

DATE 08/21/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT

000024890

APPLICANT BRYAN ZECHER PHONE 752-8653

ADDRESS P.O. BOX 815 LAKE CITY FL 32056

OWNER JOHN & VICKI CRONAUER PHONE 904 813-9829

ADDRESS 393 NW SYLVI DRIVE LAKE CITY FL 32055

CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY 90W, TR ON BROWN RD, TL ON STAR LAKE PLACE, TR ON SYLVI DR.,
TO THE END ON RIGHT OF CUL-DE-SAC

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 126050.00

HEATED FLOOR AREA 2521.00 TOTAL AREA 3581.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 7/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 24

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE X PP DEVELOPMENT PERMIT NO.

PARCEL ID 28-3S-16-02372-063 SUBDIVISION STAR LAKE ESTATES

LOT 13 BLOCK PHASE UNIT TOTAL ACRES

000001192

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor

CULVERT 06-0698-N BK JH

Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 24476

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic

 date/app. by date/app. by date/app. by

Under slab rough-in plumbing Slab Sheathing/Nailing

 date/app. by date/app. by date/app. by

Framing Rough-in plumbing above slab and below wood floor

 date/app. by date/app. by date/app. by

Electrical rough-in Heat & Air Duct Peri. beam (Lintel)

 date/app. by date/app. by date/app. by

Permanent power C.O. Final Culvert

 date/app. by date/app. by date/app. by

M/H tie downs, blocking, electricity and plumbing Pool

 date/app. by date/app. by date/app. by

Reconnection Pump pole Utility Pole

 date/app. by date/app. by date/app. by

M/H Pole Travel Trailer Re-roof

 date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 635.00 CERTIFICATION FEE \$ 17.91 SURCHARGE FEE \$ 17.91

MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$

FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 TOTAL FEE 770.82

INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County Building Permit Application CL# 24476 Revised 9-23-04

For Office Use Only Application # 0608-28 Date Received 8/10/06 By LT Permit # 1192/24890
 Application Approved by - Zoning Official BLK Date 6.08.06 Plans Examiner OKAH Date 8-16-06
 Flood Zone X Flood Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low Dev.
 Comments _____

Applicants Name Bryan Techer Phone 758-8920
 Address P.O. Box 815 Lake City FL 32056
 Owners Name John & Vicki Cronauer Cronauer Phone (904) 813-9829
 911 Address 393 NW Sylvi Dr. Lake City, FL 32055
 Contractors Name Bryan Techer Construction, Inc. Phone 752-8653
 Address P.O. Box 815 Lake City FL 32056
 Fee Simple Owner Name & Address N/A
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address Teena Ruffo / Mark Disasway
 Mortgage Lenders Name & Address First Federal Savings Bank of Florida Lake City
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 28-35-16-02372-063 Estimated Cost of Construction \$264,150.00
 Subdivision Name Star Lake Estates Lot 13 Block _____ Unit _____ Phase _____
 Driving Directions Take US Hwy 90 West. Turn Right on Brown Road and take 1st Left into Star Lake Subdivision. Turn Right onto NW Sylvi Drive and follow road around to its end. Job is on the Right in the cul-de-sac.
 Type of Construction Frame / Brick Number of Existing Dwellings on Property 0
 Total Acreage 3/4 Lot Size 3/4 Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 30' Side 41'8 1/2" Side 58'8" Rear 43'9"
 Total Building Height 24'8" Number of Stories 1 Heated Floor Area 2521 Roof Pitch 7/12
Porch 276 GARAGE 784 TOTAL 3581

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

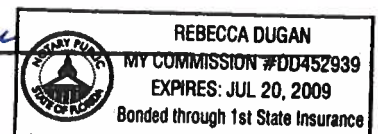
Sworn to (or affirmed) and subscribed before me

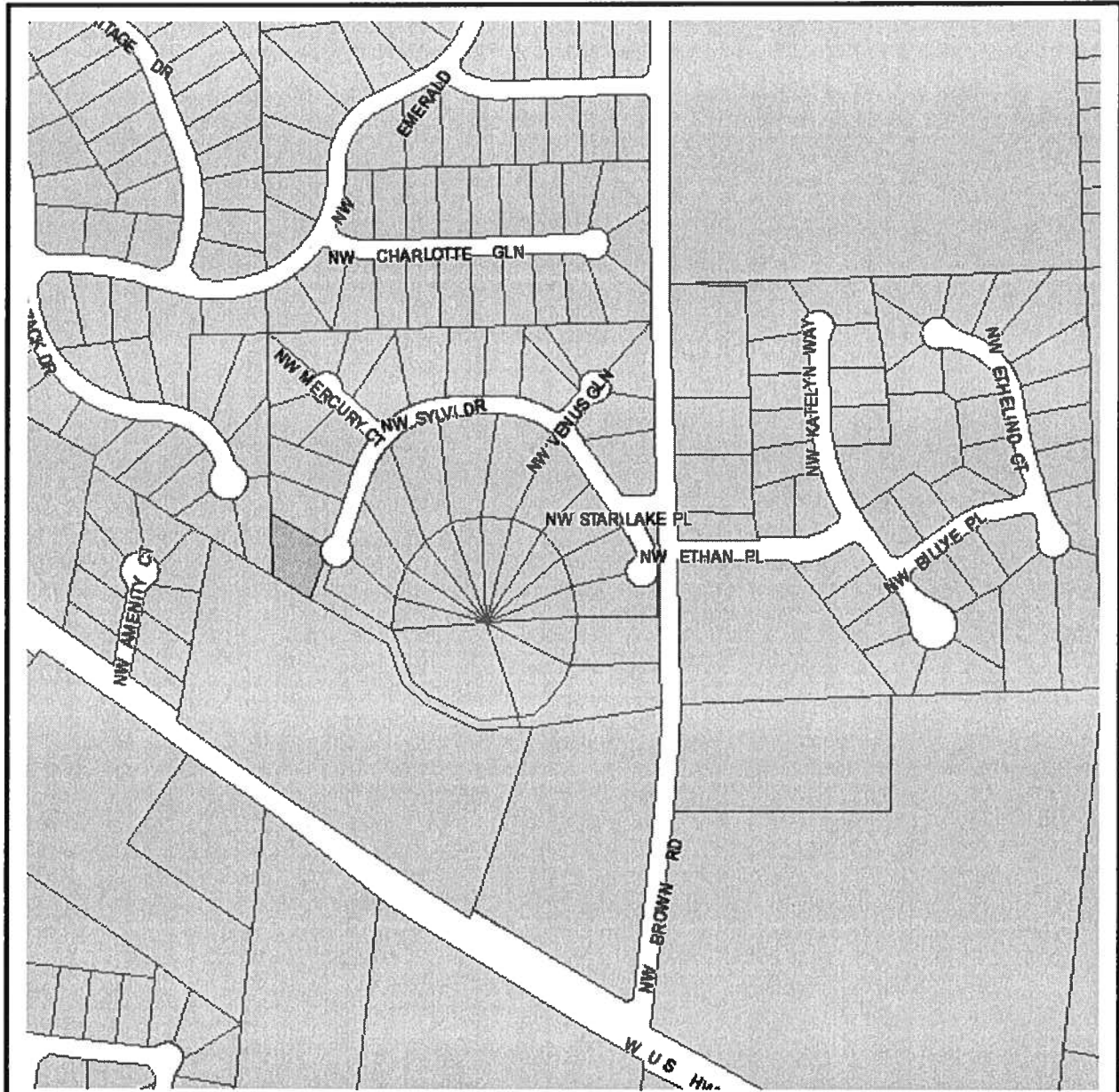
this 10th day of August 20 06.

Personally known ✓ or Produced Identification _____

Contractor Signature
Contractors License Number BC054575
Competency Card Number _____
NOTARY STAMP/SEAL

Notary Signature





Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 28-3S-16-02372-063 - VACANT (000000)

Name:	CRONAUER JOHN C & VICKI E	LandVal	\$25,500.00
Site:		BldgVal	\$0.00
Mail:	3504 WEST AMANDA CT	ApprVal	\$25,500.00
	JACKSONVILLE, FL 32259	JustVal	\$25,500.00
Sales	11/22/2005 \$49,000.00V / U	Assd	\$25,500.00
Info	6/20/2003 \$26,900.00V / Q	Exmpt	\$0.00
		Taxable	\$25,500.00

0 220 440 660 ft



This information, GIS Map Updated: 8/1/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, its use, or its interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Permit Number:

Tax Folio Number: R02372-063

State of: Florida
County of: Columbia

File Number: 06-491

Inst: 2006018761 Date: 08/08/2006 Time: 10:19

DC, P. DeWitt Cason, Columbia County B: 1092 P: 205

NOTICE OF COMMENCEMENT

The undersigned hereby gives notice that improvement will be made to certain real property, and, in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of Property:
Lot 13, of STAR LAKE ESTATES, according to the Plat thereof, as recorded in Plat Book 7, at Page 119, of the Public Records of Columbia County, Florida
2. General Description of Improvements: Single Family Dwelling
3. Owner Information:
 - a. Name and Address: John C. Cronauer and his wife, Vicki E. Cronauer
3504 West Amanda Ct., Jacksonville, FL 32259
 - b. Interest in property: Fee Simple
 - c. Names and address of fee simple title holder (if other than owner):
4. Contractor: Bryan Zecher Construction
5. Surety: N/A
6. Lender: First Federal Savings Bank of Florida, 4705 West U. S. Highway 90
Post Office Box 2029 (32056), Lake City, Florida 32055
7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes.
8. In addition to himself, Owner designates the following persons to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
9. Expiration date of Notice of Commencement (the expiration date is 1 year from date of recording unless a different date is specified): August 4, 2007.

John C. Cronauer
John C. Cronauer

Vicki E. Cronauer
Vicki E. Cronauer

Sworn to and subscribed before me August 4, 2006 by John C. Cronauer and Vicki E. Cronauer, husband and wife, who is personally known to me or who did provide drivers license as identification.

Lyndi Skinner
Notary Public

My Commission Expires: _____



Lyndi Skinner
My Commission DD150708
Expires September 17, 2006

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office
P. DEWITT CASON, CLERK OF COURTS

By Sheron Seagle
Deputy Clerk

Date 08-08-2006



HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERSPHONE (904) 752-1854
FAX (904) 755-7022
~~XXXXXX~~ XXXXXXXX
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

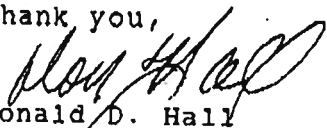
June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,


Donald D. Hall
DDH/jk

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	606152ZecherBryan	Builder:	Zecher, Bryan
Address:	Lot: 13, Sub: Star Lake Estat, Plat:	Permitting Office:	Columbia
City, State:	Columbia, FL	Permit Number:	24890
Owner:	Cronauer, Jack & Vickie Residence	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 49.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2521 ft²	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 49.0 kBtu/hr
a. U-factor:	Description Area		HSPF: 7.00
(or Single or Double DEFAULT) 7a. (Dble Default)	337.6 ft²	b. N/A	
b. SHGC:		c. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	337.6 ft²	14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 40.0 gallons
a. Slab-On-Grade Edge Insulation	R=0.0, 226.0(p) ft		EF: 0.93
b. N/A		b. N/A	
c. N/A		c. Conservation credits	
9. Wall types		(HR-Heat recovery, Solar	
a. Frame, Wood, Exterior	R=13.0, 1662.4 ft²	DHP-Dedicated heat pump)	
b. Frame, Wood, Exterior	R=13.0, 156.0 ft²	15. HVAC credits	
c. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		HF-Whole house fan,	
e. N/A		PT-Programmable Thermostat,	
10. Ceiling types		MZ-C-Multizone cooling,	
a. Under Attic	R=30.0, 2573.0 ft²	MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 200.0 ft		
b. N/A			

Glass/Floor Area: 0.13

Total as-built points: 33329

Total base points: 34191

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Ben CronauerDATE: 6-20-06

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: Ben CronauerDATE: 8/8/06

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____



1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 13, Sub: Star Lake Estat, Plat: , Columbia, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	2521.0	20.04	9093.8	Double, Clear	SE	6.7	6.7	36.0	42.75	0.49	761.6
				Double, Clear	S	13.0	7.0	10.0	35.87	0.45	163.1
				Double, Clear	SE	9.7	6.7	36.0	42.75	0.44	672.5
				Double, Clear	E	13.0	7.0	10.0	42.06	0.40	167.9
				Double, Clear	SE	1.5	7.5	90.0	42.75	0.93	3588.8
				Double, Clear	SW	1.5	4.5	6.0	40.16	0.80	194.0
				Double, Clear	SW	1.5	5.5	16.0	40.16	0.86	554.6
				Double, Clear	NW	1.5	6.5	30.0	25.97	0.94	730.2
				Double, Clear	NW	7.0	10.0	13.3	25.97	0.71	243.8
				Double, Clear	NW	7.0	3.5	12.5	25.97	0.54	176.9
				Double, Clear	NW	1.5	0.0	30.0	25.97	0.52	401.7
				Double, Clear	NW	1.5	0.0	15.0	25.97	0.52	200.9
				Double, Clear	NW	1.5	2.7	2.8	25.97	0.76	55.0
				Double, Clear	NE	1.5	5.5	30.0	29.56	0.91	802.9
				As-Built Total:				337.6	8713.7		
WALL TYPES				Area X BSPM = Points		Type		R-Value	Area X SPM = Points		
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior				13.0	1662.4	1.50	2493.6
Exterior	1818.4	1.70	3091.3	Frame, Wood, Exterior				13.0	156.0	1.50	234.0
Base Total:				1818.4		3091.3		As-Built Total:		1818.4	
										2727.6	
DOOR TYPES				Area X BSPM = Points		Type		Area X SPM = Points			
Adjacent	20.0	1.60	32.0	Exterior Insulated				20.0	4.10	82.0	
Exterior	40.0	4.10	164.0	Exterior Insulated				20.0	4.10	82.0	
				Adjacent Insulated				20.0	1.60	32.0	
Base Total:				60.0		196.0		As-Built Total:		60.0	
										196.0	
CEILING TYPES				Area X BSPM = Points		Type		R-Value	Area X SPM X SCM = Points		
Under Attic	2521.0	1.73	4361.3	Under Attic				30.0	2573.0	1.73 X 1.00	4451.3
Base Total:				2521.0		4361.3		As-Built Total:		2573.0	
										4451.3	
FLOOR TYPES				Area X BSPM = Points		Type		R-Value	Area X SPM = Points		
Slab	226.0(p)	-37.0	-8362.0	Slab-On-Grade Edge Insulation				0.0	226.0(p)	-41.20	-9311.2
Raised	0.0	0.00	0.0								
Base Total:				-8362.0		As-Built Total:		226.0		-9311.2	

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 13, Sub: Star Lake Estat, Plat: , Columbia, FL,

PERMIT #:

BASE				AS-BUILT			
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
2521.0	10.21	25739.4		2521.0	10.21	25739.4	
Summer Base Points: 34119.8				Summer As-Built Points: 32516.8			
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier Credit Multiplier = Cooling Points
34119.8	0.4266	14555.5		(sys 1: Central Unit 49000 btuh ,SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 32517			

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 13, Sub: Star Lake Estat, Plat: , Columbia, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	2521.0	12.74	5781.2	Double, Clear	SE	6.7	6.7	36.0	14.71	1.94	1024.7
				Double, Clear	S	13.0	7.0	10.0	13.30	3.48	462.1
				Double, Clear	SE	9.7	6.7	36.0	14.71	2.26	1194.7
				Double, Clear	E	13.0	7.0	10.0	18.79	1.44	270.3
				Double, Clear	SE	1.5	7.5	90.0	14.71	1.06	1400.9
				Double, Clear	SW	1.5	4.5	6.0	16.74	1.11	111.8
				Double, Clear	SW	1.5	5.5	16.0	16.74	1.07	287.1
				Double, Clear	NW	1.5	6.5	30.0	24.30	1.00	730.7
				Double, Clear	NW	7.0	10.0	13.3	24.30	1.02	329.3
				Double, Clear	NW	7.0	3.5	12.5	24.30	1.03	313.8
				Double, Clear	NW	1.5	0.0	30.0	24.30	1.04	755.2
				Double, Clear	NW	1.5	0.0	15.0	24.30	1.04	377.6
				Double, Clear	NW	1.5	2.7	2.8	24.30	1.02	69.1
				Double, Clear	NE	1.5	5.5	30.0	23.57	1.01	712.7
				As-Built Total:				337.6	8040.2		
WALL TYPES				Type		R-Value		Area X WPM		= Points	
Area X BWPM = Points											
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior		13.0	1662.4	3.40	5652.2		
Exterior	1818.4	3.70	6728.1	Frame, Wood, Exterior		13.0	156.0	3.40	530.4		
Base Total:				As-Built Total:				1818.4	6182.6		
DOOR TYPES				Type		Area X WPM		= Points			
Area X BWPM = Points											
Adjacent	20.0	8.00	160.0	Exterior Insulated			20.0	8.40	168.0		
Exterior	40.0	8.40	336.0	Exterior Insulated			20.0	8.40	168.0		
				Adjacent Insulated			20.0	8.00	160.0		
Base Total:				As-Built Total:				60.0	496.0		
CEILING TYPES				Type		R-Value		Area X WPM X WCM		= Points	
Area X BWPM = Points											
Under Attic	2521.0	2.05	5168.0	Under Attic		30.0	2573.0	2.05 X 1.00	5274.6		
Base Total:				As-Built Total:				2573.0	5274.6		
FLOOR TYPES				Type		R-Value		Area X WPM		= Points	
Area X BWPM = Points											
Slab	226.0(p)	8.9	2011.4	Slab-On-Grade Edge Insulation		0.0	226.0(p)	18.80	4248.8		
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:				226.0	4248.8		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 13, Sub: Star Lake Estat, Plat: , Columbia, FL,

PERMIT #:

BASE				AS-BUILT			
INFILTRATION Area X BWPM = Points				Area X WPM = Points			
2521.0	-0.59	-1487.4		2521.0	-0.59	-1487.4	
Winter Base Points:		18697.3		Winter As-Built Points:		22754.8	
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier X Credit Multiplier = Heating Points
18697.3	0.6274	11730.7		(sys 1: Electric Heat Pump 49000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0 22754.8 1.000 (1.069 x 1.169 x 0.93) 0.487 1.000 12882.6 22754.8	1.00	1.162	0.487 1.000 12882.6

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 13, Sub: Star Lake Estat, Plat: , Columbia, FL,

PERMIT #:

BASE					AS-BUILT					
WATER HEATING										
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Credit = Total Multiplier
3		2635.00		7905.0	40.0	0.93	3		1.00	2606.67
					As-Built Total:					7820.0

CODE COMPLIANCE STATUS													
BASE							AS-BUILT						
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
14555		11731		7905		34191	12626		12883		7820		33329

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 13, Sub: Star Lake Estat, Plat: , Columbia, FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.4

The higher the score, the more efficient the home.

Cronauer, Jack & Vickie Residence, Lot: 13, Sub: Star Lake Estat, Plat: , Columbia, FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 49.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2521 ft²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 49.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 337.6 ft²		HSPF: 7.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 337.6 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 226.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1662.4 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Exterior	R=13.0, 156.0 ft²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 2573.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 200.0 ft		
b. N/A			

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: 8/8/06

Address of New Home: 393 New Sylvi Dr City/FL Zip: LC, FL 32055



*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLR2PB v4.1)

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001192

DATE 08/21/2006 PARCEL ID # 28-3S-16-02372-063

APPLICANT BRYAN ZECHER PHONE 752-8653

ADDRESS P.O. BOX 815 LAKE CITY FL 32056

OWNER JOHN & VICKI CRONAUER PHONE 904 813-9829

ADDRESS 393 NW SYLVI DRIVE LAKE CITY FL 32055

CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY 90W, TR ON BROWN RD, TL ON STAR LAKE PLACE, TR ON SYLVI DR.,
TO THE END ON RIGHT OF CUL-DE-SAC

SUBDIVISION/LOT/BLOCK/PHASE/UNIT STAR LAKE ESTATES 13

SIGNATURE

INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
- b) the driveway to be served will be paved or formed with concrete.

Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



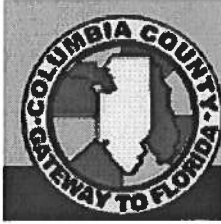
Other _____

**ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE INSTALLATION OF THE CULVERT.**

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00





From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: **0608-28**

Contractor Bryan Zecher Construction Owner John & Vicki Cronauer Lot 13 of Star Lake Estates.

On the date of August 14, 2006 application 0608-28 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0608-12 and when making reference to this application.

This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

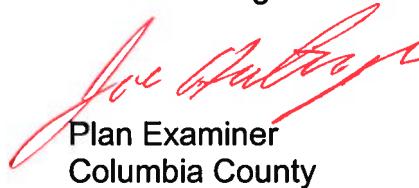
To help ensure compliance with the Florida Residential Code 2004 the comments below need to be addressed on the plans.

1. Please show on the plans that the door which allows access into the residence from within the garage be of the type door which will comply

with FRC-2004 sections R309.1 Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

- 2.** In the mechanical /storage room area the door which allows access into mechanical /storage room from the garage shall also meet the requirements of section R309.1
- 3.** The electrical plans indicate the location of the electrical service entrance (meter can) and the interior location of the 200 amp electrical circuit panel. At the electrical service entrance point a 200 amp overcurrent protection device shall be installed on the exterior of structures to serve as a disconnecting means. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

Joe Haltiwanger



Plan Examiner
Columbia County

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up	N/A		
5. Automatic	N/A		
6. Other	—		
B. WINDOWS			
1. Single hung	Capital/Jordan		FL 675 / FL 1378-R1
2. Horizontal Slider	" "		FL 685 / FL 1384-R1
3. Casement	—		
4. Double Hung	—		
5. Fixed	C/J		FL 681 / FL 1383-R1
6. Awning	—		
7. Pass-through	—		
8. Projected	—		
9. Mullion	—		
10. Wind Breaker	—		
11. Dual Action	—		
12. Other			
C. PANEL WALL			
1. Siding	Hardy Plank		FL 889-R1
2. Soffits	Ashley Aluminum		FL 4768
3. EIFS	—		
4. Storefronts	—		
5. Curtain walls	—		
6. Wall louver	—		
7. Glass block	—		
8. Membrane	—		
9. Greenhouse	—		
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	ELK/Certainteed		FL 728-R1 / FL 230-R1
2. Underlayments	Felt		FL 1814
3. Roofing Fasteners	Nails		ROM 3578
4. Non-structural Metal Rf	—		
5. Built-Up Roofing	—		
6. Modified Bitumen	—		
7. Single Ply Roofing Sys	—		
8. Roofing Tiles	—		
9. Roofing Insulation	—		
10. Waterproofing	—		
11. Wood shingles /shakes	—		
12. Roofing Slate	—		

Residential System Sizing Calculation

Summary

Cronauer, Jack & Vickie Residence

Project Title:
606152ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

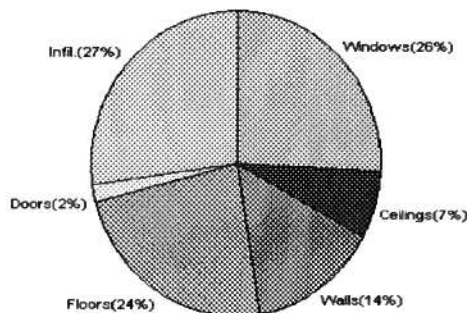
6/20/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	41748 Btuh	Total cooling load calculation	36005 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	117.4 49000	Sensible (SHR = 0.75)	124.2 36750
Heat Pump + Auxiliary(0.0kW)	117.4 49000	Latent	190.8 12250
		Total (Electric Heat Pump)	136.1 49000

WINTER CALCULATIONS

Winter Heating Load (for 2521 sqft)

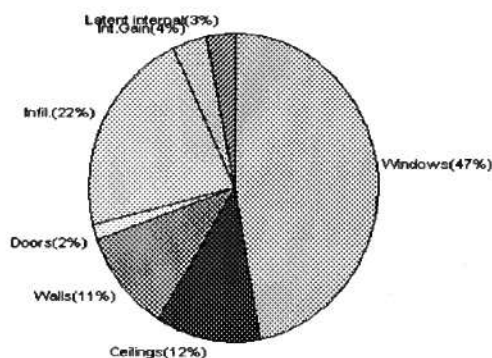
Load component		Load	
Window total	338 sqft	10867	Btuh
Wall total	1818 sqft	5972	Btuh
Door total	60 sqft	777	Btuh
Ceiling total	2573 sqft	3032	Btuh
Floor total	226 sqft	9867	Btuh
Infiltration	277 cfm	11233	Btuh
Duct loss		0	Btuh
Subtotal		41748	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		41748	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2521 sqft)

Load component		Load	
Window total	338 sqft	16904	Btuh
Wall total	1818 sqft	3793	Btuh
Door total	60 sqft	588	Btuh
Ceiling total	2573 sqft	4261	Btuh
Floor total		0	Btuh
Infiltration	143 cfm	2659	Btuh
Internal gain		1380	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		29585	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		5221	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		6421	Btuh
TOTAL HEAT GAIN		36005	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *John Smith*

DATE: *6-20-06*

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Cronauer, Jack & Vickie Residence

Project Title:
606152ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Columbia, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

6/20/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
2	2, Clear, Metal, 0.87	N	10.0		32.2	322 Btuh
3	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
4	2, Clear, Metal, 0.87	W	10.0		32.2	322 Btuh
5	2, Clear, Metal, 0.87	NW	90.0		32.2	2897 Btuh
6	2, Clear, Metal, 0.87	NE	6.0		32.2	193 Btuh
7	2, Clear, Metal, 0.87	NE	16.0		32.2	515 Btuh
8	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
9	2, Clear, Metal, 0.87	SE	13.3		32.2	428 Btuh
10	2, Clear, Metal, 0.87	SE	12.5		32.2	402 Btuh
11	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
12	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
13	2, Clear, Metal, 0.87	SE	2.8		32.2	90 Btuh
14	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
Window Total			338(sqft)			10867 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1662		3.3	5459 Btuh
2	Frame - Wood - Ext(0.09)	13.0	156		3.3	512 Btuh
Wall Total			1818			5972 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2573		1.2	3032 Btuh
Ceiling Total			2573			3032Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	226.0 ft(p)		43.7	9867 Btuh
Floor Total			226			9867 Btuh
Zone Envelope Subtotal:						30515 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	
	Natural	0.66	25210		277.3	11233 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					41748 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Cronauer, Jack & Vickie Residence

Project Title:
606152ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Columbia, FL

6/20/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	41748 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	41748 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Cronauer, Jack & Vickie Residence

Project Title:
606152ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Columbia, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

6/20/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
2	2, Clear, Metal, 0.87	N	10.0		32.2	322 Btuh
3	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
4	2, Clear, Metal, 0.87	W	10.0		32.2	322 Btuh
5	2, Clear, Metal, 0.87	NW	90.0		32.2	2897 Btuh
6	2, Clear, Metal, 0.87	NE	6.0		32.2	193 Btuh
7	2, Clear, Metal, 0.87	NE	16.0		32.2	515 Btuh
8	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
9	2, Clear, Metal, 0.87	SE	13.3		32.2	428 Btuh
10	2, Clear, Metal, 0.87	SE	12.5		32.2	402 Btuh
11	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
12	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
13	2, Clear, Metal, 0.87	SE	2.8		32.2	90 Btuh
14	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
Window Total			338(sqft)			10867 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1662		3.3	5459 Btuh
2	Frame - Wood - Ext(0.09)	13.0	156		3.3	512 Btuh
Wall Total			1818			5972 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2573		1.2	3032 Btuh
Ceiling Total			2573			3032Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	226.0 ft(p)		43.7	9867 Btuh
Floor Total			226			9867 Btuh
Zone Envelope Subtotal:						30515 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	
	Natural	0.66	25210		277.3	11233 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					41748 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Cronauer, Jack & Vickie Residence

Project Title:
606152ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Columbia, FL

6/20/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	41748 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	41748 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Cronauer, Jack & Vickie Residence

Project Title:
606152ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Columbia, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

6/20/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	6.66	6.66	36.0	0.0	36.0	29	60	2161	Btuh
2	2, Clear, 0.87, None,N,N	N	13ft.	7ft.	10.0	0.0	10.0	29	29	290	Btuh
3	2, Clear, 0.87, None,N,N	NW	9.66	6.66	36.0	0.0	36.0	29	60	2161	Btuh
4	2, Clear, 0.87, None,N,N	W	13ft.	7ft.	10.0	10.0	0.0	29	80	290	Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	7.5ft.	90.0	0.0	90.0	29	60	5403	Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	4.5ft.	6.0	0.0	6.0	29	60	360	Btuh
7	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	16.0	0.0	16.0	29	60	961	Btuh
8	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	30.0	6.1	23.9	29	63	1670	Btuh
9	2, Clear, 0.87, None,N,N	SE	7ft.	10ft.	13.3	13.3	0.0	29	63	385	Btuh
10	2, Clear, 0.87, None,N,N	SE	7ft.	3.5ft.	12.5	12.5	0.0	29	63	362	Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	30.0	30.0	0.0	29	63	869	Btuh
12	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	15.0	15.0	0.0	29	63	434	Btuh
13	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.66	2.8	2.6	0.2	29	63	89	Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468	Btuh
	Window Total				338 (sqft)					16904 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1662.4			2.1		3467 Btuh	
2	Frame - Wood - Ext	13.0/0.09			156.0			2.1		325 Btuh	
	Wall Total			1818 (sqft)					3793 Btuh		
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
3	Insulated - Exterior				20.0			9.8		196 Btuh	
	Door Total			60 (sqft)					588 Btuh		
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			2573.0			1.7		4261 Btuh	
	Ceiling Total			2573 (sqft)					4261 Btuh		
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			226 (ft(p))			0.0		0 Btuh	
	Floor Total			226.0 (sqft)					0 Btuh		
	Zone Envelope Subtotal:									25546 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.34			25210			142.9		2659 Btuh	
Internal gain		Occupants			Btuh/occupant			Appliance		Load	
		6			X 230 +			0		1380 Btuh	
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									29585 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Cronauer, Jack & Vickie Residence

Project Title:
606152ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Columbia, FL

6/20/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	29585 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	29585 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	29585 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	5221 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6421 Btuh
	TOTAL GAIN	36005 Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Cronauer, Jack & Vickie Residence

Project Title:
606152ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

Columbia, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

6/20/2006

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	6.66	6.66	36.0	0.0	36.0	29	60	2161	Btuh
2	2, Clear, 0.87, None,N,N	N	13ft.	7ft.	10.0	0.0	10.0	29	29	290	Btuh
3	2, Clear, 0.87, None,N,N	NW	9.66	6.66	36.0	0.0	36.0	29	60	2161	Btuh
4	2, Clear, 0.87, None,N,N	W	13ft.	7ft.	10.0	10.0	0.0	29	80	290	Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	7.5ft.	90.0	0.0	90.0	29	60	5403	Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	4.5ft.	6.0	0.0	6.0	29	60	360	Btuh
7	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	16.0	0.0	16.0	29	60	961	Btuh
8	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	30.0	6.1	23.9	29	63	1670	Btuh
9	2, Clear, 0.87, None,N,N	SE	7ft.	10ft.	13.3	13.3	0.0	29	63	385	Btuh
10	2, Clear, 0.87, None,N,N	SE	7ft.	3.5ft.	12.5	12.5	0.0	29	63	362	Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	30.0	30.0	0.0	29	63	869	Btuh
12	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	15.0	15.0	0.0	29	63	434	Btuh
13	2, Clear, 0.87, None,N,N	SE	1.5ft.	2.66	2.8	2.6	0.2	29	63	89	Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468	Btuh
	Window Total				338 (sqft)					16904 Btuh	
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load	
1	Frame - Wood - Ext		13.0/0.09		1662.4			2.1		3467 Btuh	
2	Frame - Wood - Ext		13.0/0.09		156.0			2.1		325 Btuh	
	Wall Total				1818 (sqft)					3793 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
3	Insulated - Exterior				20.0			9.8		196 Btuh	
	Door Total				60 (sqft)					588 Btuh	
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle		30.0		2573.0			1.7		4261 Btuh	
	Ceiling Total				2573 (sqft)					4261 Btuh	
Floors	Type		R-Value		Size			HTM		Load	
1	Slab On Grade		0.0		226 (ft(p))			0.0		0 Btuh	
	Floor Total				226.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:									25546 Btuh	
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load	
	SensibleNatural		0.34		25210			142.9		2659 Btuh	
Internal gain			Occupants		Btuh/occupant			Appliance		Load	
			6		X 230 +			0		1380 Btuh	
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)									DGM = 0.00	
	Sensible Zone Load									29585 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Cronauer, Jack & Vickie Residence
Columbia, FL

Project Title:
606152ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

6/20/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	29585 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	29585 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	29585 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	5221 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6421 Btuh
	TOTAL GAIN	36005 Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Cronauer, Jack & Vickie Residence

Project Title:
606152ZecherBryan

Class 3 Rating
Registration No. 0
Climate: North

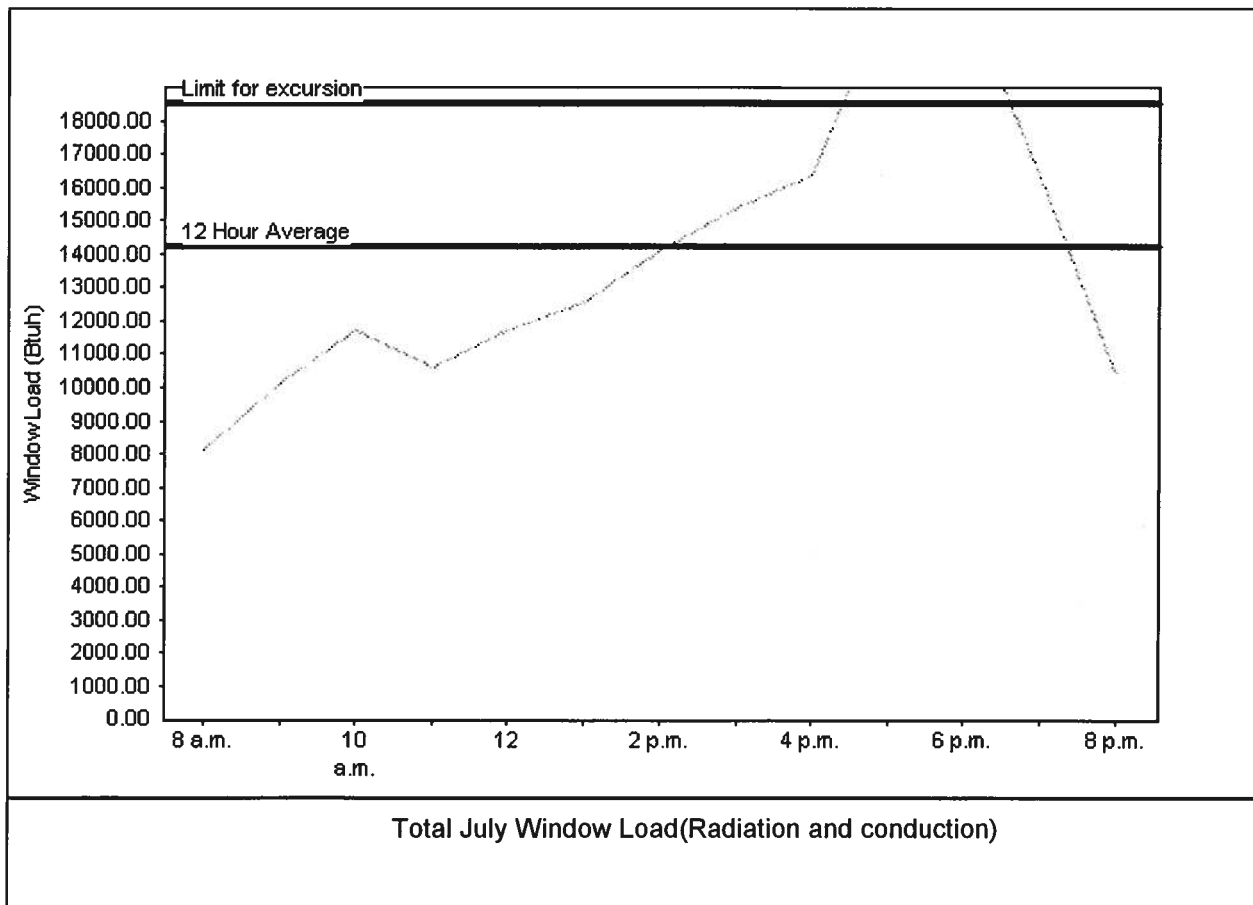
Columbia, FL

6/20/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	14237 Btu
Summer setpoint	75 F	Peak window load for July	22107 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	18508 Btu
Latitude	29 North	Window excursion (July)	3599 Btuh

WINDOW Average and Peak Loads



This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *Ben Crandall*

DATE: *6-20-06*



24890

Notice of Treatment

12/89

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)Address: BAYA AVECity: LAKE CITY Phone: 752-1703Site Location: Subdivision STAR LAKE

Lot # _____ Block# _____ Permit # _____

Address 393 NW SYLVI DRProduct usedActive Ingredient% Concentration☐ Premise Imidacloprid 0.1%☐ Termidor Fipronil 0.12%☒ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

2915

Type treatment:

☐ Soil☒ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line JOP.1/5/07
Date1000
TimeJAMES D. PARKER
Print Technician's NameRemarks: F254 "GUNNY"

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



Notice of Treatment

12189

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**

Address: BAYA AVE

City Lake City Phone 752-1703

Site Location: Subdivision STAR LAKE

Lot # 13 Block# 1 Permit # 24890

Address 393 NW SYLVIA DR

Product used

Active Ingredient

% Concentration

☐ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☒ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☐ Soil

☒ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Dwelling

3581

1088

8

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

11/2/06
Date

11:00
Time

F254
Print Technician's Name

Remarks: AT TREATMENT - Form Boards in Shower Floor

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 28-3S-16-02372-063

Building permit No. 000024890

Use Classification SFD, UTILITY

Fire: 44.64

Permit Holder BRYAN ZECHER

Waste: 134.00

Owner of Building JOHN & VICKI CRONAUER

Total: 178.64

Location: 393 NW SYLVI DRIVE (STAR LAKE EST., LOT 13)

Date: 02/01/2007



John Zeche

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Project Information for:

Builder: BRYAN ZECHER Date: 6/14/2006
 Lot: LOT 13 STAR LAKE ESTATES Start Number: 1078
 Subdivision: N/A
 County or City: COLUMBIA COUNTY
 Truss Page Count: 47

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)

ZECHER, BRYAN C. CBC 054575
 Address: PO BOX 815 Designer: 167
 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

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.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0614061078	6/14/2006	41	T15	0614061118	6/14/2006
2	CJ3	0614061079	6/14/2006	42	T16	0614061119	6/14/2006
3	CJ3T	0614061080	6/14/2006	43	T17	0614061120	6/14/2006
4	CJ5	0614061081	6/14/2006	44	T18	0614061121	6/14/2006
5	CJ5T	0614061082	6/14/2006	45	T19	0614061122	6/14/2006
6	EJ7	0614061083	6/14/2006	46	T20	0614061123	6/14/2006
7	EJ7A	0614061084	6/14/2006	47	T21	0614061124	6/14/2006
8	EJ7B	0614061085	6/14/2006				
9	EJ7C	0614061086	6/14/2006				
10	EJ7D	0614061087	6/14/2006				
11	EJ7E	0614061088	6/14/2006				
12	EJ7T	0614061089	6/14/2006				
13	EJ7V	0614061090	6/14/2006				
14	HJ9	0614061091	6/14/2006				
15	HJ9T	0614061092	6/14/2006				
16	PB11	0614061093	6/14/2006				
17	PB12	0614061094	6/14/2006				
18	PB13	0614061095	6/14/2006				
19	PB13A	0614061096	6/14/2006				
20	PB13B	0614061097	6/14/2006				
21	PB13C	0614061098	6/14/2006				
22	PB14	0614061099	6/14/2006				
23	T01	0614061100	6/14/2006				
24	T01G	0614061101	6/14/2006				
25	T02	0614061102	6/14/2006				
26	T02G	0614061103	6/14/2006				
27	T03	0614061104	6/14/2006				
28	T03G	0614061105	6/14/2006				
29	T04	0614061106	6/14/2006				
30	T05	0614061107	6/14/2006				
31	T06	0614061108	6/14/2006				
32	T07	0614061109	6/14/2006				
33	T08	0614061110	6/14/2006				
34	T09	0614061111	6/14/2006				
35	T10	0614061112	6/14/2006				
36	T11	0614061113	6/14/2006				
37	T12	0614061114	6/14/2006				
38	T13	0614061115	6/14/2006				
39	T14	0614061116	6/14/2006				
40	T15	0614061117	6/14/2006				

JUN 14 2006

[Log On](#)[DBPR Home](#) | [Online Services Home](#) | [Help](#) | [Site Map](#)**Public Services**

10:00:13 AM

[Search for a Licensee](#)
[Apply for a License](#)
[View Application Status](#)
[Apply to Retake Exam](#)
[Find Exam Information](#)
[Find a CE Course](#)
[File a Complaint](#)
[AB&T Delinquent Invoice & Activity List Search](#)

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

User Services

[Renew a License](#)
[Change License Status](#)
[Maintain Account](#)
[Change My Address](#)
[View Messages](#)
[Change My PIN](#)
[View Continuing Ed](#)

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**

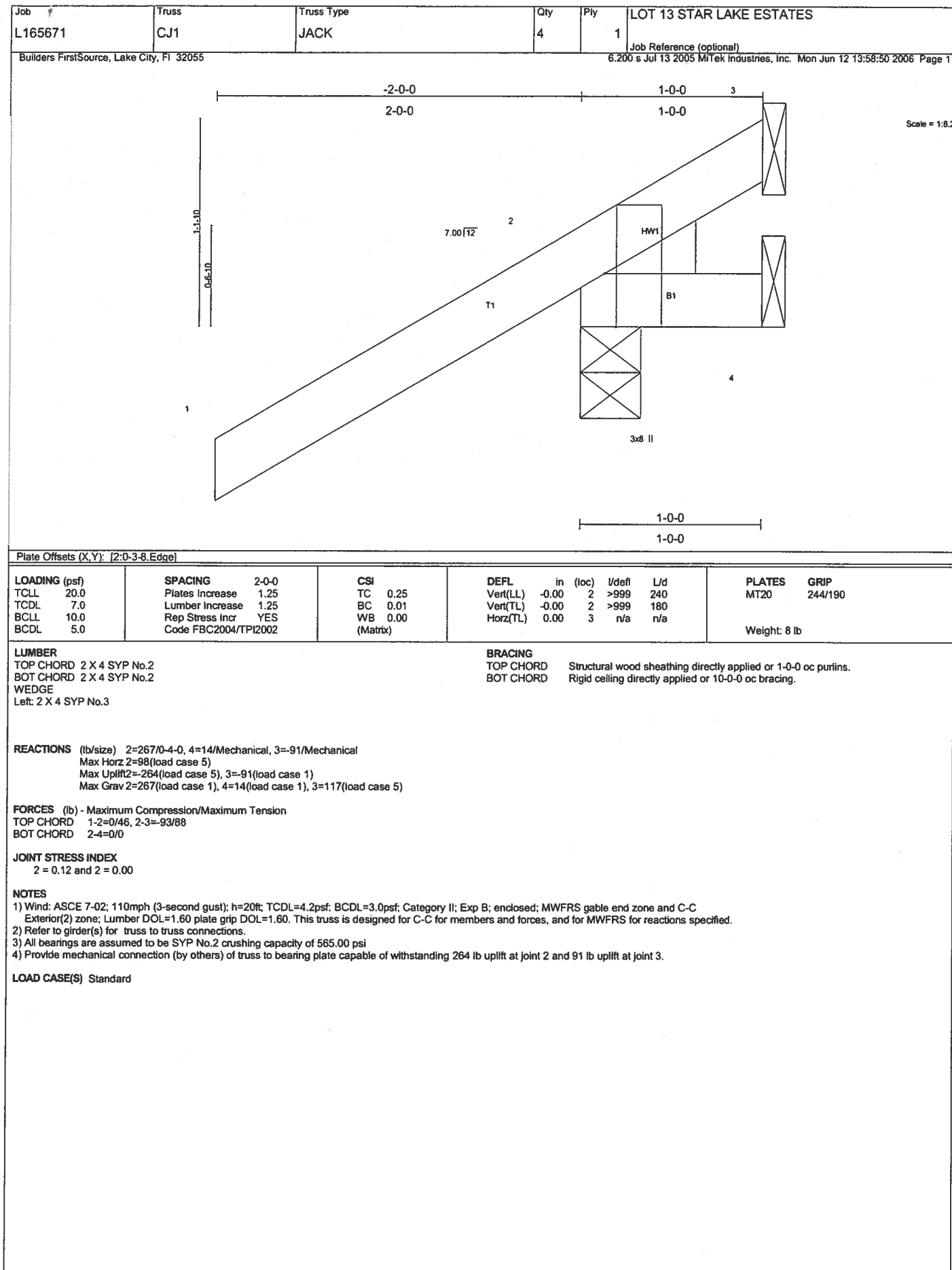
[Term Glossary](#) [Online Help](#)

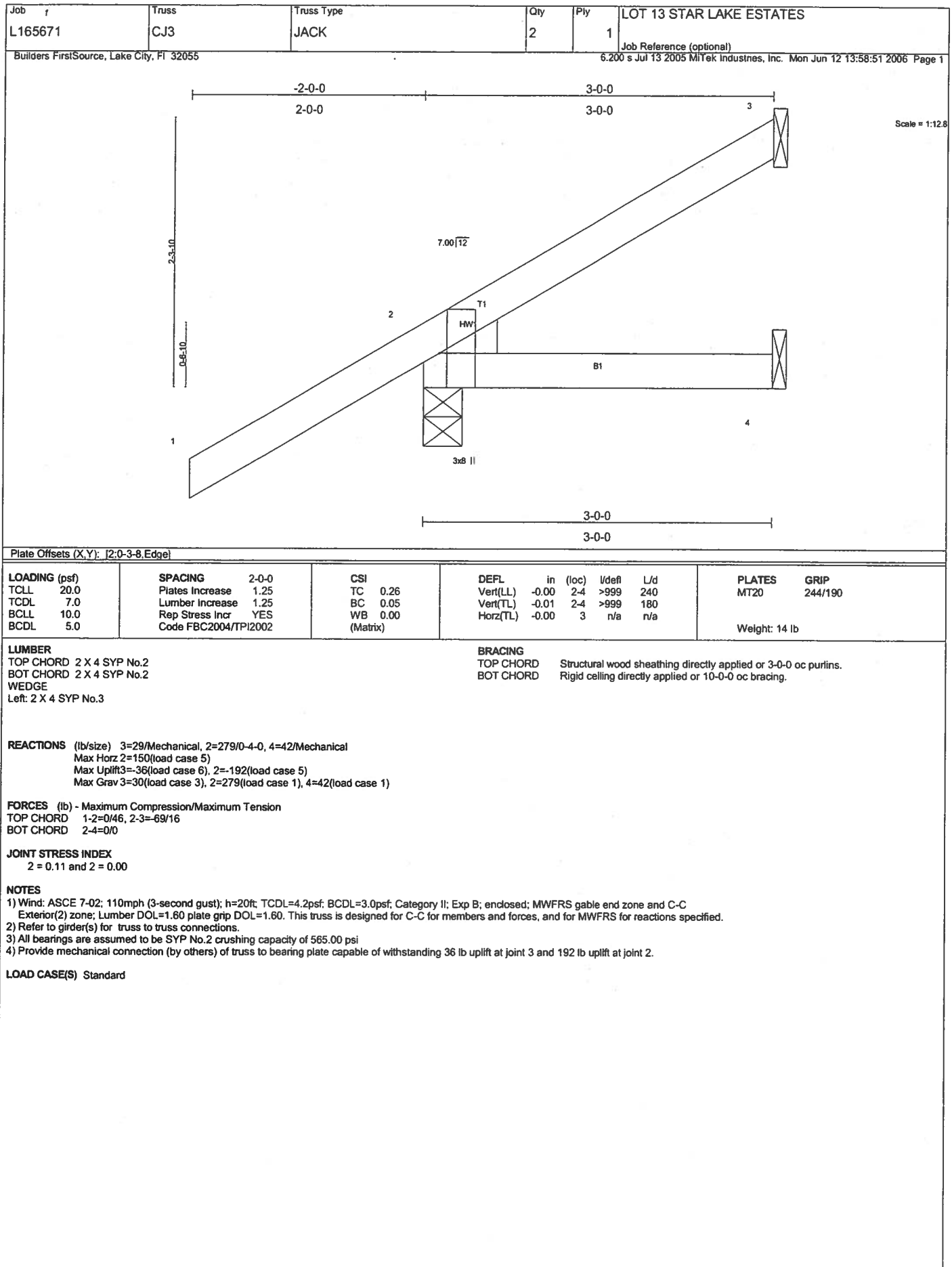
Special Qualifications	Effective Date
------------------------	----------------

Bldg Code Core Course Credit	
------------------------------	--

Qualified Business License Required	04/13/2004
-------------------------------------	------------

[View Related License Information](#)[View License Complaint](#)[New Search](#)[E](#)[Terms of Use](#) | [Privacy Statement](#)





Job L165671	Truss CJ5	Truss Type JACK	Qty 2	Ply 1	LOT 13 STAR LAKE ESTATES
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Jun 12 13:58:52 2006 Page 1		

Scale = 1:17.3

Plate Offsets (X,Y): [2:0-3-8, 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 0.26	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.16	Vert(TL)	-0.05	2-4	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002		(Matrix)						Weight: 20 lb	

LUMBER TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 WEDGE Left: 2 X 4 SYP No.3	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=204(load case 5)
 Max Uplift 3=-103(load case 5), 2=-184(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/46, 2-3=-85/42
 BOT CHORD 2-4=0/0

JOINT STRESS INDEX
 2 = 0.12 and 2 = 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; 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 103 lb uplift at joint 3 and 184 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L165671	Truss CJ5T	Truss Type SPECIAL	Qty 2	Ply 1	LOT 13 STAR LAKE ESTATES
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jun 12 13:58:53 2006 Page 1		

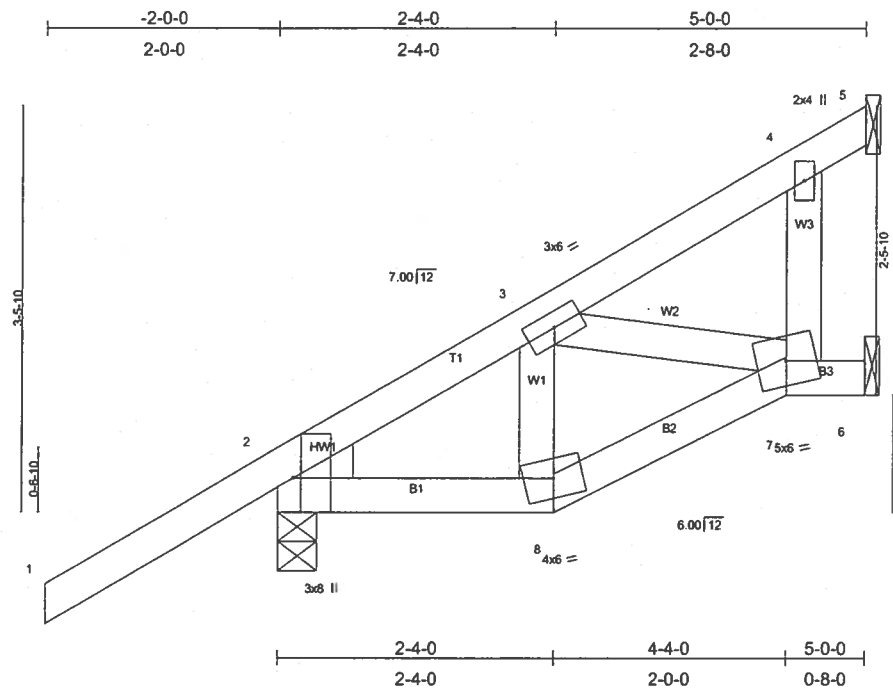


Plate Offsets (X,Y): [2:0-3:8,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	0.01	7	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.11	Vert(TL)	0.01	7	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.04	Horz(TL)	0.00	6	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 28 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
 WEDGE
 Left: 2 X 4 SYP No.3

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) 5=165/Mechanical, 2=344/0-4-0, 6=9/Mechanical
 Max Horz 2=204(load case 5)
 Max Uplift 5=91(load case 5), 2=184(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/46, 2-3=-208/0, 3-4=-61/0, 4-5=-53/82
 BOT CHORD 2-8=-56/114, 7-8=-81/138, 6-7=0/0
 WEBS 3-8=-17/39, 4-7=-30/121, 3-7=-107/51

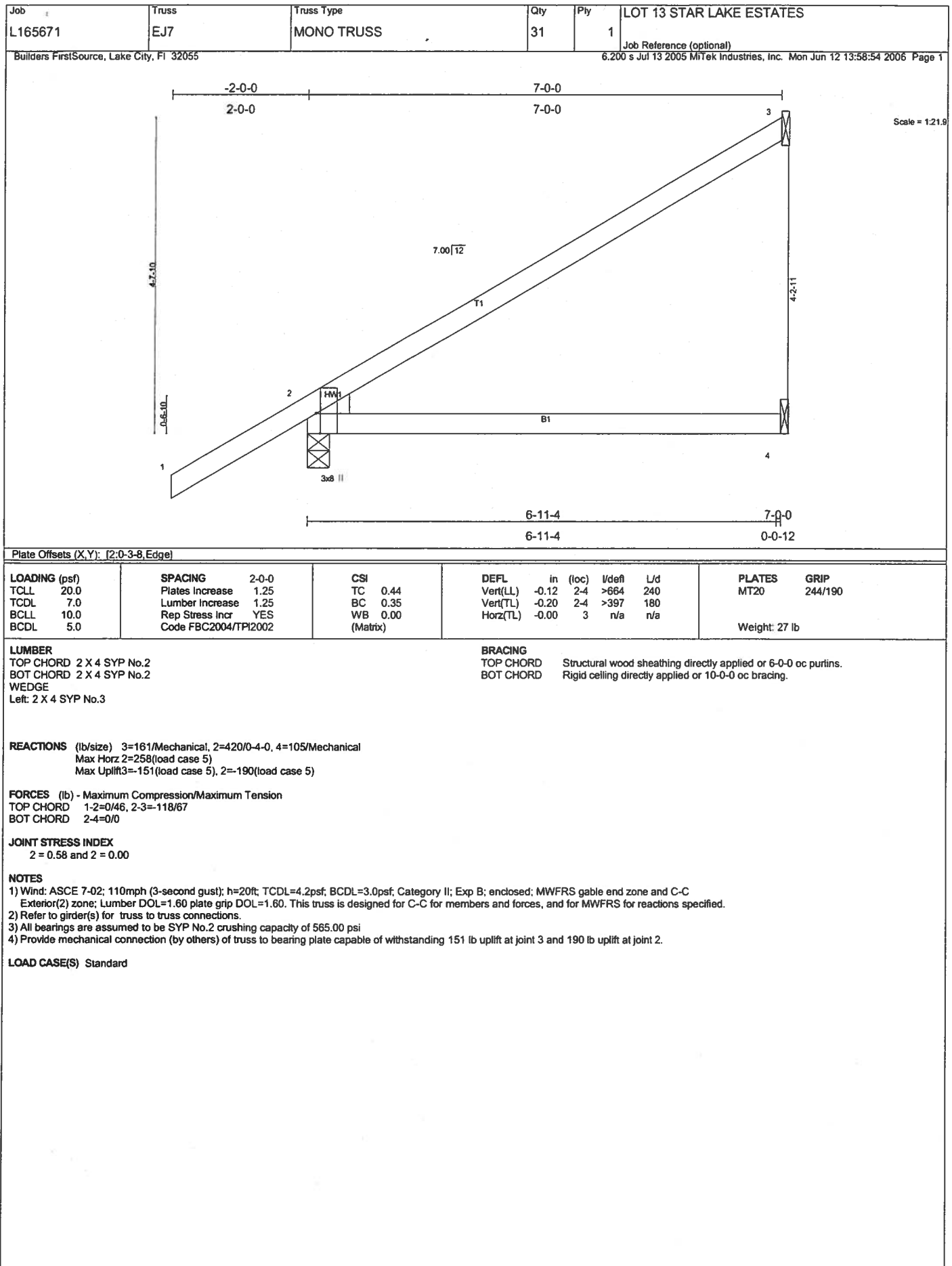
JOINT STRESS INDEX

2 = 0.15, 2 = 0.00, 3 = 0.03, 4 = 0.08, 7 = 0.05 and 8 = 0.04

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) 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 91 lb uplift at joint 5 and 184 lb uplift at joint 2.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	LOT 13 STAR LAKE ESTATES
L165671	EJ7A	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055

6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Jun 12 13:58:55 2006 Page 1

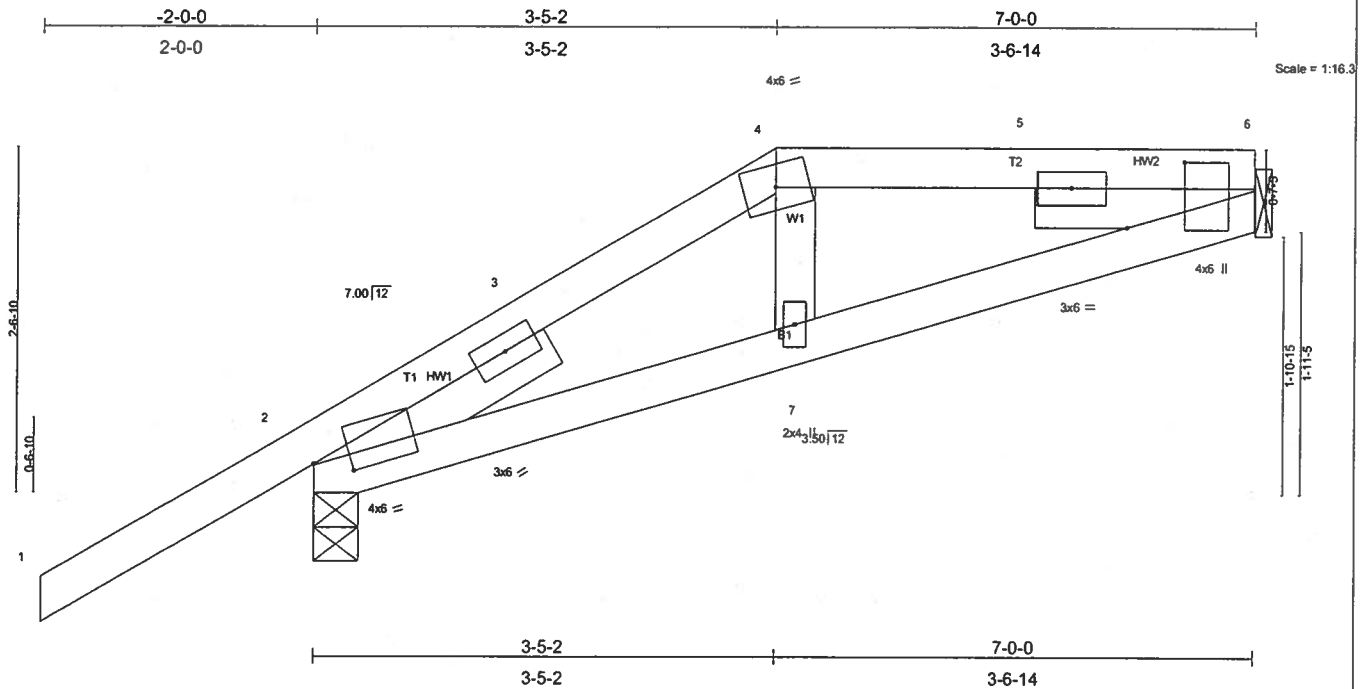


Plate Offsets (X,Y): [2-0-3-5-0-1-9], [6-0-5-13-0-5-2]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.24	Vert(LL)	0.01	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.16	Vert(TL)	-0.01	6-7	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.03	Horz(TL)	0.00	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 33 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
 SLIDER Left 2 X 4 SYP No.3 1-11-14, Right 2 X 4 SYP No.3 1-7-11

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) 6=277/Mechanical, 2=423/0-4-0
 Max Horz 2=154(load case 5)
 Max Uplift 6=102(load case 6), 2=220(load case 5)

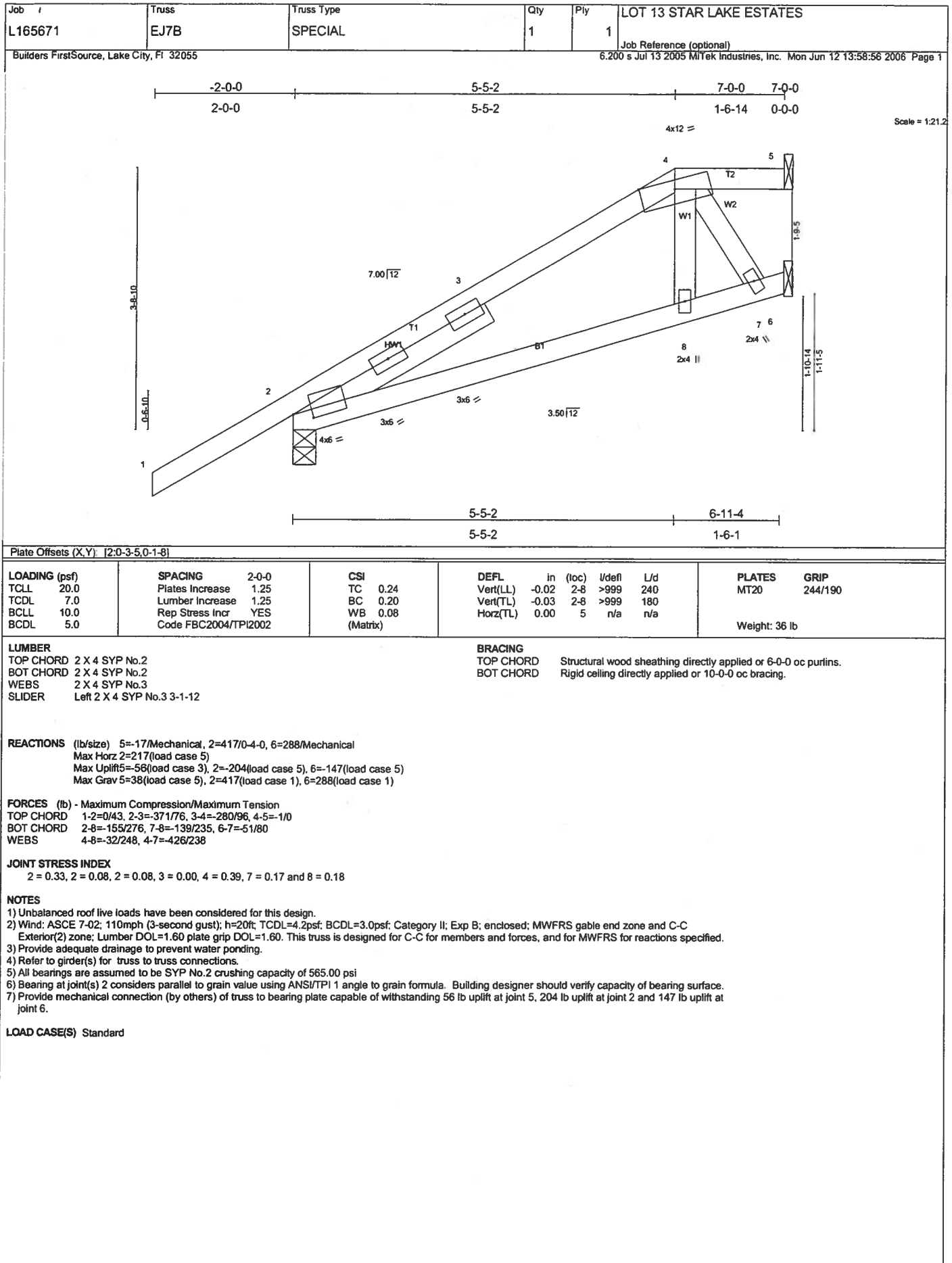
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/43, 2-3=-499/199, 3-4=-443/209, 4-5=-367/201, 5-6=-378/201
 BOT CHORD 2-7=-192/383, 6-7=-191/397
 WEBS 4-7=0/100

JOINT STRESS INDEX
 2 = 0.38, 2 = 0.20, 3 = 0.00, 4 = 0.16, 5 = 0.00, 6 = 0.27, 6 = 0.14 and 7 = 0.07

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) 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 6 and 220 lb uplift at joint 2.

LOAD CASE(S) Standard



Job L165671	Truss EJ7C	Truss Type SPECIAL	Qty 3	Ply 1	LOT 13 STAR LAKE ESTATES
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Jun 12 13:58:57 2006 Page 1		

Scale = 1:21.9

Plate Offsets (X,Y): [2-0-3-8,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 0.34	Vert(LL)	0.09	7	>865	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.46	Vert(TL)	-0.14	7	>586	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.05	Horz(TL)	0.03	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002		(Matrix)							
Weight: 35 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

WEDGE

Left 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) 5=143/Mechanical, 2=420/0-4-0, 6=123/Mechanical
 Max Horz 2=258(load case 5)
 Max Uplift 5=102(load case 5), 2=-190(load case 5), 6=-44(load case 5)

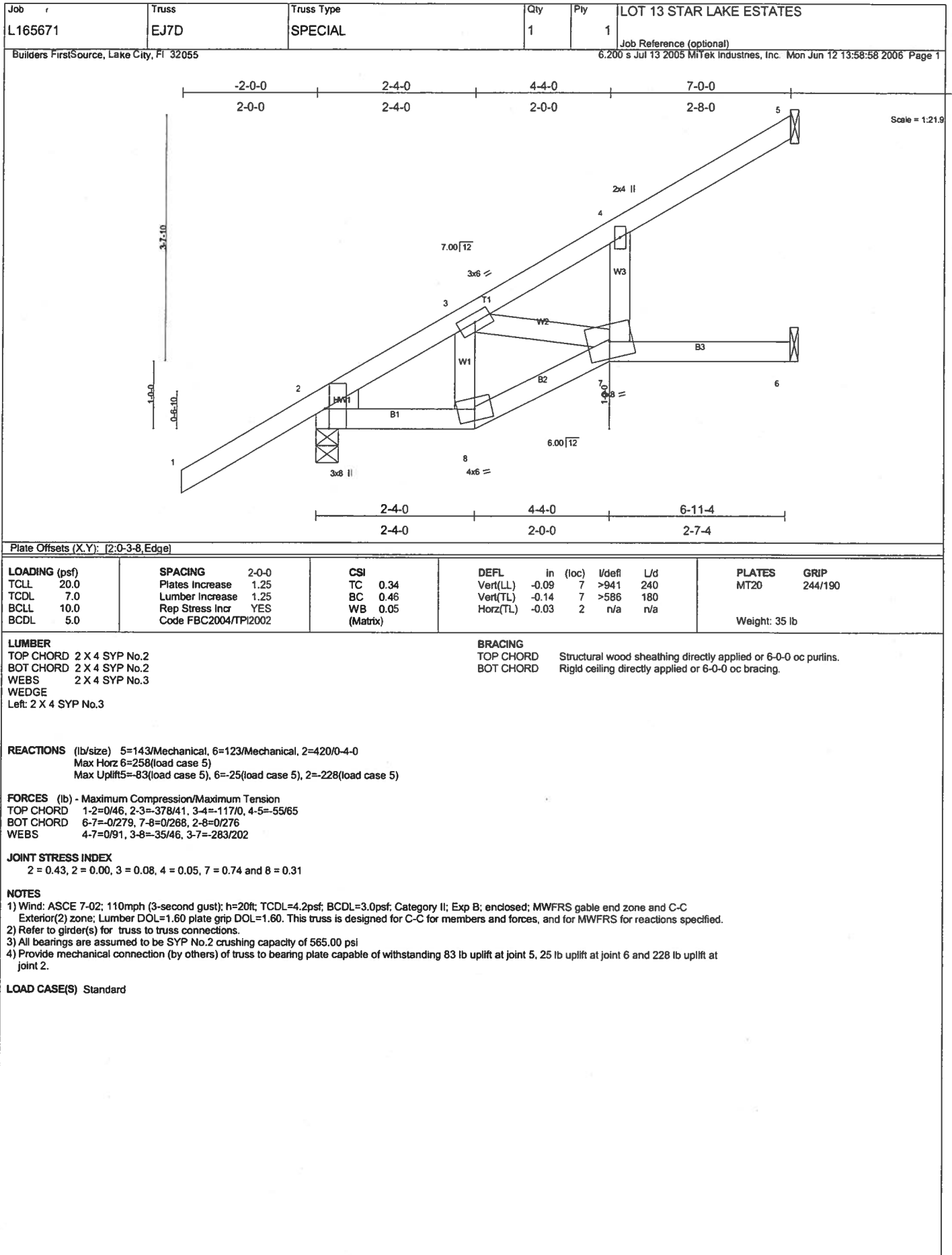
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/46, 2-3=-378/10, 3-4=-100/0, 4-5=-65/65
 BOT CHORD 2-8=-147/276, 7-8=-128/268, 6-7=0/0
 WEBS 3-8=0/46, 4-7=0/58, 3-7=-283/150

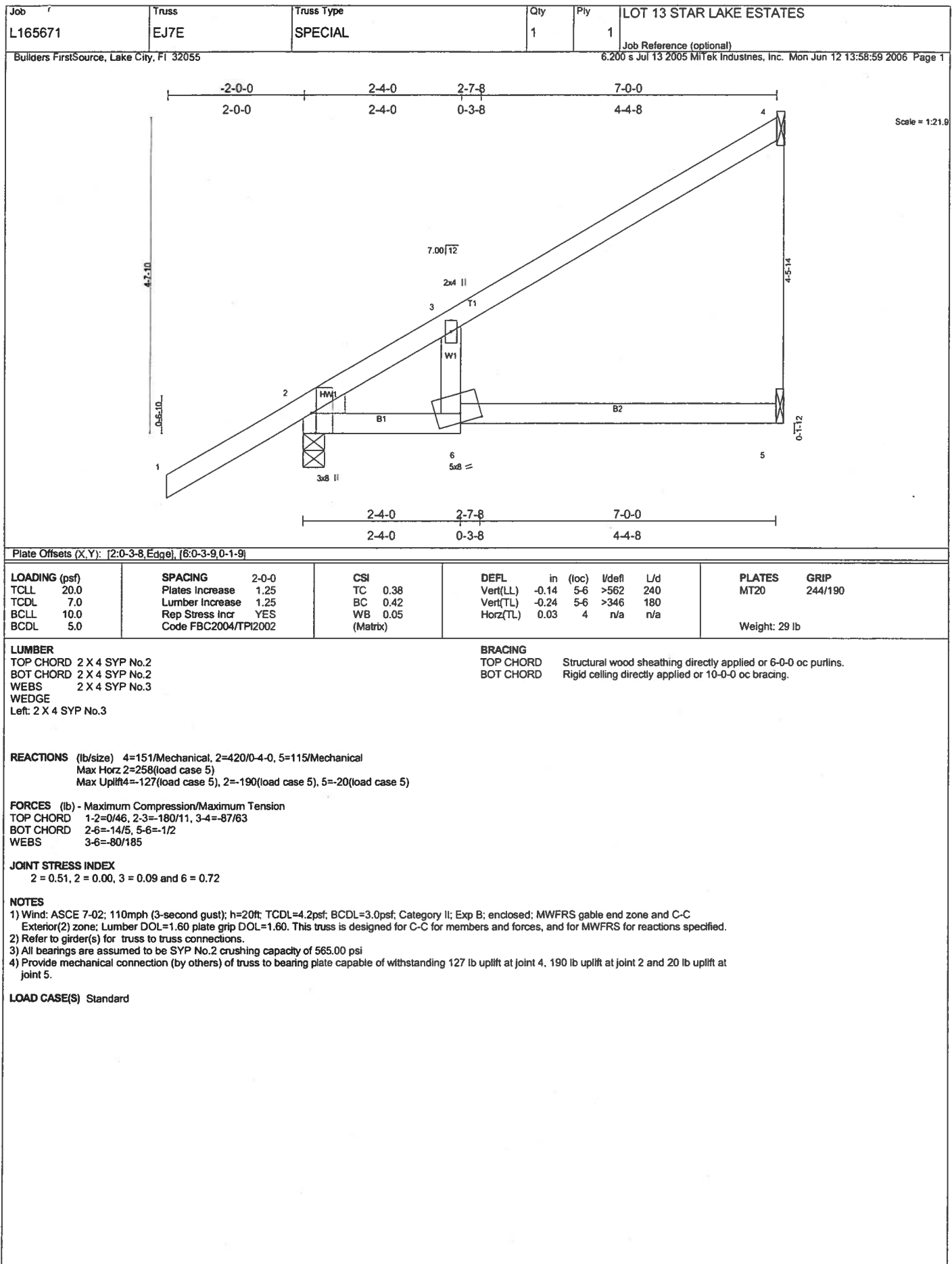
JOINT STRESS INDEX
 2 = 0.43, 2 = 0.00, 3 = 0.07, 4 = 0.04, 7 = 0.74 and 8 = 0.31

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) 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 102 lb uplift at joint 5, 190 lb uplift at joint 2 and 44 lb uplift at joint 6.

LOAD CASE(S) Standard





Job L165671	Truss EJ7T	Truss Type SPECIAL	Qty 5	Ply 1	LOT 13 STAR LAKE ESTATES
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mittek Industries, Inc. Mon Jun 12 13:59:00 2006 Page 1		

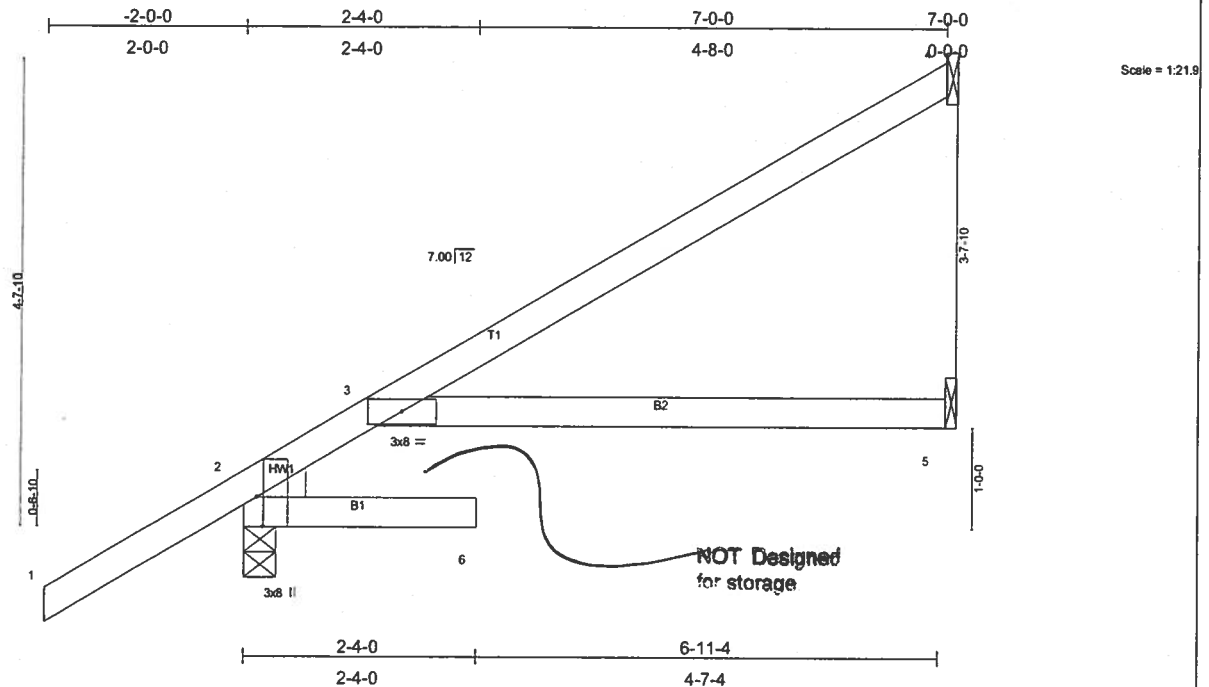


Plate Offsets (X,Y): [2-0-3-8,Edge]

LOADING (psf)	SPACING	CSI	DEFL	In	(loc)	V/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	Vert(LL)	-0.18	6	>449	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.42	Vert(TL)	-0.30	6	>269	180		
BCCL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	0.12	5	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002							Weight: 28 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

WEDGE

Left: 2 X 4 SYP No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

REACTIONS (lb/size) 4=158/Mechanical, 2=442/0-4-0, 5=115/Mechanical

Max Horz 2=258(load case 5)

Max Uplift 4=133(load case 5), 2=-186(load case 5), 5=-12(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/46, 2-3=168/0, 3-4=97/65

BOT CHORD 2-6=0/0, 3-5=0/0

JOINT STRESS INDEX

2 = 0.44, 2 = 0.00 and 3 = 0.76

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) 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 133 lb uplift at joint 4, 186 lb uplift at joint 2 and 12 lb uplift at joint 5.

LOAD CASE(S) Standard

Job L165671	Truss EJ7V	Truss Type MONO SCISSOR	Qty 3	Ply 1	LOT 13 STAR LAKE ESTATES
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Jun 12 13:59:01 2006 Page 1		

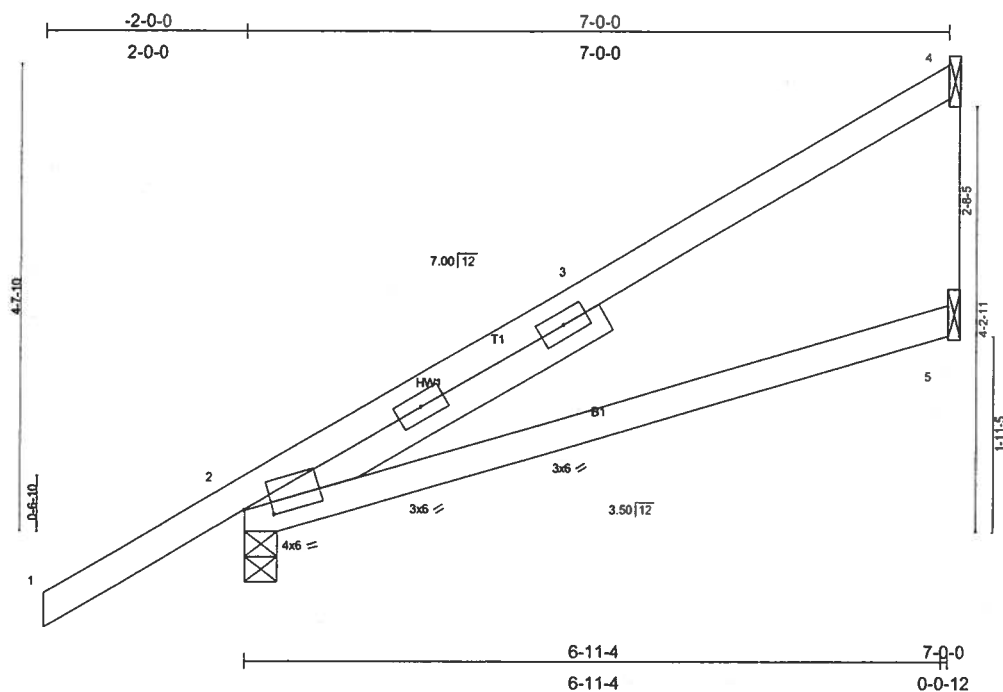


Plate Offsets (X,Y): [2-0-3-5,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	Vert(LL)	-0.11	2-5	>744	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.30	Vert(TL)	-0.18	2-5	>447	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	0.02	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 33 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 SLIDER Left 2 X 4 SYP No.3 4-0-11

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) 4=173/Mechanical, 2=417/0-4-0, 5=98/Mechanical
 Max Horz 2=256(load case 5)
 Max Uplift 4=154(load case 5), 2=183(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/43, 2-3=-112/10, 3-4=-96/68
 BOT CHORD 2-5=30/22

JOINT STRESS INDEX

2 = 0.52, 2 = 0.06, 2 = 0.06 and 3 = 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; 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 4 and 183 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 13 STAR LAKE ESTATES
L165671	HJ9	ROOF TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055

6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jun 12 13:59:02 2006 Page 1

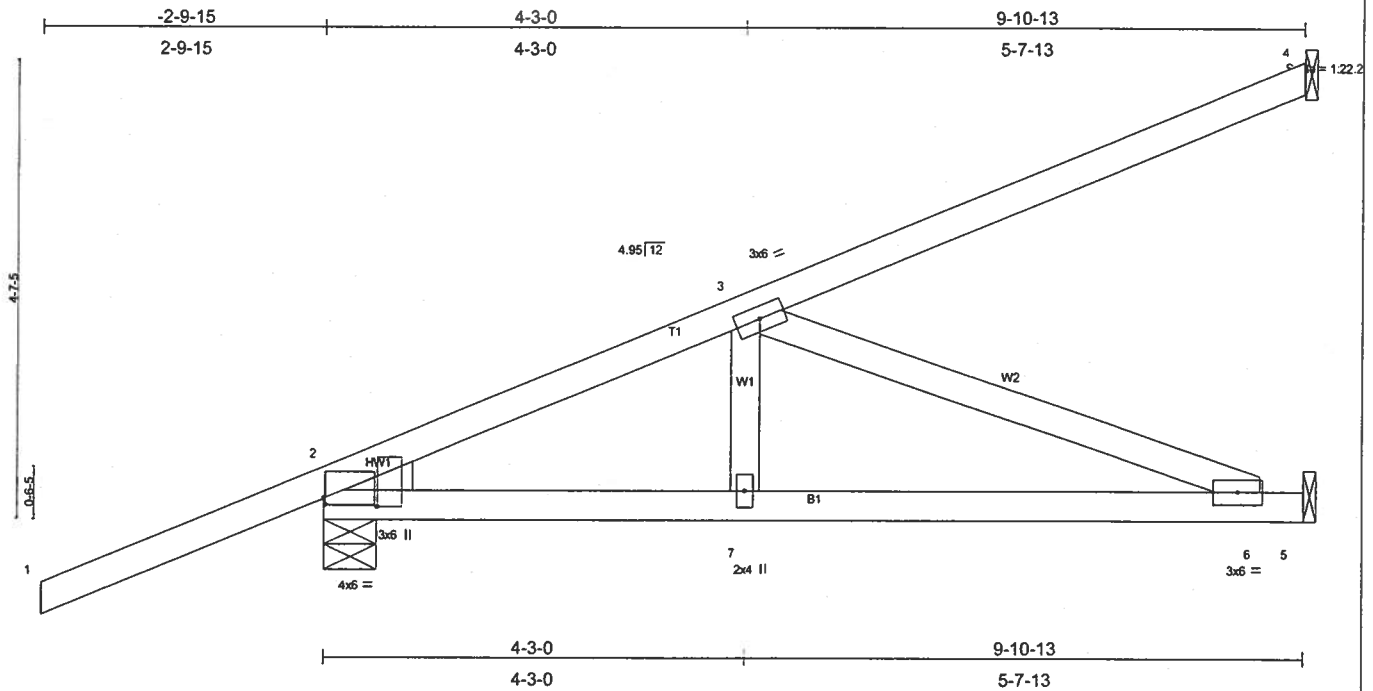


Plate Offsets (X,Y): [2:0-0-3,0-0-12], [2:0-1-0.0-6-8]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl l/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.81	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 >662 180		
BCLL 10.0	Rep Stress Incr NO	WB 0.39	Horz(TL) 0.01 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**

WEDGE

Left: 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS (lb/size) 4=269/Mechanical, 2=537/0-6-7, 5=373/Mechanical

Max Horz 2=308(load case 4)

Max Uplift4=-248(load case 4), 2=-257(load case 4), 5=-77(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/49, 2-3=-718/48, 3-4=-126/75

BOT CHORD 2-7=-281/634, 6-7=-281/634, 5-6=0/0

WEBS 3-7=0/189, 3-6=-678/300

JOINT STRESS INDEX

2 = 0.71, 2 = 0.40, 3 = 0.18, 6 = 0.18 and 7 = 0.14

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) 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 248 lb uplift at joint 4, 257 lb uplift at joint 2 and 77 lb uplift at joint 5.

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=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 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**

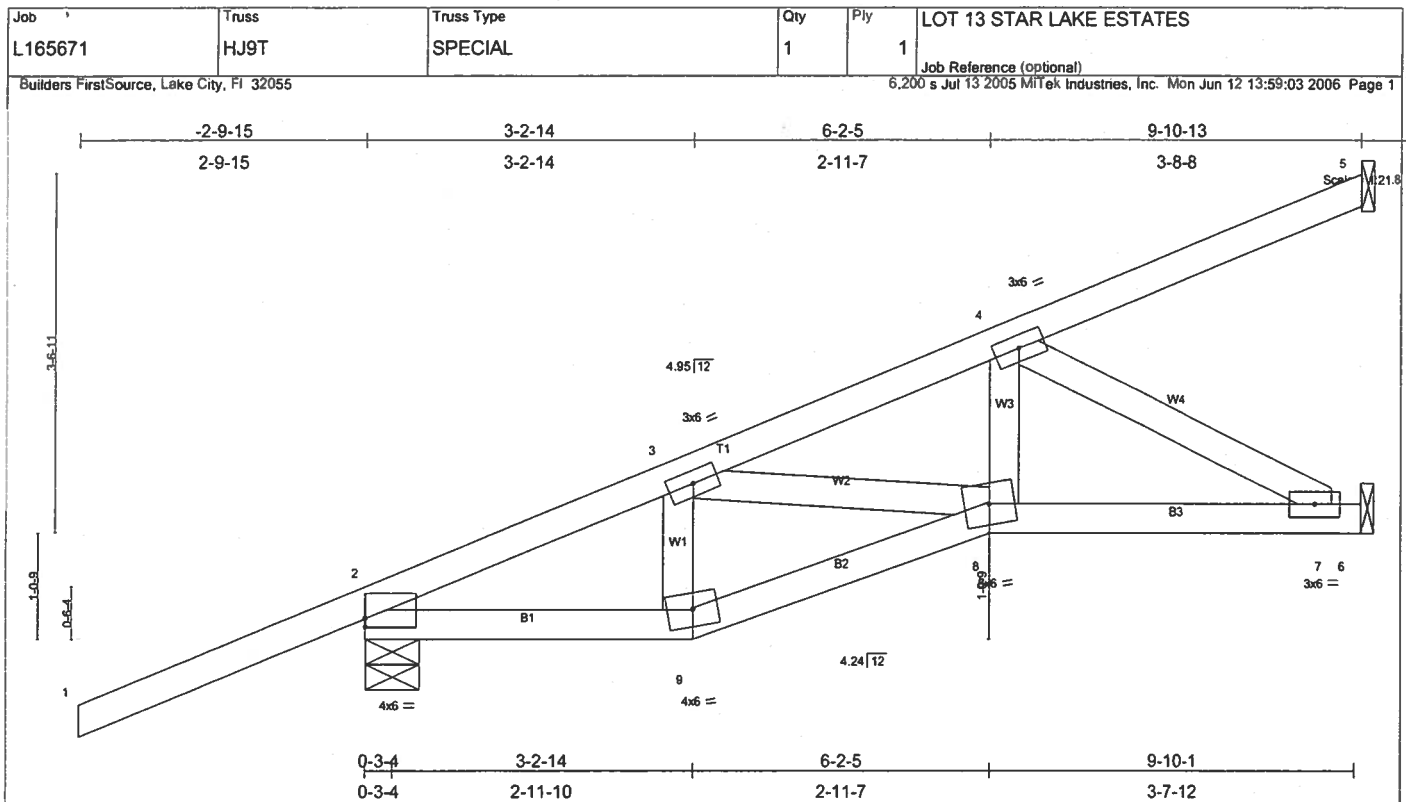


Plate Offsets (X,Y): [2-0-0-1-0-0-15]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	Vert(LL)	-0.03	7-8	>999	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.47	Vert(TL)	-0.05	7-8	>999		
BCLL 10.0	Lumber Increase 1.25	WB 0.23	Horz(TL)	-0.02	5	n/a		
BCDL 5.0	Rep Stress Incr NO	(Matrix)						
	Code FBC2004/TPI2002							
							Weight: 50 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 10-0-0 oc bracing.

REACTIONS (lb/size) 5=175/Mechanical, 6=467/Mechanical, 2=537/0-6-7
 Max Horz 6=306(load case 4)
 Max Uplift 5=160(load case 4), 6=131(load case 4), 2=291(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/49, 2-3=529/22, 3-4=831/109, 4-5=84/49
 BOT CHORD 7-8=38/726, 6-7=0/306, 8-9=0/478, 2-9=0/438
 WEBS 4-7=826/345, 4-8=0/345, 3-9=175/58, 3-8=95/336

JOINT STRESS INDEX
 2 = 0.62, 3 = 0.17, 4 = 0.25, 7 = 0.23, 8 = 0.52 and 9 = 0.28

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) 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 160 lb uplift at joint 5, 131 lb uplift at joint 6 and 291 lb uplift at joint 2.
- 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

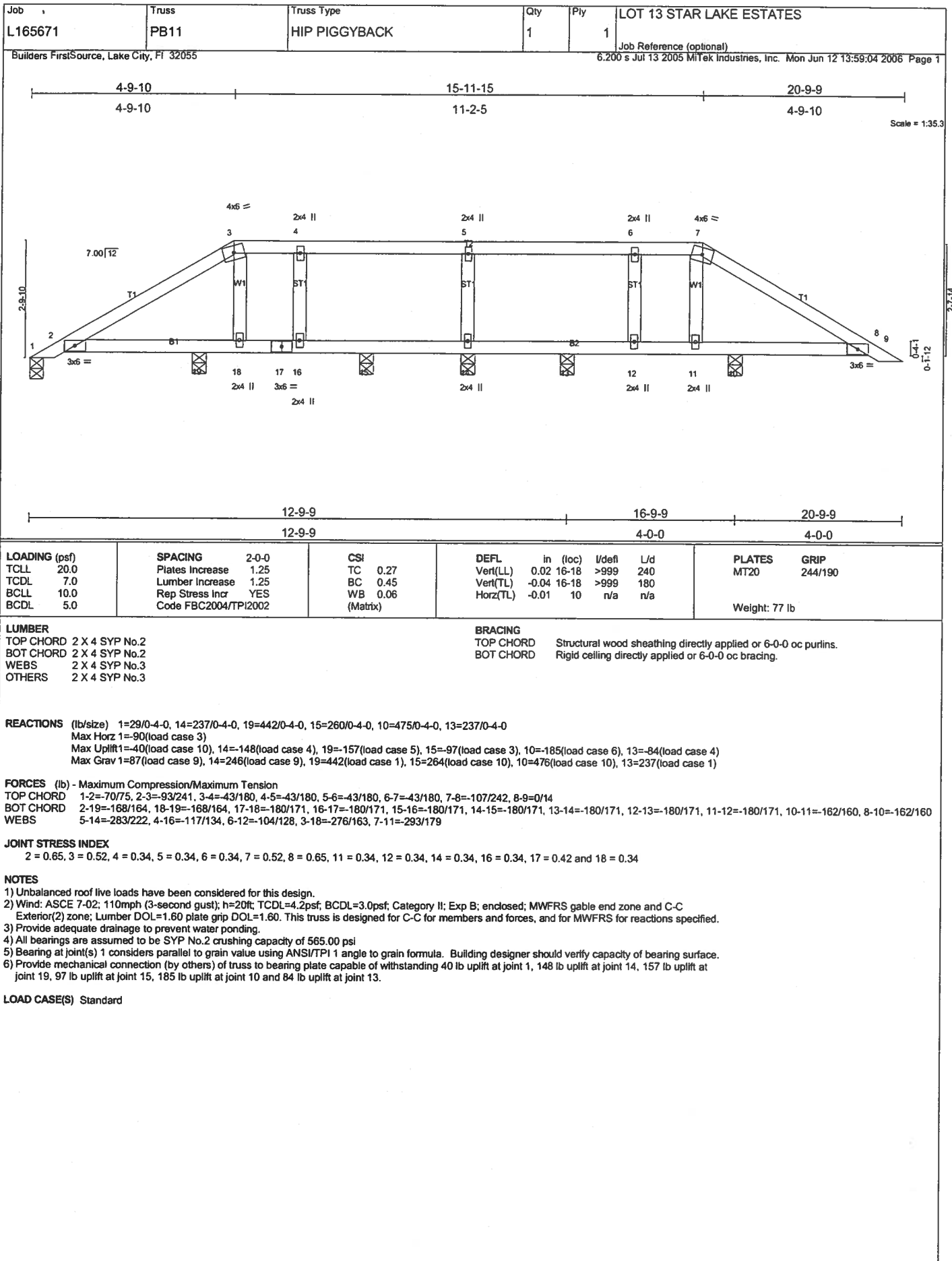
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

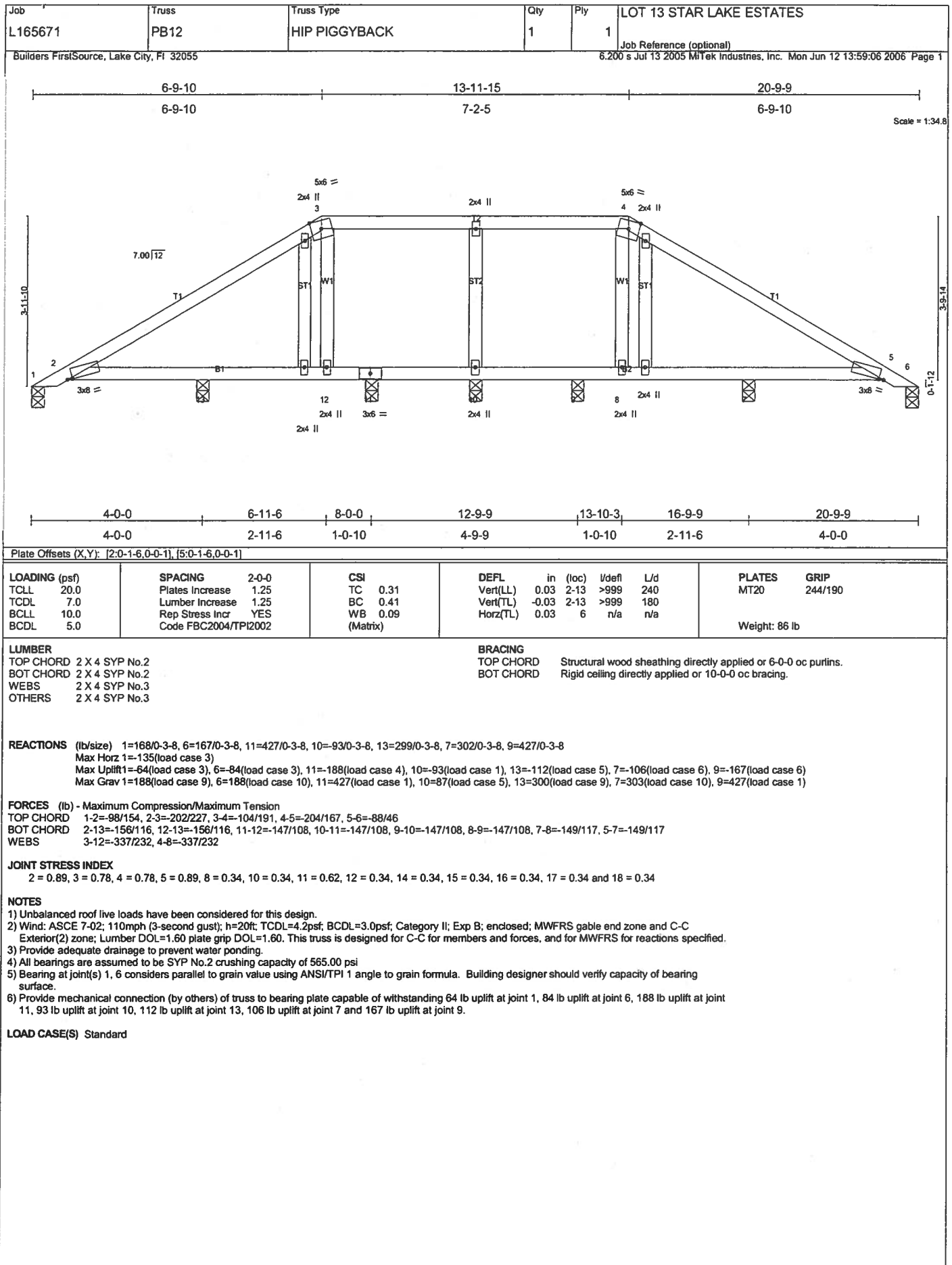
Uniform Loads (plf)

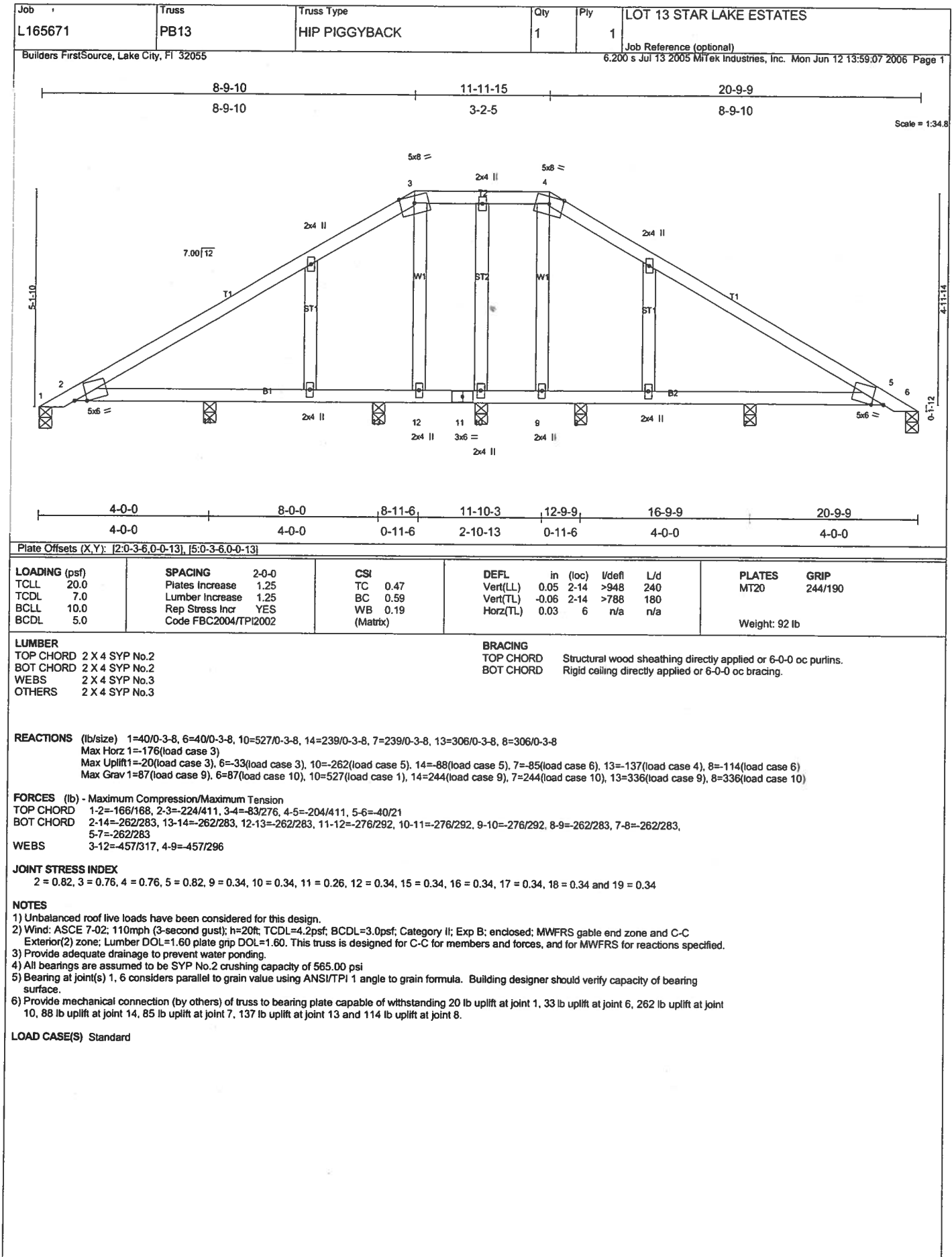
Vert: 1-2=-54

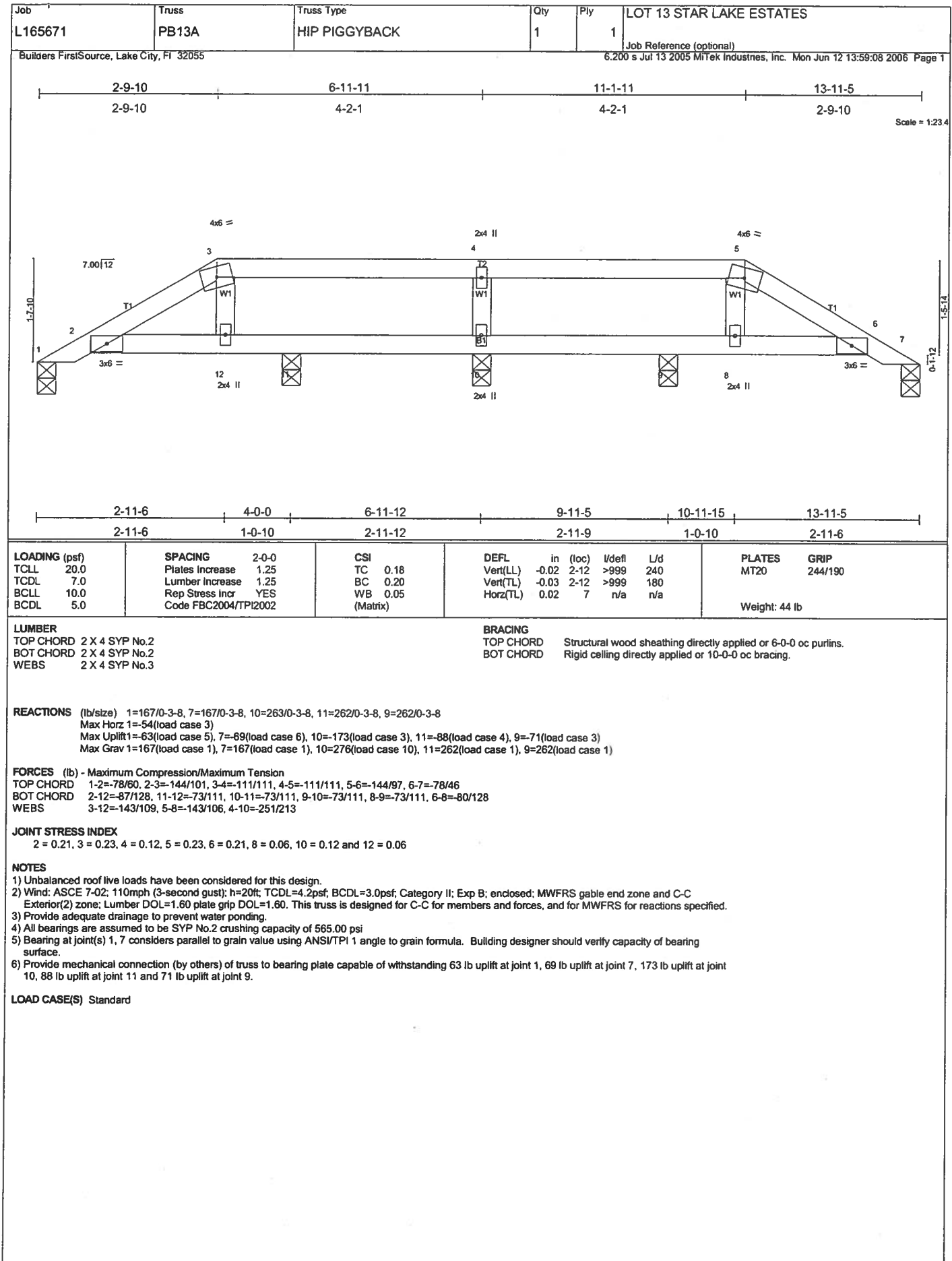
Trapezoidal Loads (plf)

Vert: 2=4(F=25, B=25)-to-5=-134(F=-40, B=-40), 8=-46(F=-8, B=-8)-to-6=-74(F=-22, B=-22), 9=-23(F=3, B=3)-to-8=-46(F=-8, B=-8), 2=0(F=15, B=15)-to-9=-23(F=3, B=3)



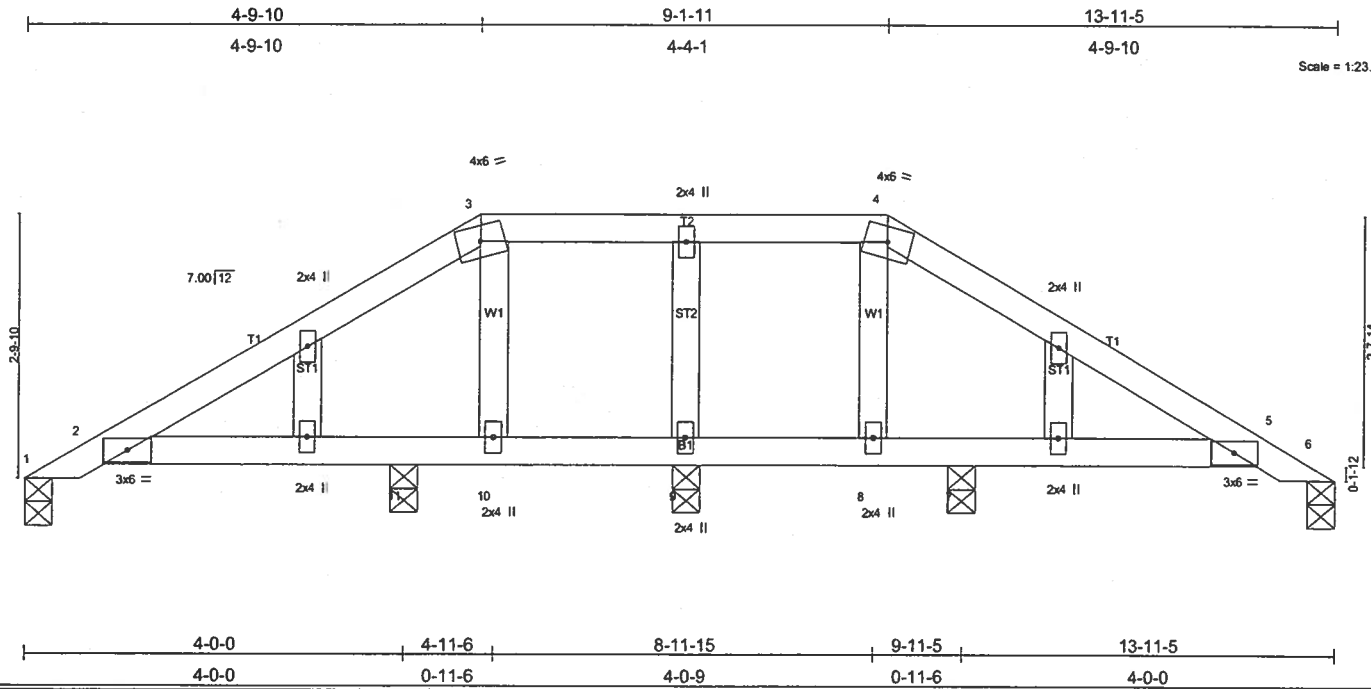






Job L165671	Truss PB13B	Truss Type HIP PIGGYBACK	Qty 1	Ply 1	LOT 13 STAR LAKE ESTATES
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jun 12 13:59:10 2006 Page 1		

Scale = 1:23.4



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 0.24	Vert(LL) 0.01 2-11 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.05	Vert(TL) -0.02 2-11 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 6 n/a n/a		
	Code FBC2004/TPI2002				Weight: 54 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.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=105/0-3-8, 6=105/0-3-8, 9=238/0-3-8, 11=337/0-3-8, 7=337/0-3-8
 Max Horz 1=95(load case 3)
 Max Uplift 1=33(load case 6), 6=53(load case 3), 9=55(load case 5), 11=129(load case 5), 7=119(load case 6)
 Max Grav 1=120(load case 9), 6=120(load case 10), 9=238(load case 1), 11=339(load case 9), 7=339(load case 10)

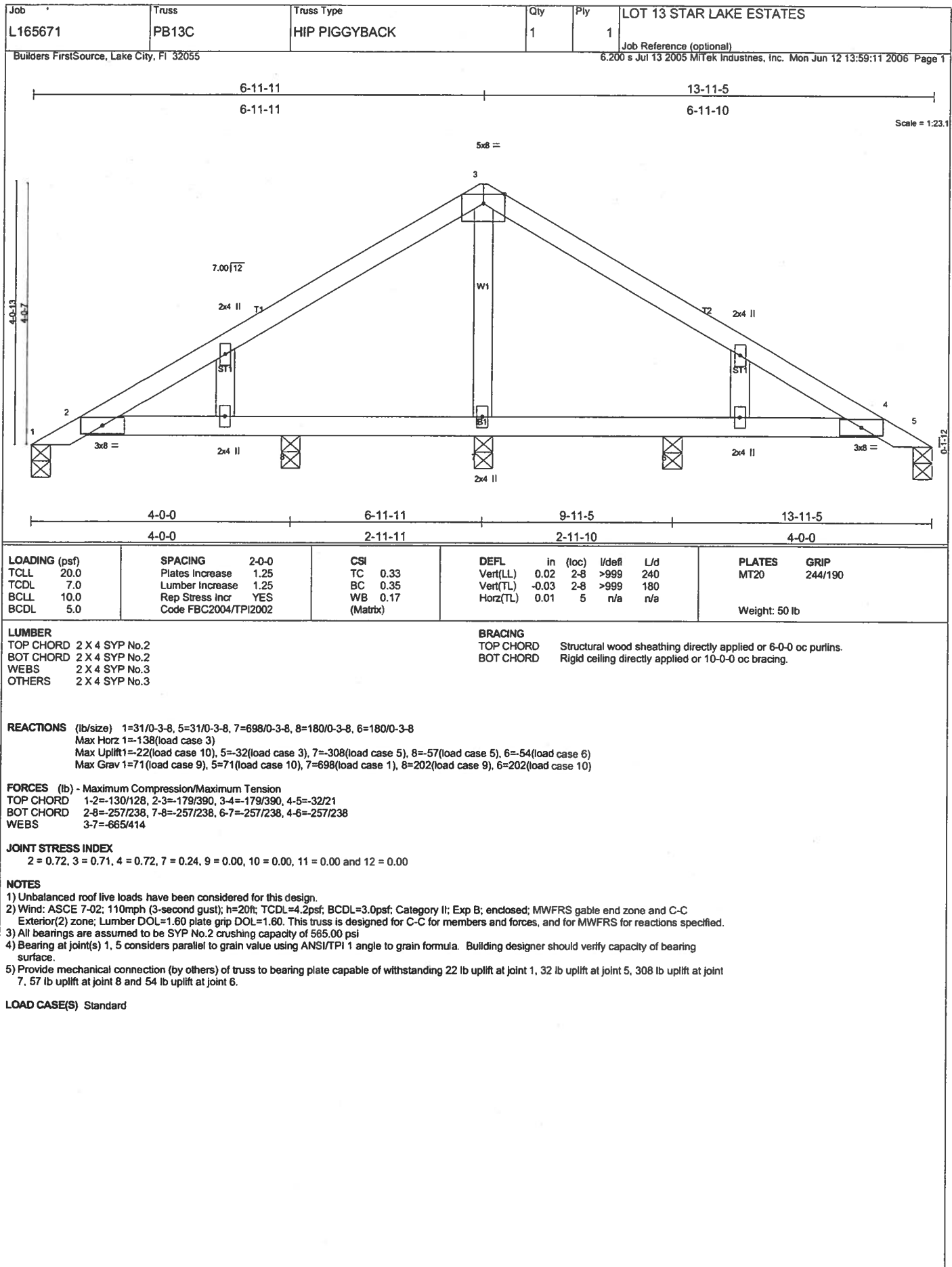
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-73/101, 2-3=-51/135, 3-4=0/110, 4-5=-51/98, 5-6=-56/31
 BOT CHORD 2-11=-84/82, 10-11=-84/82, 9-10=-75/87, 8-9=-75/87, 7-8=-77/79, 5-7=-77/79
 WEBS 3-10=-259/173, 4-8=-259/173

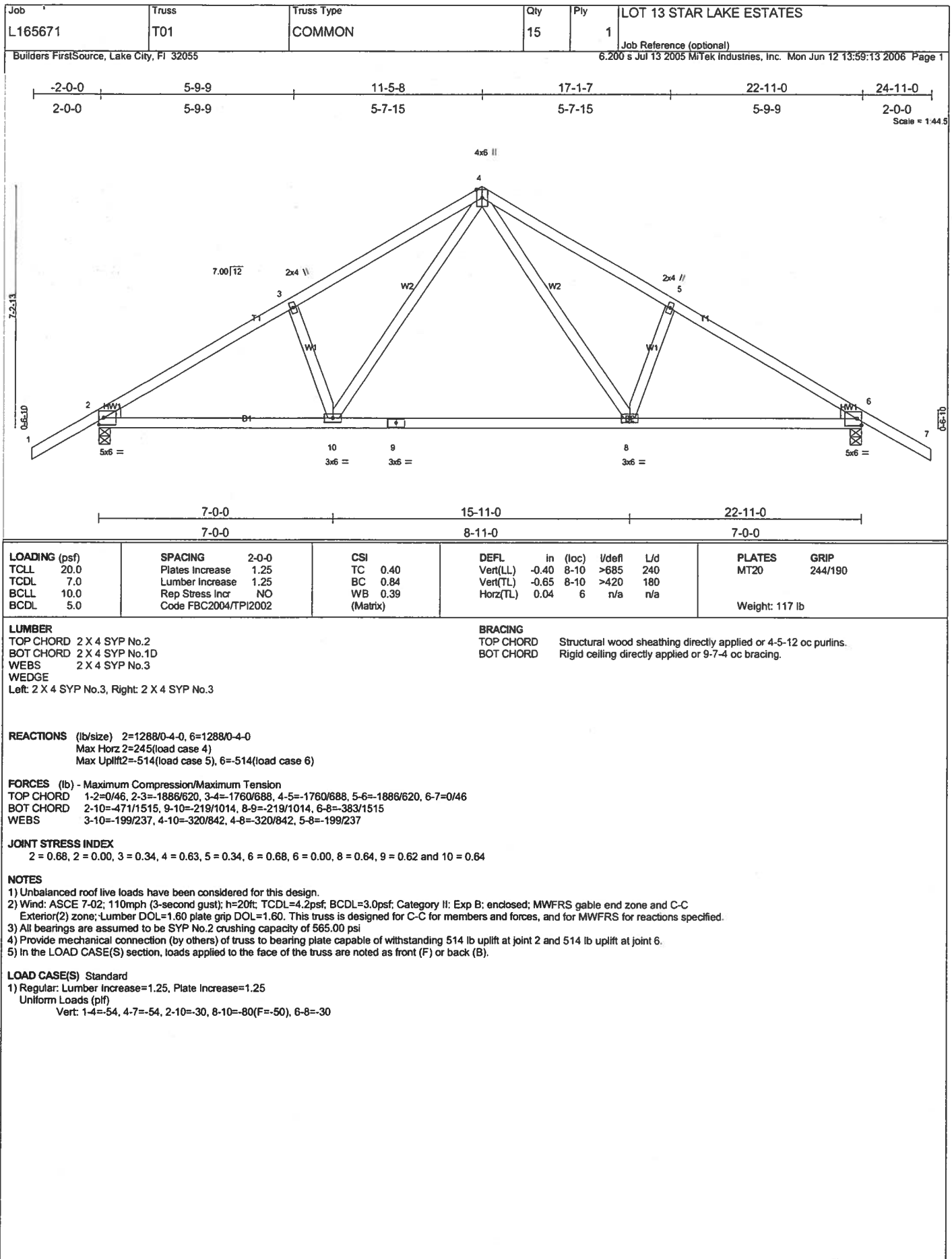
JOINT STRESS INDEX
 2 = 0.58, 3 = 0.60, 4 = 0.60, 5 = 0.58, 8 = 0.10, 9 = 0.00, 10 = 0.10, 12 = 0.00, 13 = 0.00, 14 = 0.00, 15 = 0.00 and 16 = 0.00

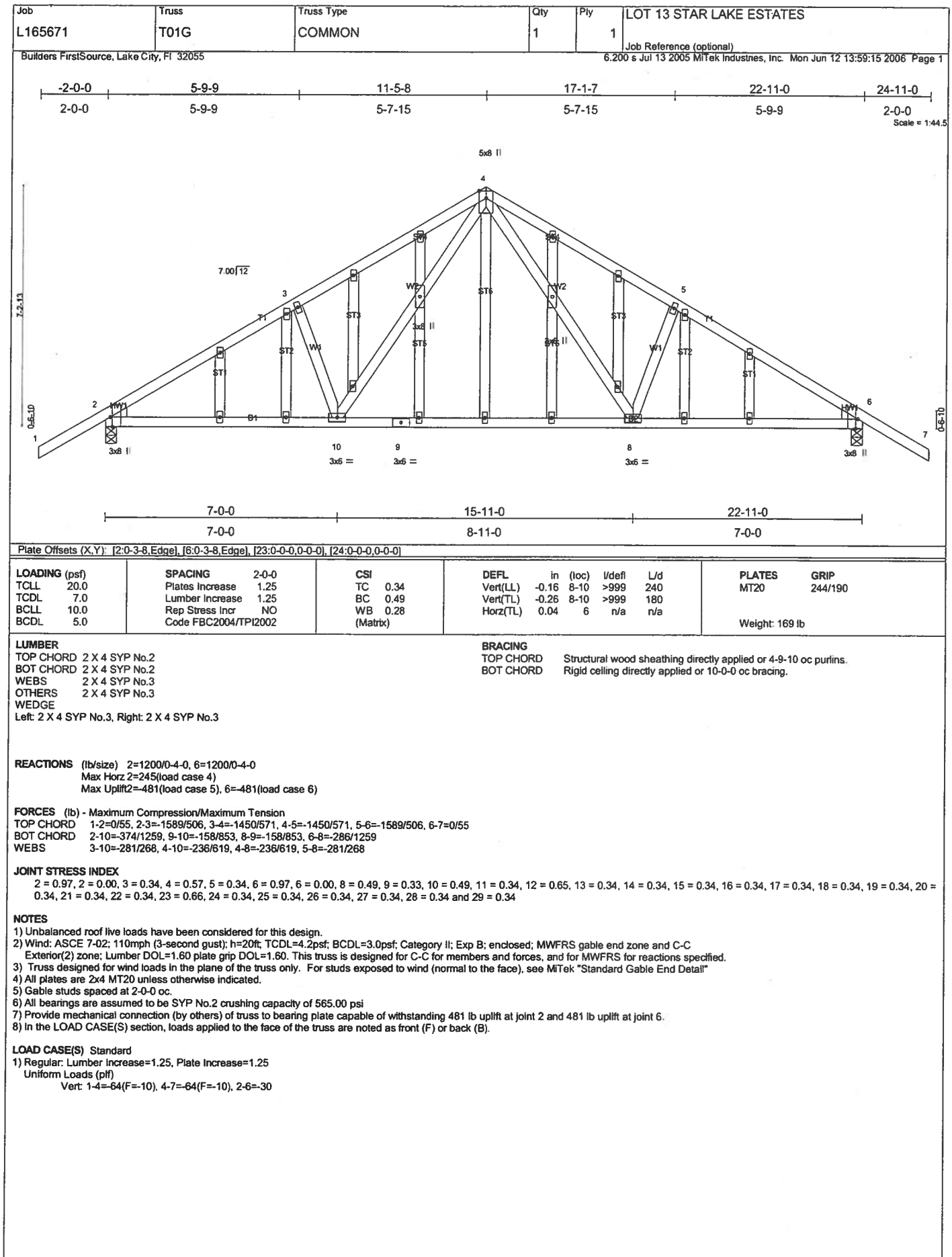
NOTES

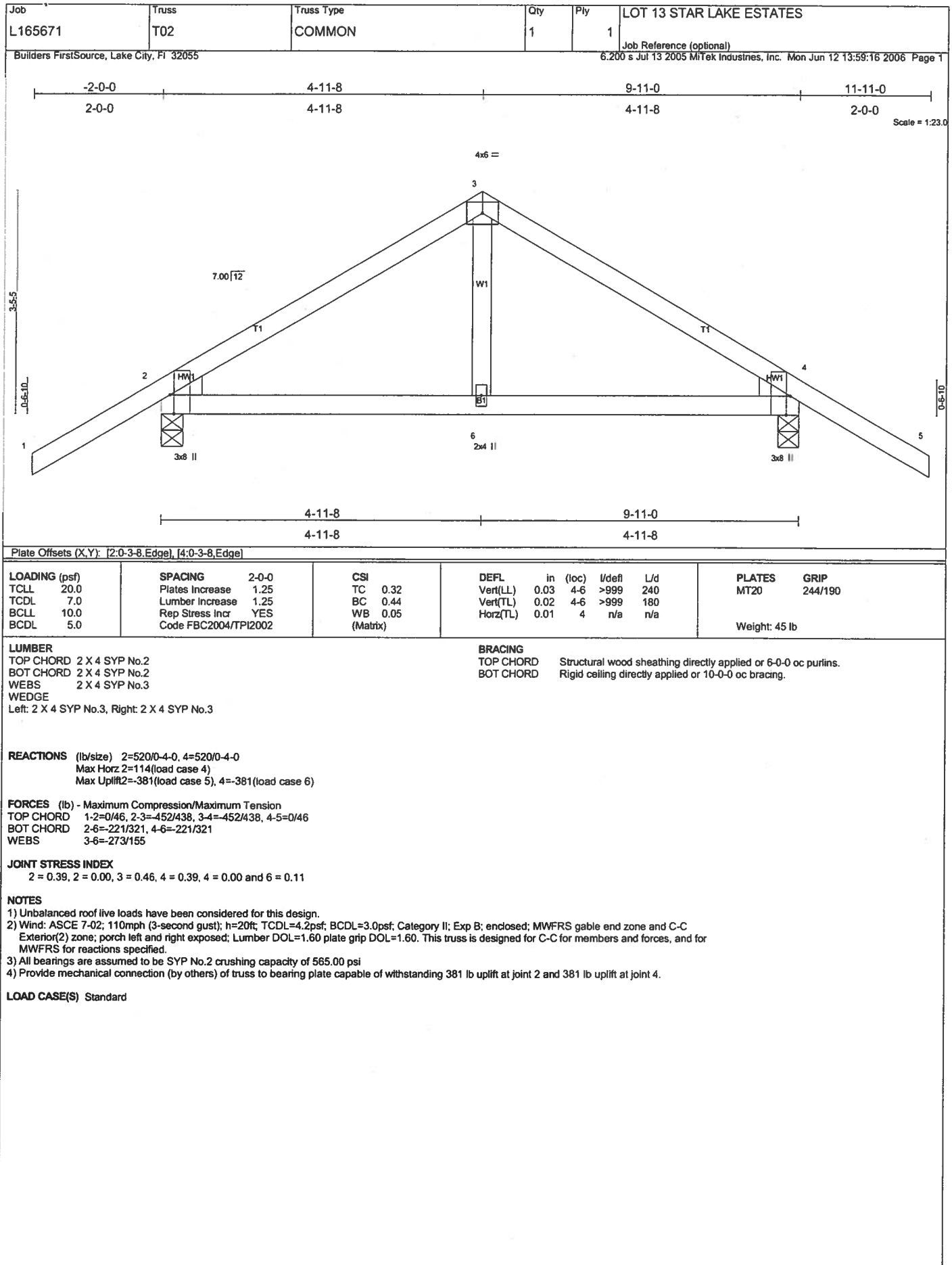
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 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, 6 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 33 lb uplift at joint 1, 53 lb uplift at joint 6, 55 lb uplift at joint 9, 129 lb uplift at joint 11 and 119 lb uplift at joint 7.

LOAD CASE(S) Standard









Job L165671	Truss T02G	Truss Type COMMON	Qty 1	Ply 1	LOT 13 STAR LAKE ESTATES Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jun 12 13:59:17 2006 Page 1
-----------------------	----------------------	-----------------------------	-----------------	-----------------	--

Builders FirstSource, Lake City, FL 32055

Scale = 1/23.0

Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-2-0,0-9-7], [2:0-0-7,Edge], [6:0-3-8,Edge], [6:0-2-0,0-9-7], [6:0-0-7,Edge]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCCL 7.0	Lumber Increase 1.25	BC 0.09	Vert(LL) -0.04 7 n/r 120		
BCCL 10.0	Rep Stress Incr NO	WB 0.00	Vert(TL) -0.06 7 n/r 90		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.00 6 n/a n/a		
				Weight: 51 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
 WEDGE
 Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

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

REACTIONS (lb/size) 2=485/9-11-0, 6=485/9-11-0, 9=45/9-11-0, 10=74/9-11-0, 8=74/9-11-0
 Max Horz 2=92(load case 4)
 Max Uplift 2=335(load case 5), 6=331(load case 6), 10=-1(load case 4), 8=5(load case 3)
 Max Grav 2=485(load case 1), 6=485(load case 1), 9=47(load case 9), 10=79(load case 9), 8=79(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/72, 2-3=-315/126, 3-4=-254/146, 4-5=-254/146, 5-6=-315/126, 6-7=0/72
 BOT CHORD 2-10=-41/220, 9-10=-40/219, 8-9=-40/219, 6-8=-40/220

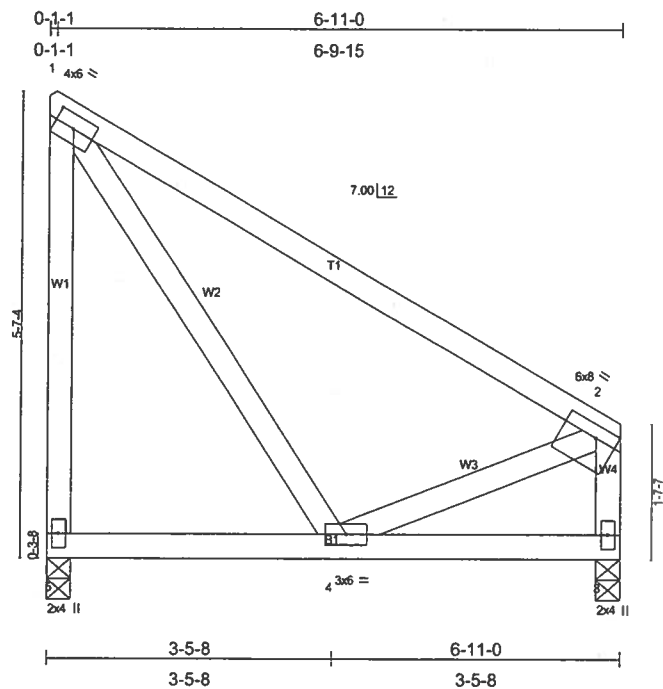
JOINT STRESS INDEX
 2 = 0.58, 2 = 0.20, 2 = 0.00, 3 = 0.00, 3 = 0.26, 4 = 0.22, 5 = 0.00, 5 = 0.26, 6 = 0.58, 6 = 0.20, 6 = 0.00, 8 = 0.01, 9 = 0.00, 10 = 0.01, 11 = 0.00 and 12 = 0.00

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; 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.
 3) 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"
 4) Gable requires continuous bottom chord bearing.
 5) Gable studs spaced at 2'-0" oc.
 6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 335 lb uplift at joint 2, 331 lb uplift at joint 6, 1 lb uplift at joint 10 and 5 lb uplift at joint 8.
 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert 1-4=-64(F=-10), 4-7=-64(F=-10), 2-6=-30

Job	Truss	Truss Type	Qty	Ply	LOT 13 STAR LAKE ESTATES
L165671	T03	COMMON	1	1	Job Reference (optional)

6,200 s Jul 13 2005 MiTek Industries, Inc. Mon Jun 12 13:59:18 2006 Page 1



Scale = 1:26.5

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

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) 0.01 4-5 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.13	Vert(TL) 0.01 4-5 >999 180		
BCLL 10.0	Rep Stress Incr YES	WB 0.19	Horz(TL) 0.00 3 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, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 5=278/0-3-8, 3=278/0-3-8
Max Horz 5=-178(load case 6)
Max Uplift 5=-278(load case 6), 3=-99(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

FORCES (lb)	maximum compression/maximum tension
TOP CHORD	1-2=-215/140, 1-5=-214/312, 2-3=-217/126
BOT CHORD	4-5=9/152, 3-4=-197/179
WEBS	1-4=-296/127, 2-4=-89/249

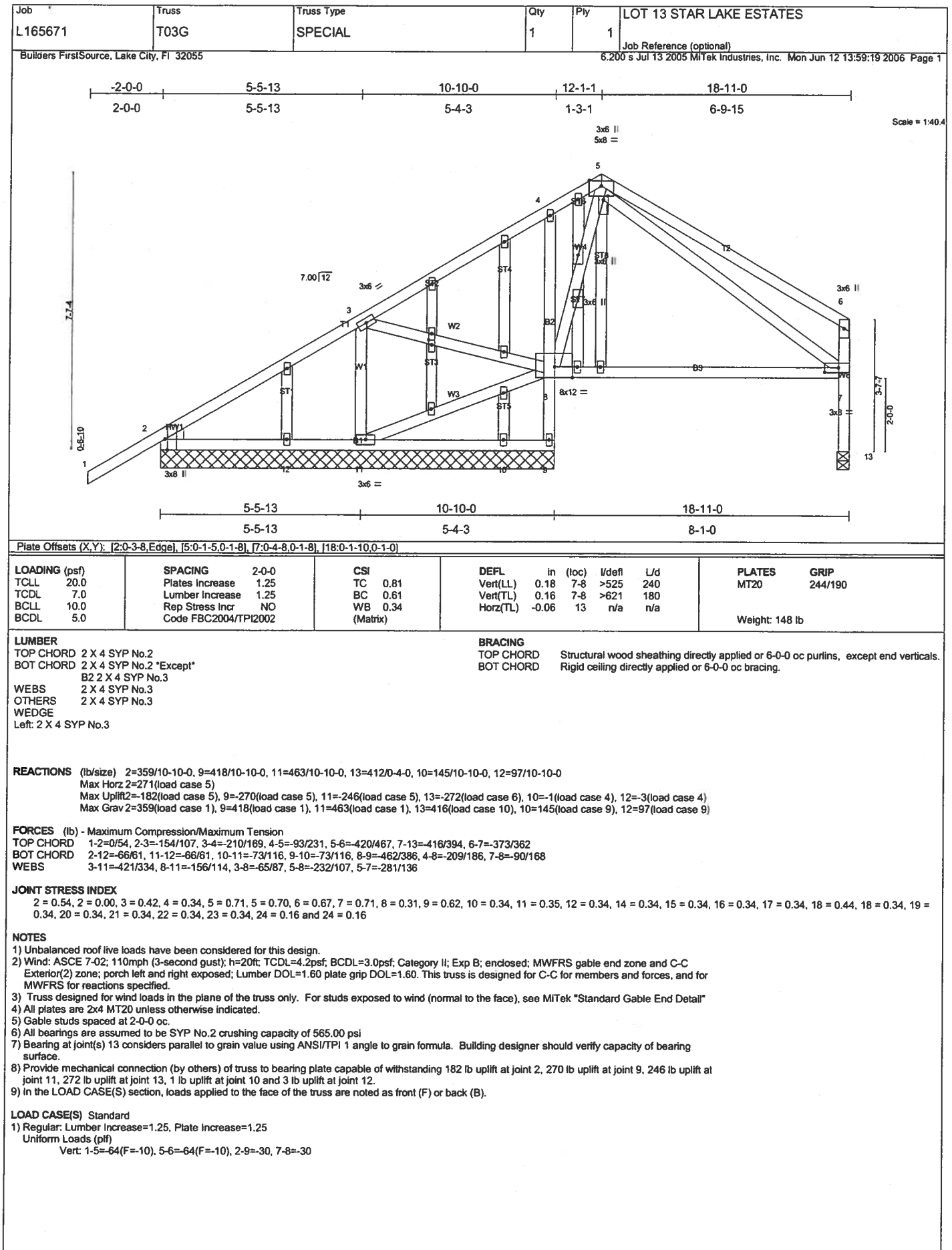
JOINT STRESS INDEX

1 = 0.59, 2 = 0.95, 3 = 0.68, 4 = 0.10 and 5 = 0.74

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDF=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 278 lb uplift at joint 5 and 99 lb uplift at joint 3.

LOAD CASE(S) Standard



Job L165671	Truss T04	Truss Type ROOF TRUSS	Qty 1	Ply 3	LOT 13 STAR LAKE ESTATES Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 Mitex Industries, Inc. Mon Jun 12 13:59:21 2006 Page 1		

2-0-0	3-6-14	7-4-0	14-6-0	21-8-0	28-10-0	36-0-0	43-2-0	50-7-8
2-0-0	3-6-14	3-9-2	7-2-0	7-2-0	7-2-0	7-2-0	7-2-0	7-5-8

Scale = 1/32

3-6-14	7-4-0	14-6-0	21-8-0	28-10-0	36-0-0	43-2-0	50-7-8
3-6-14	3-9-2	7-2-0	7-2-0	7-2-0	7-2-0	7-2-0	7-5-8

Plate Offsets (X,Y): [6:0-5-0,0-4-8], [8:0-5-0,0-4-8], [20:0-5-12,0-5-8]							
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP		
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190		
TCDL 7.0	Plates Increase 1.25	BC 0.99	Vert(LL) -0.64 15-17 >942 240	MT20H	187/143		
BCLL 10.0	Lumber Increase 1.25	WB 0.63	Vert(TL) -1.03 15-17 >588 180	MT18H	244/190		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.11 11 n/a n/a	Weight: 1230 lb			
	Code FBC2004/TPI2002						

LUMBER TOP CHORD 2 X 6 SYP No.1D BOT CHORD 2 X 8 SYP 2400F 2.0E *Except* B2 2 X 8 SYP No.1D WEBS 2 X 4 SYP No.3 *Except* W8 2 X 4 SYP No.2, W2 2 X 4 SYP No.2, W4 2 X 4 SYP No.1D, W6 2 X 4 SYP No.2 W6 2 X 4 SYP No.2, W6 2 X 4 SYP No.2, W6 2 X 4 SYP No.2, W7 2 X 4 SYP No.1D	BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
--	---

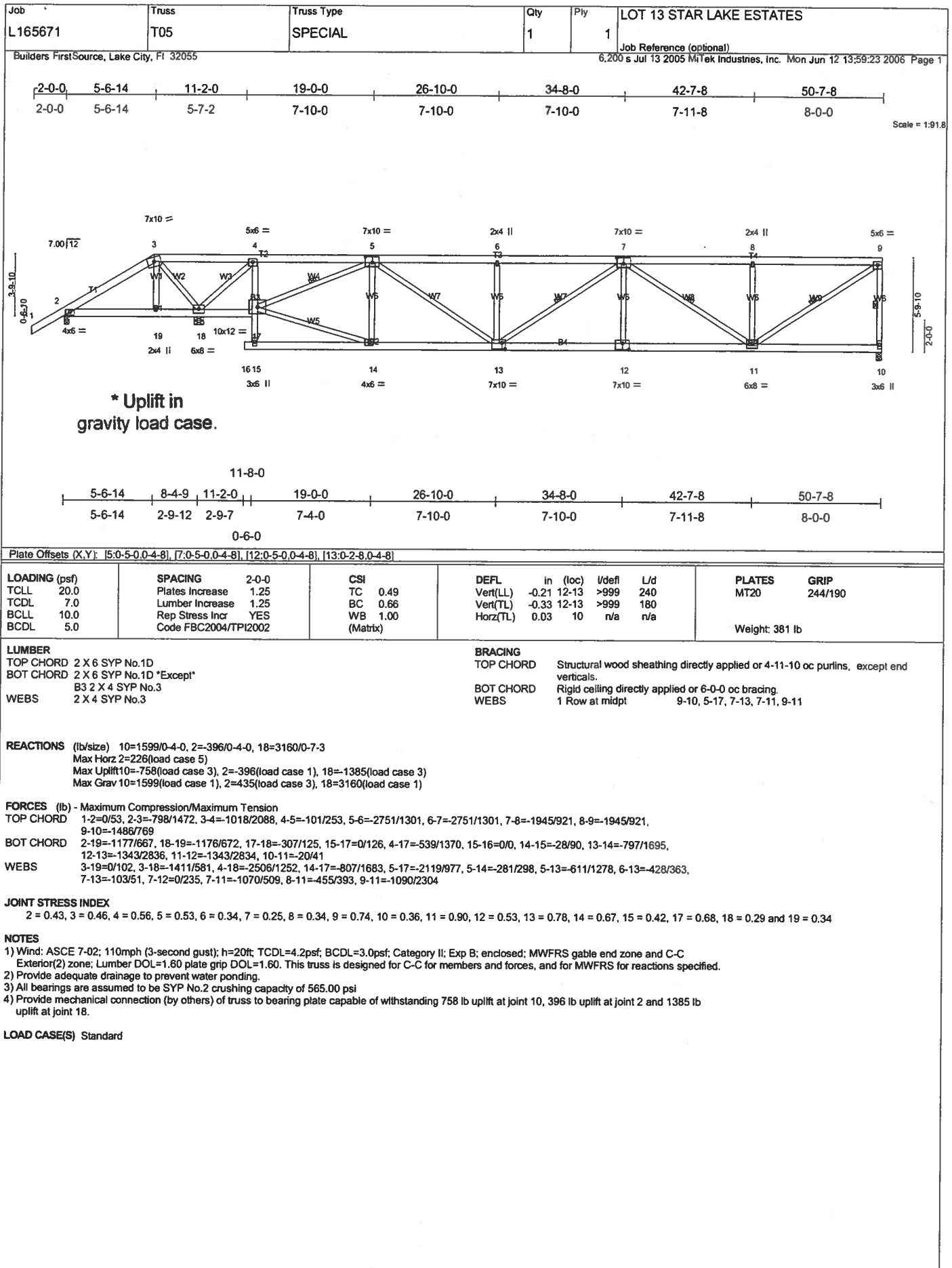
REACTIONS (lb/size) 11=7041/0-4-0, 2=7163/0-4-0
 Max Horz 2=567(load case 4)
 Max Uplift 11=3338(load case 2), 2=3169(load case 2)

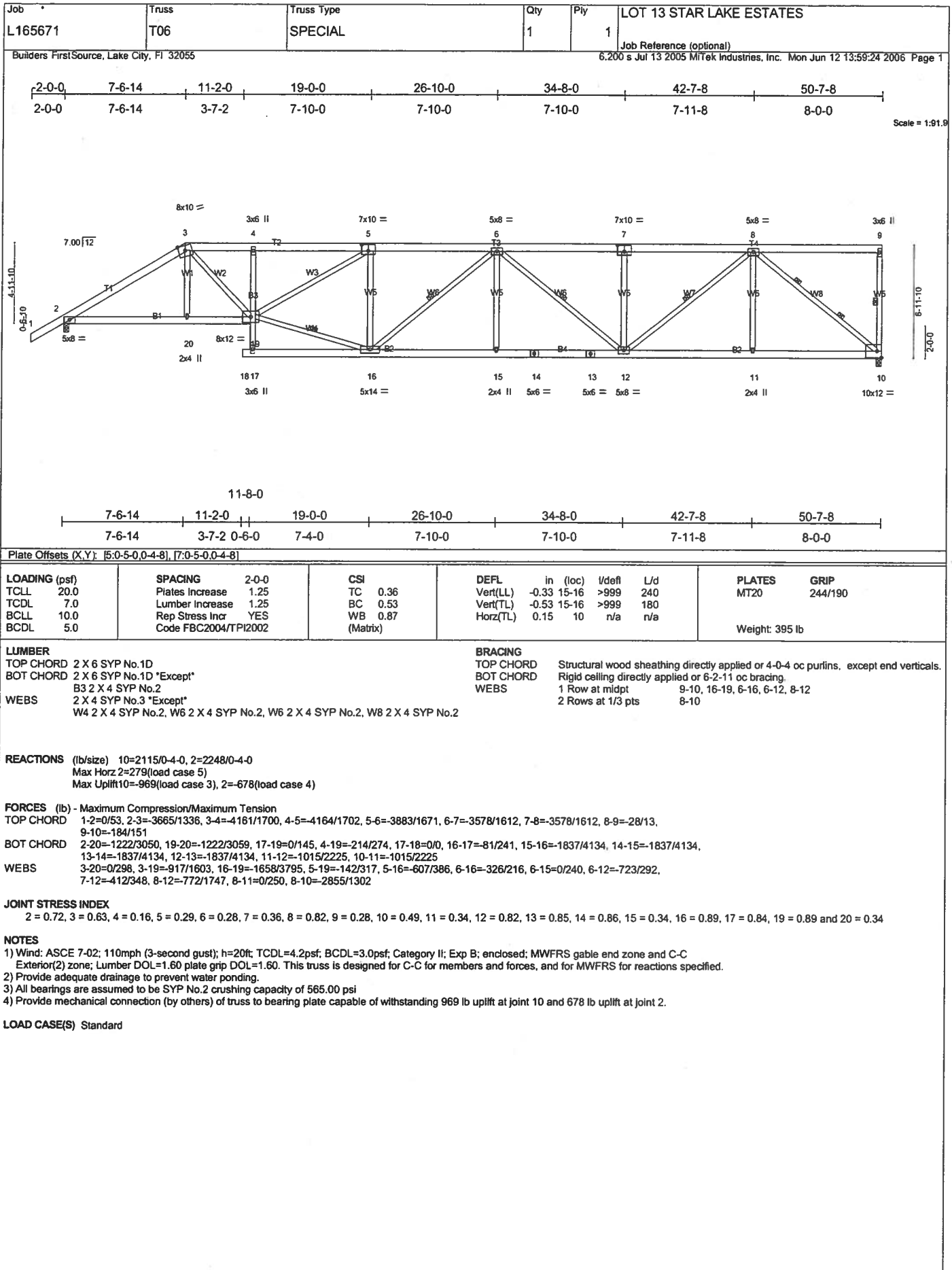
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/55, 2-3=13163/6026, 3-4=18879/8889, 4-5=17935/8515, 5-6=17631/8335, 6-7=21221/10050, 7-8=21221/10050,
 8-9=10894/5161, 9-10=10894/5161, 10-11=6534/3155
 BOT CHORD 2-21=5446/11107, 20-21=5507/11247, 19-20=345/861, 4-20=472/343, 18-19=2106/4569, 17-18=10071/12164, 16-17=10079/21289,
 15-16=10079/21289, 14-15=8472/17875, 13-14=8472/17875, 12-13=8472/17875, 11-12=110/220
 WEBS 3-21=889/2035, 3-20=4102/8594, 18-20=6484/13594, 5-20=221/318, 5-18=1276/757, 6-18=4202/2006, 6-17=364/1067, 6-15=79/42,
 7-15=1068/653, 8-15=1819/3855, 8-13=328/979, 8-12=8045/3816, 9-12=1117/690, 10-12=5792/12241

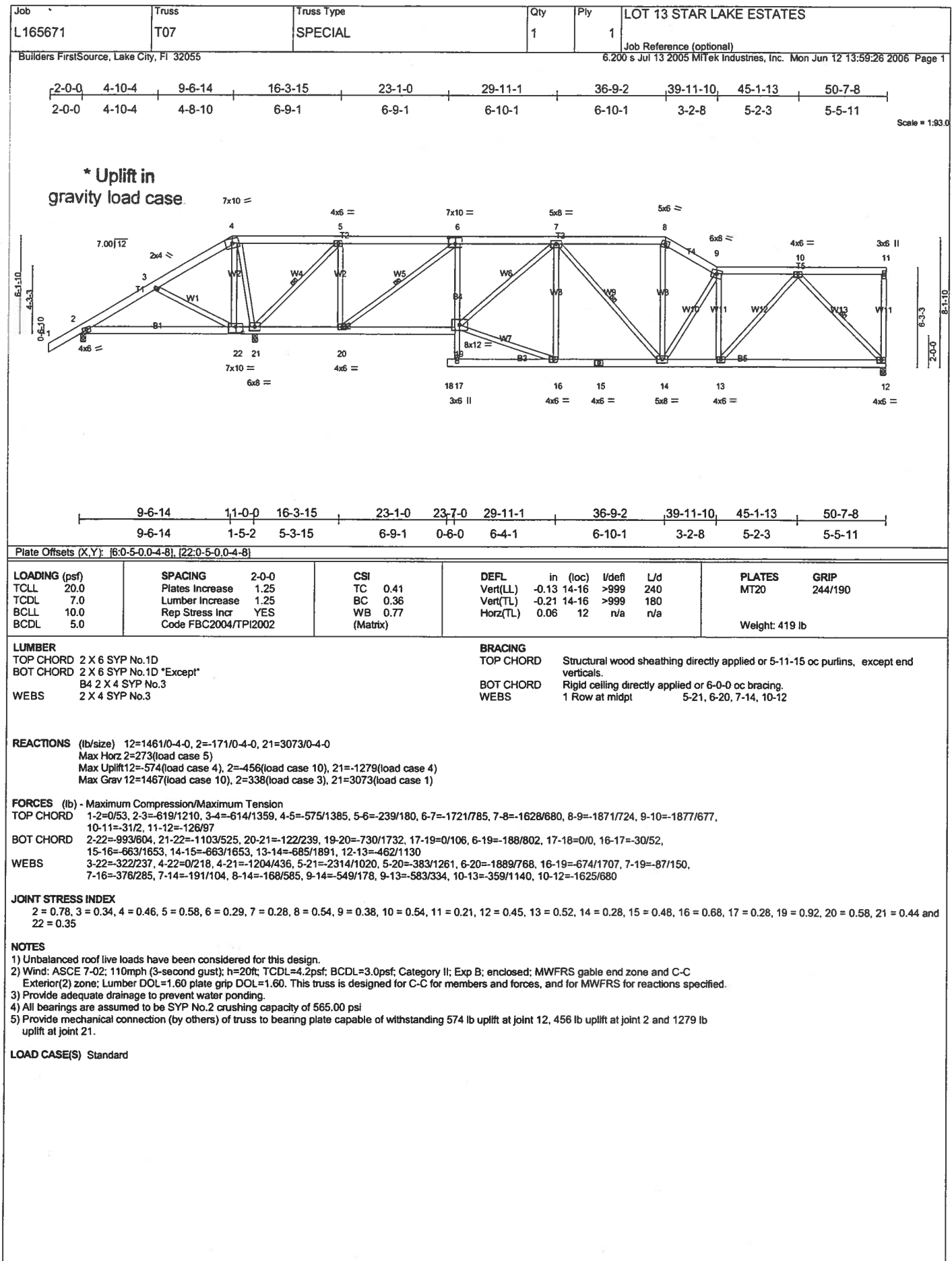
JOINT STRESS INDEX
 2 = 0.84, 3 = 0.84, 4 = 0.42, 5 = 0.25, 6 = 0.61, 7 = 0.34, 8 = 0.61, 9 = 0.34, 10 = 0.83, 11 = 0.49, 12 = 0.85, 13 = 0.16, 14 = 0.94, 15 = 0.59, 16 = 0.69, 17 = 0.16, 18 = 0.94, 19 = 0.82, 20 = 0.92 and
 21 = 0.22

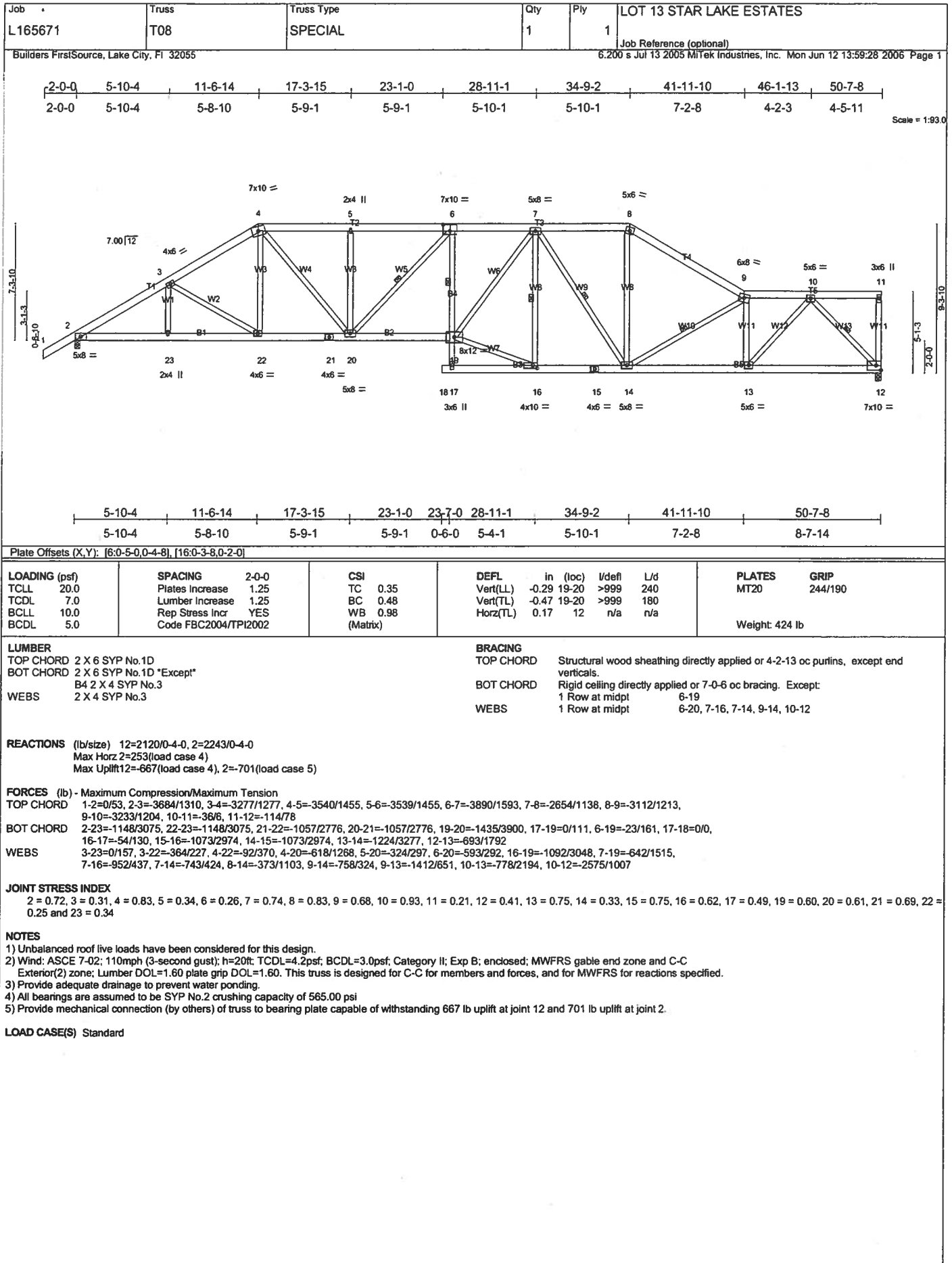
NOTES
 1) 3-ply truss to be connected together with 0.131"x3" Nails as follows:
 Top chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 3) 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.
 4) Provide adequate drainage to prevent water ponding.
 5) All plates are MT20 plates unless otherwise indicated.
 6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3338 lb uplift at joint 11 and 3169 lb uplift at joint 2.
 8) Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 50-7-8; 7-0-0 from 0-0-0 to 50-7-8

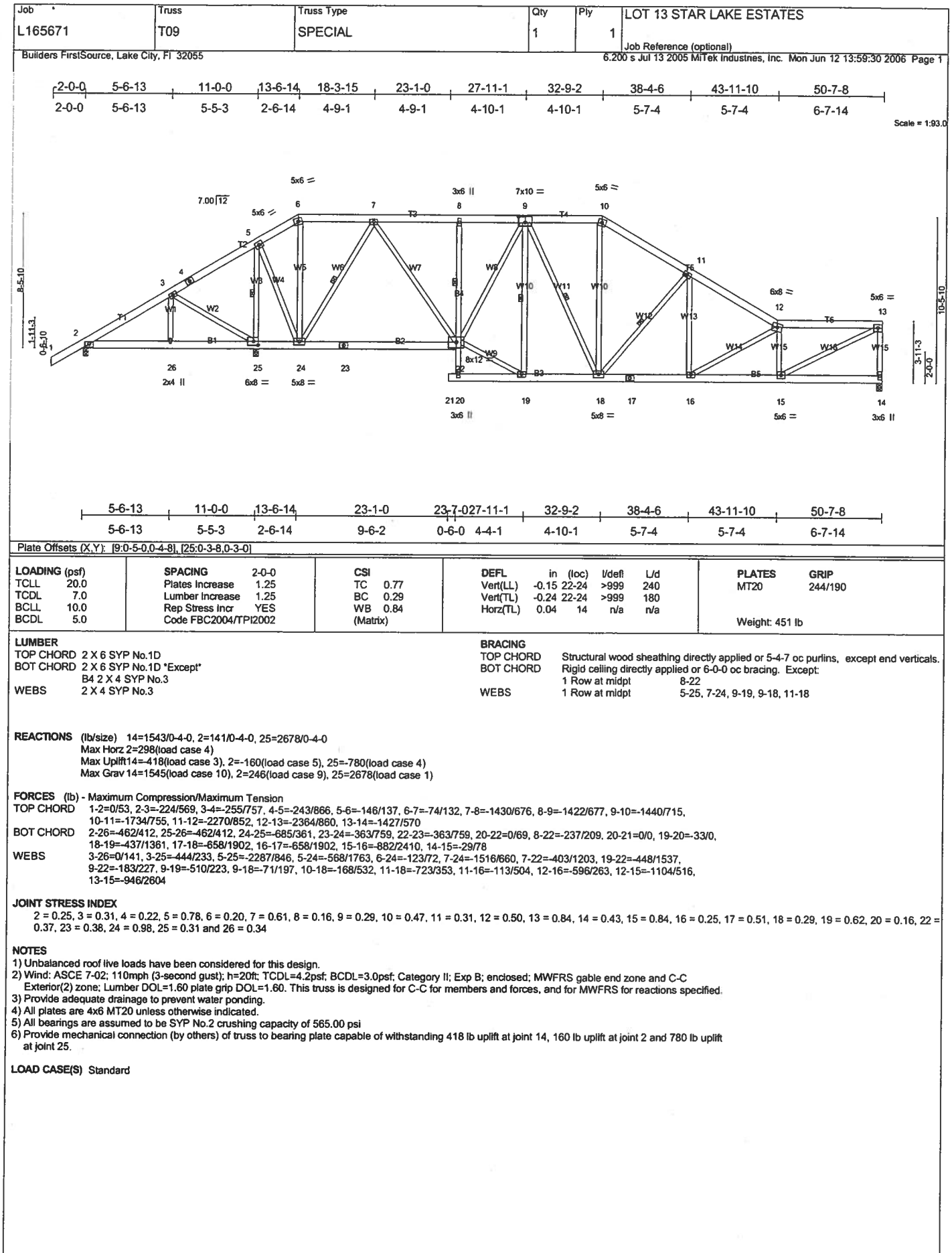
LOAD CASE(S) Standard
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=54, 2-3=152(F=98), 3-10=152(F=98), 2-20=128(F=98), 11-19=128(F=98)











Job L165671	Truss T10	Truss Type SPECIAL	Qty 1	Ply 1	LOT 13 STAR LAKE ESTATES
Builders FirstSource, Lake City, FL 32055			6,200 s Jul 13 2005 Mitek Industries, Inc. Mon Jun 12 13:59:32 2006 Page 1		

2-0-0	5-6-13	11-0-0	15-6-14	23-1-0	30-9-2	38-4-6	45-11-10	50-7-8
2-0-0	5-6-13	5-5-3	4-6-14	7-6-2	7-8-2	7-7-4	7-7-4	4-7-14

Scale = 1:93.0

5-6-13	11-0-0	15-6-14	23-1-0	23-7-0	30-9-2	38-4-6	45-11-10	50-7-8
5-6-13	5-5-3	4-6-14	7-6-2	0-6-0	7-2-2	7-7-4	7-7-4	4-7-14

Plate Offsets (X,Y): [3:0-5:0,0-4-8], [12:0-3:8,0-2-8], [21:0-3:8,0-3-0]

LOADING (psf) TCCL 20.0 TCCL 7.0 BCLL 10.0 BCDL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2004/TPI2002	CSI TC 0.52 BC 0.38 WB 0.93 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) -0.15 12-13 >999 240 Vert(TL) -0.25 12-13 >999 180 Horiz(TL) 0.05 11 n/a n/a	PLATES MT20 GRIP 244/190 Weight: 425 lb
--	--	---	---	---

LUMBER TOP CHORD 2 X 6 SYP No.1D BOT CHORD 2 X 6 SYP No.1D "Except" B4 2 X 4 SYP No.3 WEBS 2 X 4 SYP No.3	BRACING TOP CHORD Structural wood sheathing directly applied or 5-1-12 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 6-18 WEBS 1 Row at midpt 4-21, 5-20, 5-18, 8-15
--	--

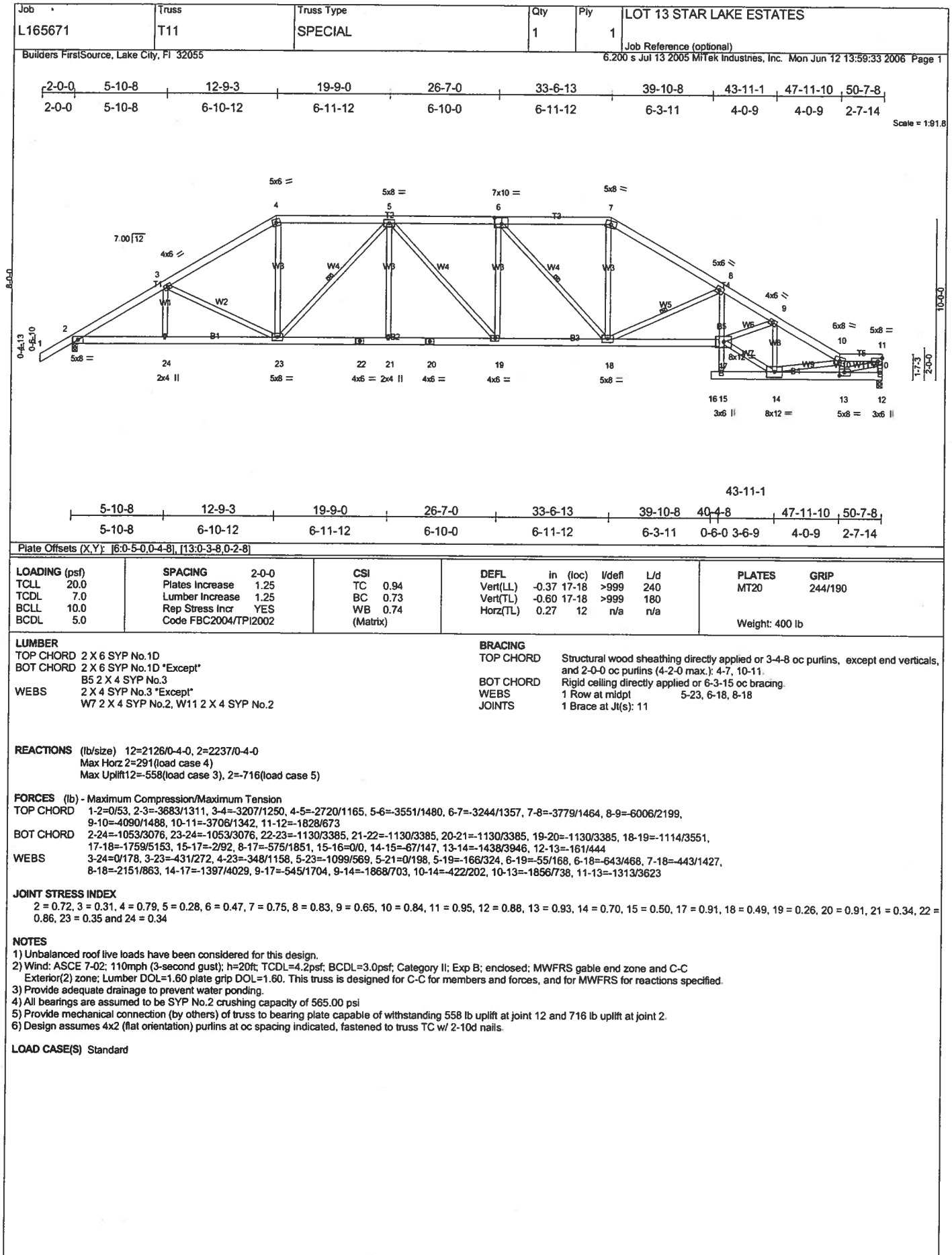
REACTIONS (lb/size) 11=1591/0-4-0, 2=317/0-4-0, 21=2455/0-4-0
 Max Horiz 2=343(load case 4)
 Max Uplift 11=-400(load case 3), 2=-206(load case 5), 21=-680(load case 5)
 Max Grav 11=1591(load case 1), 2=406(load case 9), 21=2455(load case 1)

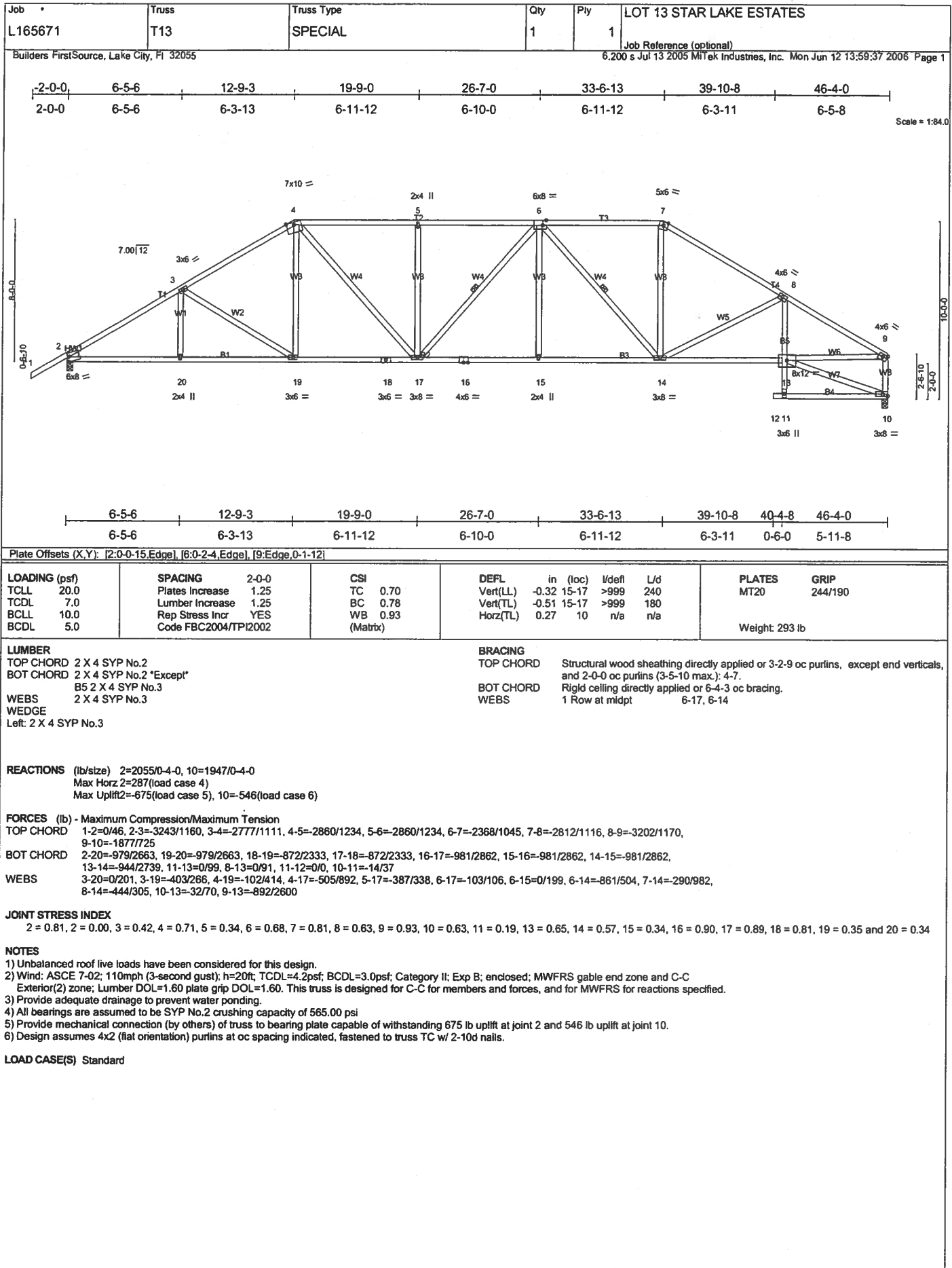
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/53, 2-3=-215/243, 3-4=-105/541, 4-5=-653/386, 5-6=-1393/714, 6-7=-1388/713, 7-8=-1698/759, 8-9=-2408/900, 9-10=-2669/974, 10-11=-1483/562
 BOT CHORD 2-22=-210/325, 21-22=-211/325, 20-21=-407/274, 19-20=-270/501, 18-19=-270/501, 16-18=0/116, 6-18=-432/388, 16-17=0/0, 15-16=-25/48, 14-15=-678/2025, 13-14=-678/2025, 12-13=-1010/2748, 11-12=-38/109
 WEBS 3-22=0/157, 3-21=-453/234, 4-21=-2052/774, 4-20=-473/1570, 5-20=-1060/433, 5-18=-497/1353, 15-18=-340/1384, 7-18=-299/207, 7-15=-137/403, 8-15=-864/435, 8-13=-64/486, 9-13=-754/347, 9-12=-1246/571, 10-12=-1058/2895

JOINT STRESS INDEX
 2 = 0.25, 3 = 0.19, 4 = 0.85, 5 = 0.88, 6 = 0.16, 7 = 0.36, 8 = 0.31, 9 = 0.54, 10 = 0.58, 11 = 0.43, 12 = 0.65, 13 = 0.25, 14 = 0.52, 15 = 0.66, 16 = 0.31, 18 = 0.62, 19 = 0.19, 20 = 0.78, 21 = 0.28 and 22 = 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 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 400 lb uplift at joint 11, 206 lb uplift at joint 2 and 680 lb uplift at joint 21.

LOAD CASE(S) Standard





Job L165671	Truss T15	Truss Type SPECIAL	Qty 1	Ply 3	LOT 13 STAR LAKE ESTATES Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MTek Industries, Inc. Mon Jun 12 13:59:41 2006 Page 1		

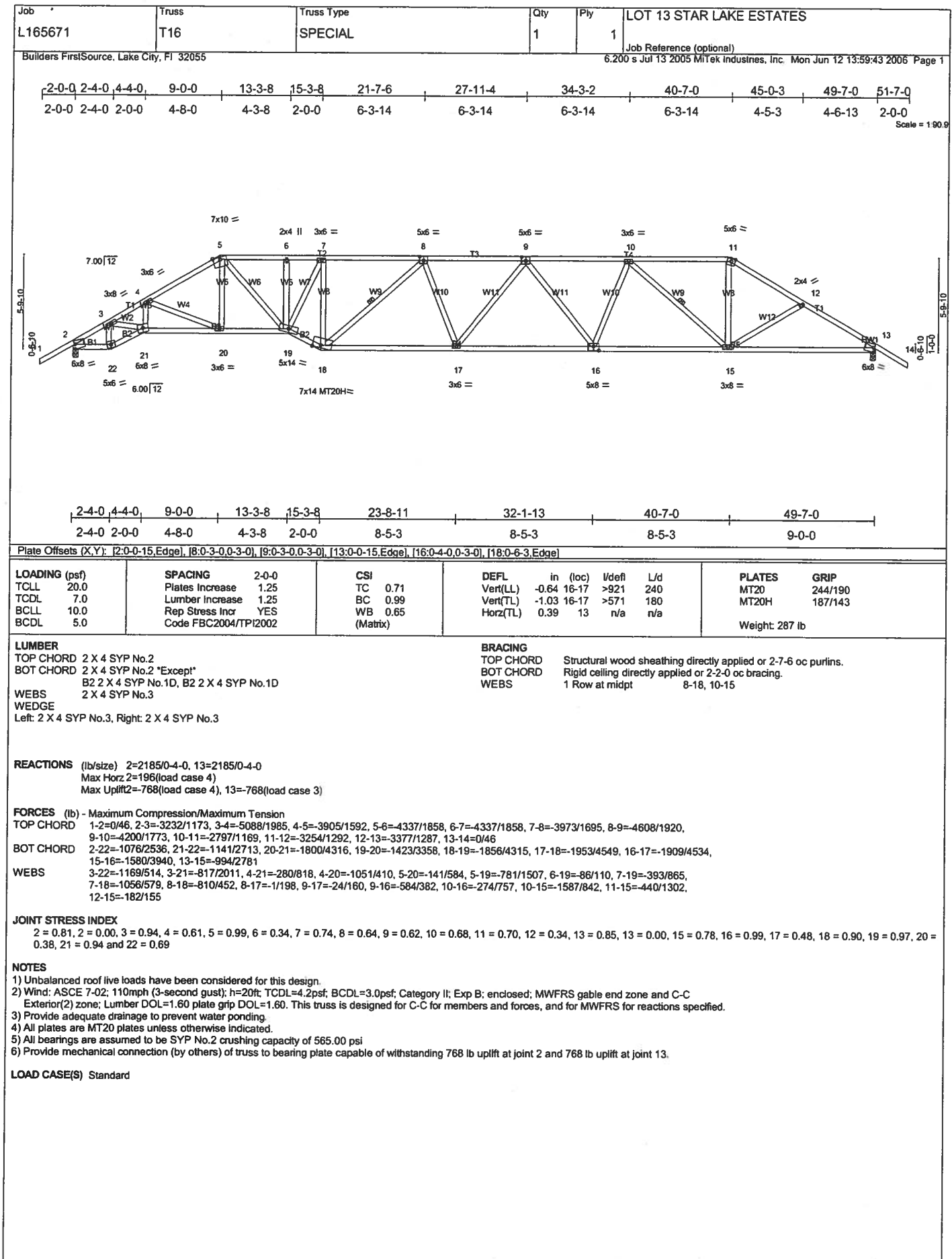
2-0-0	2-4-0	4-4-0	7-0-0	11-3-8	15-3-8	18-10-8	22-5-8	27-2-12	32-0-0	37-3-8	42-7-0	49-7-0	51-7-0
2-0-0	2-4-0	2-0-0	2-8-0	4-3-8	4-0-0	3-7-0	3-7-0	4-9-4	4-9-4	5-3-8	5-3-8	7-0-0	2-0-0

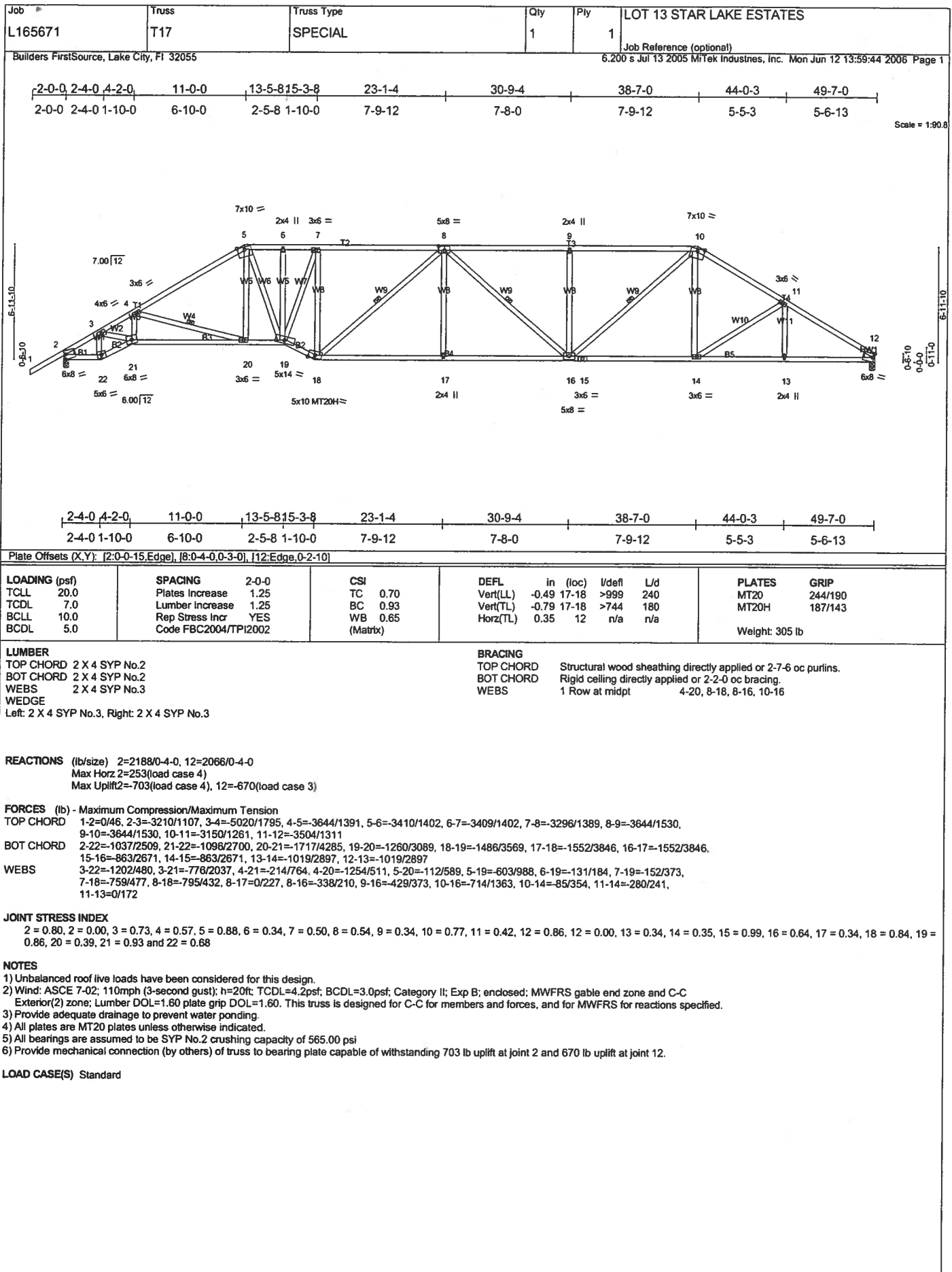
Scale = 1:90.9

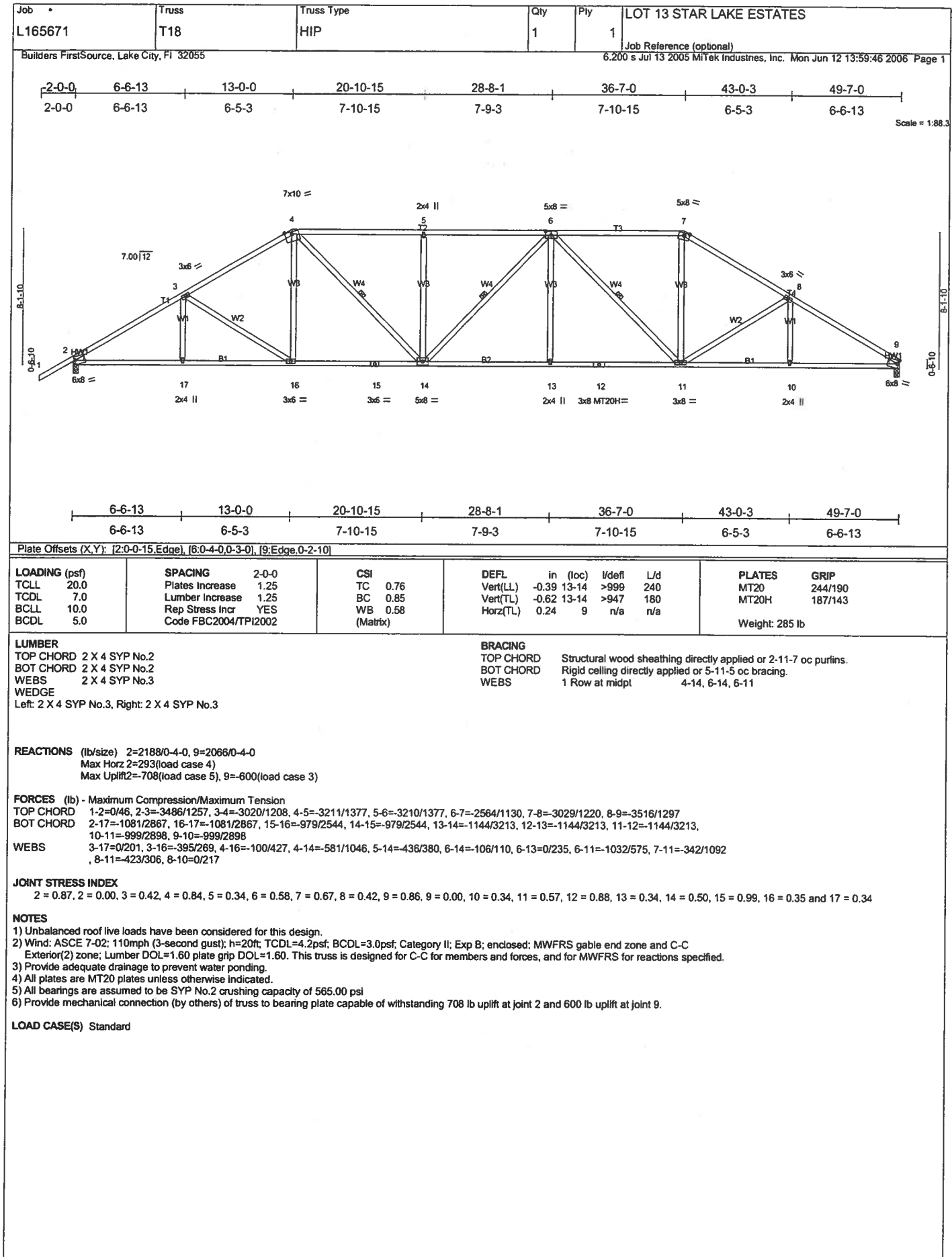
Job	Truss	Truss Type	Qty	Ply	LOT 13 STAR LAKE ESTATES
L165671	T15	SPECIAL	1	3	Job Reference (optional)

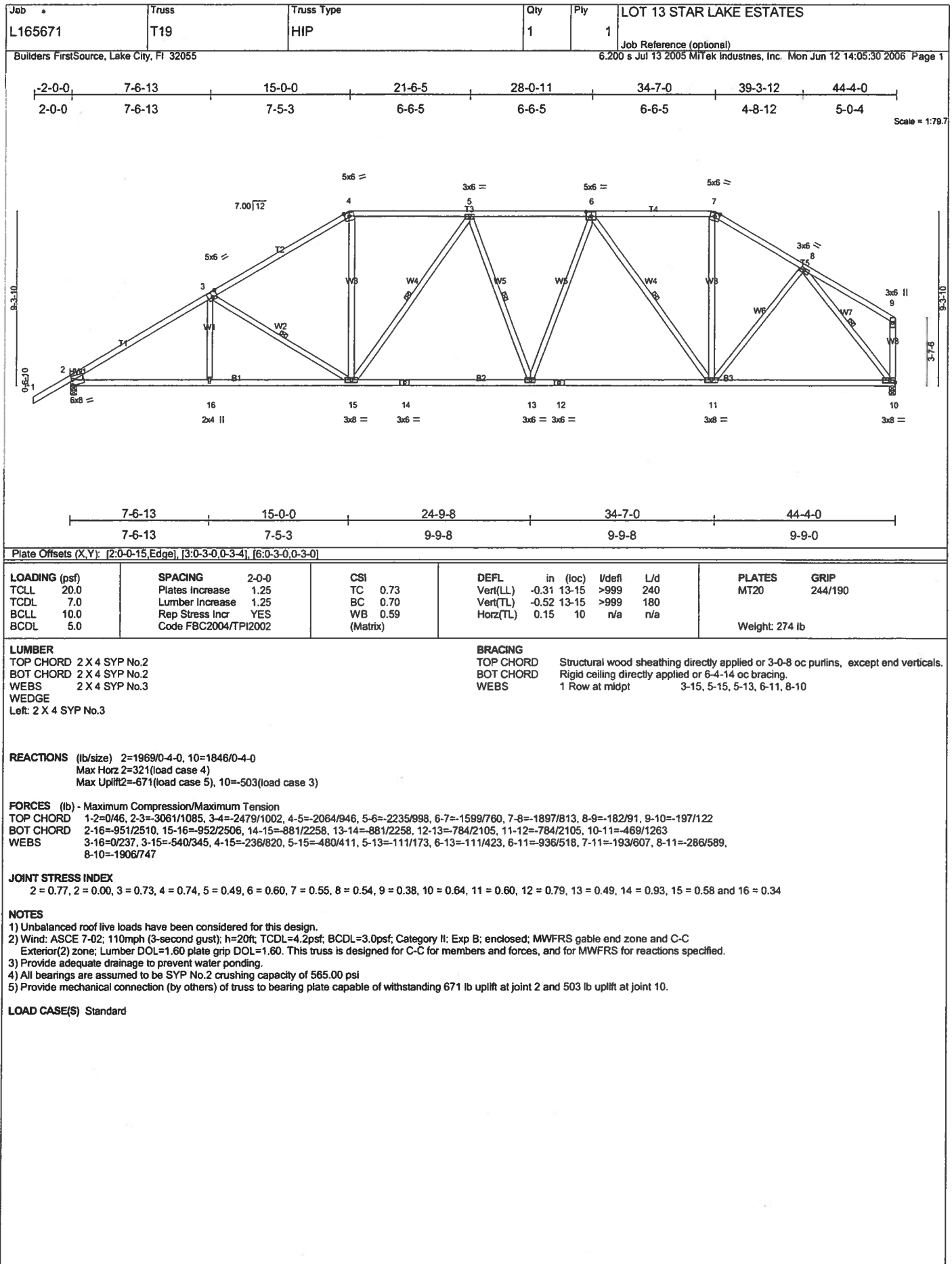
Builders FirstSource, Lake City, FL 32055 6,200 s Jul 13 2005 MiTek Industries, Inc. Mon Jun 12 13:59:41 2006 Page 2

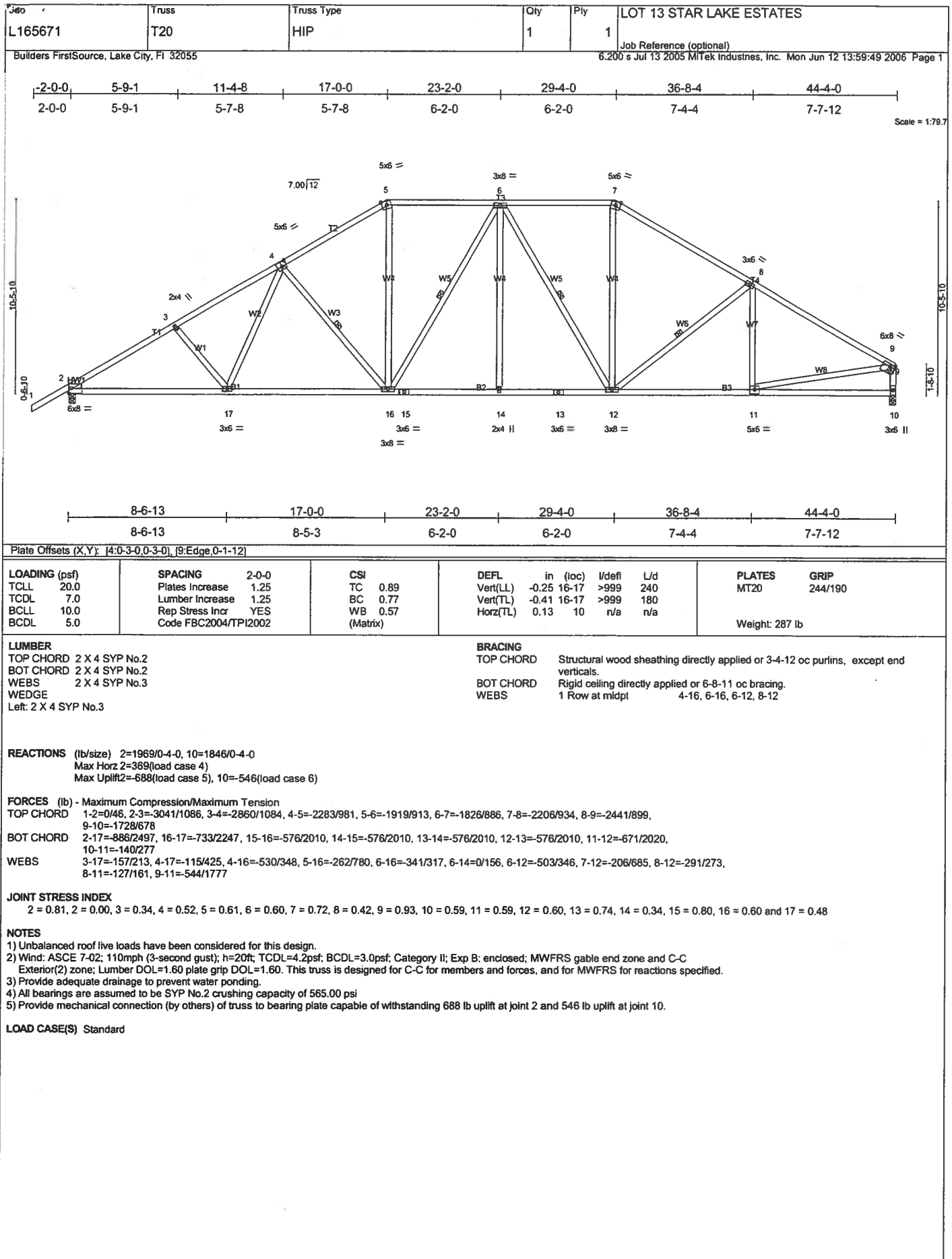
LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-5=-54, 5-7=98(F=44), 7-9=-117(F=-63), 9-12=-104(F=-50), 12-14=-117(F=-63), 14-16=-54, 2-28=-30, 27-28=-30, 26-27=-30, 25-26=-75(F=-45), 22-24=-65(F=-35), 20-21=-72(F=-42), 17-19=-65(F=-35), 15-17=-30
Concentrated Loads (lb)
Vert: 26=-539(F) 17=-539(F)

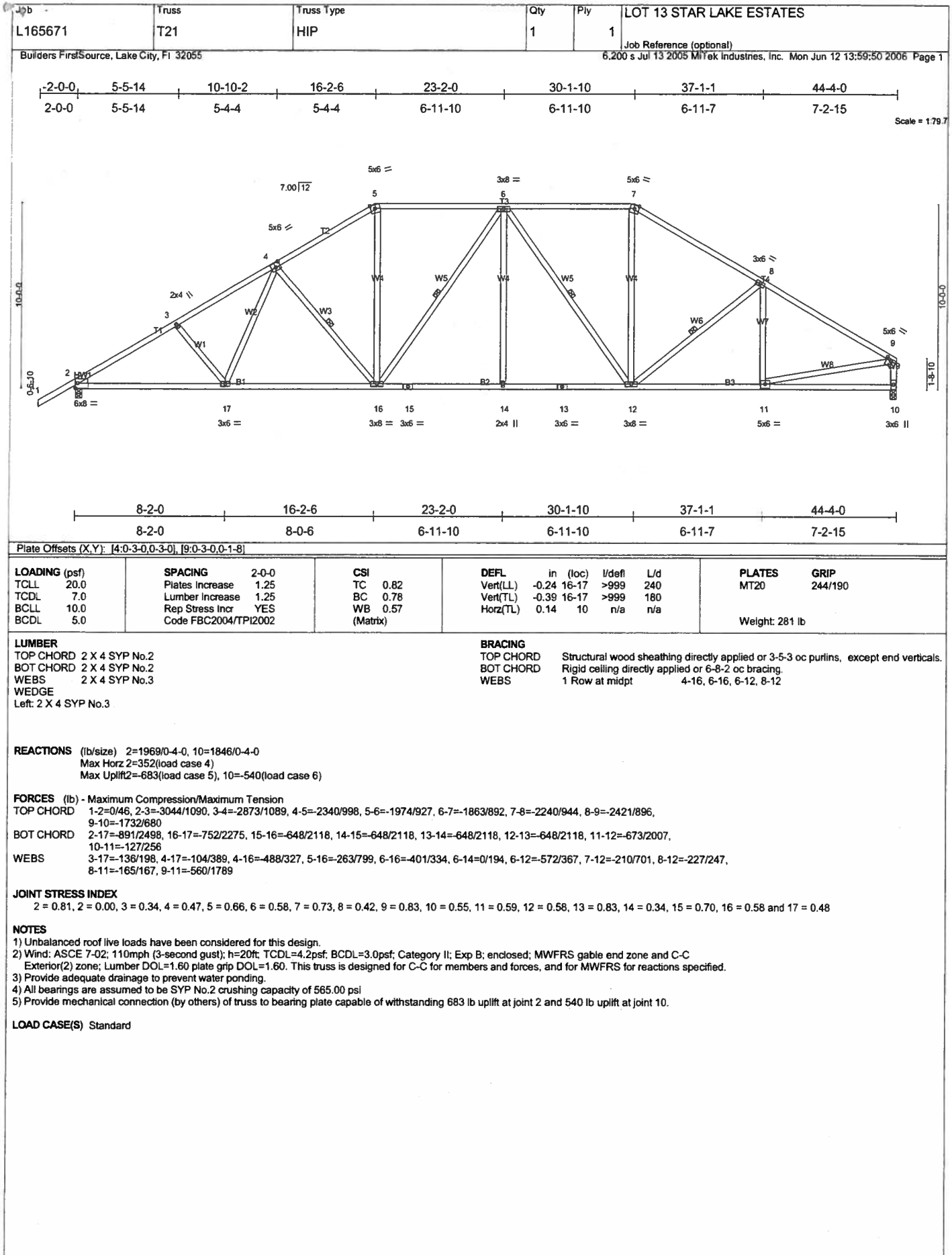






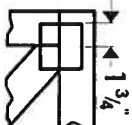




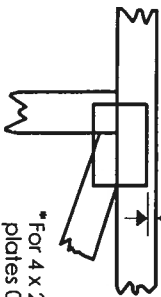


Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless X, Y offsets are indicated. Dimensions are in 1/16ths. 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

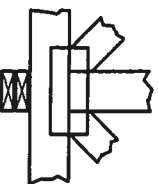
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

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/TP11:

National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89:

Design Standard for Bracing.

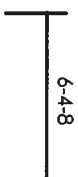
Building Component Safety Information.

Guide to Good Practice for Handling.

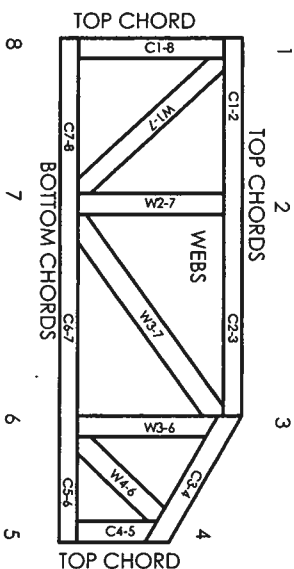
Installing & Bracing of Metal Plate

Connected Wood Trusses.

Numbering System



dimensions shown in 1/16ths



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, 96048, 9511, 9432A

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

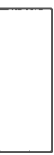
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property 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/TP11.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP11.
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.



Mitek Engineering Reference Sheet: Mil-7473

© 2004 Mitek®

BEARING HEIGHT SCHEDULE

	8 FT
	10 FT
	12 FT
7/112	
PITCH	
2 FT	
O.H.	

NOTES:

- 1) REFER TO HD 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL VMS FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' OC MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) ALL ROOF TRUSS HANGERS TO BE SIMPSON HUS26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.
- 8) BEARING/DECK/INTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VMS. ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS, REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Expedited Delivery Date: _____

Approved By: _____ Date: _____



Burnell

PHONE: 904-437-3349 FAX: 904-437-3994

Jacksonville

PHONE: 904-772-6100 FAX: 904-772-1973

Lake City

PHONE: 904-795-6994 FAX: 904-795-7973

Sanford

PHONE: 407-322-0094 FAX: 407-322-5553

BUILDER:

BRYAN ZECHER

OWNER:

CRONAUR RESIDENCE

DATE: 6/11/06 DRAWN BY: JOE

SCALE: N.T.S. 165671

