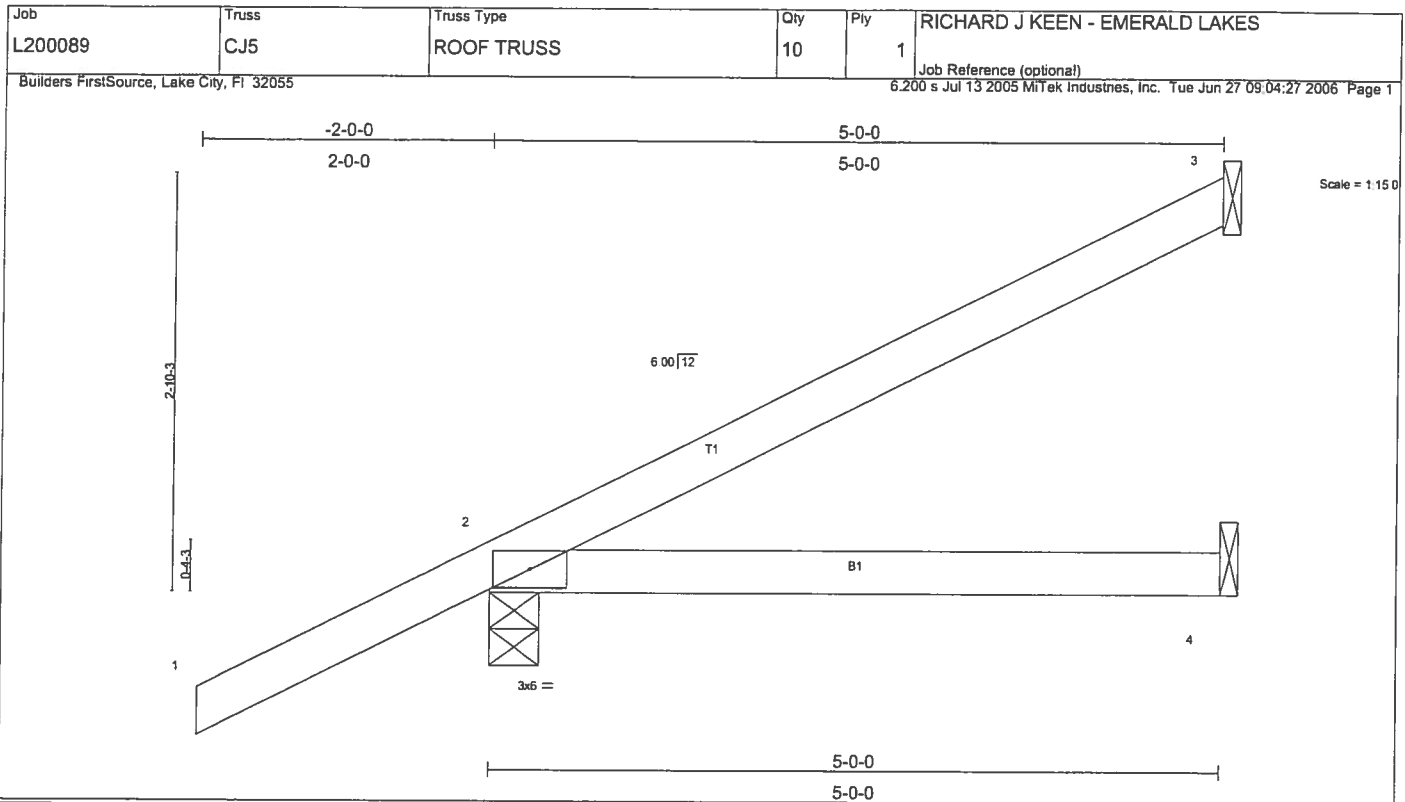
REACTIONS (lb/size) 3=29/Mechanical, 2=279/0-4-0, 4=42/Mechanical
 Max Horz 2=132(load case 5)
 Max Uplift 3=27(load case 6), 2=240(load case 5), 4=26(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=58/7
 BOT CHORD 2-4=0/0

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 240 lb uplift at joint 2 and 26 lb uplift at joint 4.

LOAD CASE(S) Standard



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	in (loc)	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.24	Vert(LL) 0.09 2-4 >671 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) 0.07 2-4 >784 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TP12002			Weight: 19 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 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

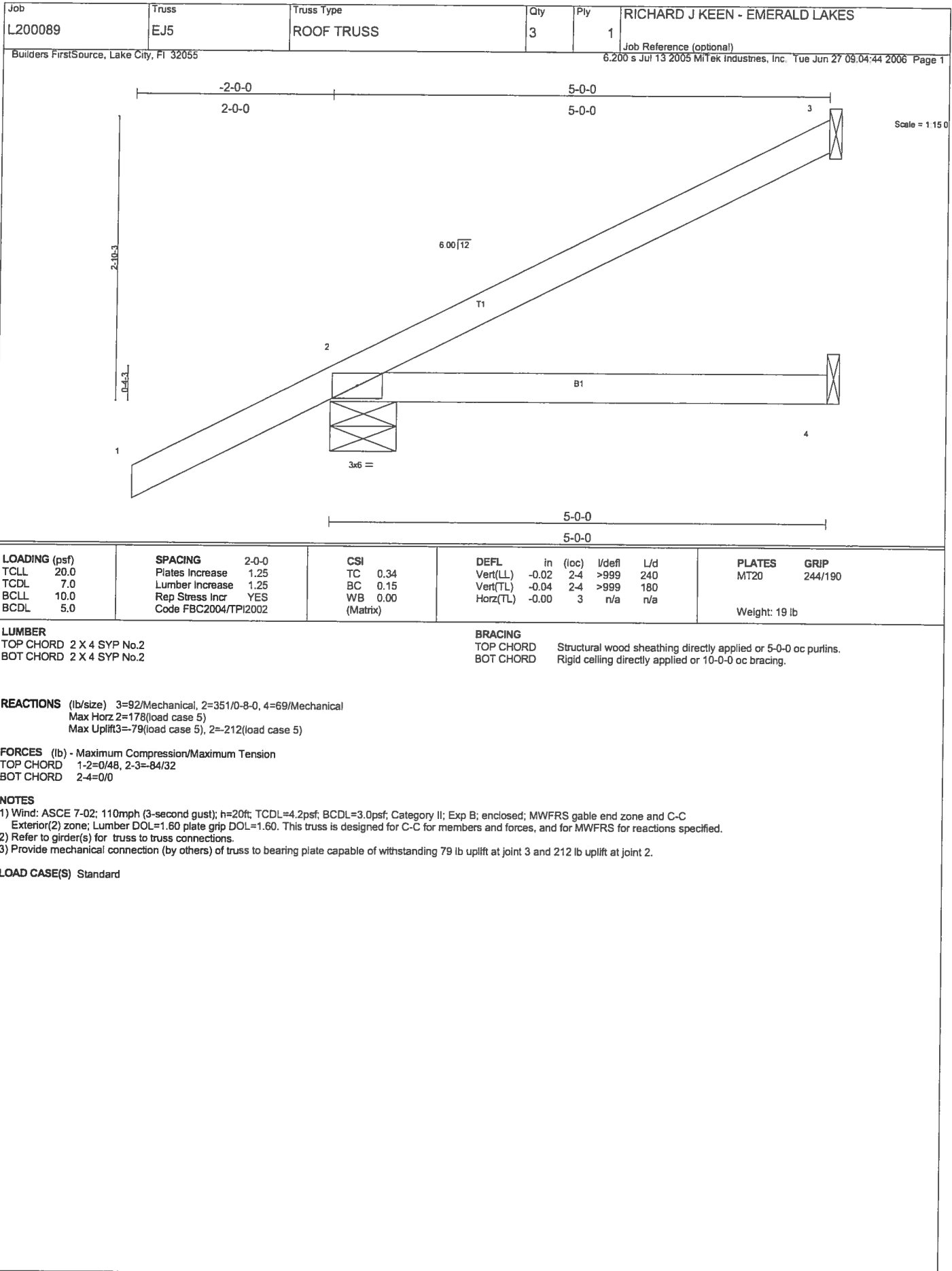
REACTIONS (lb/size) 3=102/Mechanical, 2=344/0-4-0, 4=72/Mechanical
Max Horz 2=178(load case 5)
Max Uplift 3=86(load case 5), 2=-261(load case 5), 4=-46(load case 3)

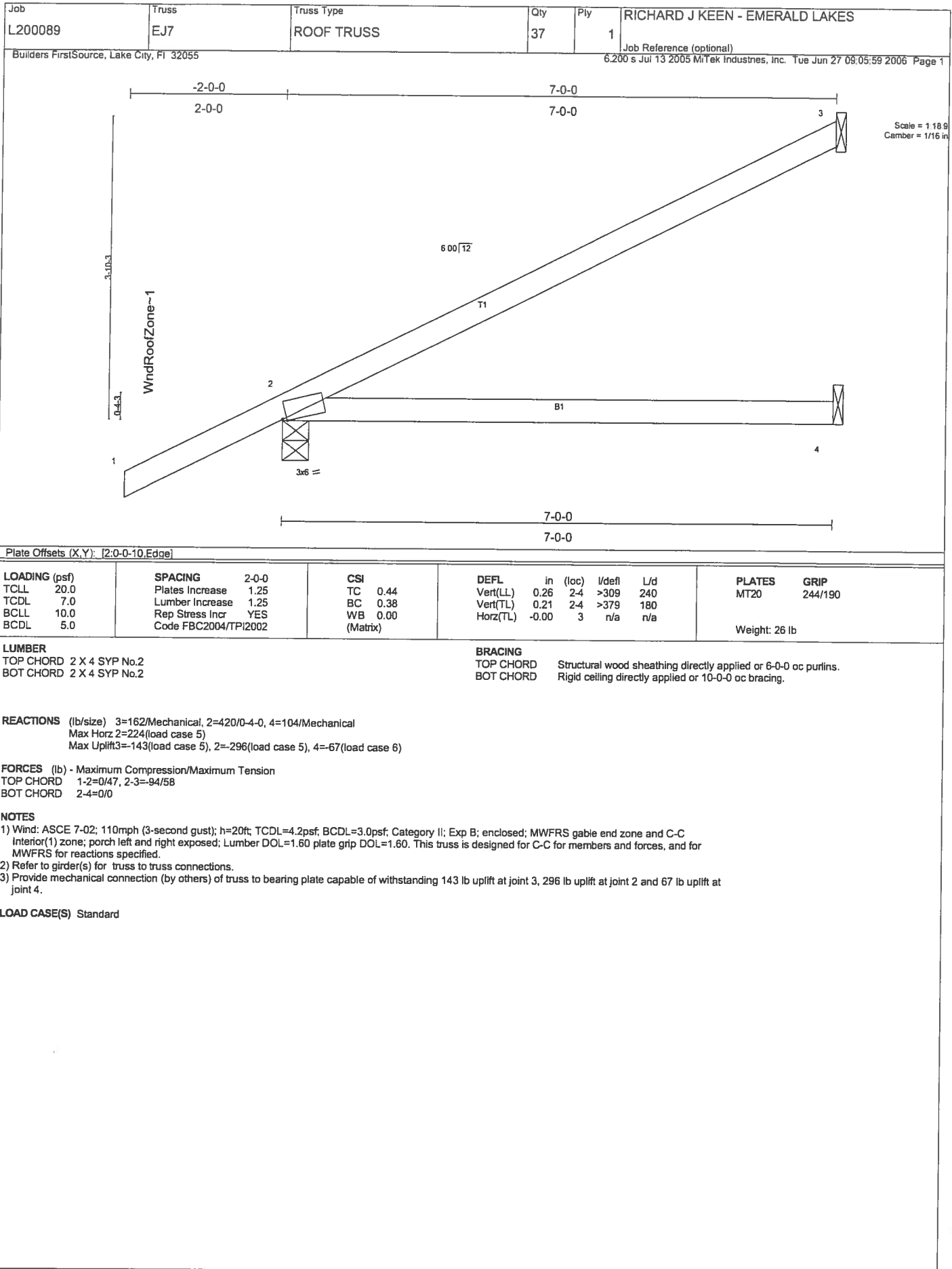
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-87/36
BOT CHORD 2-4=0/0

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3, 261 lb uplift at joint 2 and 46 lb uplift at joint 4.

LOAD CASE(S) Standard





Job L200089	Truss EJ7A	Truss Type ROOF TRUSS	Qty 4	Ply 1	RICHARD J KEEN - EMERALD LAKES
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 27 09:07:53 2006 Page 1		

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) -0.09 2-5 >869 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.29	Vert(TL) -0.15 2-5 >517 180		
BCLL 10.0	Rep Stress Incr YES	WB 0.05	Horz(TL) 0.00 n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)			
				Weight: 30 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=417/0-8-0, 5=248/Mechanical
 Max Horz 2=223(load case 5)
 Max Uplift 2=216(load case 5), 5=125(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/48, 2-3=-114/54, 3-4=-2/0
 BOT CHORD 2-5=0/0
 WEBS 3-5=-153/187

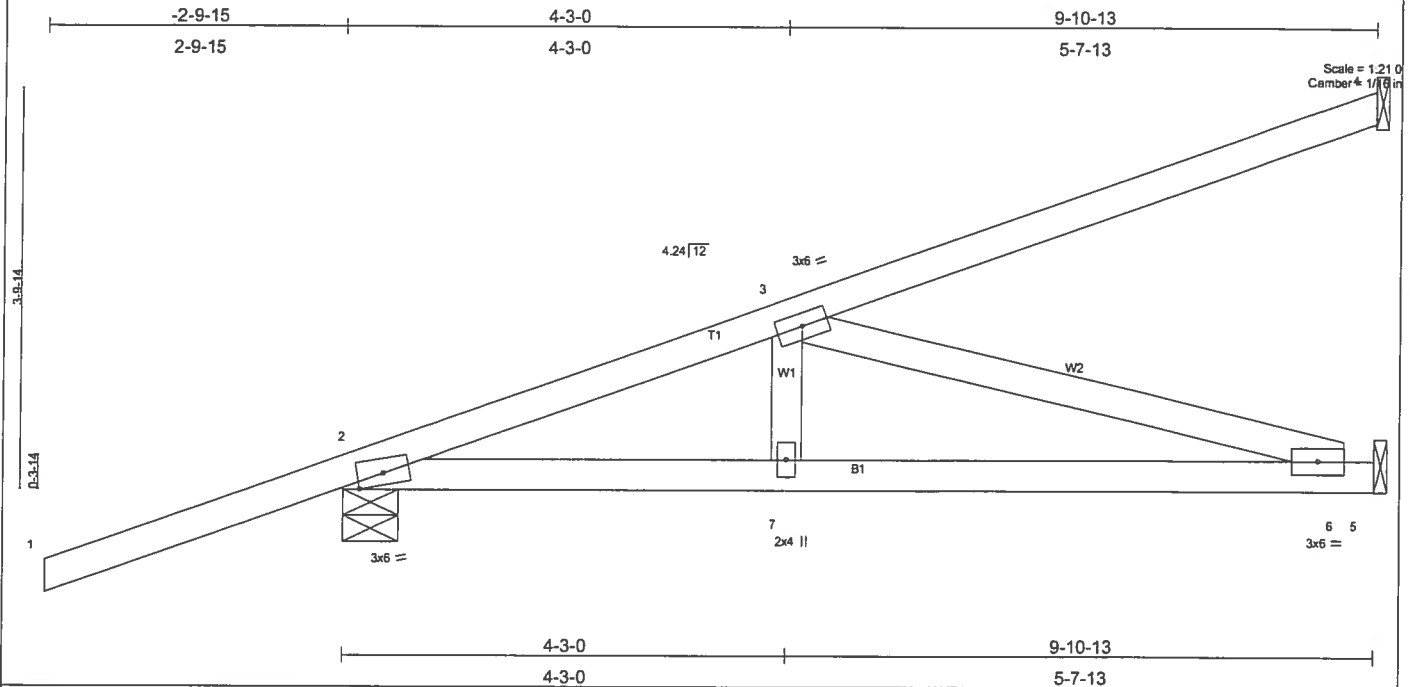
NOTES
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 2) Refer to girder(s) for truss to truss connections.
 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2 and 125 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RICHARD J KEEN - EMERALD LAKES
L200089	HJ9	ROOF TRUSS	5	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 27 09:10:11 2006 Page 1



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl l/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.61	Vert(LL) -0.10 6-7 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.57	Vert(TL) -0.17 6-7 >686 180		
BCLL 10.0	Rep Stress Incr NO	WB 0.45	Horz(TL) 0.01 5 n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)		Weight: 45 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 7-11-15 oc bracing.

REACTIONS

(lb/size) 4=269/Mechanical, 2=537/0-6-7, 5=373/Mechanical
Max Horz 2=269(load case 2)
Max Uplift 4=233(load case 2), 2=404(load case 2), 5=180(load case 2)

FORCES

(1b) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/50, 2-3=-874/355, 3-4=-105/66
BOT CHORD 2-7=-528/808, 6-7=-528/808, 5-6=0/0
WEBS 3-7=-88/177, 3-6=-840/549

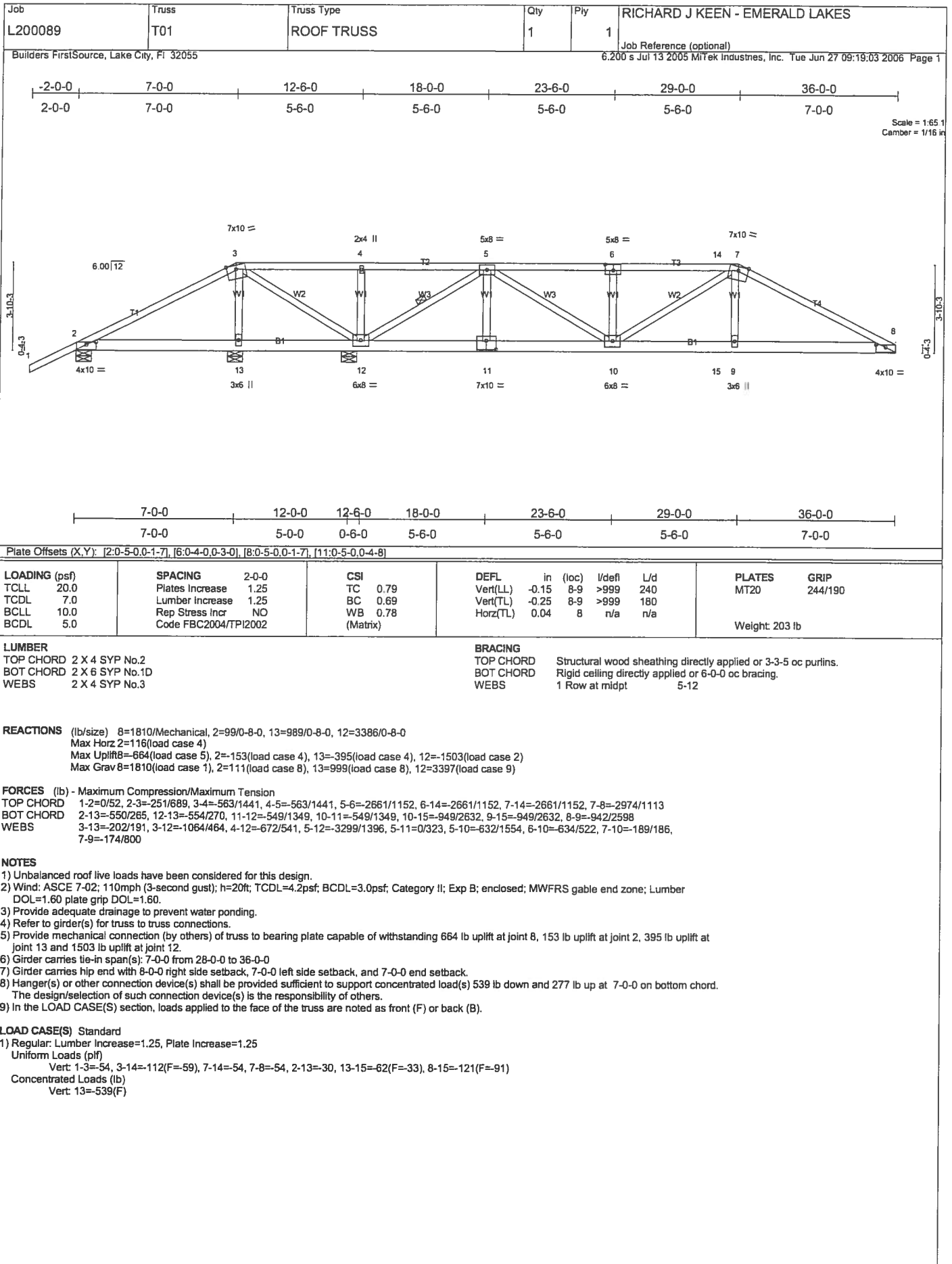
NOTES

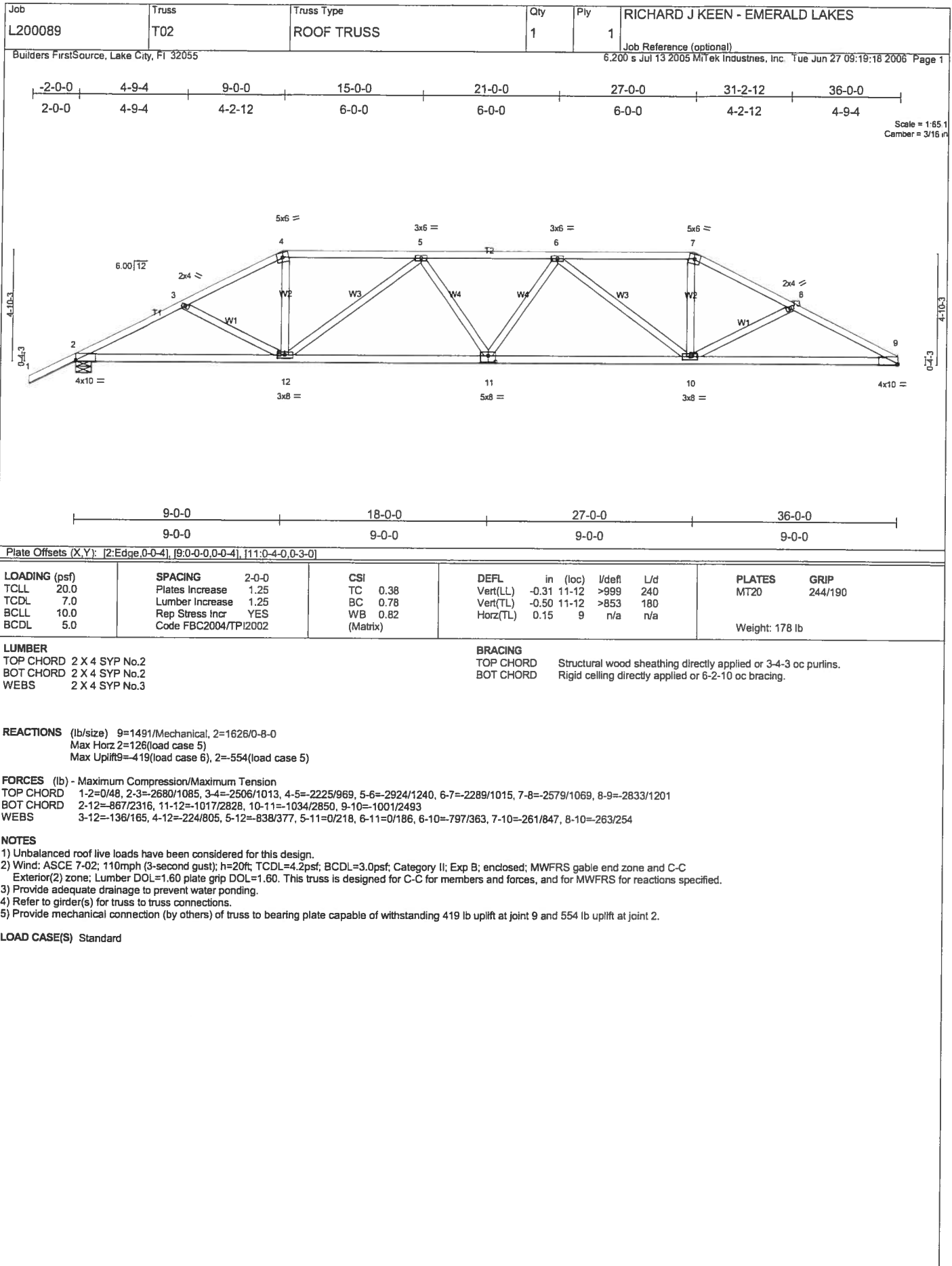
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 4, 404 lb uplift at joint 2 and 180 lb uplift at joint 5.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

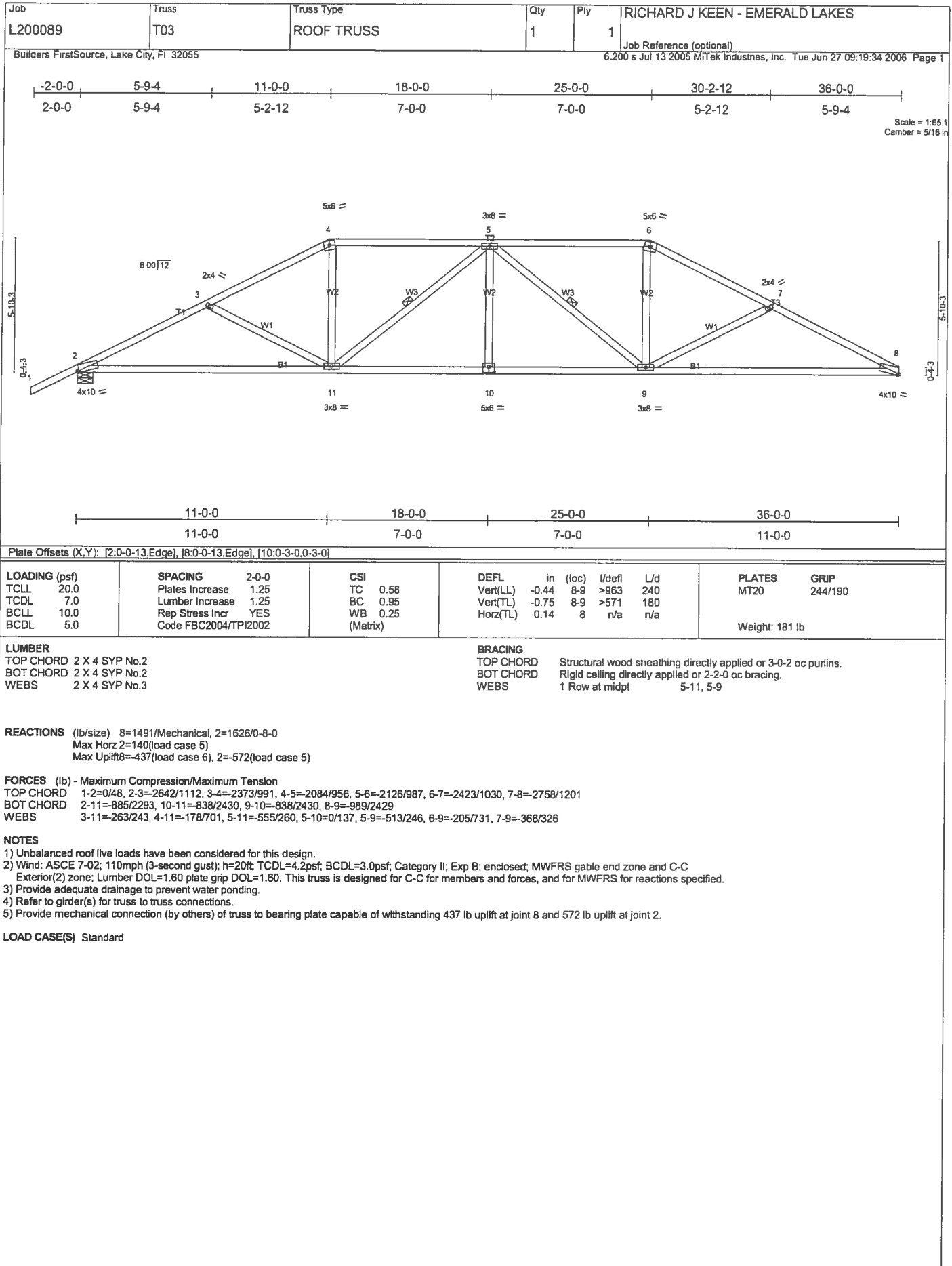
LOAD CASE(S) Standard

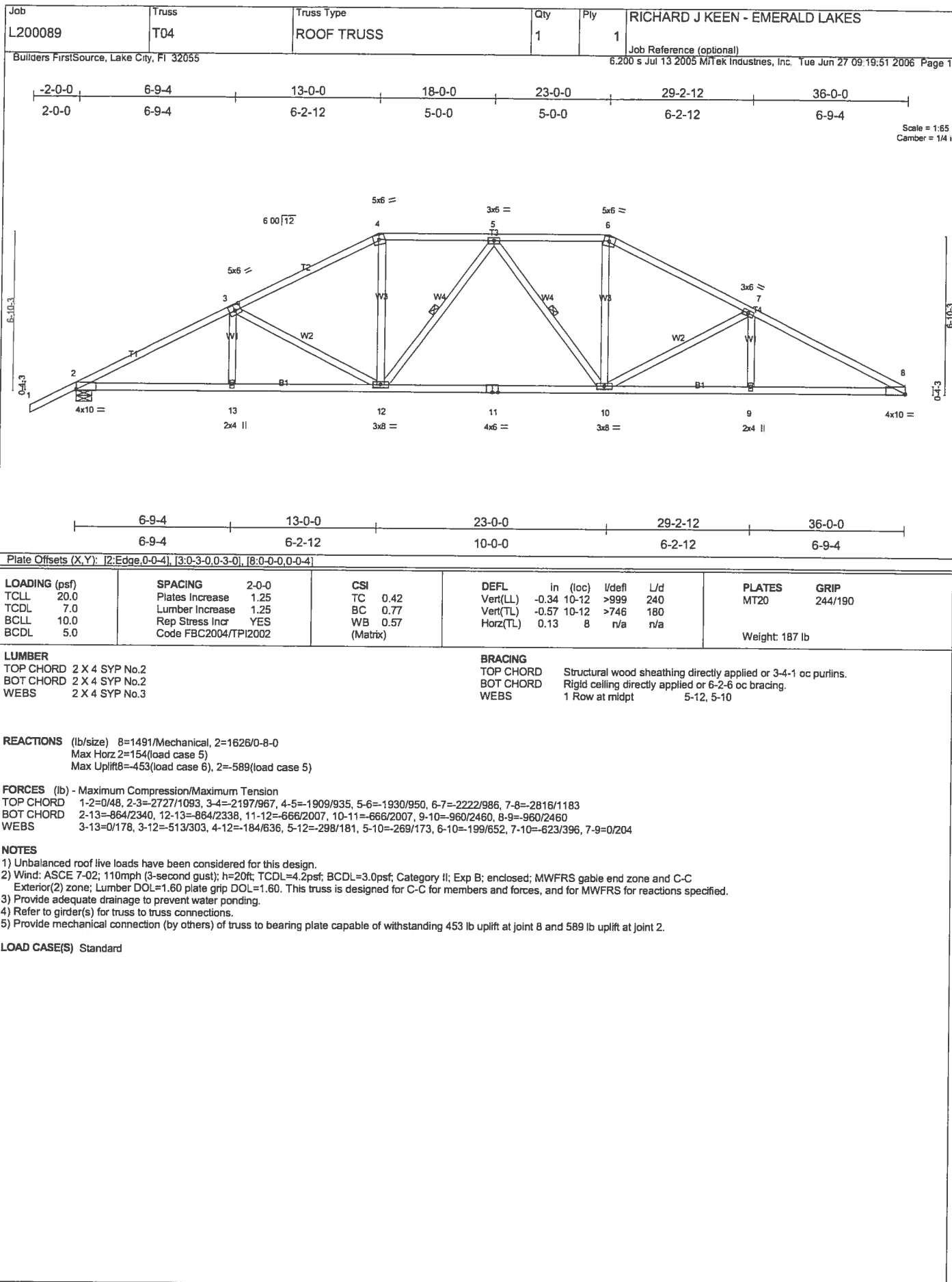
- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-4(F=25, B=25) to 4=-134(F=40, B=40), 2=0(F=15, B=15) to -5=-74(F=22, B=22)

JUNE 28, 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 L200089	Truss T05	Truss Type ROOF TRUSS	Qty 1	Ply 1	RICHARD J KEEN - EMERALD LAKES
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 27 09:20:09 2006 Page 1		

-2-0-0	7-9-4	15-0-0	21-0-0	28-2-12	36-0-0	38-0-0
2-0-0	7-9-4	7-2-12	6-0-0	7-2-12	7-9-4	2-0-0

Scale = 1/67.0
Camber = 1/8 in

7-9-4	15-0-0	21-0-0	28-2-12	36-0-0
7-9-4	7-2-12	6-0-0	7-2-12	7-9-4

Plate Offsets (X,Y): [2:0-3-5,0-0-11], [3:0-3-0,0-3-0], [6:0-3-0,0-3-0], [7:0-3-5,0-0-11]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	In (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.59	Vert(LL) -0.20 12-13 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.23	Vert(TL) -0.33 12-13 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.13 7 n/a n/a		
	Code FBC2004/TPI2002			Weight: 189 lb	

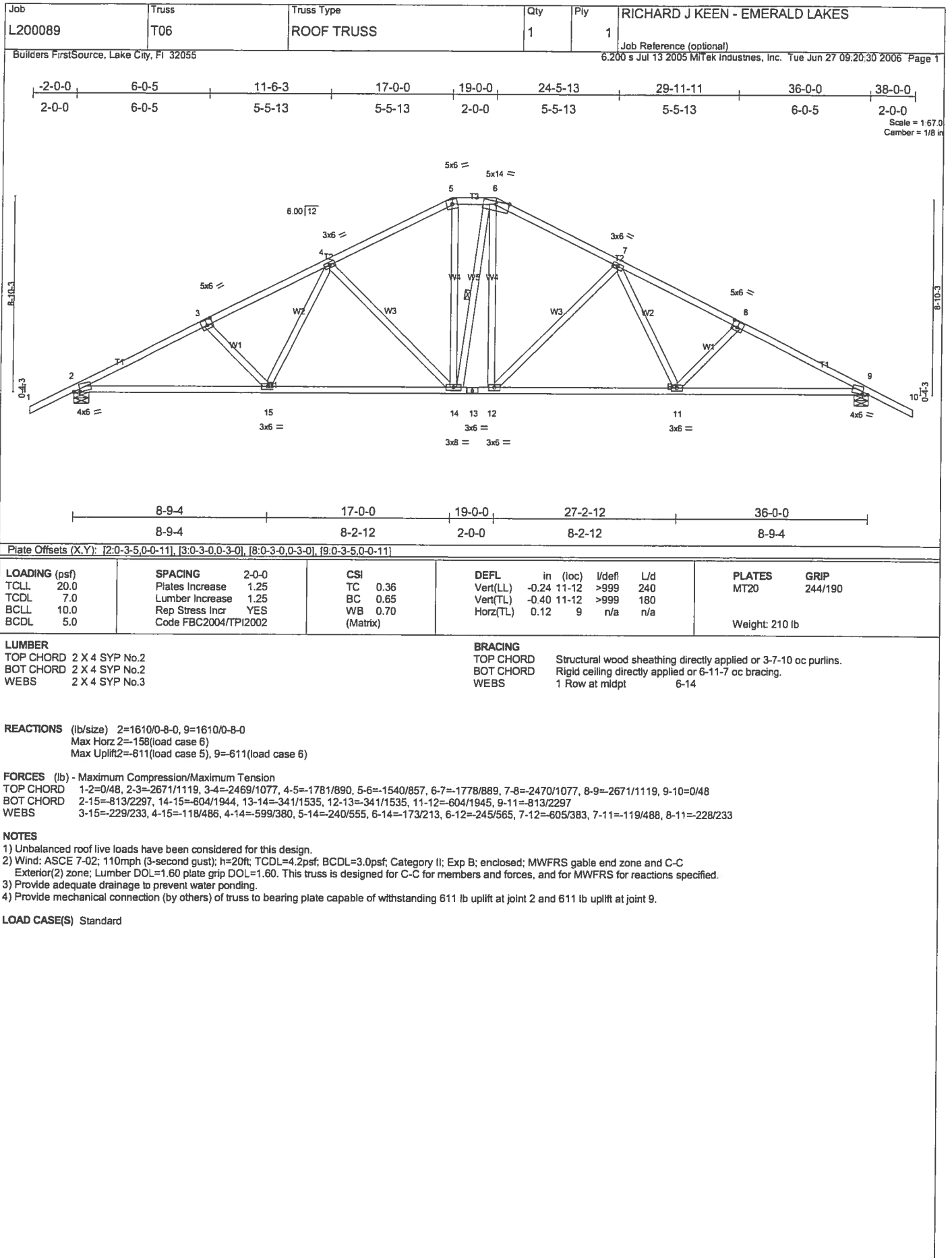
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 7-3-0 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 3-12, 4-10, 6-10

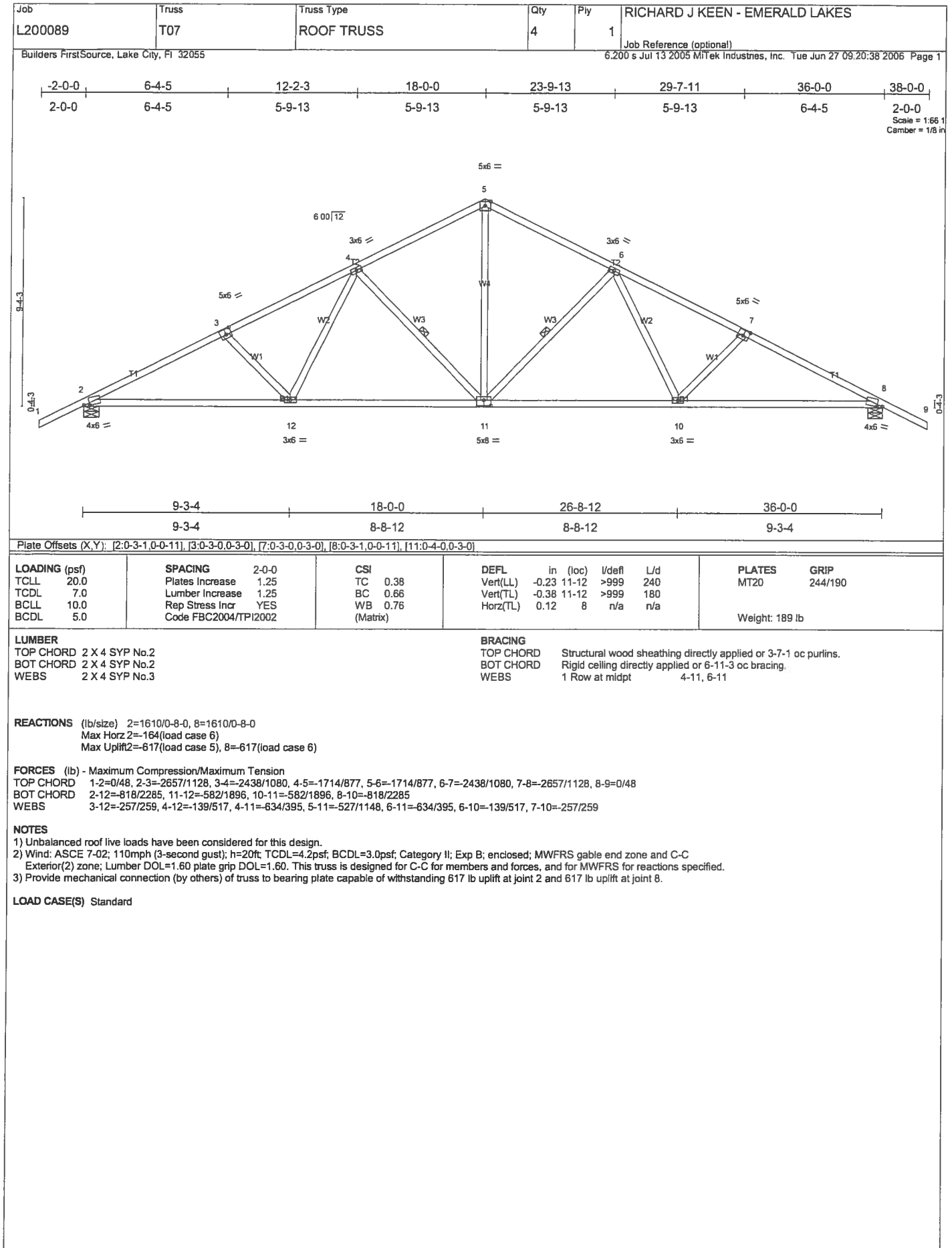
REACTIONS (lb/size) 2=1610/0-8-0, 7=1610/0-8-0
 Max Horz 2=-143(load case 6)
 Max Uplift 2=-599(load case 5), 7=-599(load case 6)

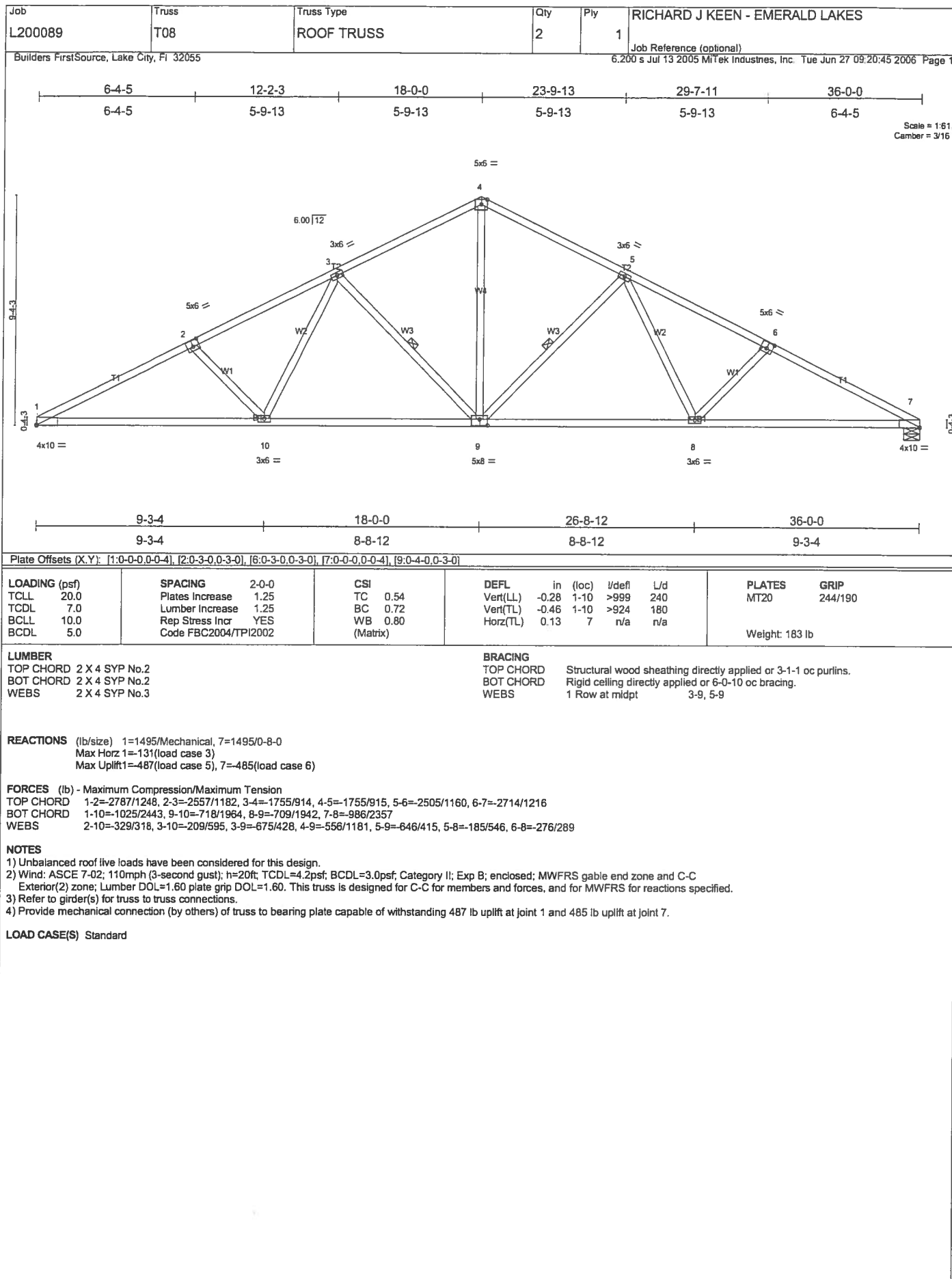
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/48, 2-3=-2672/1076, 3-4=-1989/912, 4-5=-1707/892, 5-6=-1990/912, 6-7=-2672/1076, 7-8=0/48
 BOT CHORD 2-13=-759/2287, 12-13=-760/2282, 11-12=-429/1706, 10-11=-429/1706, 9-10=-760/2281, 7-9=-759/2286
 WEBS 3-13=0/251, 3-12=-669/380, 4-12=-145/506, 4-10=-172/174, 5-10=-145/506, 6-10=-668/380, 6-9=0/251

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 599 lb uplift at joint 2 and 599 lb uplift at joint 7.

LOAD CASE(S) Standard







Job L200089	Truss T09	Truss Type ROOF TRUSS	Qty 1	Ply 1	RICHARD J KEEN - EMERALD LAKES
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 27 09:24:05 2006 Page 1		

Scale = 1:40
Camber = 1/8 in

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.97	Vert(LL)	-0.21 8-9	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.85	Vert(TL)	-0.34 8-9	>812	180	MT20H	187/143
BCLL 10.0	Rep Stress Incr	NO	WB 0.72	Horz(TL)	0.10 6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 124 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2 "Except"	BOT CHORD Rigid ceiling directly applied or 5-4-13 oc bracing.
B1 2 X 4 SYP No.1D	WEBS 1 Row at midpt 2-10, 4-6
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 10=2009/Mechanical, 6=2009/0-4-0
Max Uplift 10=902(load case 2), 6=902(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-319/245, 1-2=-144/43, 2-3=-2944/1255, 3-4=-2945/1255, 4-5=-146/42, 5-6=-319/244
BOT CHORD 9-10=-1179/2521, 8-9=-1519/3277, 7-8=-1179/2522, 6-7=-1179/2522
WEBS 2-10=-2786/1331, 2-9=-162/900, 3-9=-459/363, 3-8=-457/364, 4-8=-162/900, 4-6=-2786/1332

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; Lumber DOL=1.60 plate grip DOL=1.60.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 902 lb uplift at joint 10 and 902 lb uplift at joint 6.
6) Girder carries hip end with 0-0-0 right side setback, 0-0-0 left side setback, and 7-0-0 end setback.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-113(F=-58), 6-10=-62(F=-33)

Job L200089	Truss T10	Truss Type ROOF TRUSS	Qty 1	Ply 1	RICHARD J KEEN - EMERALD LAKES
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 27 09:24:41 2006 Page 1		

7-9-9 15-5-7 23-3-0

7-9-9 7-7-13 7-9-9

Scale = 1/40 1

Camber = 1/16 in

Plate Offsets (X,Y): [3.0-4.0-0.3-0]									
LOADING (psf)	SPACING 2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.91	Vert(LL)	-0.10	6-8	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.39	Vert(TL)	-0.17	6-8	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.68	Horz(TL)	0.03	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
Weight: 132 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 5-4-12 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-3-0 oc bracing.

WEBS 1 Row at midpt 3-8, 3-5

REACTIONS (lb/size) 9=964/Mechanical, 5=964/0-4-0
Max Uplift 9=364(load case 3), 5=364(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-9=-850/393, 1-2=-1170/457, 2-3=-1170/457, 3-4=-70/27, 4-5=-195/137

BOT CHORD 8-9=-28/70, 7-8=-458/1171, 6-7=-458/1171, 5-6=-458/1171

WEBS 1-8=-500/1280, 2-8=-424/308, 3-8=-1/1, 3-6=0/231, 3-5=-1281/501

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; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 364 lb uplift at joint 9 and 364 lb uplift at joint 5.

LOAD CASE(S) Standard

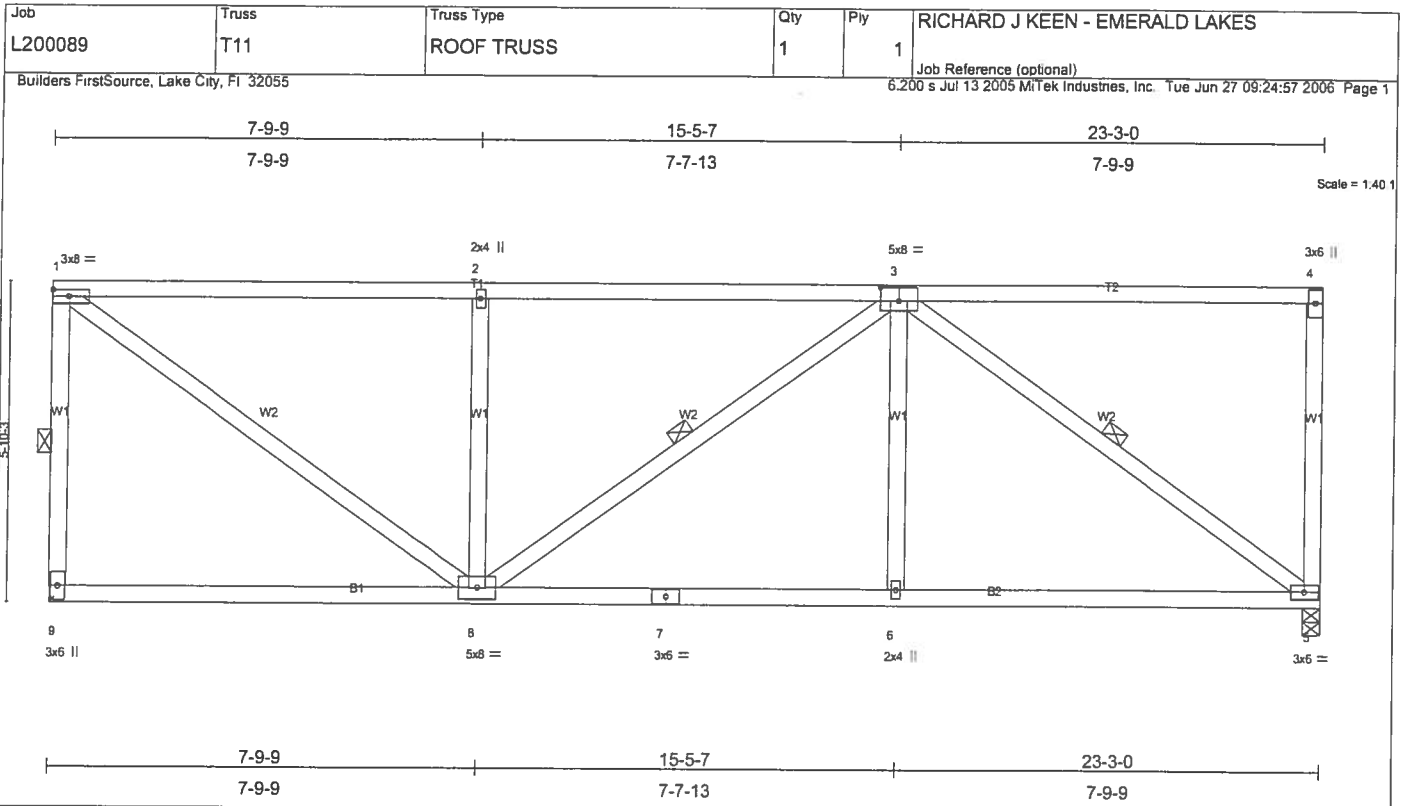


Plate Offsets (X,Y): [3.0-4.0,0.3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.66	Vert(LL)	-0.08	6-8	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.36	Vert(TL)	-0.14	6-8	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.68	Horz(TL)	0.02	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 141 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 5-11-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 1-9, 3-8, 3-5

REACTIONS (lb/size) 9=964/Mechanical, 5=964/0-4-0
 Max Uplift=364(load case 3), 5=364(load case 3)

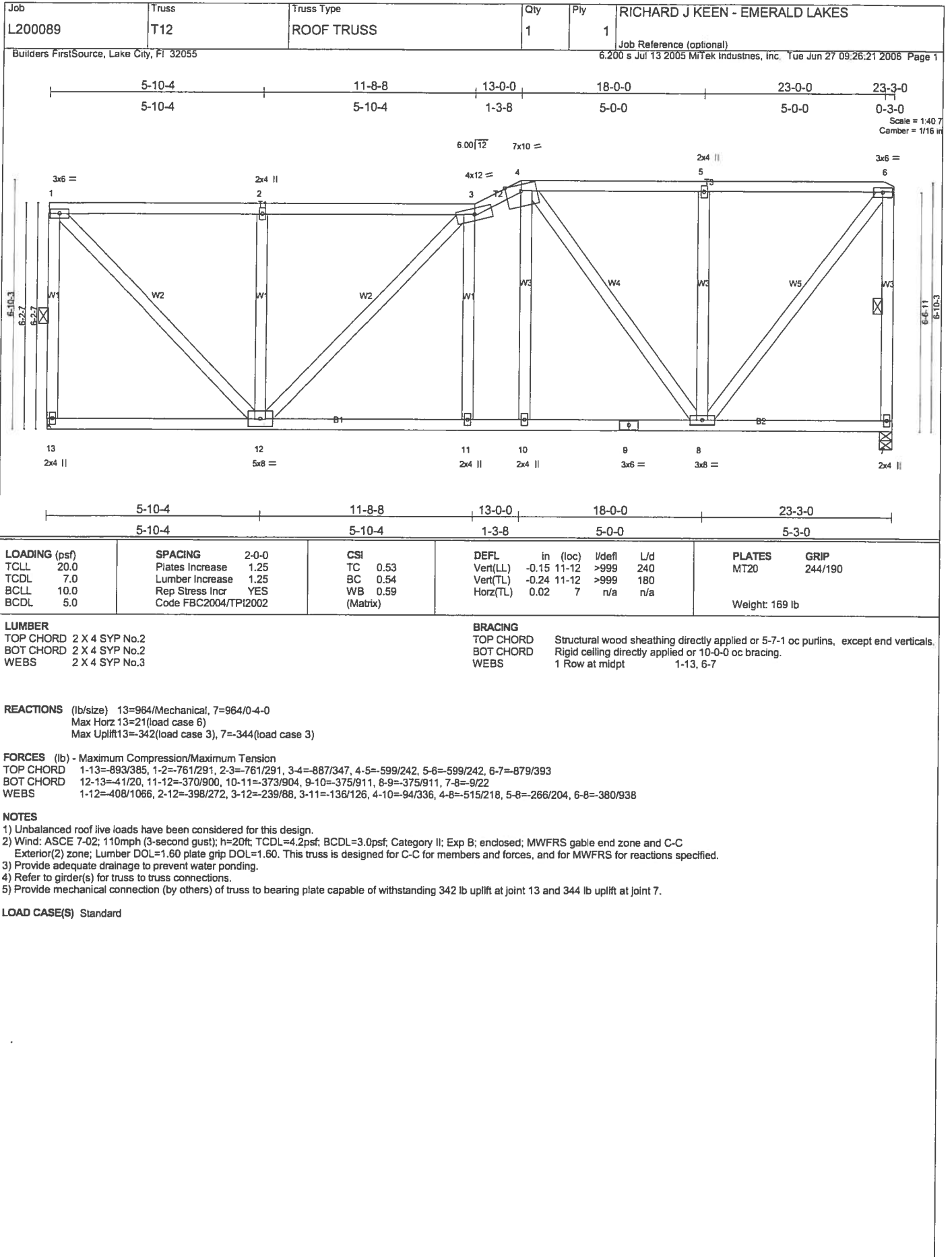
FORCES (lb) - Maximum Compression/Maximum Tension

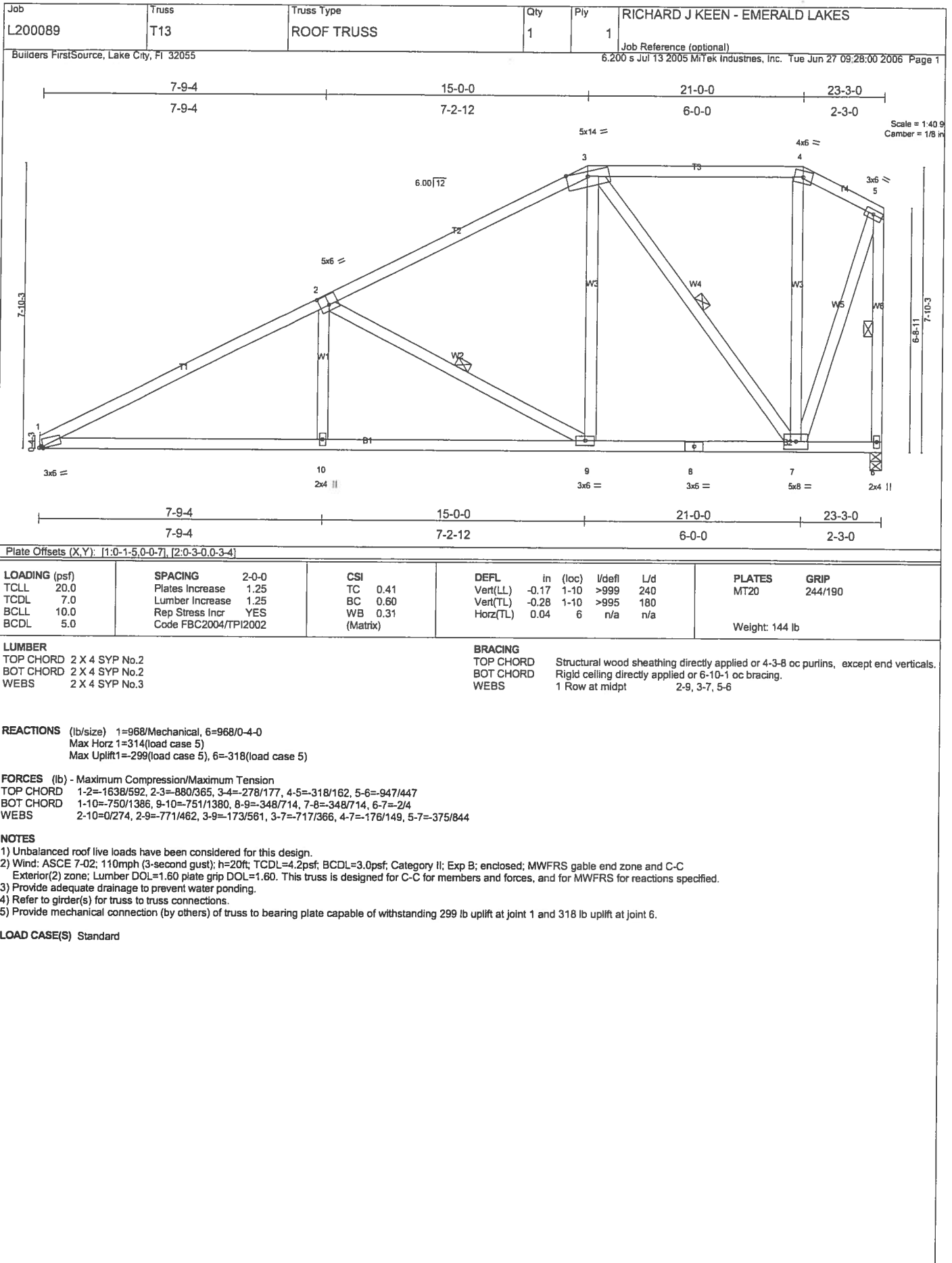
TOP CHORD 1-9=-852/393, 1-2=-961/375, 2-3=-961/375, 3-4=-53/21, 4-5=-193/135
 BOT CHORD 8-9=-21/54, 7-8=-376/961, 6-7=-376/961, 5-6=-376/961
 WEBS 1-8=-438/1121, 2-8=-426/310, 3-8=-1/1, 3-6=0/232, 3-5=-1122/439

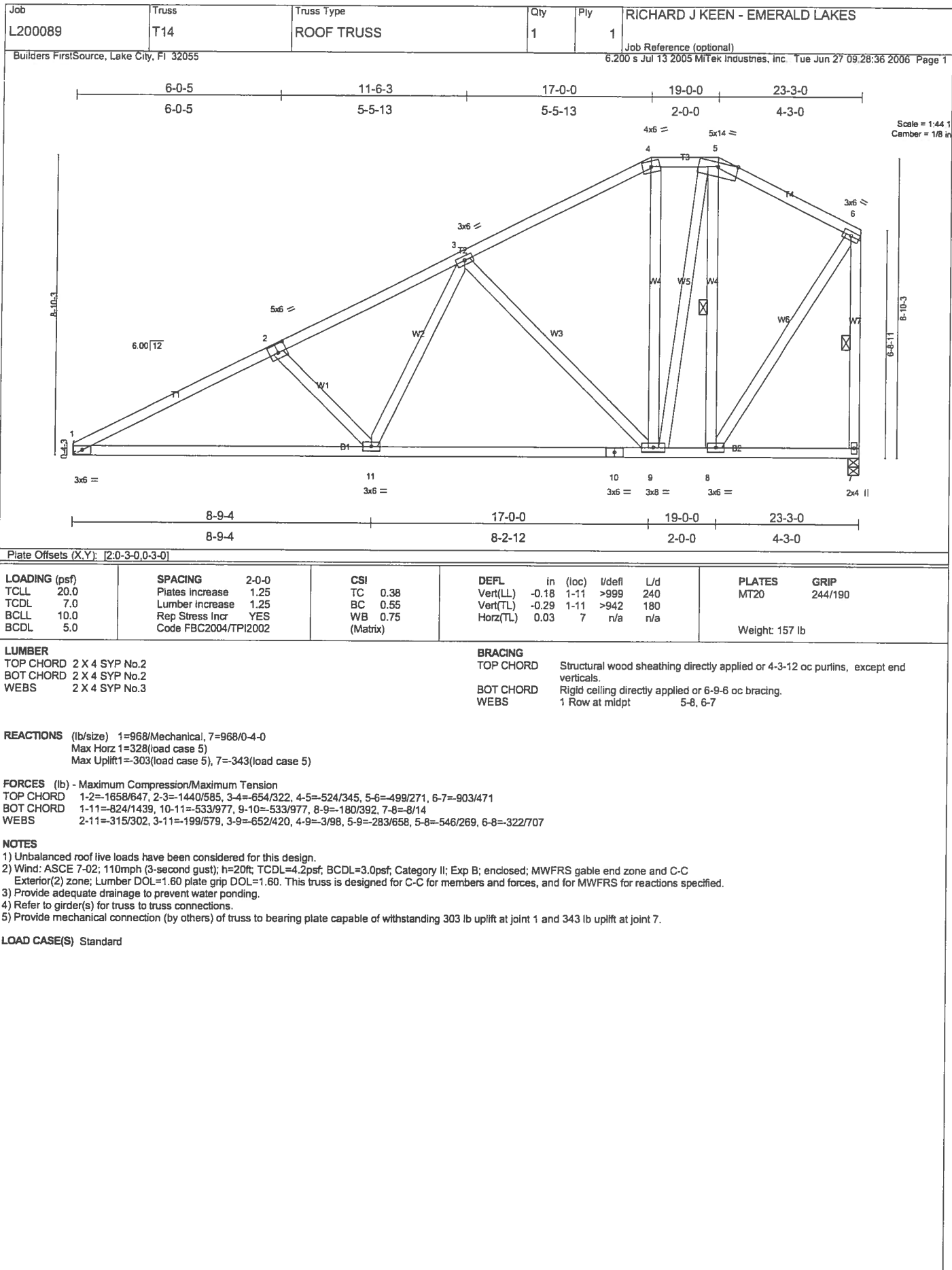
NOTES

- 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; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 364 lb uplift at joint 9 and 364 lb uplift at joint 5.

LOAD CASE(S) Standard

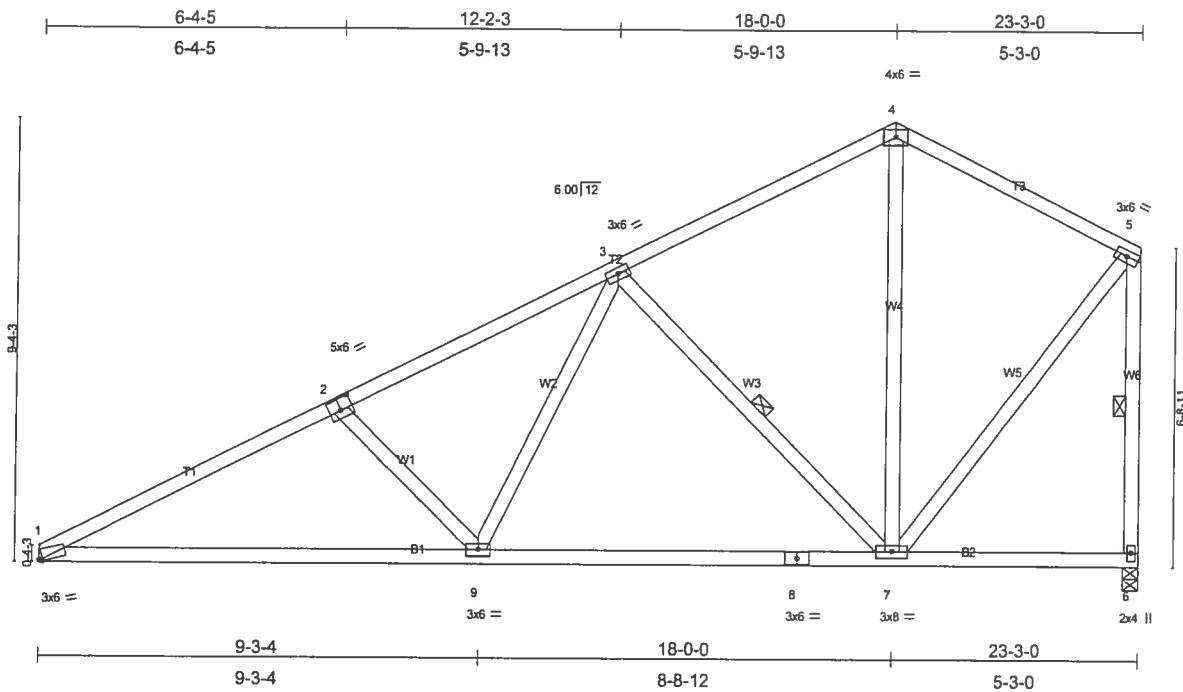






Job L200089	Truss T15	Truss Type ROOF TRUSS	Qty 2	Ply 1	RICHARD J KEEN - EMERALD LAKES
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Builders FirstSource, Lake City, FL 32055

Job Reference (optional)
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Scale = 1/4\"/>

Plate Offsets (X,Y): [1:0-0-13,Edge], [2:0-3-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	Vert(LL)	-0.21	1-9	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.58	Vert(TL)	-0.35	1-9	>786	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.37	Horz(TL)	0.03	6	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TP12002								
								Weight: 136 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 4-2-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-9-6 oc bracing.
 WEBS 1 Row at midpt 3-7, 5-6

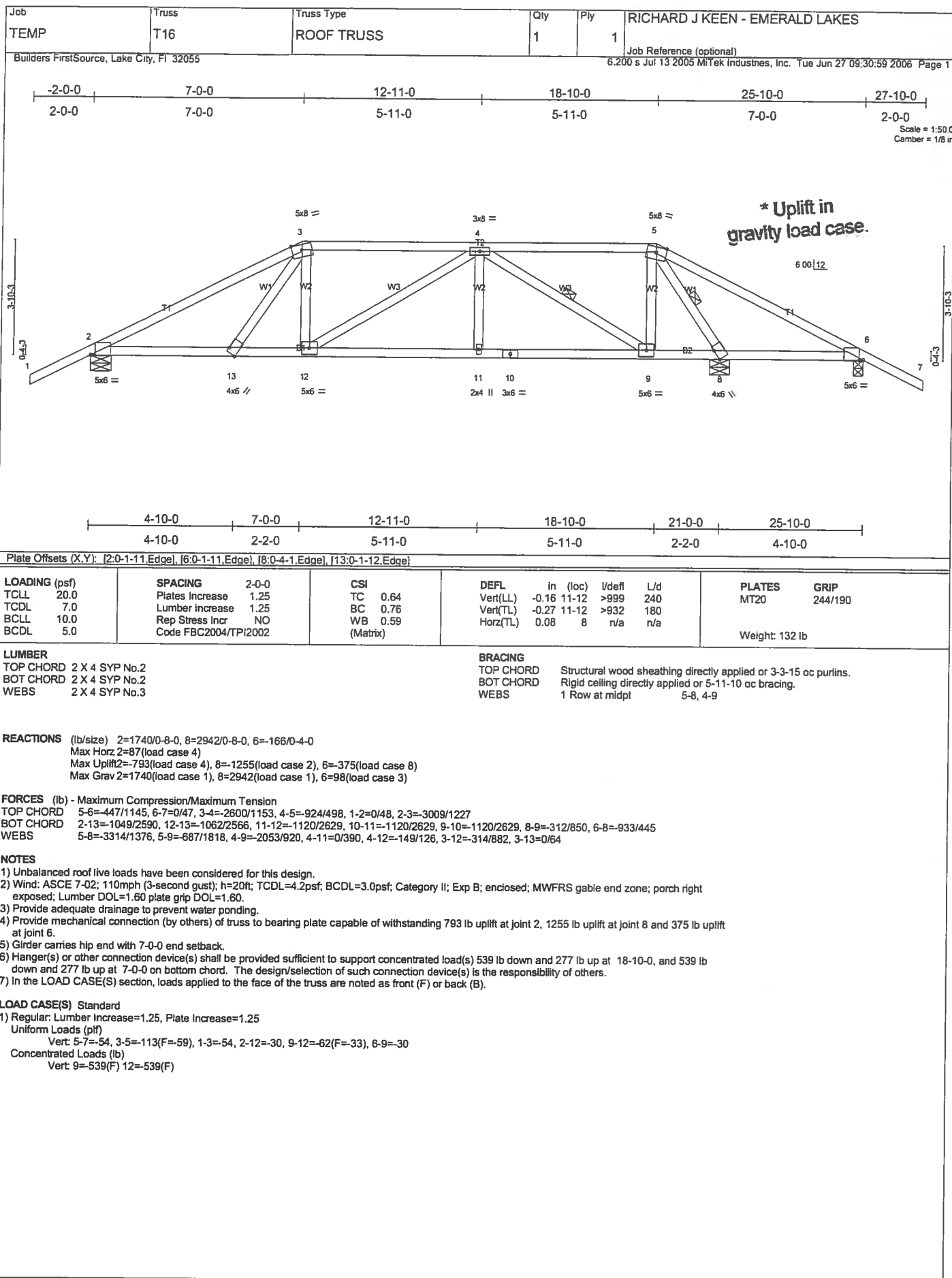
REACTIONS (lb/size) 1=968/Mechanical, 6=968/0-4-0
 Max Horz 1=335(load case 5)
 Max Uplift 1=303(load case 5), 6=356(load case 5)

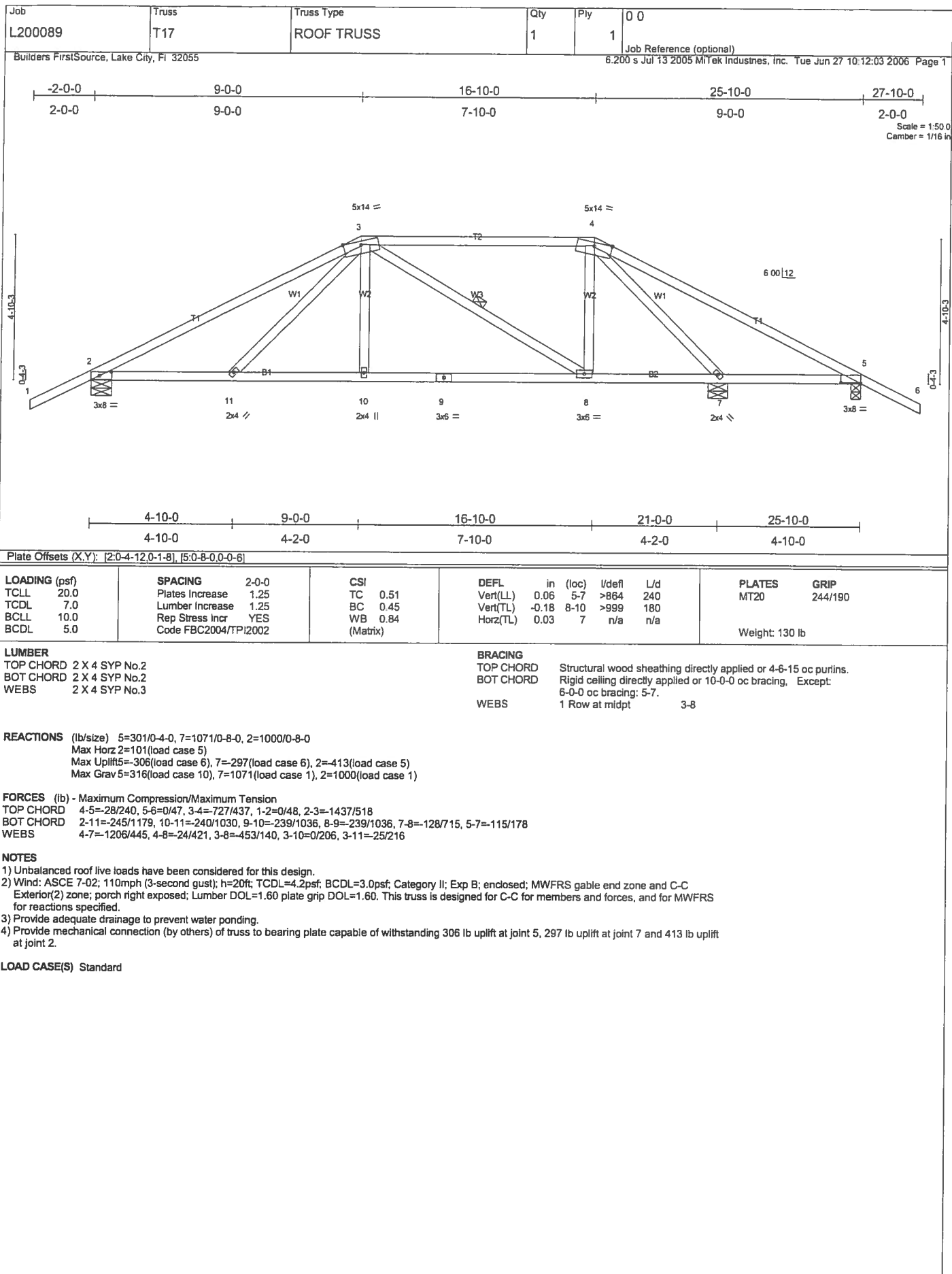
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-1634/644, 2-3=-1401/575, 3-4=-579/303, 4-5=-563/303, 5-6=-909/471
 BOT CHORD 1-9=-817/1416, 8-9=-504/922, 7-8=-504/922, 6-7=-10/16
 WEBS 2-9=-339/324, 3-9=-213/613, 3-7=-687/433, 4-7=-16/202, 5-7=-316/716

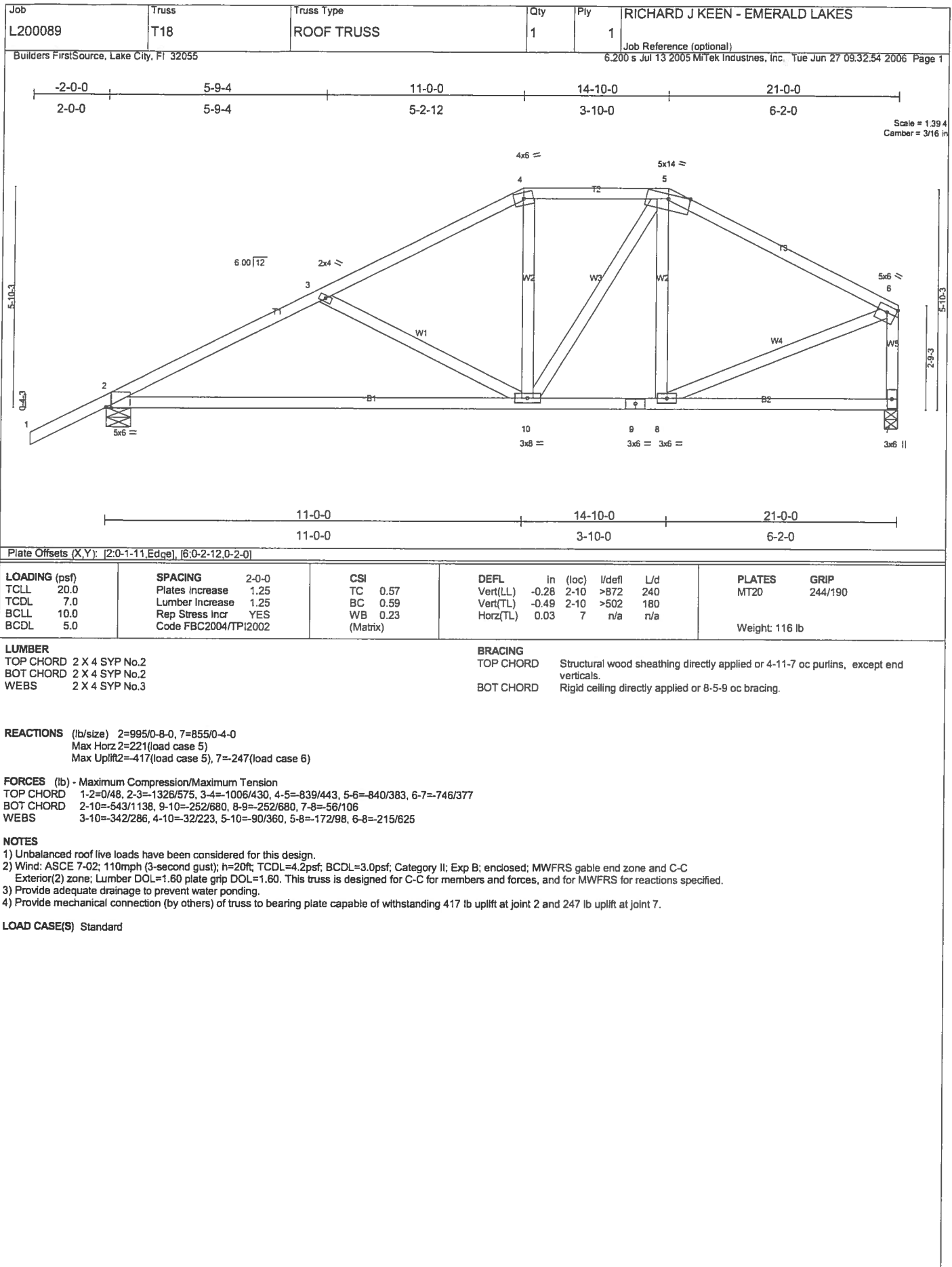
NOTES

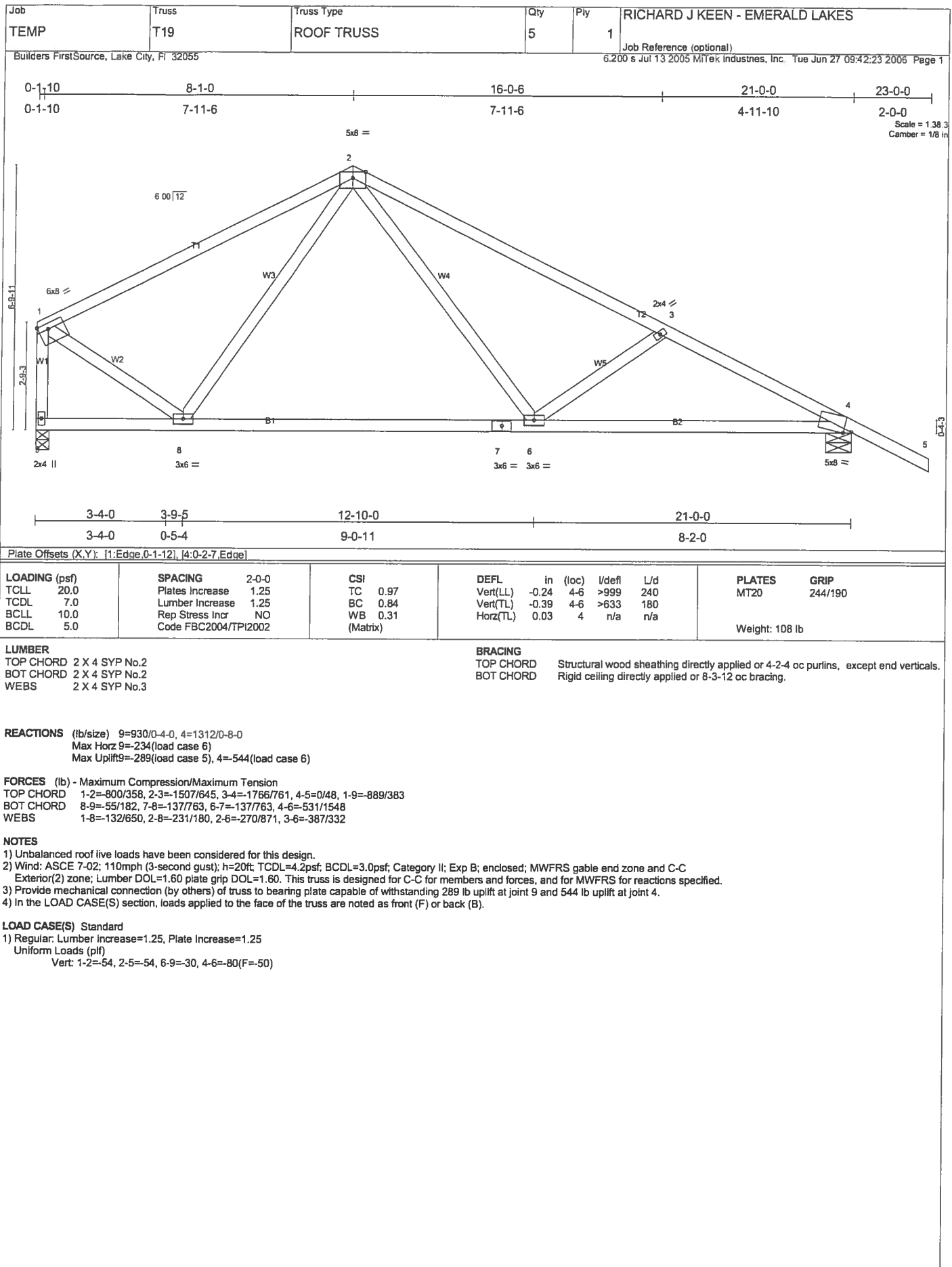
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 303 lb uplift at joint 1 and 356 lb uplift at joint 6.

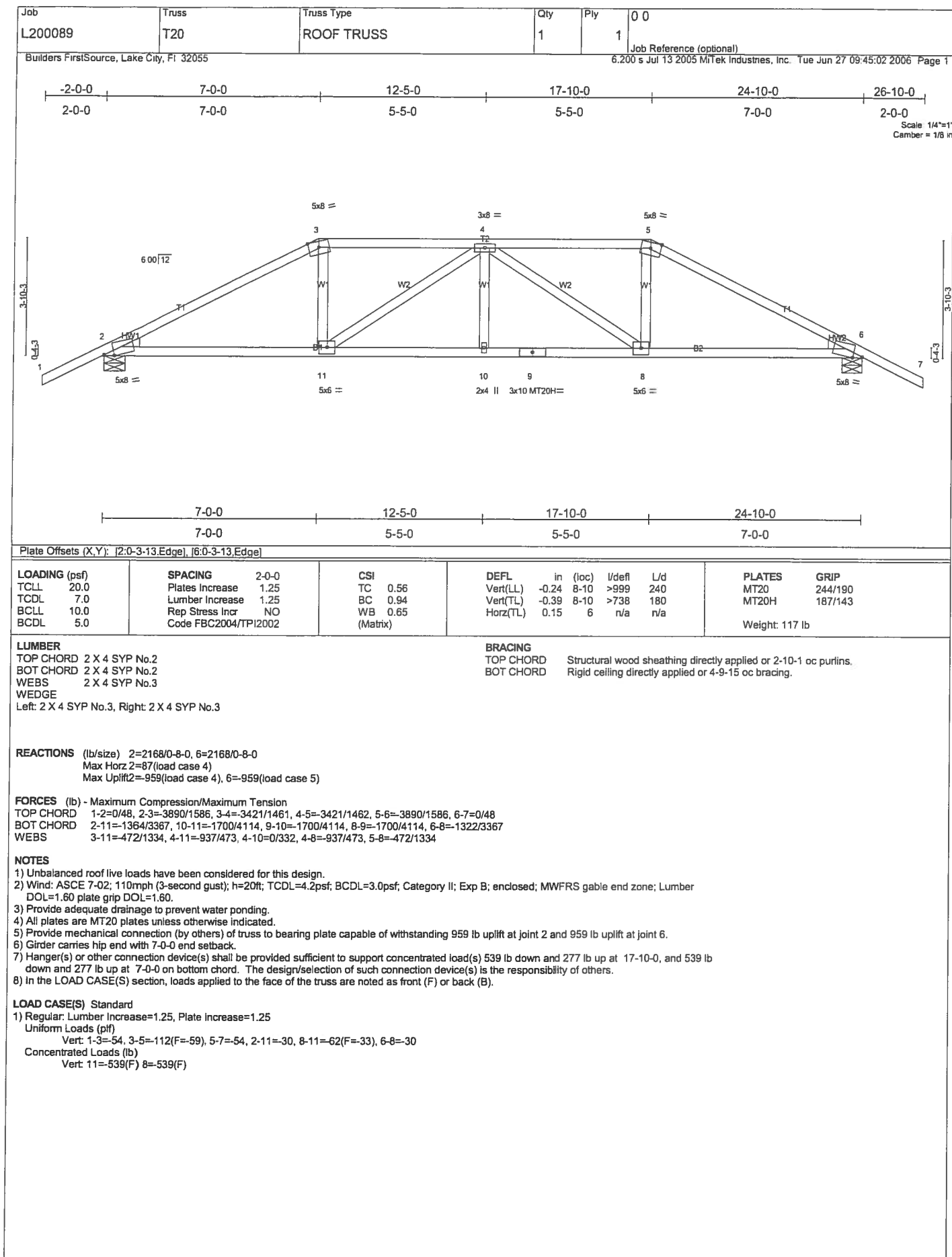
LOAD CASE(S) Standard

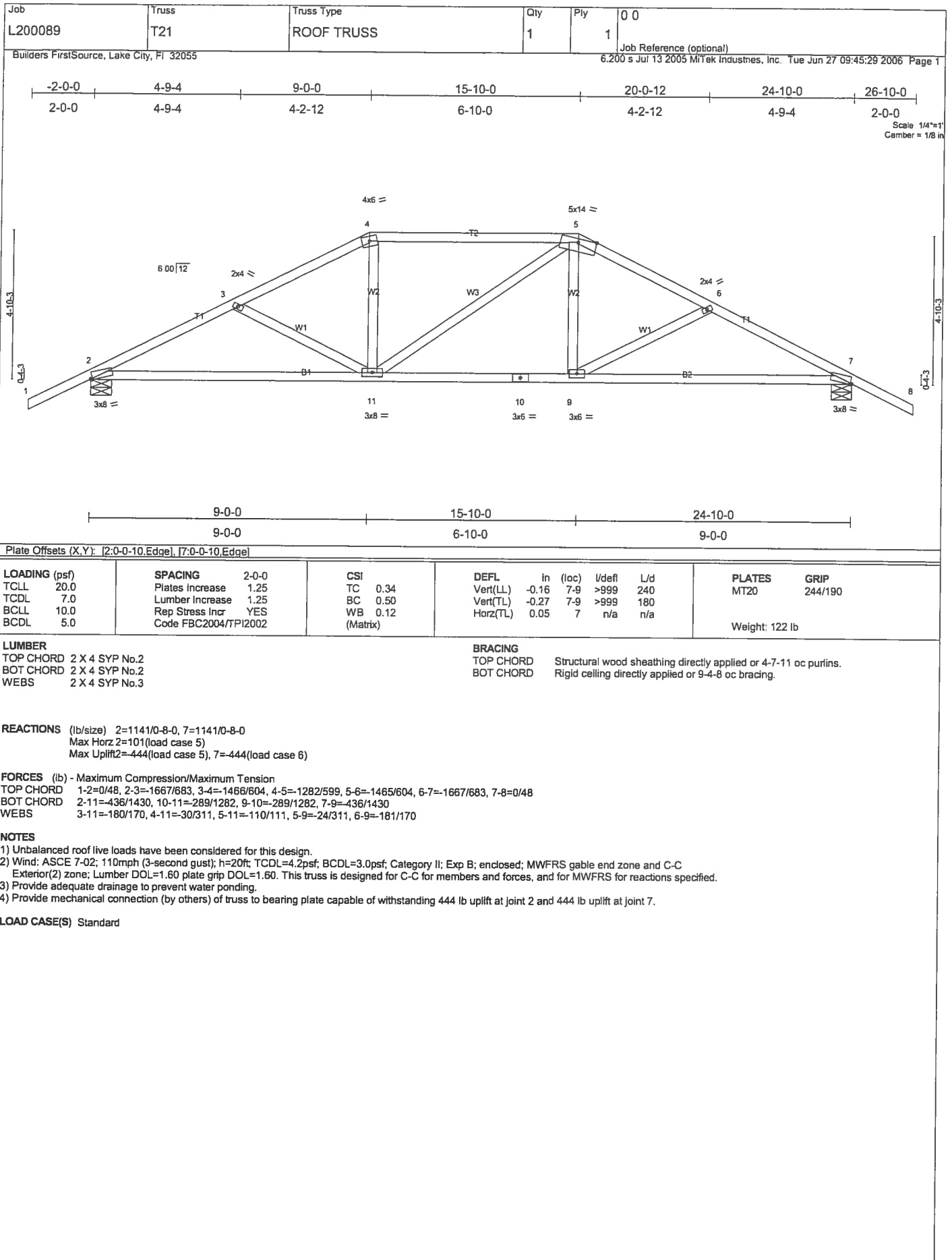


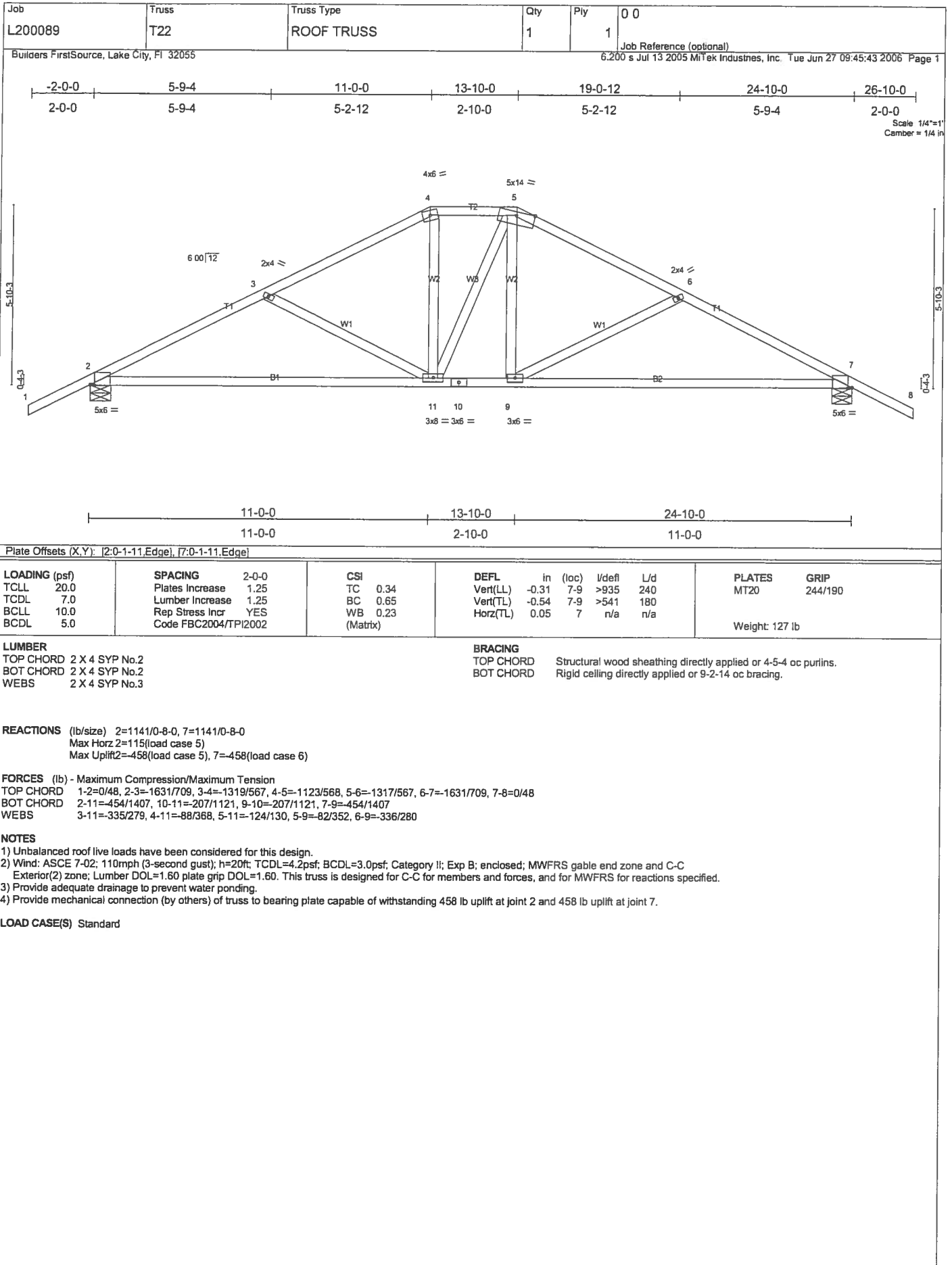


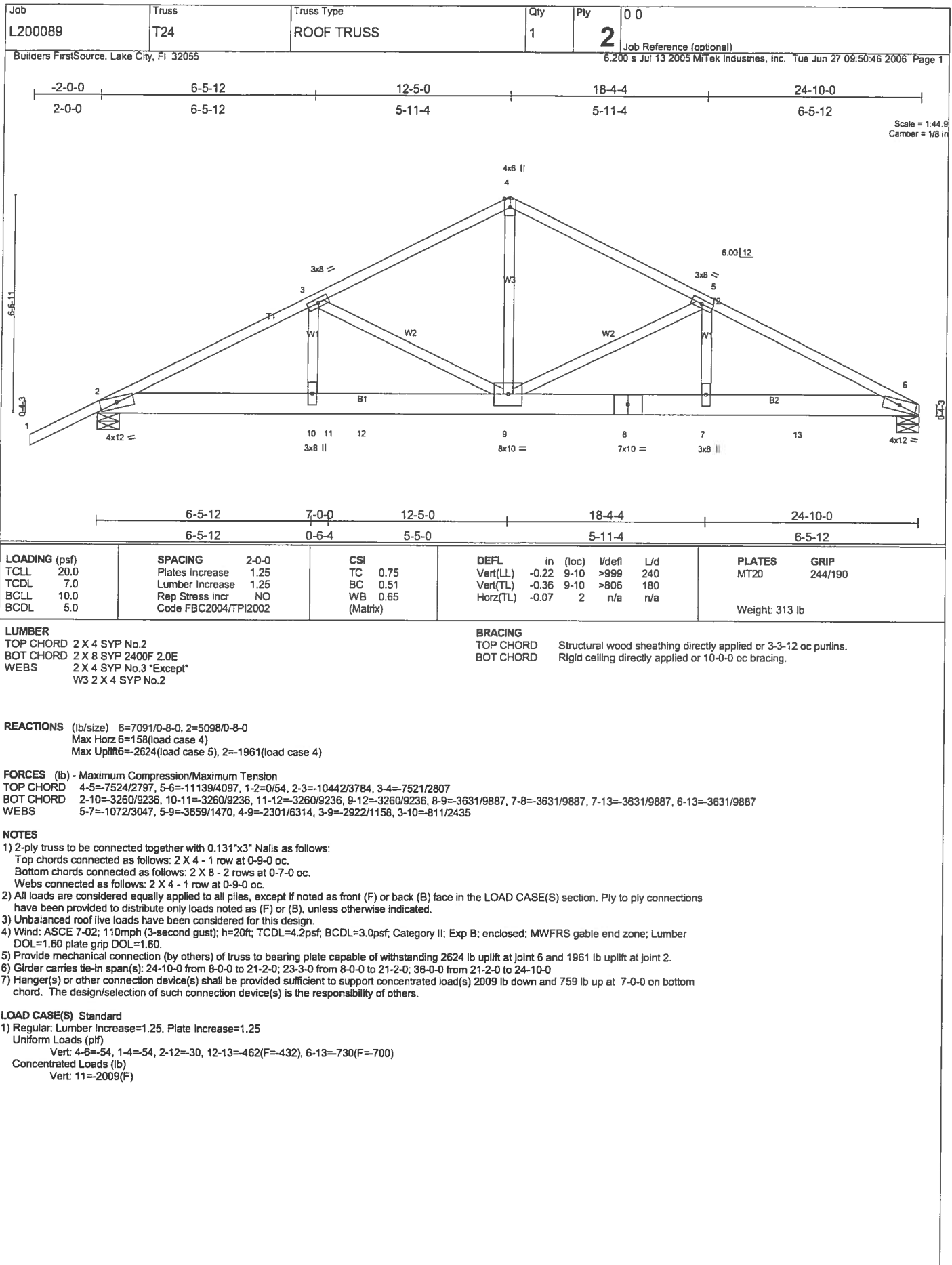


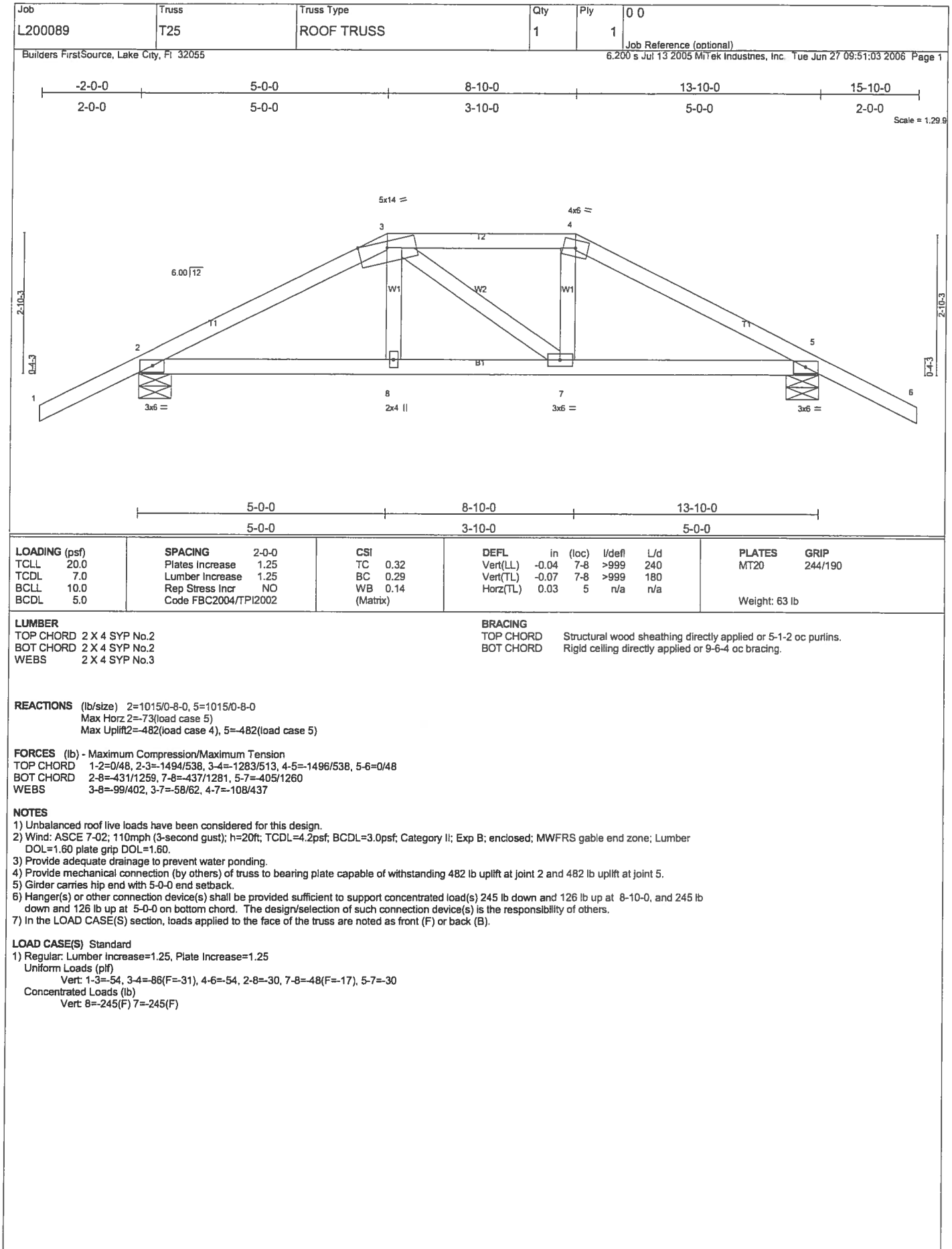


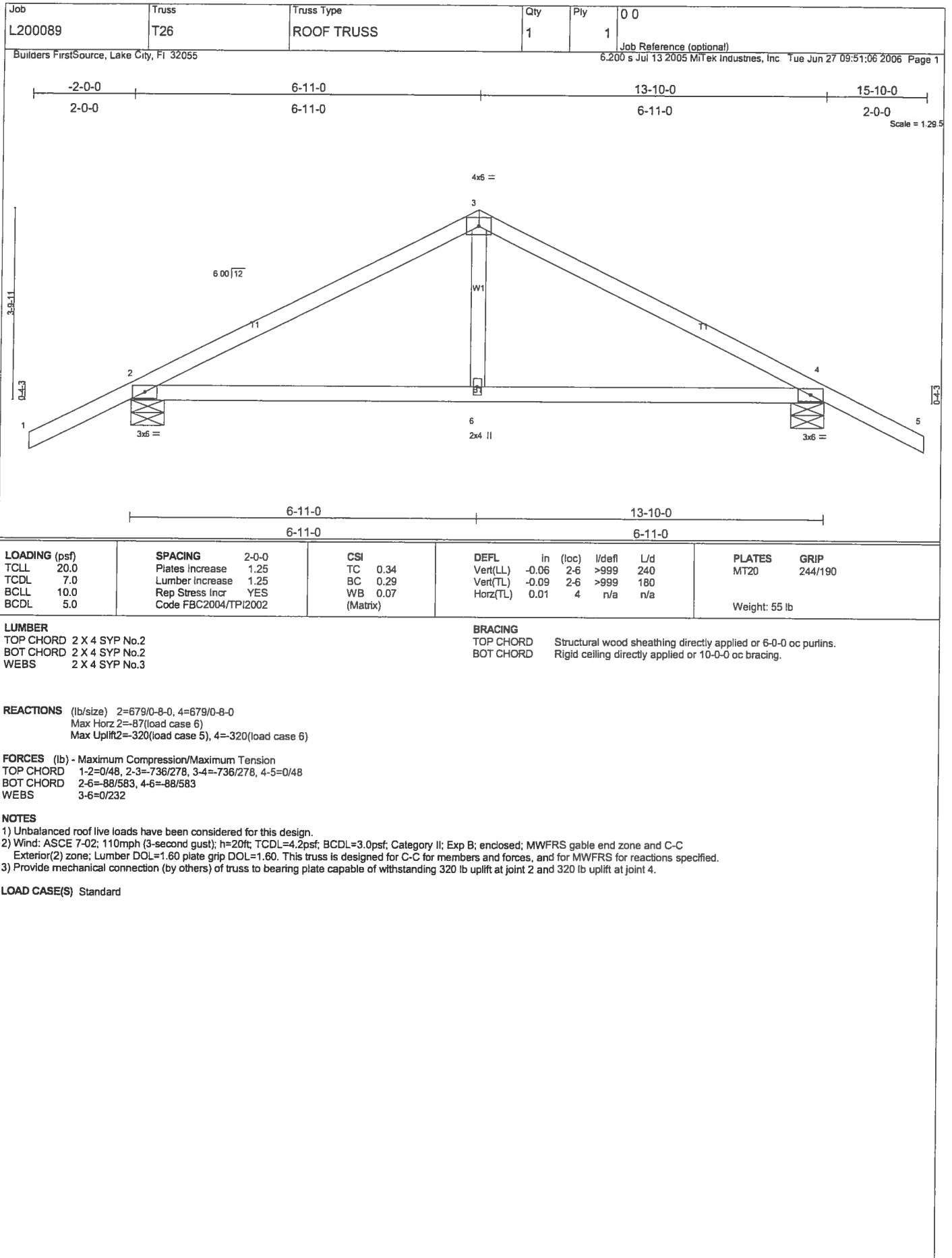


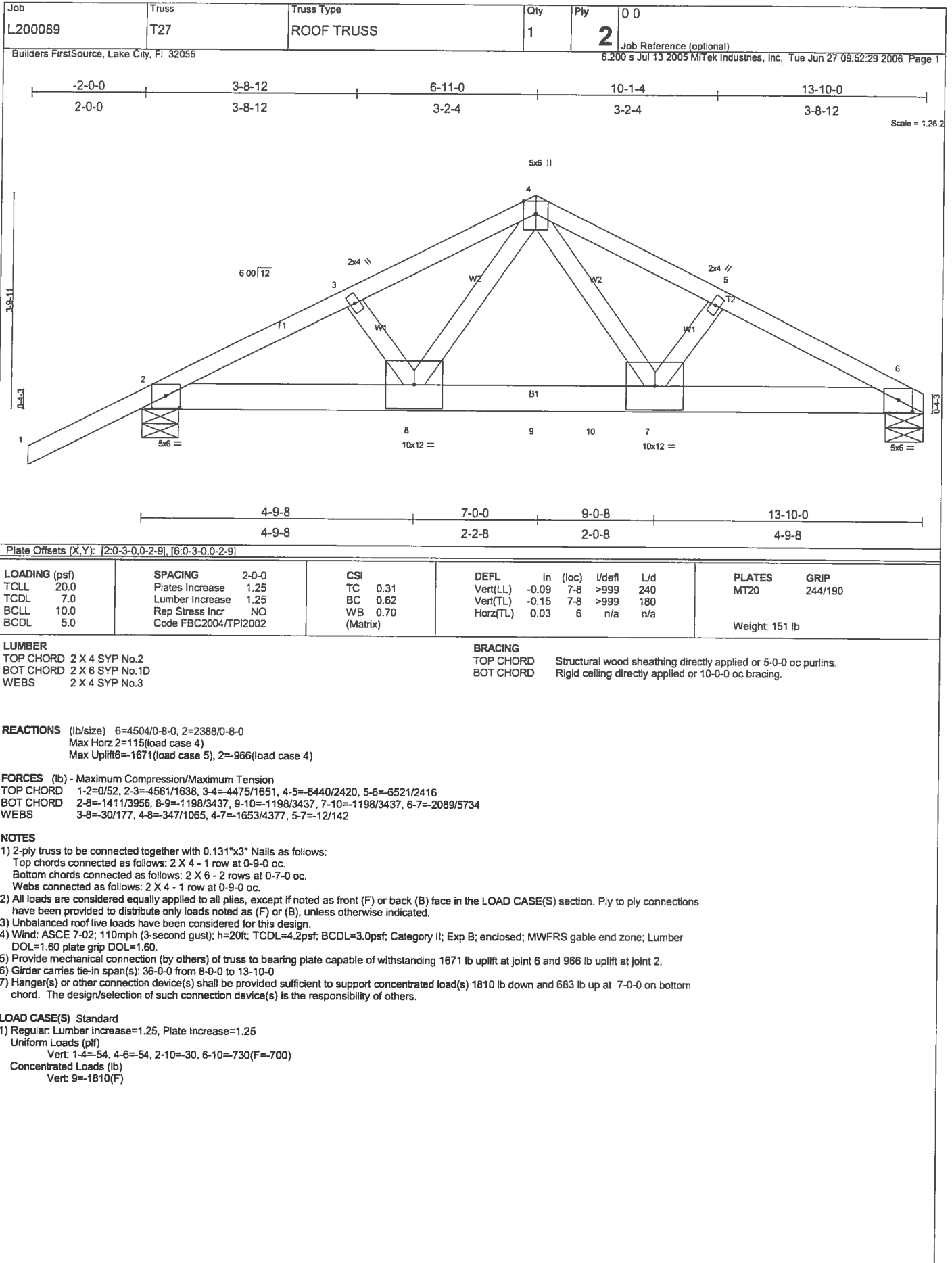






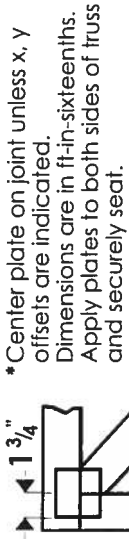




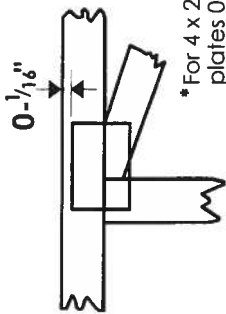


Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 0-1/16" 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

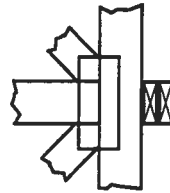
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

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

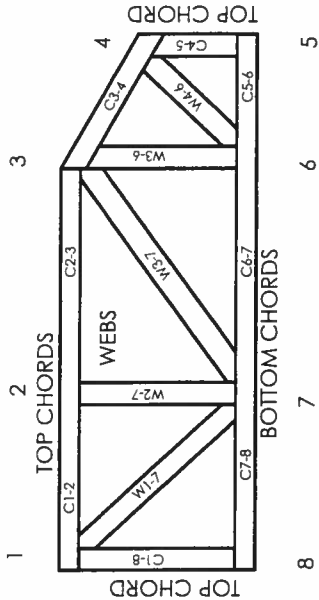


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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 tightly 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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