

DATE06/01/2007

Columbia County Building Permit

PERMIT000025878

This Permit Expires One Year From the Date of Issue

APPLICANTGARY MARTIN

PHONE984-6868

ADDRESSP.O. BOX 3178

LAKE CITYFL32056

OWNERBEN MARTIN

PHONE984-6868

ADDRESS429SW MORNING GLORY DRIVE

LAKE CITYFL32024

CONTRACTORBEN MARTIN

PHONE984-6868

LOCATION OF PROPERTY

90W, TL ON SISTER'S WELCOME RD, TR ON HOPE HENRY, TL ON MORNING GLORY DR, 3RD LOT ON LEFT PAST BUTTERCUP

TYPE DEVELOPMENTSFD,UTILITY

ESTIMATED COST OF CONSTRUCTION87000.00

HEATED FLOOR AREA1740.00

TOTAL AREA2304.00

HEIGHT

STORIES1

FOUNDATIONCONC

WALLSFRAMED

ROOF PITCH7/12

FLOORSLAB

LAND USE & ZONINGRSF-2

MAX. HEIGHT19

Minimum Set Back Requirments:

STREET-FRONT25.00

REAR15.00

SIDE10.00

NO. EX.D.U.0

FLOOD ZONEX PP

DEVELOPMENT PERMIT NO.

PARCEL ID15-4S-16-03023-515

SUBDIVISIONROLLING MEADOWS

LOT15

BLOCK

PHASE

UNIT

TOTAL ACRES

000001393

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

CULVERT

07-431

BK

JH

Y

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS:

ONE FOOT ABOVE THE ROAD, ALTERNATE TERMIT TREATMENT RECEIVED,

NOC ON FILE

Check # or Cash

2583

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

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

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 \$435.00

CERTIFICATION FEE \$11.52

SURCHARGE FEE \$11.52

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 FEE558.04

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 INCONVENIENCE, 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.

DATE 06/01/2007

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025878

APPLICANT	GARY MARTIN		PHONE	984-6868	
ADDRESS	P.O. BOX 3178		LAKE CITY	FL	32056
OWNER	BEN MARTIN		PHONE	984-6868	
ADDRESS	429	SW MORNING GLORY DRIVE	LAKE CITY	FL	32024
CONTRACTOR	BEN MARTIN		PHONE	984-6868	
LOCATION OF PROPERTY	90W, TL ON SISTER'S WELCOME RD, TR ON HOPE HENRY, TL ON MORNING GLORY DR, 3RD LOT ON LEFT PAST BUTTERCUP				
TYPE DEVELOPMENT	SFD,UTILITY		ESTIMATED COST OF CONSTRUCTION	87000.00	
HEATED FLOOR AREA	1740.00	TOTAL AREA	2304.00	HEIGHT	STORIES 1
FOUNDATION	CONC	WALLS	FRAMED	ROOF PITCH	7/12
LAND USE & ZONING	RSF-2		MAX. HEIGHT	19	
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	15-4S-16-03023-515		SUBDIVISION	ROLLING MEADOWS	
LOT	15	BLOCK	PHASE	UNIT	TOTAL ACRES

000001393				
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
CULVERT	07-431	BK	JH	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident
COMMENTS: ALTERNATE TERMIT TREATMENT RECEIVED, NOC ON FILE				
PLAT REQUIRES MFF ELEVATION TO BE 106.FT, ELEVATION CONFIRMATION				
LETTER REQUIRED BEFORE SLAB			Check # or Cash	2583

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	
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
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 \$	435.00	CERTIFICATION FEE \$	11.52	SURCHARGE FEE \$	11.52
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	558.04
INSPECTORS OFFICE			CLERKS OFFICE		

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Columbia County Building Permit Application

1st mess 40x
5/30/07

For Office Use Only Application # 0705-48 Date Received 5/21/07 By LH Permit # 1393/25878
 Application Approved by - Zoning Official BZK Date 30.05.07 Plans Examiner OKSH Date 5-23-07
 Flood Zone 2 per plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low Den.
 Comments Alternative permits Plat Requires FF at 106.08' Elevation Verification Letter Required
☒ NOC ☒ EH ☐ Deed or PA ☒ Site Plan ☒ State Road Info ☐ Parent Parcel # ☐ Development Perm

Name Authorized Person Signing Permit Gary Martin Fax 386-752-2138
 Address PO BOX 3178 LAKE CITY FL 32056 Phone 386-984-6868
 Owners Name Martin Home Builders Phone 386-752-3115
 911 Address 429 SW Morning Glory Dr. Lake City, FL 32024
 Contractors Name Ben Martin Phone 386-984-6868
 Address P.O. Box 1831 LAKE CITY FL 32056

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Mark Disosway P.E. PO Box 868 LAKE CITY FL 32025

Mortgage Lenders Name & Address N/A

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Ener.

Property ID Number 15-4S-16-03023-515 Estimated Cost of Construction 125K

Subdivision Name Rolling Meadows Lot 15 Block _____ Unit _____ Phase _____

Driving Directions Highway 90 West, TL on Sisters Welcome Road, TR on Hope Henry, TL on Morning Glory Drive, Left on the curve. 16th 3rd on left past Buttercup

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage 1 Lot Size 1 acre Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Dr

Actual Distance of Structure from Property Lines - Front 60' Side 45' Side 45' Rear 70'

Total Building Height 19' Number of Stories 1 Heated Floor Area 1740 Roof Pitch 7/12
TOTAL 2304

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 & 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.

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Owner Builder or Authorized Person by Notarized Letter _____ Contractor Signature Ben Martin

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this _____ day of _____ 20

Personally known _____ or Produced Identification _____



Contractors License Number CBC 059077

Competency Card Number _____

NOTARY STAMP/SEAL

Notary Signature

(Revised Sept. 21)



**Columbia County, Florida
Building & Zoning Department**

Number of pages including cover sheet: 2

Date: 6-8-07

To:
MR. MARTIN

Phone: _____
Fax: **752-2138**

From:
Laurie Hodson

Phone: **386-758-1008**
Fax: **386-758-2160**

Remarks: ☐ Urgent ☐ For review ☐ ASAP ☐ Please comment

**Here is the letter from Rolling Meadows Lot 16. Also
I have corrected the permit for Lot 15 to state MFE
to be set @ 106.0ft, Elevation confirmation letter
required before slab.
Thank you, Laurie**

Confidentiality Notice: This facsimile transmission is confidential and is intended only for the review of the party to whom it is addressed. It may contain proprietary and/or privileged information protected by law. If you are not the intended recipient, you may not use, copy or distribute this facsimile message or its attachments. If you have received this transmission in error, please immediately telephone the sender above to arrange for its return.

#15

LOT 15 ROLLING MEADOWS S/D. MARTIN HOME BUILDERS INC 15-4S-16-03023-515 Columbia County 2007 R
WD 1064-728. PO BOX 1831
LAKE CITY, FL 32056 PRINTED 5/11/2007 13:44 CARD 001 of 001
APPR 12/24/2005 CM BY JEFF

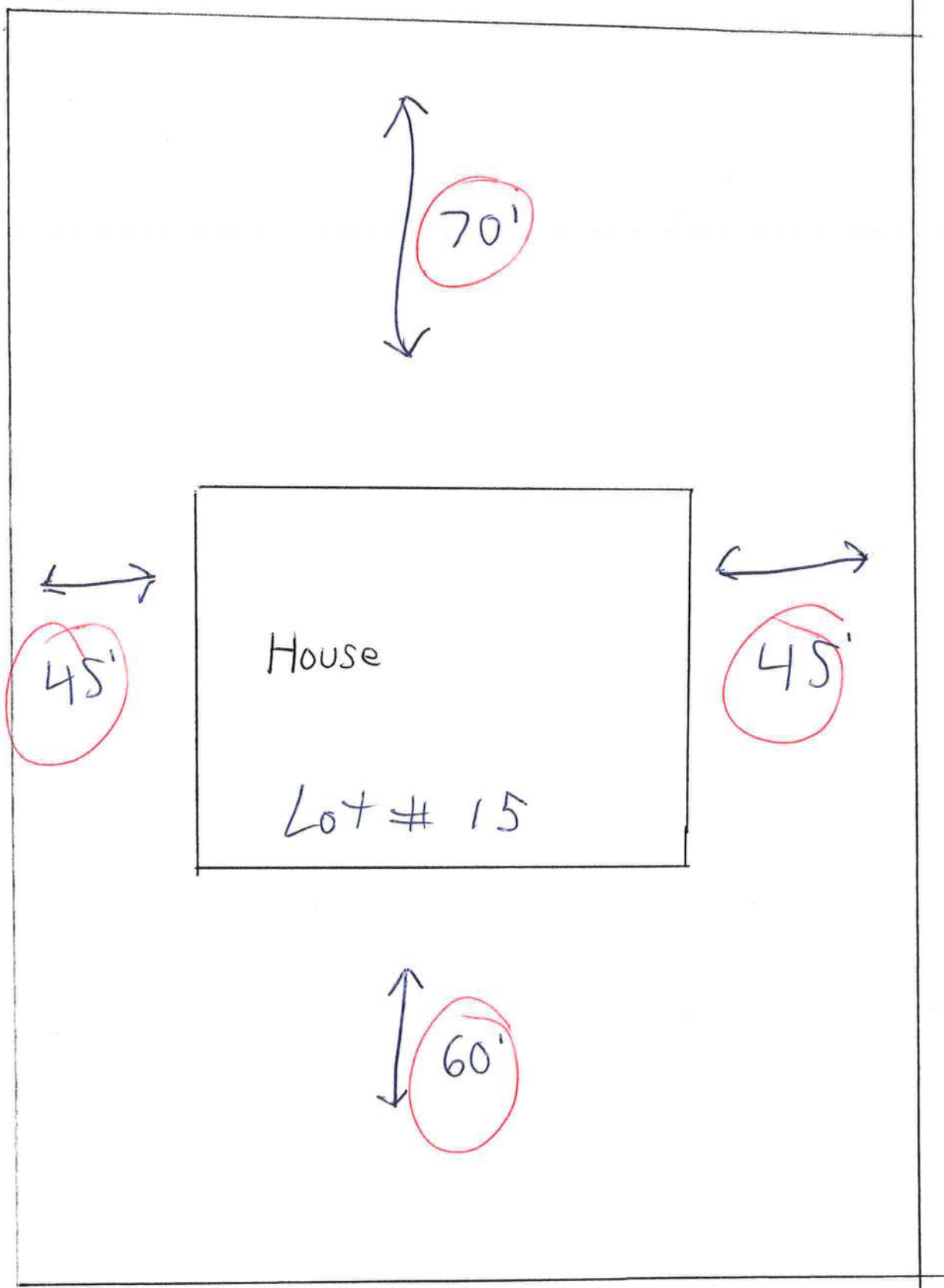
BUSE	AE?	HTD AREA	.000	INDEX	15416.00	DIST 3	STR 15-4S-16E	PUSE	000000	VACANT
MOD		EFF AREA	66.797	E-RATE	.000	INDX	MKT AREA 06			
EXW		RCN	%GOOD	BLDG VAL						
RSTR		RMS								
RCVR		UNTS								
INTW		C-W%								
FLOR		HGHT								
HTTP		PMTR								
A/C		STYS								
QUAL		ECON								
FNDN		FUNC								
SIZE		SPCD								
CEIL		DEPR								
ARCH		UD-1								
FRME		UD-2								
KTCH		UD-3								
WINDO		UD-4								
CLAS		UD-5								
OCC		UD-6								
COND		UD-7								
SUB		UD-8								
A-AREA	%	UD-9								
E-AREA	%									
SUB VALUE										

BOOK	PAGE	DATE	PRICE
1064	728	11/04/2005	U V
GRANTOR	RML HOLDINGS INC		180000
GRANTEE	MARTIN HOME BUILDERS INC		
GRANTOR			
GRANTEE			

TOTAL											GRANTEE										
EXTRA FEATURES																					
AE BN	CODE	DESC	LEN	WID	HGHT	QTY	QL	YR	ADJ	FIELD CK:	UNITS	UT	PRICE	ADJ	UT	PR	SPCD	%	GOOD	XFOB	VALUE
LAND	DESC	ZONE	ROAD	UD1	UD2	UD3	FRONT	DEPTH	FIELD CK:	ADJUSTMENTS	UNITS	UT	PRICE	ADJ	UT	PR	SPCD	%	GOOD	XFOB	VALUE
AE	CODE	TOPO	UTIL	{UD2	{UD4	BACK	DT														
Y	000000	VAC	RES	RSF-2	0007				1.00	1.00	1.00	1.00	1.000	LT	38000.000		38000.00				38,000
0002																					
2007																					

2007

these are approx measures



Road

LYNCH WELL DRILLING, INC.

RT. 6 BOX 464
LAKE CITY, FL 32025
PHONE (386) 752-6677
FAX (386) 752-1477

RESIDENTIAL WATER WELL BUILDING PERMIT INFORMATION

Building Permit # _____ Owners Name Ben Martin

Well Depth _____ Ft. Casing Depth _____ Ft. Water Level _____ Ft.

Casing Size 4 PVC _____ Steel X

Pump Installation: Submersible X Deep Well Jet _____ Shallow Well _____

Pump Make Aermotor Pump Model # S20-100 Hp 1

System Pressure (PSI) _____ On 30 Off 50 Avg. Pressure 50 (PSI)

Pumping System GPM at average pressure and pumping level 20 (GPM)

Tank Installation: Precharged (Baldder) X Atmospheric (Galvanized) _____

Make Challenger Model PC244 Size 81

Tank Draw-down per cycle at system pressure 25.1 Gallons

I HEREBY CERTIFY THAT THIS WATER WELL SYSTEM HAS BEEN
INSTALLED AS PER ABOVE INFORMATION.

Lynch Well Drilling, Inc. Linda Newcomb
Signature Print Name

1274 or 2609 11/20/03
License Number Date

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **704091MartinBen**
Address: **Lot: 15, Sub: Rolling Meadows, Plat:**
City, State: **, FL**
Owner: **Spec House**
Climate Zone: **North**

Builder: **Ben Martin**
Permitting Office: **Columbia**
Permit Number: **25878**
Jurisdiction Number: **221000**

1. New construction or existing	New	___	12. Cooling systems		
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 37.0 kBtu/hr	___
3. Number of units, if multi-family	1	___		SEER: 13.00	___
4. Number of Bedrooms	3	___	b. N/A		___
5. Is this a worst case?	Yes	___	c. N/A		___
6. Conditioned floor area (ft²)	1740 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: 37.0 kBtu/hr	___
a. U-factor:	Description Area			HSPF: 7.90	___
(or Single or Double DEFAULT)	7a. (Dble Default) 236.8 ft²	___	b. N/A		___
b. SHGC:			c. N/A		___
(or Clear or Tint DEFAULT)	7b. (Clear) 236.8 ft²	___	14. Hot water systems		
8. Floor types			a. Electric Resistance	Cap: 40.0 gallons	___
a. Slab-On-Grade Edge Insulation	R=0.0, 177.0(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, 1104.2 ft²	___	DHP-Dedicated heat pump)		___
b. Frame, Wood, Adjacent	R=13.0, 191.0 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, 1860.0 ft²	___	MZ-H-Multizone heating)		___
b. N/A		___			___
c. N/A		___			___
11. Ducts					___
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 170.0 ft	___			___
b. N/A		___			___

Glass/Floor Area: 0.14

Total as-built points: 22764

Total base points: 25985

PASS

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

PREPARED BY: Ben Martin
DATE: 5-17-07

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

OWNER/AGENT: _____
DATE: _____

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: 15, Sub: Rolling Meadows, Plat: , , 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	1740.0	20.04	6276.5	Double, Clear	E	1.5	6.0	30.0	42.06	0.91	1151.8
				Double, Clear	E	9.0	7.0	54.0	42.06	0.46	1042.2
				Double, Clear	E	1.5	7.0	72.0	42.06	0.94	2841.8
				Double, Clear	S	1.5	6.0	15.0	35.87	0.86	460.6
				Double, Clear	W	1.5	7.0	36.0	38.52	0.94	1302.2
				Double, Clear	W	1.5	4.5	8.8	38.52	0.85	288.0
				Double, Clear	N	1.5	2.5	6.0	19.20	0.80	91.8
				Double, Clear	N	1.5	6.0	15.0	19.20	0.94	270.3
				As-Built Total:				236.8	7448.7		
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	191.0	0.70	133.7	Frame, Wood, Exterior	13.0		1104.2	1.50		1656.3	
Exterior	1104.2	1.70	1877.1	Frame, Wood, Adjacent	13.0		191.0	0.60		114.6	
Base Total:				1295.2		2010.8					
				As-Built Total:		1295.2		1770.9			
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	Adjacent Insulated			20.0	1.60		32.0	
				Exterior Insulated			20.0	4.10		82.0	
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	1740.0	1.73	3010.2	Under Attic	30.0		1860.0	1.73 X 1.00		3217.8	
Base Total:				1740.0		3010.2					
				As-Built Total:		1860.0		3217.8			
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	177.0(p)	-37.0	-6549.0	Slab-On-Grade Edge Insulation	0.0		177.0(p)	-41.20		-7292.4	
Raised	0.0	0.00	0.0								
Base Total:				-6549.0		177.0		-7292.4			
				As-Built Total:		177.0		-7292.4			
INFILTRATION Area X BSPM = Points						Area X SPM = Points					
						1740.0		10.21		17765.4	

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

ADDRESS: Lot: 15, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 22710.0				Summer As-Built Points: 23106.4						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
22710.0	0.4266		9688.1	(sys 1: Central Unit 37000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 23106	1.00	(1.09 x 1.147 x 0.91)	0.263	1.000		6901.7
				23106.4	1.00	1.138	0.263	1.000		6901.7

ADDRESS: Lot: 15, Sub: Rolling Meadows, Plat: , , FL, PERMIT #:

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 15, Sub: Rolling Meadows, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT						
Winter Base Points:		13375.0		Winter As-Built Points:			16031.5			
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
13375.0		0.6274	8391.5	(sys 1: Electric Heat Pump 37000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0 16031.5 1.000 (1.069 x 1.169 x 0.93) 0.432 1.000 8042.2 16031.5	1.00	1.162	0.432	1.000	8042.2	

Residential Whole Building Performance Method A - Details

PERMIT #:

CODE COMPLIANCE STATUS											
BASE						AS-BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
9688		8391		7905	25985	6902		8042		7820	22764

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 15, Sub: Rolling Meadows, Plat: , , 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* = 85.4

The higher the score, the more efficient the home.

Spec House, Lot: 15, Sub: Rolling Meadows, Plat: , , FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 37.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 13.00
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft ²)	1740 ft ²	___		___
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: 37.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 236.8 ft ²	___		HSPF: 7.90
b. SHGC:		___	b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Clear) 236.8 ft ²	___	c. N/A	___
8. Floor types		___	14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 177.0(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, 1104.2 ft ²	___	(HR-Heat recovery, Solar	___
b. Frame, Wood, Adjacent	R=13.0, 191.0 ft ²	___	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, 1860.0 ft ²	___	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, 170.0 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.

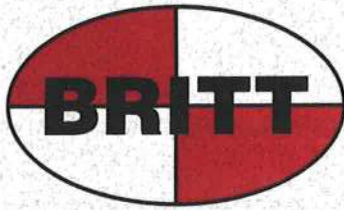
Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



**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)



BRITT SURVEYING

830 West Duval Street • Lake City, FL 32055
Phone (386) 752-7163 • Fax (386) 752-5573

*Land Surveyors
and Mappers*

07/31/07

L-18613

To Whom It May Concern:

C/o: Gary Martin

Re: Lot 15 in Rolling Meadows

The elevation of the foundation is found to be 107.67 feet. The minimum floor elevation as per the plat of record is established to be 106.00 feet. The highest adjacent grade is 106.15 feet and the lowest adjacent grade is 105.85 feet. The elevations shown hereon are based on NGVD 29.


L. Scott Britt
PLS #5757

25178

Residential System Sizing Calculation

Summary

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

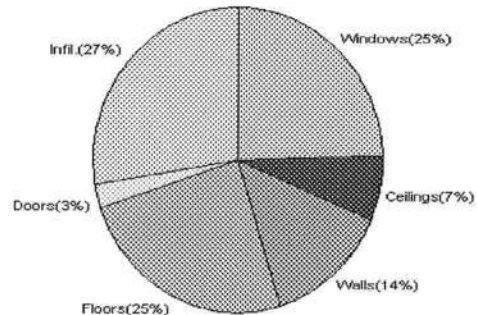
5/17/2007

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	31030 Btuh	Total cooling load calculation	25897 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.2 37000	Sensible (SHR = 0.75)	126.8 27750
Heat Pump + Auxiliary(0.0kW)	119.2 37000	Latent	230.9 9250
		Total (Electric Heat Pump)	142.9 37000

WINTER CALCULATIONS

Winter Heating Load (for 1740 sqft)

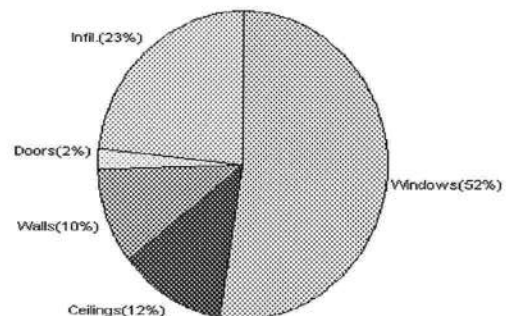
Load component	Load
Window total 237 sqft	7623 Btuh
Wall total 1295 sqft	4254 Btuh
Door total 60 sqft	777 Btuh
Ceiling total 1860 sqft	2192 Btuh
Floor total 177 sqft	7728 Btuh
Infiltration 209 cfm	8458 Btuh
Duct loss	0 Btuh
Subtotal	31030 Btuh
Ventilation 0 cfm	0 Btuh
TOTAL HEAT LOSS	31030 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1740 sqft)

Load component	Load
Window total 237 sqft	13591 Btuh
Wall total 1295 sqft	2591 Btuh
Door total 60 sqft	588 Btuh
Ceiling total 1860 sqft	3080 Btuh
Floor total	0 Btuh
Infiltration 110 cfm	2040 Btuh
Internal gain	0 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
Total sensible gain	21891 Btuh
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	4006 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	0 Btuh
Total latent gain	4006 Btuh
TOTAL HEAT GAIN	25897 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 5-17-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

5/17/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
2	2, Clear, Metal, 0.87	NW	54.0		32.2	1738 Btuh
3	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
4	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
5	2, Clear, Metal, 0.87	SE	36.0		32.2	1159 Btuh
6	2, Clear, Metal, 0.87	SE	8.8		32.2	283 Btuh
7	2, Clear, Metal, 0.87	SW	6.0		32.2	193 Btuh
8	2, Clear, Metal, 0.87	SW	15.0		32.2	483 Btuh
	Window Total		237(sqft)			7623 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1104		3.3	3626 Btuh
2	Frame - Wood - Adj(0.09)	13.0	191		3.3	627 Btuh
	Wall Total		1295			4254 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Adjacent		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	1860		1.2	2192 Btuh
	Ceiling Total		1860			2192Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	177.0	ft(p)	43.7	7728 Btuh
	Floor Total		177			7728 Btuh
	Zone Envelope Subtotal:					22573 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.80	15660	208.8		8458 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					31030 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

5/17/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	31030 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	31030 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 - Room by Room Component Details

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

5/17/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
2	2, Clear, Metal, 0.87	NW	54.0		32.2	1738 Btuh
3	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
4	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
5	2, Clear, Metal, 0.87	SE	36.0		32.2	1159 Btuh
6	2, Clear, Metal, 0.87	SE	8.8		32.2	283 Btuh
7	2, Clear, Metal, 0.87	SW	6.0		32.2	193 Btuh
8	2, Clear, Metal, 0.87	SW	15.0		32.2	483 Btuh
Window Total			237(sqft)			7623 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1104		3.3	3626 Btuh
2	Frame - Wood - Adj(0.09)	13.0	191		3.3	627 Btuh
Wall Total			1295			4254 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Adjacent		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	1860		1.2	2192 Btuh
Ceiling Total			1860			2192Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	177.0	ft(p)	43.7	7728 Btuh
Floor Total			177			7728 Btuh
Zone Envelope Subtotal:						22573 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.80	15660	208.8		8458 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					31030 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

5/17/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	31030 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	31030 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

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

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

5/17/2007

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	1.5ft.	6ft.	30.0	0.0	30.0	29	60	1801	Btuh
2	2, Clear, 0.87, None,N,N	NW	9ft.	7ft.	54.0	0.0	54.0	29	60	3242	Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	7ft.	72.0	0.0	72.0	29	60	4323	Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	6ft.	15.0	0.0	15.0	29	60	901	Btuh
5	2, Clear, 0.87, None,N,N	SE	1.5ft.	7ft.	36.0	9.1	26.9	29	63	1944	Btuh
6	2, Clear, 0.87, None,N,N	SE	1.5ft.	4.5ft.	8.8	3.8	5.0	29	63	422	Btuh
7	2, Clear, 0.87, None,N,N	SW	1.5ft.	2.5ft.	6.0	6.0	0.0	29	63	174	Btuh
8	2, Clear, 0.87, None,N,N	SW	1.5ft.	6ft.	15.0	4.6	10.4	29	63	785	Btuh
Window Total					237 (sqft)					13591 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1104.2			2.1		2303 Btuh	
2	Frame - Wood - Adj	13.0/0.09			191.0			1.5		288 Btuh	
Wall Total						1295 (sqft)					2591 Btuh
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				20.0			9.8		196 Btuh	
2	Insulated - Adjacent				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			1860.0			1.7		3080 Btuh	
Ceiling Total						1860 (sqft)					3080 Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			177 (ft(p))			0.0		0 Btuh	
Floor Total						177.0 (sqft)					0 Btuh
	Zone Envelope Subtotal:									19850 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.42			15660			109.6		2040 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	0			X 230 +			0		0 Btuh		
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									21891 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

5/17/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	21891 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	21891 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21891 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4006 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4006 Btuh
	TOTAL GAIN	25897 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

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

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

5/17/2007

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	1.5ft.	6ft.	30.0	0.0	30.0	29	60	1801	Btuh	
2	2, Clear, 0.87, None,N,N	NW	9ft.	7ft.	54.0	0.0	54.0	29	60	3242	Btuh	
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	7ft.	72.0	0.0	72.0	29	60	4323	Btuh	
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	6ft.	15.0	0.0	15.0	29	60	901	Btuh	
5	2, Clear, 0.87, None,N,N	SE	1.5ft.	7ft.	36.0	9.1	26.9	29	63	1944	Btuh	
6	2, Clear, 0.87, None,N,N	SE	1.5ft.	4.5ft.	8.8	3.8	5.0	29	63	422	Btuh	
7	2, Clear, 0.87, None,N,N	SW	1.5ft.	2.5ft.	6.0	6.0	0.0	29	63	174	Btuh	
8	2, Clear, 0.87, None,N,N	SW	1.5ft.	6ft.	15.0	4.6	10.4	29	63	785	Btuh	
Window Total						237 (sqft)					13591 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			1104.2			2.1		2303 Btuh		
2	Frame - Wood - Adj	13.0/0.09			191.0			1.5		288 Btuh		
Wall Total						1295 (sqft)					2591 Btuh	
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Exterior				20.0			9.8		196 Btuh		
2	Insulated - Adjacent				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			1860.0			1.7		3080 Btuh		
Ceiling Total						1860 (sqft)					3080 Btuh	
Floors	Type	R-Value			Size			HTM		Load		
1	Slab On Grade	0.0			177 (ft(p))			0.0		0 Btuh		
Floor Total						177.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:										19850 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load		
	SensibleNatural	0.42			15660			109.6		2040 Btuh		
Internal gain	Occupants			Btuh/occupant			Appliance		Load			
	0			X 230 +			0		0 Btuh			
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic) DGM = 0.00										0.0 Btuh	
	Sensible Zone Load										21891 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

5/17/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	21891 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	21891 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21891 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4006 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4006 Btuh
	TOTAL GAIN	25897 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

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

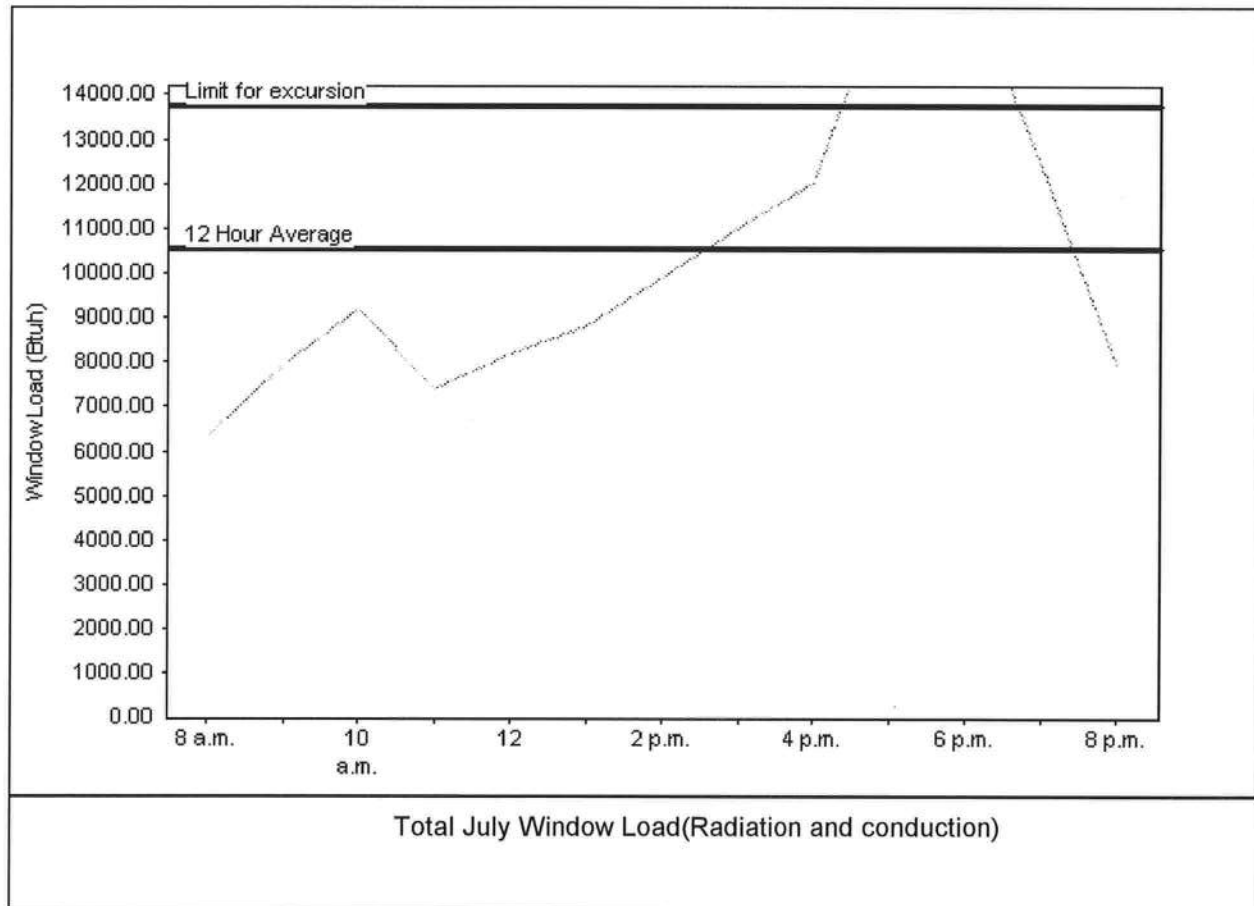
Class 3 Rating
Registration No. 0
Climate: North

5/17/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	10564 Btu
Summer setpoint	75 F	Peak window load for July	16840 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	13733 Btu
Latitude	29 North	Window excursion (July)	3107 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: *[Signature]*

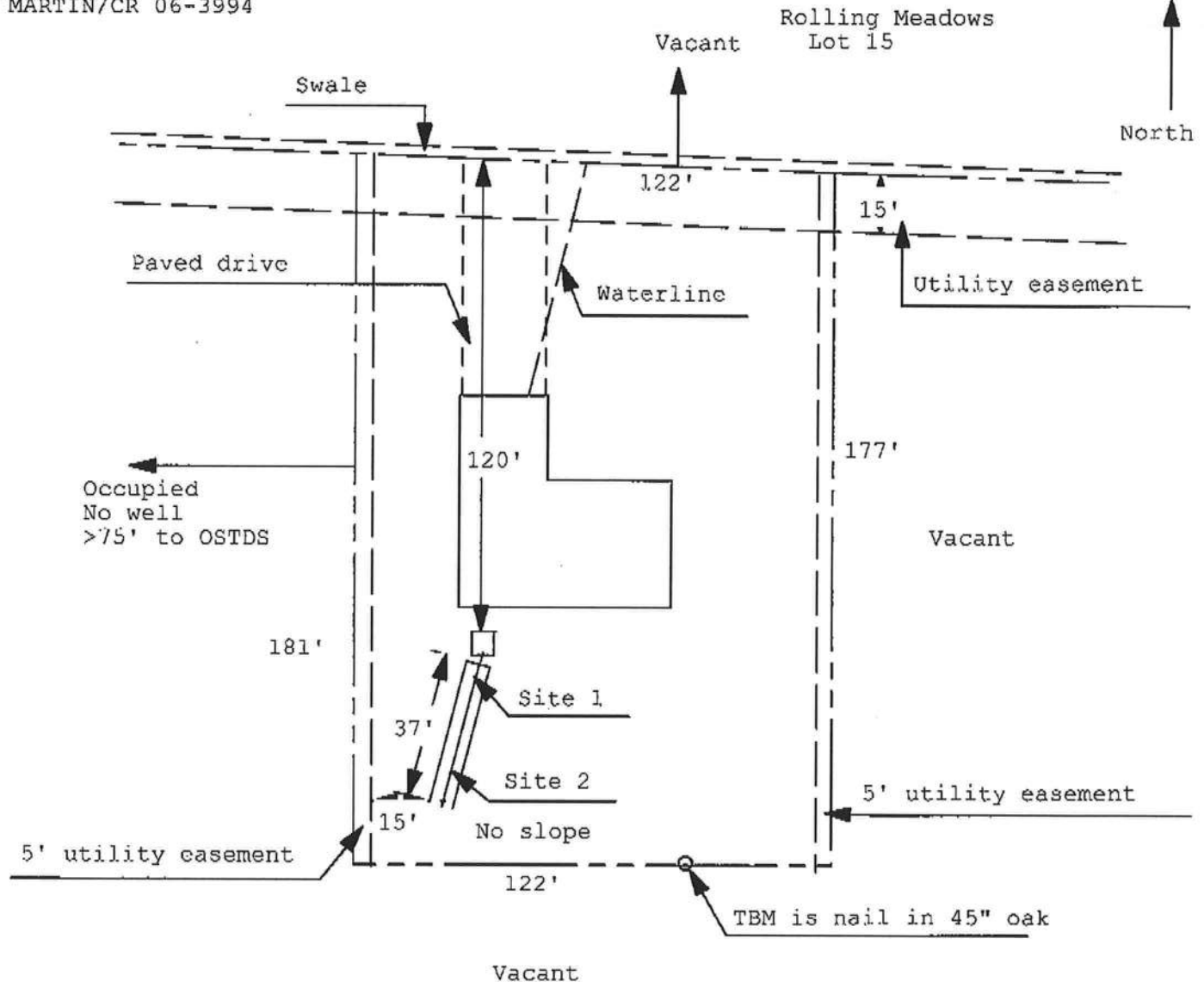
DATE: 5-17-07



**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 07-431

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

MARTIN/CR 06-3994



1 inch = 40 feet

Site Plan Submitted By Paul Lloyd Date 5/23/07
 Plan Approved ☒ Not Approved ☐ Date 5/29/07

By M. O. L. Columbia CPHU

Notes: _____

0705-48

Lot # 15

R.M.

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

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.

Tax Parcel ID Number 15-4S-16-03023-515

1. Description of property: (legal description of the property and street address or R11 address)

Lot # 15 Rolling Meadows S/D. WD 1064-728

2. General description of improvement: New Home

3. Owner Name & Address Martin Home Builders PO Box 1831
LAKE CITY FL 32056 Interest in Property 100%

4. Name & Address of Fee Simple Owner (if other than owner):

5. Contractor Name Ben Martin Phone Number 386-752-3115
Address PO BOX 1831 LAKE CITY FL 32056

6. Surety Holders Name _____ Phone Number _____

Amount of Bond _____

7. Lender Name N/A Phone Number _____
Address _____

8. Persons within the State of Florida designated as provided by section 713.13 (1)(a) 7: F1

Name _____ Inst: 2007011311 Date: 05/21/2007 Time: 12:18
Address _____ DC, P. Dewitt Cason, Columbia County B: 1119 P: 2202

9. In addition to himself/herself the owner desires _____ of _____

to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -
(a) 7. Phone Number of the designee _____

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, unless a different date is specified) _____

NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Ben Martin
Signature of Owner



Sworn to (or affirmed) and subscribed before
day of _____, 20____

NOTARY STAMP/SEAL

Elizabeth Carrender
Signature of Notary

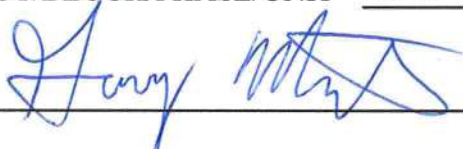
Columbia County Building Department Culvert Permit

Culvert Permit No.
000001393

DATE 06/01/2007 PARCEL ID # 15-4S-16-03023-515
APPLICANT GARY MARTIN PHONE 984-6868
ADDRESS P.O. BOX 3178 LAKE CITY FL 32056
OWNER BEN MARTIN PHONE 984-6868
ADDRESS 429 SW MORNING GLORY DR LAKE CITY FL 32024
CONTRACTOR BEN MARTIN PHONE 984-6868
LOCATION OF PROPERTY 90W, TL ON SISTER'S WELCOME RD, TR ON HOPE HENRY, TL ON
MORNING GLORY DR, 3RD LOT ON LEFT PAST BUTTERCUP

SUBDIVISION/LOT/BLOCK/PHASE/UNIT ROLLING MEADOWS 15

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 INSTALATION 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



Residential System Sizing Calculation

Summary

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

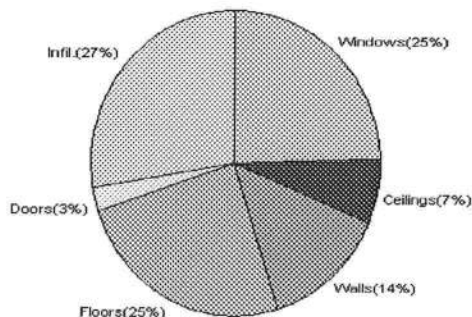
5/17/2007

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	31030 Btuh	Total cooling load calculation	25897 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.2 37000	Sensible (SHR = 0.75)	126.8 27750
Heat Pump + Auxiliary(0.0kW)	119.2 37000	Latent	230.9 9250
		Total (Electric Heat Pump)	142.9 37000

WINTER CALCULATIONS

Winter Heating Load (for 1740 sqft)

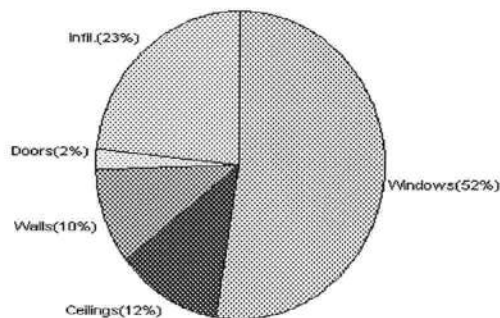
Load component		Load	
Window total	237 sqft	7623	Btuh
Wall total	1295 sqft	4254	Btuh
Door total	60 sqft	777	Btuh
Ceiling total	1860 sqft	2192	Btuh
Floor total	177 sqft	7728	Btuh
Infiltration	209 cfm	8458	Btuh
Duct loss		0	Btuh
Subtotal		31030	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		31030	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1740 sqft)

Load component		Load	
Window total	237 sqft	13591	Btuh
Wall total	1295 sqft	2591	Btuh
Door total	60 sqft	588	Btuh
Ceiling total	1860 sqft	3080	Btuh
Floor total		0	Btuh
Infiltration	110 cfm	2040	Btuh
Internal gain		0	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		21891	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		4006	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		0	Btuh
Total latent gain		4006	Btuh
TOTAL HEAT GAIN		25897	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 5-17-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

5/17/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
2	2, Clear, Metal, 0.87	NW	54.0		32.2	1738 Btuh
3	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
4	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
5	2, Clear, Metal, 0.87	SE	36.0		32.2	1159 Btuh
6	2, Clear, Metal, 0.87	SE	8.8		32.2	283 Btuh
7	2, Clear, Metal, 0.87	SW	6.0		32.2	193 Btuh
8	2, Clear, Metal, 0.87	SW	15.0		32.2	483 Btuh
Window Total			237(sqft)			7623 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1104		3.3	3626 Btuh
2	Frame - Wood - Adj(0.09)	13.0	191		3.3	627 Btuh
Wall Total			1295			4254 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Adjacent		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	1860		1.2	2192 Btuh
Ceiling Total			1860			2192Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	177.0 ft(p)		43.7	7728 Btuh
Floor Total			177			7728 Btuh
Zone Envelope Subtotal:						22573 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.80	15660	208.8		8458 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					31030 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

5/17/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	31030 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	31030 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 - Room by Room Component Details

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

5/17/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
2	2, Clear, Metal, 0.87	NW	54.0		32.2	1738 Btuh
3	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
4	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
5	2, Clear, Metal, 0.87	SE	36.0		32.2	1159 Btuh
6	2, Clear, Metal, 0.87	SE	8.8		32.2	283 Btuh
7	2, Clear, Metal, 0.87	SW	6.0		32.2	193 Btuh
8	2, Clear, Metal, 0.87	SW	15.0		32.2	483 Btuh
Window Total			237(sqft)			7623 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1104		3.3	3626 Btuh
2	Frame - Wood - Adj(0.09)	13.0	191		3.3	627 Btuh
Wall Total			1295			4254 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Adjacent		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	1860		1.2	2192 Btuh
Ceiling Total			1860			2192Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	177.0 ft(p)		43.7	7728 Btuh
Floor Total			177			7728 Btuh
Zone Envelope Subtotal:						22573 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.80	15660	208.8		8458 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					31030 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

5/17/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	31030 Btuh 0 Btuh 31030 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

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

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

5/17/2007

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

Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6ft.	30.0	0.0	30.0	29	60	1801	Btuh
2	2, Clear, 0.87, None,N,N	NW	9ft.	7ft.	54.0	0.0	54.0	29	60	3242	Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	7ft.	72.0	0.0	72.0	29	60	4323	Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	6ft.	15.0	0.0	15.0	29	60	901	Btuh
5	2, Clear, 0.87, None,N,N	SE	1.5ft.	7ft.	36.0	9.1	26.9	29	63	1944	Btuh
6	2, Clear, 0.87, None,N,N	SE	1.5ft.	4.5ft.	8.8	3.8	5.0	29	63	422	Btuh
7	2, Clear, 0.87, None,N,N	SW	1.5ft.	2.5ft.	6.0	6.0	0.0	29	63	174	Btuh
8	2, Clear, 0.87, None,N,N	SW	1.5ft.	6ft.	15.0	4.6	10.4	29	63	785	Btuh
Window Total					237 (sqft)					13591 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load			
1	Frame - Wood - Ext	13.0/0.09		1104.2		2.1		2303 Btuh			
2	Frame - Wood - Adj	13.0/0.09		191.0		1.5		288 Btuh			
Wall Total					1295 (sqft)				2591 Btuh		
Doors	Type			Area (sqft)		HTM		Load			
1	Insulated - Exterior			20.0		9.8		196 Btuh			
2	Insulated - Adjacent			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		1860.0		1.7		3080 Btuh			
Ceiling Total					1860 (sqft)				3080 Btuh		
Floors	Type	R-Value		Size		HTM		Load			
1	Slab On Grade	0.0		177 (ft(p))		0.0		0 Btuh			
Floor Total					177.0 (sqft)				0 Btuh		
Zone Envelope Subtotal:									19850 Btuh		
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load			
	SensibleNatural	0.42		15660		109.6		2040 Btuh			
Internal gain	Occupants		Btuh/occupant		Appliance		Load				
	0		X 230 +		0		0 Btuh				
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)						DGM = 0.00		0.0 Btuh		
Sensible Zone Load									21891 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

5/17/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	21891 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	21891 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21891 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4006 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4006 Btuh
	TOTAL GAIN	25897 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

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

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

5/17/2007

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6ft.	30.0	0.0	30.0	29	60	1801	Btuh	
2	2, Clear, 0.87, None,N,N	NW	9ft.	7ft.	54.0	0.0	54.0	29	60	3242	Btuh	
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	7ft.	72.0	0.0	72.0	29	60	4323	Btuh	
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	6ft.	15.0	0.0	15.0	29	60	901	Btuh	
5	2, Clear, 0.87, None,N,N	SE	1.5ft.	7ft.	36.0	9.1	26.9	29	63	1944	Btuh	
6	2, Clear, 0.87, None,N,N	SE	1.5ft.	4.5ft.	8.8	3.8	5.0	29	63	422	Btuh	
7	2, Clear, 0.87, None,N,N	SW	1.5ft.	2.5ft.	6.0	6.0	0.0	29	63	174	Btuh	
8	2, Clear, 0.87, None,N,N	SW	1.5ft.	6ft.	15.0	4.6	10.4	29	63	785	Btuh	
Window Total						237 (sqft)					13591 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			1104.2			2.1		2303 Btuh		
2	Frame - Wood - Adj	13.0/0.09			191.0			1.5		288 Btuh		
Wall Total						1295 (sqft)					2591 Btuh	
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Exterior				20.0			9.8		196 Btuh		
2	Insulated - Adjacent				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			1860.0			1.7		3080 Btuh		
Ceiling Total						1860 (sqft)					3080 Btuh	
Floors	Type	R-Value			Size			HTM		Load		
1	Slab On Grade	0.0			177 (ft(p))			0.0		0 Btuh		
Floor Total						177.0 (sqft)					0 Btuh	
Zone Envelope Subtotal:										19850 Btuh		
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load		
	SensibleNatural	0.42			15660			109.6		2040 Btuh		
Internal gain	Occupants			Btuh/occupant			Appliance		Load			
	0			X 230 +			0		0 Btuh			
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh		
Sensible Zone Load										21891 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

Class 3 Rating
Registration No. 0
Climate: North

5/17/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	21891 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	21891 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21891 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4006 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4006 Btuh
	TOTAL GAIN	25897 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

Spec House
429 SW Morning Glory Dr.
, FL

Project Title:
704091MartinBen

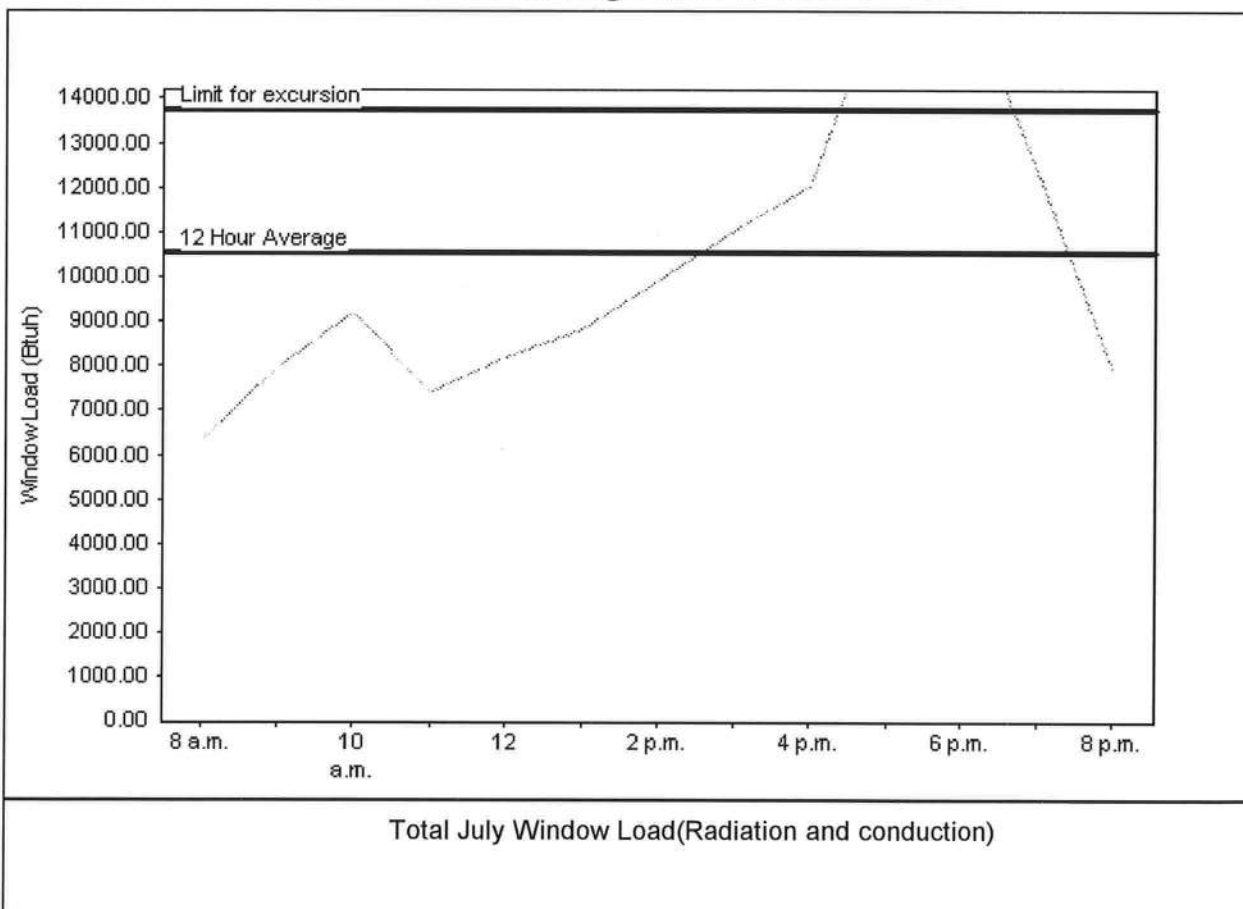
Class 3 Rating
Registration No. 0
Climate: North

5/17/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	10564 Btu
Summer setpoint	75 F	Peak window load for July	16840 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	13733 Btu
Latitude	29 North	Window excursion (July)	3107 Btu

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: Y. J. J. J.

DATE: 5-17-07

EnergyGauge® FLR2PB v4.1





January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

TAMKO Roofing Products, Inc.

THERMA-TRU® CONSTRUCTION SERIES™ INSWING 6-8 SINGLE AND DOUBLE W/8 WOOD SIDELITES, INSULATED STEEL DOOR WITH WOOD FRAMES.

- GENERAL NOTES**
1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
 2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
 3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN. ON DETAILS ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
 4. DESIGNED PRESSURE RATING. SEE TABLE PAGE 1.
 5. THIS PRODUCT WAS TESTED FOR 2.86 LBS. WATER PRESSURE AS PER ASTM-E-331.
 6. THIS PRODUCT DOES NOT MEET THE WATER REQUIREMENTS FOR MIAMI-DADE COUNTY WITHOUT PROPER OVERHANG.
 7. MIAMI-DADE APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED FOR SIDELITES ONLY.
 8. SIDELITES ARE AN OPTION AND CAN BE USED IN A SINGLET OR DOUBLE CONFIGURATION.

RESIDENTIAL INSULATED STEEL DOOR
 (Common to all frame conditions)

Door & Sidelite Panel Construction:
 Face sheets: .25 GA (0.0118") minimum thickness.
 Uncoated steel A-575 commercial quality - 4X100 psi
 per ASTM A-620 with yield strength $F_y(\text{min.}) = 27,530$ psi
 per design frequency load core, with 1.9 lbs density
 by BASF.

Door Panel Construction: Flush or embossed type. The vertical edges of the skin, formed to provide a mechanical interlock with finger jointed pine stiles. Wood and stile are butt jointed and dressed into an exact cement to the wood stiles at the corners.

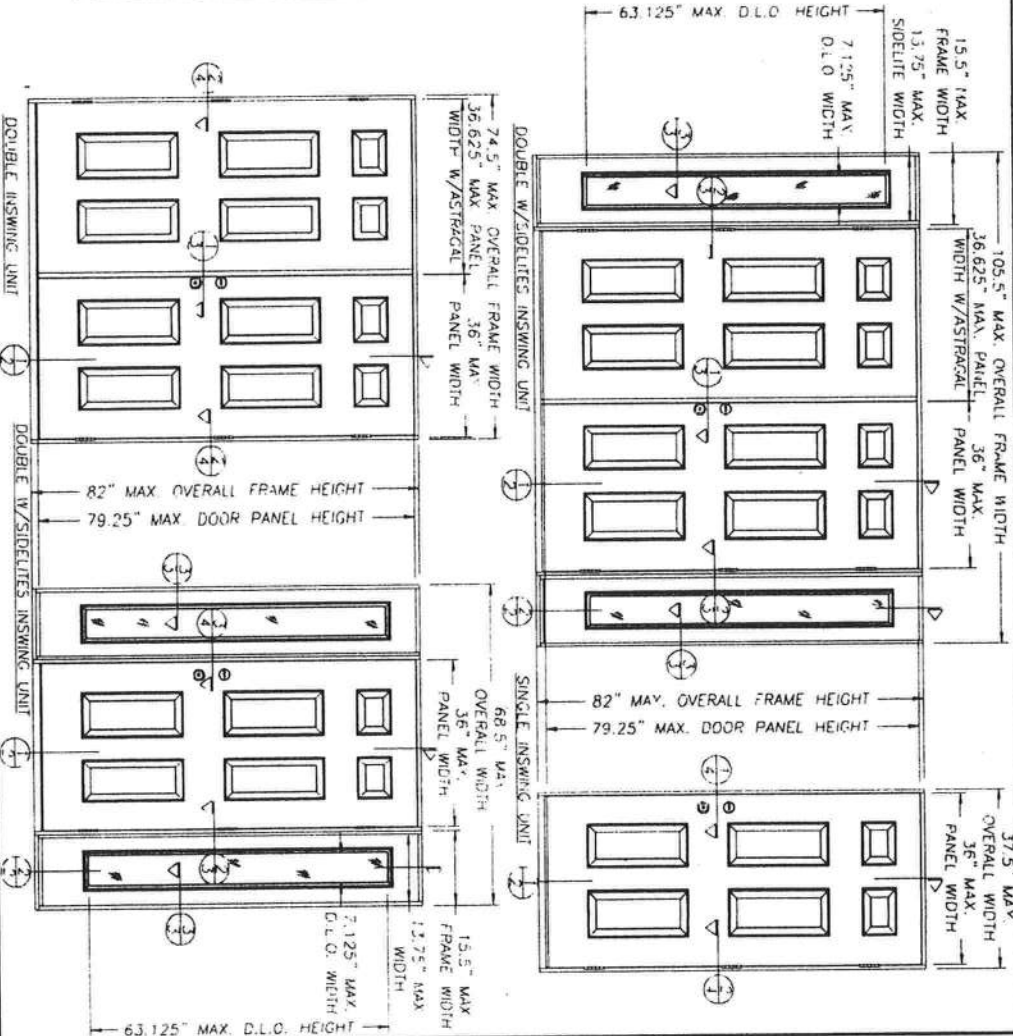
Sidelite Panel Construction and Glazing: The vertical edges of the skin are rolled to meet to provide a mechanical interlock with finger jointed pine stiles. Wood and stile are butt jointed and dressed into an exact cement to the wood stiles at the corners. The sidelite panel is formed using a two piece lite frame with mitered & welded corners.

Frame Construction: The frame is constructed from finger jointed Pine measuring 4.575" wide x 1.211" thick. The frame is joined to the side jamb with (3) 16ga. 1/2" long staples with (2) 16ga. 1/2" crown x 2" long staples at each side. The mullions are secured together in a stable application using #8 x 2" long PTH Wood Screws (5) screws per each mullion. The unit uses an inswing Saddle threshold measuring 5.75" x 1.548".

SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	VERTICAL CROSS SECTIONS
3	HORIZONTAL CROSS SECTIONS & NOTES
4	ANCHORING LOCATIONS & DETAILS
5	ANCHORING LOCATIONS & GLAZING DETAILS
6	UNIT COMPONENTS
7	UNIT COMPONENTS
8	BILL OF MATERIALS & UNIT COMPONENTS

DESIGN PRESSURE RATING	
UNIT TYPE	DESIGN PRESSURE
SINGLE	+ 67.0 PSF - 67.0 PSF
DOUBLE	+ 60.0 PSF - 60.0 PSF
SINGLE OR DOUBLE W/SIDELITES	+ 60.0 PSF - 60.0 PSF

DATE 2/22/01
 SCALE N.T.S.
 DMC BY TJH
 CHK BY RW
 DRAWING NO. S-2114
 SHEET 1 OF 5



PRODUCT
 "CONSTRUCTION SERIES"
 6-8 SINGLE & DOUBLE
 IN-SWING STEEL DOOR

PART OR ASSEMBLY
 TYPICAL ELEVATIONS
 & GENERAL NOTES

THERMA-TRU CORPORATION
 1687 WOODLANDS DRIVE
 MAUMEE, OHIO 43537
 PHONE 800.537.8827

BY
 DATE
 REVISIONS

R
W
B
C

R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

P.O. Box 230 Valrico, FL 33594 Phone 813.684.3831

Facsimile 813.684.3954

ENGINEER'S NOTICE OF EVALUATION # MSH-105F

Mayfair Window & Doors

4100 Cameron Street

Lafayette, LA 70506

Phone 800.999.2470 Facsimile 337.235.6657

DESCRIPTION OF UNIT**Model Designation:** Single Hung Extruded Aluminum Fin Frame W/Tilt Sash Window Series 570 / 530**Maximum Overall Nominal Size:** up to 44.0" x 72.0" **Usable Configurations:** $\frac{O}{X}$

General Description: The jambs are extruded aluminum with a minimum wall thickness of 0.047". The 530 Tilt series is glazed with 1/8" clear annealed glass and the 570 Tilt series is glazed with 1/2" insulated clear annealed glass. The active sash stiles and top rail are weather-stripped on the exterior sides with a fin seal. The bottom of the operable sash has a 0.350" high vinyl bulb. The sash is operated with a spiral balance system and locked with two locks located on the meeting rail. The window frames are coped corner construction and fastened with two #8 x 1/4" SMS at each frame head and sill corners. The window is weeped with two 3/4" weep notches located one at each end of the sill screen retainer leg.

FBC Section 1707 Materials and Assembly Tests:

(1707.4.2 Exterior Windows and Glass Doors)

Test	Description	Test Location	Date	Report No.	Certifying Technician
ASTM E330	Uniform Static Air Pressure	Mid America Testing Certified Testing Laboratories	December 10, 2001 August 14, 2001	01085W-A CTLA-706WR	Travis Swinheim, Tech. James Blakely, VP
AAMA 1302.5	Forced Entry	Certified Testing Laboratories	August 14, 2001	CTLA-706WR	James Blakely, VP
ASTM E331	Water Penetration	Certified Testing Laboratories	August 14, 2001	CTLA-706WR	James Blakely, VP
ASTM E283	Air Infiltration	Certified Testing Laboratories	August 14, 2001	CTLA-706WR	James Blakely, VP
TAS 201/203	**Large Missile Impact/Cycling	NA	NA	NA	NA

** This product does not meet windborne debris criteria.

Design Pressure Ratings:

Configuration	Maximum Size	Design Pressure Ratings
Single Hung	Up To 44" x 72"	+45.00 -45.00

Installation and Anchoring: See reverse side this page**Use**

1. Evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ASCE 7 Minimum Design Loads for Buildings and Other Structures do not exceed the design pressure ratings listed above.

2. For Masonry installations where the sub-buck is less than 1-1/2 inches (FBC section 1707.4.4 Anchorage Methods and sub-sections 1707.4.4.1 and 1707.4.4.2) same diameter Tapcon type concrete anchors must be substituted and the length must be such that a minimum 1-1/4" engagement of the Tapcon into the masonry wall is obtained.

Certification: Florida Professional Engineer - Seal No. 43409

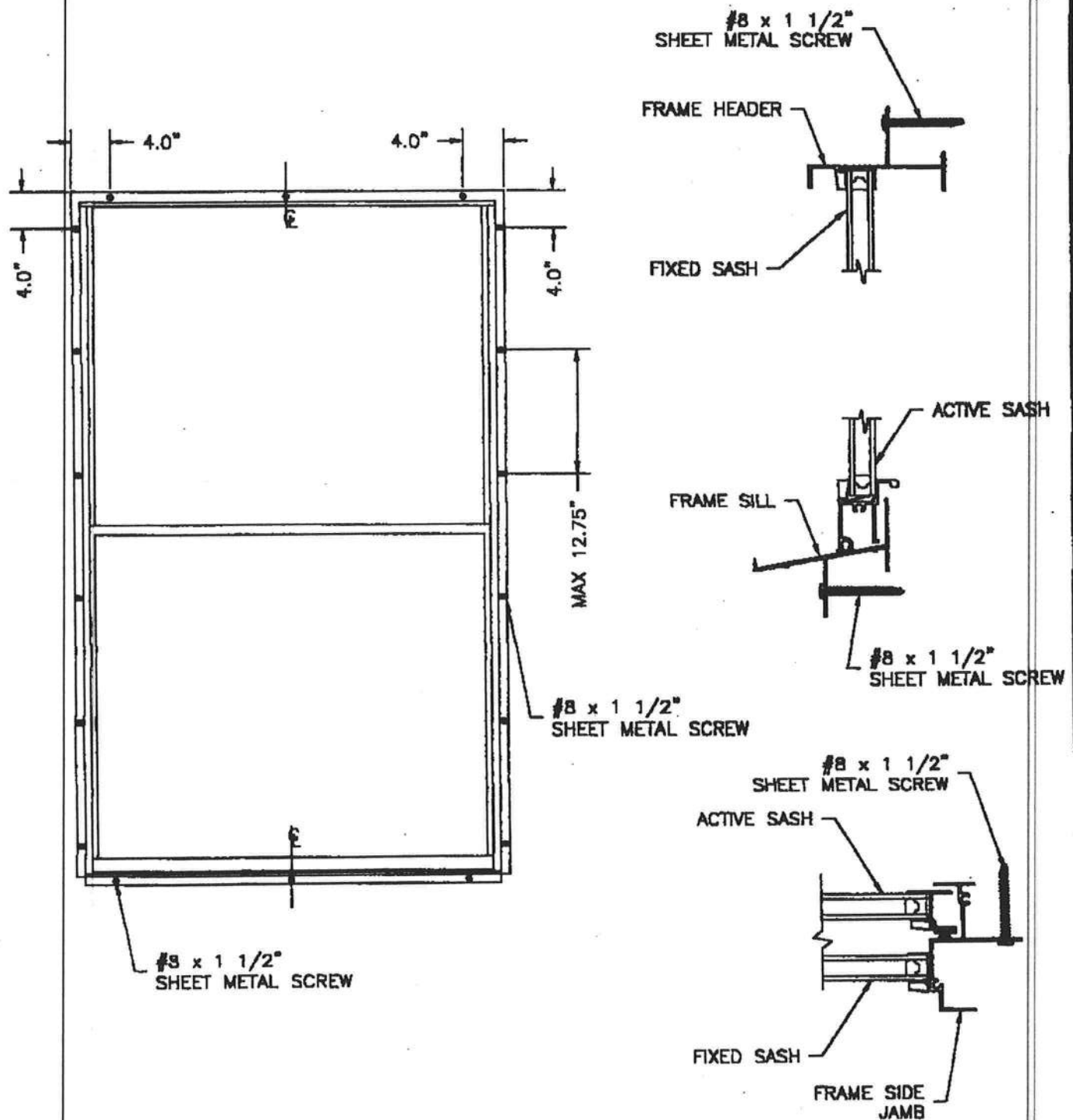
April 20, 2002

Lyndon F. Schmidt

19506 French Lace Drive

Lutz, FL 33558

Mayfair Windows & Doors Tilt Series 570/530
Maximum Size Up To 44.0" x 72.0"
Single Hung Extruded Aluminum Windows



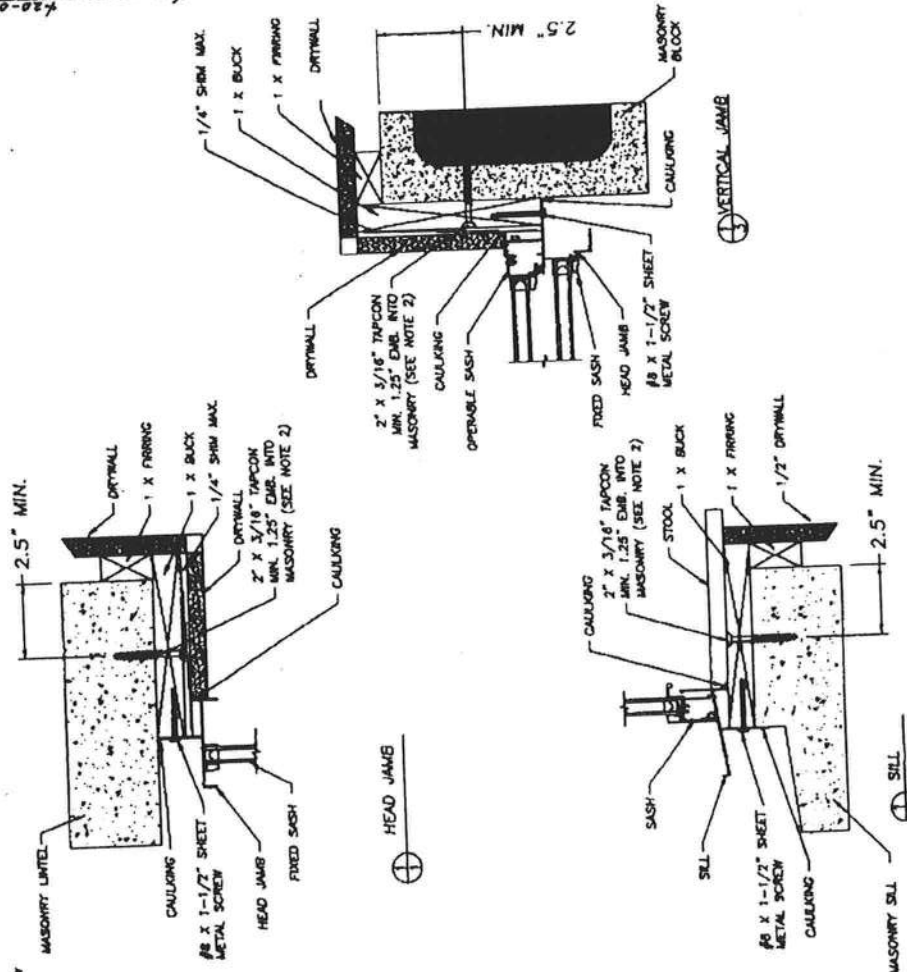
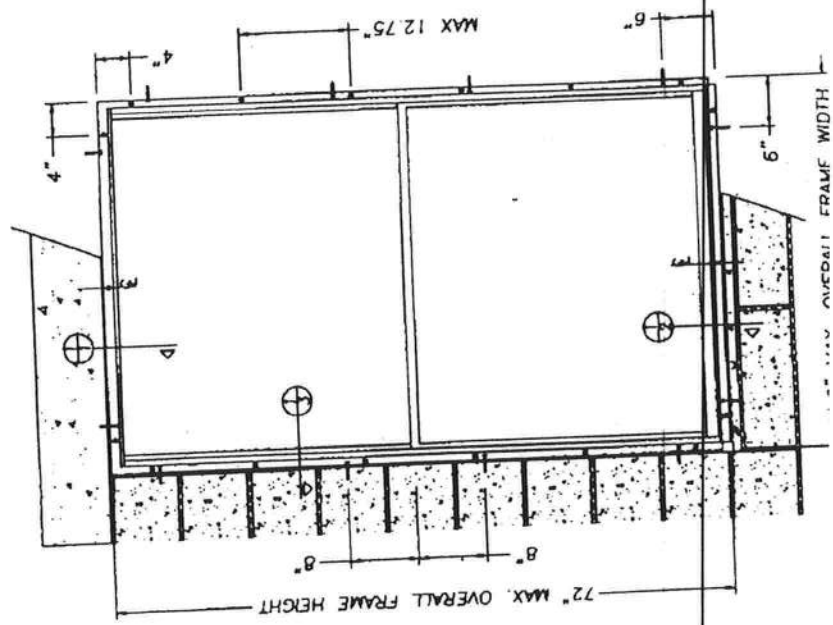
MODEL DESIGNATION: Mayfair 570/530 Series Single Hung Aluminum Window

MAXIMUM OVERALL NOMINAL SIZE: Single up to 44" x 72"

DESIGN PRESSURE RATINGS: Anchors: Positive 43.0 PSF Negative 45.0 PSF
Windows: Design Pressure Ratings Vary; See Corresponding Test Report, Code NOA or Florida, P.E. Evaluation.

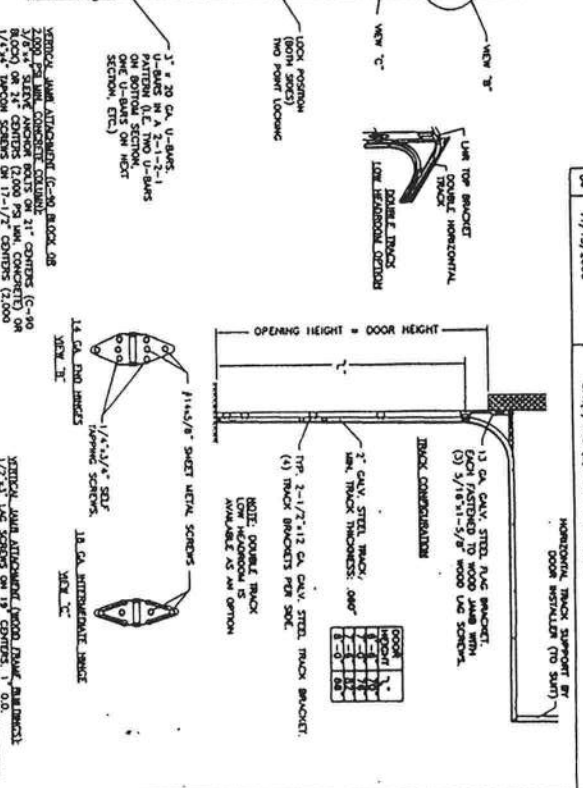
USABLE CONFIGURATIONS: The head and side jamba are extruded Aluminum.

GENERAL DESCRIPTION: The noding flange is 0.047" thick.

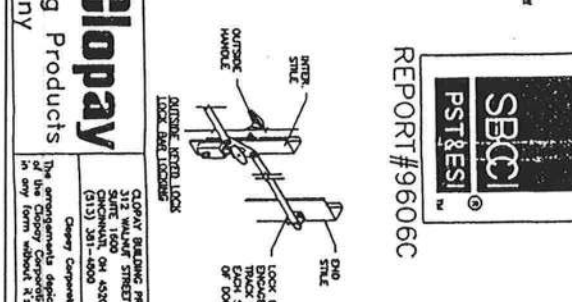


NOTE:

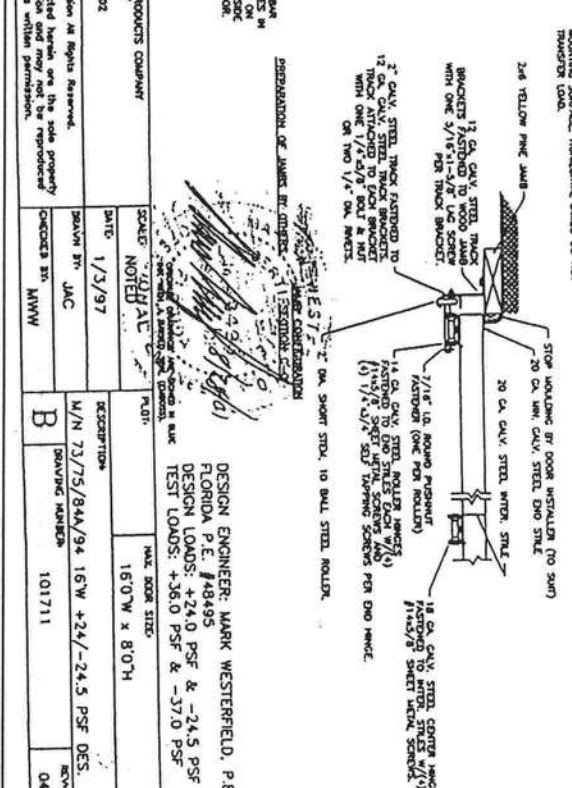
1. This installation has been evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ASCE 7 Minimum Design Loads for Buildings and Other Structures do not exceed the design pressure ratings listed herein.
2. When using a 2 X 4 buck, the 2\" tapcon type anchor must be changed to a 3\" tapcon type anchor to allow for minimum 1-1/4\" embedment into the masonry.
3. All fastener heads on the exterior side of the frame of the buck must be caulked to prevent moisture damage.
4. Both exterior bottom corners of the frame of the buck must be caulked to prevent moisture damage.



~~4. Name the two categories of the following:~~



LISTED
SBCCI
PST&ESI
®



DESCRIPTION*		16'0" W x 8'0" H
M/N	73/75/84X/94	16'W x 24' - 24.5 PSF DES.
DRAWING NUMBER	101711	REV. Q4
B		

1607W x 807H	104
3/75/84A/94 16W +24/-24.5 PSF DES.	104
GRAVING NUMBER	101711
101711	104

LATERAL TOE-NAIL DETAIL

ST-TOENAIL

MITek Industries, Chesterfield, MO Page 1 of 1

NOTES:

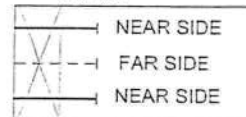
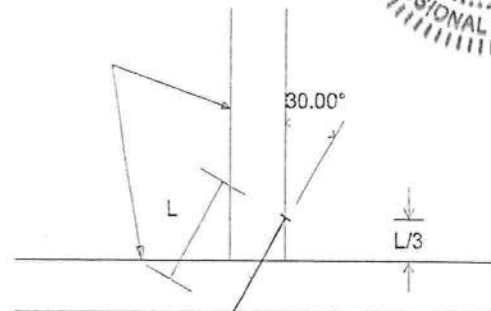
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF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

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

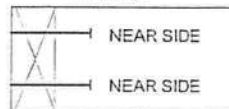
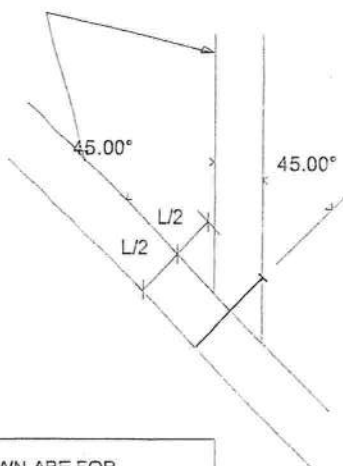
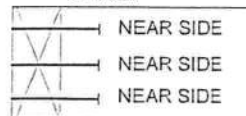
	DIAM.	SYP
3.5" LONG	.131	83.3
	.135	89.6
	.162	118.3
3.25" LONG	.128	80.5
	.131	83.3
	.148	102.1
3.0" LONG	.120	70.5
	.128	80.5
	.131	83.3
	.148	102.1

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

SQUARE CUT

SIDE VIEW
(2x4, 2x6)
3 NAILSSIDE VIEW
(2x3)
2 NAILS45 DEGREE ANGLE
BEVEL CUT

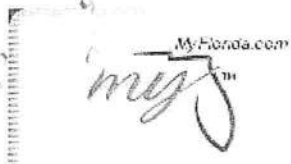
This detail may only be applied to Pre-engineered truss drawings signed and sealed by Structural Engineering and Inspections Inc.

SIDE VIEW
(2x3, 2x4)
2 NAILSSIDE VIEW
(2x6)
3 NAILS

VIEWS SHOWN ARE FOR
 ILLUSTRATION PURPOSES ONLY

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

MAY 14 2007

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Name: **MARTIN, BENNETT G (Primary Name)**
MARTIN HOME BUILDERS INC (DBA Name)
Main Address: **POST OFFICE BOX 1831**
LAKE CITY Florida 32056
County: **COLUMBIA**

License Mailing:

License Location: **RT 9 BOX 1051**
LAKE CITY FL 32024
County: **COLUMBIA**

License Information

License Type: **Certified Building Contractor**
Rank: **Cert Building**
License Number: **CBC059077**
Status: **Current,Active**
Licensure Date: **08/03/1999**
Expires: **08/31/2008**

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Job L239083	Truss CJ1	Truss Type JACK	Qty 12	Ply 1	MARTIN ESTERIOS - EVAN I SPEC
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon May 14 09:36:20 2007 Page 1		

Scale = 1:10.0

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.01	Vert(LL) -0.00 2 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.00 2 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 3 n/a n/a		
	Code FBC2004/TPI2002			Weight: 7 lb	

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

REACTIONS (lb/size) 2=267/0-4-0, 4=14/Mechanical, 3=-91/Mechanical
 Max Horz 2=101(load case 5)
 Max Uplift 2=-296(load case 5), 4=-11(load case 3), 3=-91(load case 1)
 Max Grav 2=267(load case 1), 4=14(load case 1), 3=137(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/53, 2-3=-78/87
 BOT CHORD 2-4=0/0

JOINT STRESS INDEX
 2 = 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 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 296 lb uplift at joint 2, 11 lb uplift at joint 4 and 91 lb uplift at joint 3.

LOAD CASE(S) Standard

MAY 14, 2007, TRUSS DESIGN ENGINEER:
 THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
 STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
 16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Job L239083	Truss CJ3	Truss Type JACK	Qty 6	Ply 1	MARTIN ESTERIORES - EVAN I SPEC
Builders FirstSource, Lake City, Fl 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon May 14 09:36:20 2007 Page 1		

Scale = 1:15.6

Plate Offsets (X,Y): [2-0-3-3-0-1-8]									
LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.29	Vert(LL) 0.01	2-4	>999	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.08	Vert(TL) -0.01	2-4	>999	180			
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
Weight: 13 lb									

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

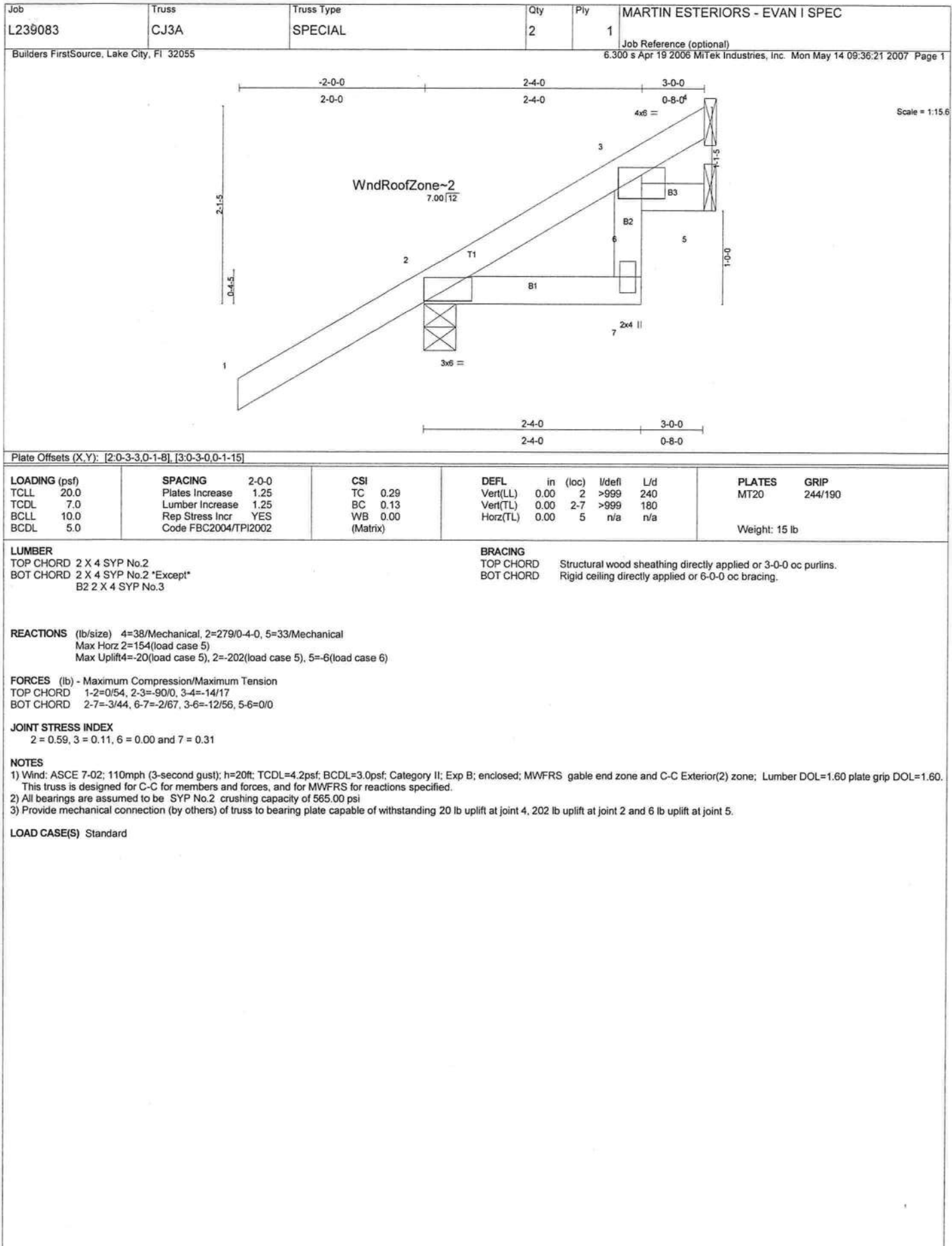
REACTIONS (lb/size) 3=29/Mechanical, 2=279/0-4-0, 4=42/Mechanical
 Max Horz 2=154(load case 5)
 Max Uplift 3=30(load case 6), 2=-237(load case 5), 4=-33(load case 3)
 Max Grav 3=31(load case 3), 2=279(load case 1), 4=42(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/54, 2-3=-65/15
 BOT CHORD 2-4=0/0

JOINT STRESS INDEX
 2 = 0.12

NOTES
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3, 237 lb uplift at joint 2 and 33 lb uplift at joint 4.

LOAD CASE(S) Standard





Job L239083	Truss CJ5A	Truss Type SPECIAL	Qty 2	Ply 1	MARTIN ESTERIOS - EVAN I SPEC
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon May 14 09:36:22 2007 Page 1		

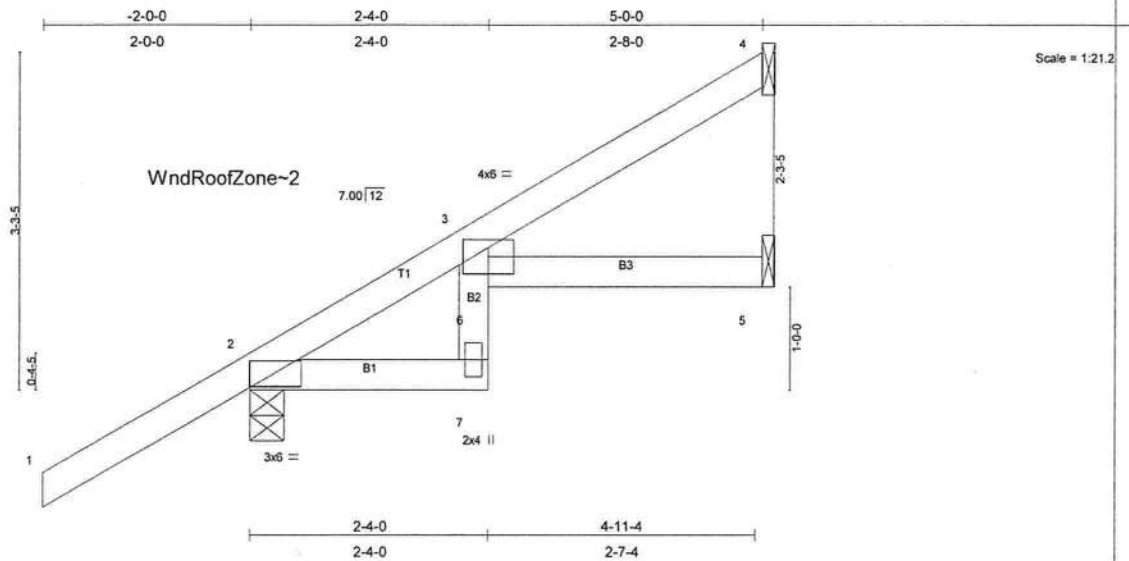


Plate Offsets (X,Y): [2-0-3-3-0-1-8], [3-0-3-0-0-1-15]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.29	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.29	Vert(TL)	-0.04	5-6	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	0.02	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 21 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2 "Except"
 B2 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) 4=96/Mechanical, 2=344/0-4-0, 5=78/Mechanical
 Max Horz 2=207(load case 5)
 Max Uplift 4=-72(load case 5), 2=-192(load case 5), 5=-9(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-181/0, 3-4=-51/41
 BOT CHORD 2-7=-35/98, 6-7=0/61, 3-6=0/88, 5-6=0/0

JOINT STRESS INDEX

2 = 0.57, 3 = 0.72, 6 = 0.00 and 7 = 0.23

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) 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 72 lb uplift at joint 4, 192 lb uplift at joint 2 and 9 lb uplift at joint 5.

LOAD CASE(S) Standard

Job L239083	Truss EJ3	Truss Type JACK	Qty 8	Ply 1	MARTIN ESTERIORES - EVAN I SPEC
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon May 14 09:36:22 2007 Page 1		

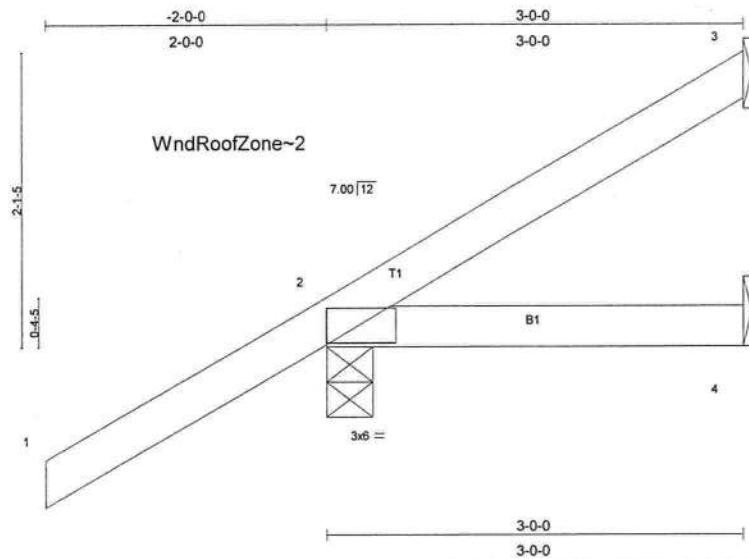


Plate Offsets (X,Y): [2-0-3-3-0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.29	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.05	Vert(TL)	-0.01	2-4	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 13 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 3=29/Mechanical, 2=279/0-4-0, 4=42/Mechanical

Max Horz 2=154(load case 5)
Max Uplift 3=30(load case 6), 2=202(load case 5)
Max Grav 3=31(load case 3), 2=279(load case 1), 4=42(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=65/15
BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.12

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) 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 30 lb uplift at joint 3 and 202 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L239083	Truss EJ7	Truss Type MONO TRUSS	Qty 21	Ply 1	MARTIN ESTERIORES - EVAN I SPEC
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon May 14 09:36:23 2007 Page 1		

Scale = 1:26.8

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.35	Vert(LL) -0.12 2-4 >667 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.20 2-4 >399 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TPI2002			Weight: 26 lb	

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

REACTIONS (lb/size) 3=161/Mechanical, 2=420/0-4-0, 4=104/Mechanical
 Max Horz 2=261(load case 5)
 Max Uplift 3=146(load case 5), 2=-198(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/54, 2-3=-106/64
 BOT CHORD 2-4=0/0

JOINT STRESS INDEX
 2 = 0.51

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 Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60.
 This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 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 146 lb uplift at joint 3 and 198 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L239083	Truss EJ7A	Truss Type SPECIAL	Qty 5	Ply 1	MARTIN ESTERIOS - EVAN I SPEC
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		
6.300 s Apr 19 2006 MiTek Industries, Inc. Mon May 14 09:36:24 2007 Page 1					

Plate Offsets (X,Y): [2-0-3-4-0-1-8], [3-0-3-0-0-2-15]									
LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.38	Vert(LL)	-0.14	5-6	>595	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.58	Vert(TL)	-0.22	5-6	>367	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	0.09	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 28 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
B2 2 X 4 SYP No.3	

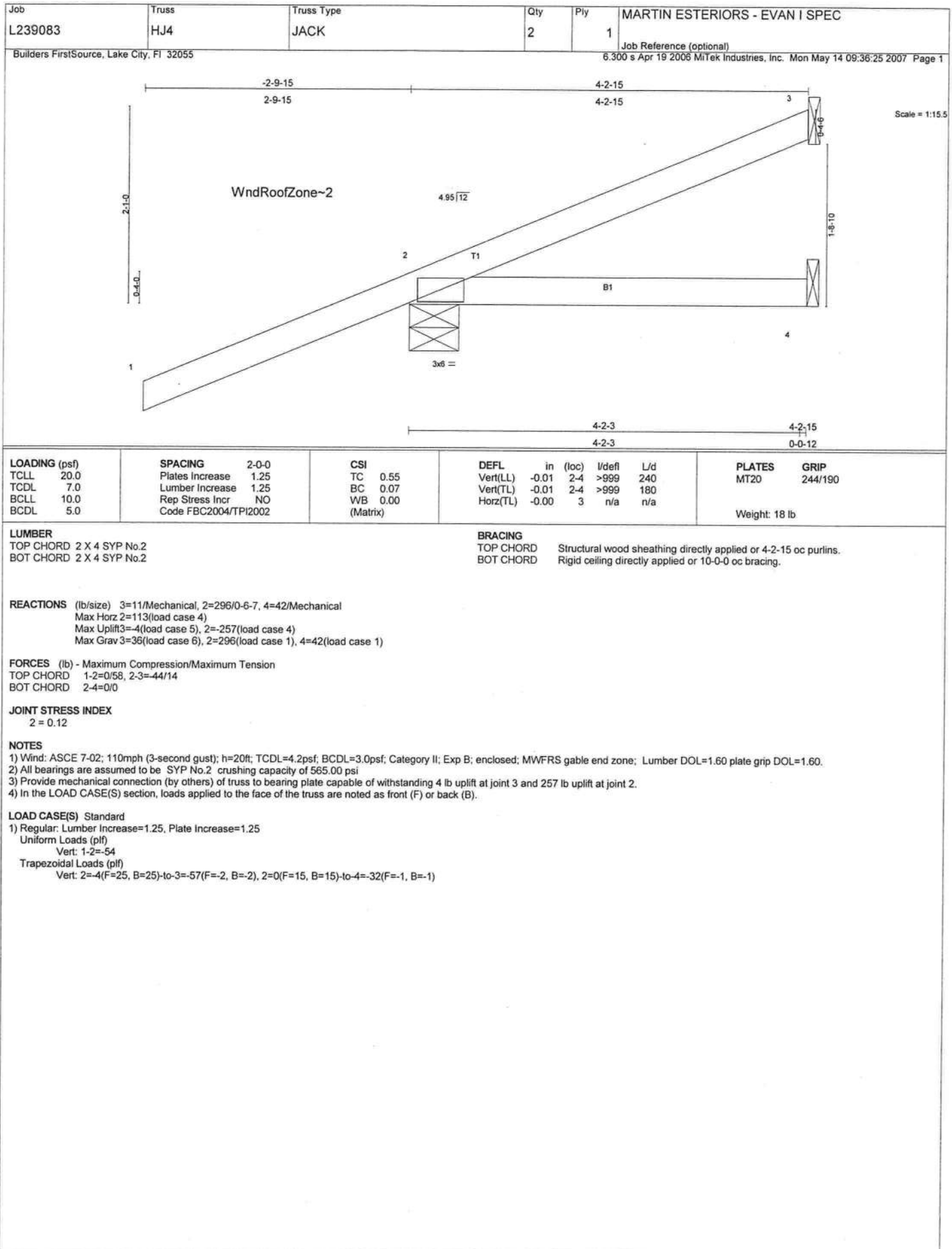
REACTIONS (lb/size) 4=150/Mechanical, 2=420/0-4-0, 5=116/Mechanical
 Max Horz 2=261(load case 5)
 Max Uplift 4=-122(load case 5), 2=-198(load case 5), 5=-17(load case 5)

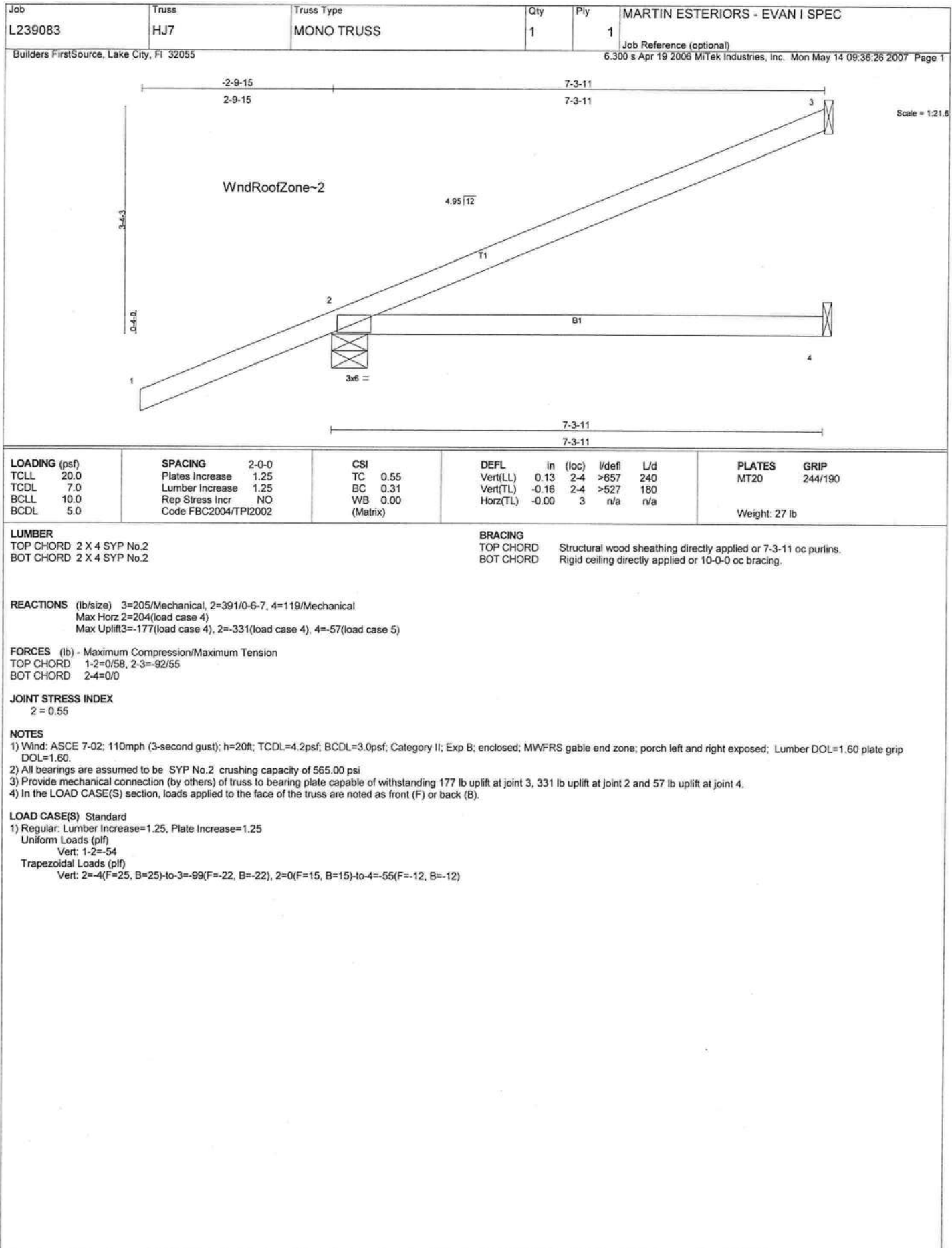
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/54, 2-3=-323/0, 3-4=-79/63
 BOT CHORD 2-7=-81/206, 6-7=0/58, 3-6=0/97, 5-6=0/0

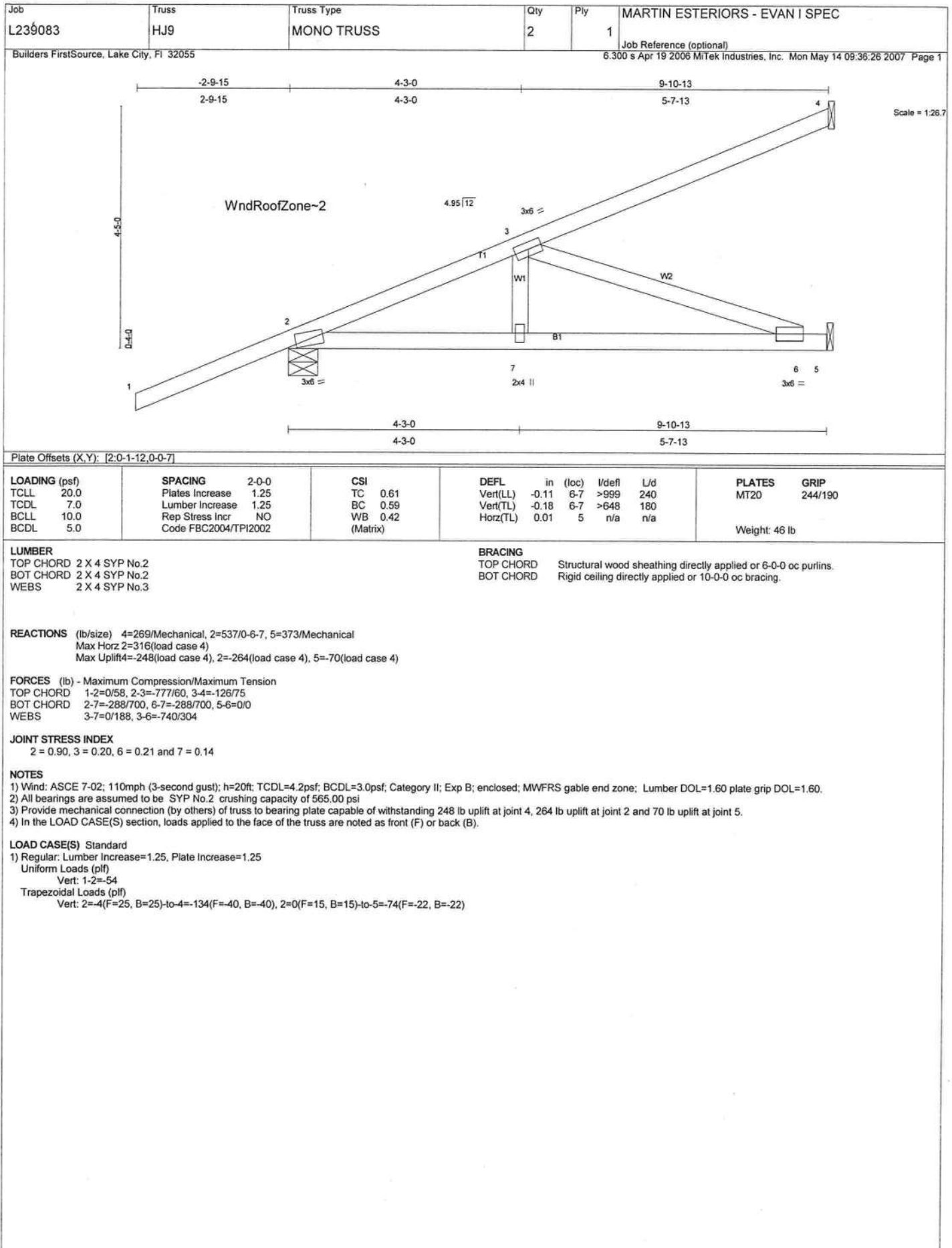
JOINT STRESS INDEX
 2 = 0.57, 3 = 0.80, 6 = 0.00 and 7 = 0.51

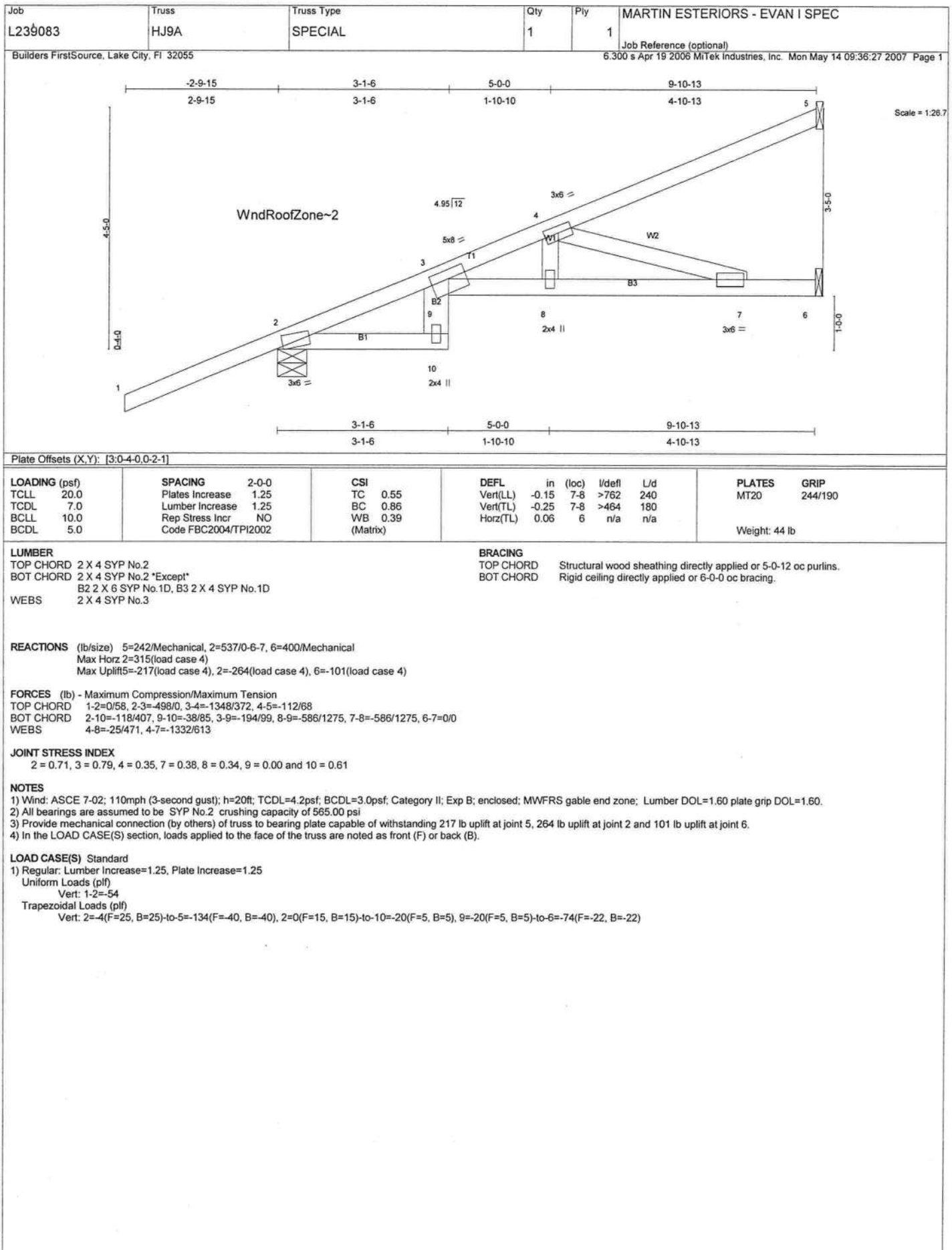
NOTES
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60.
 This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 2) All 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 122 lb uplift at joint 4, 198 lb uplift at joint 2 and 17 lb uplift at joint 5.

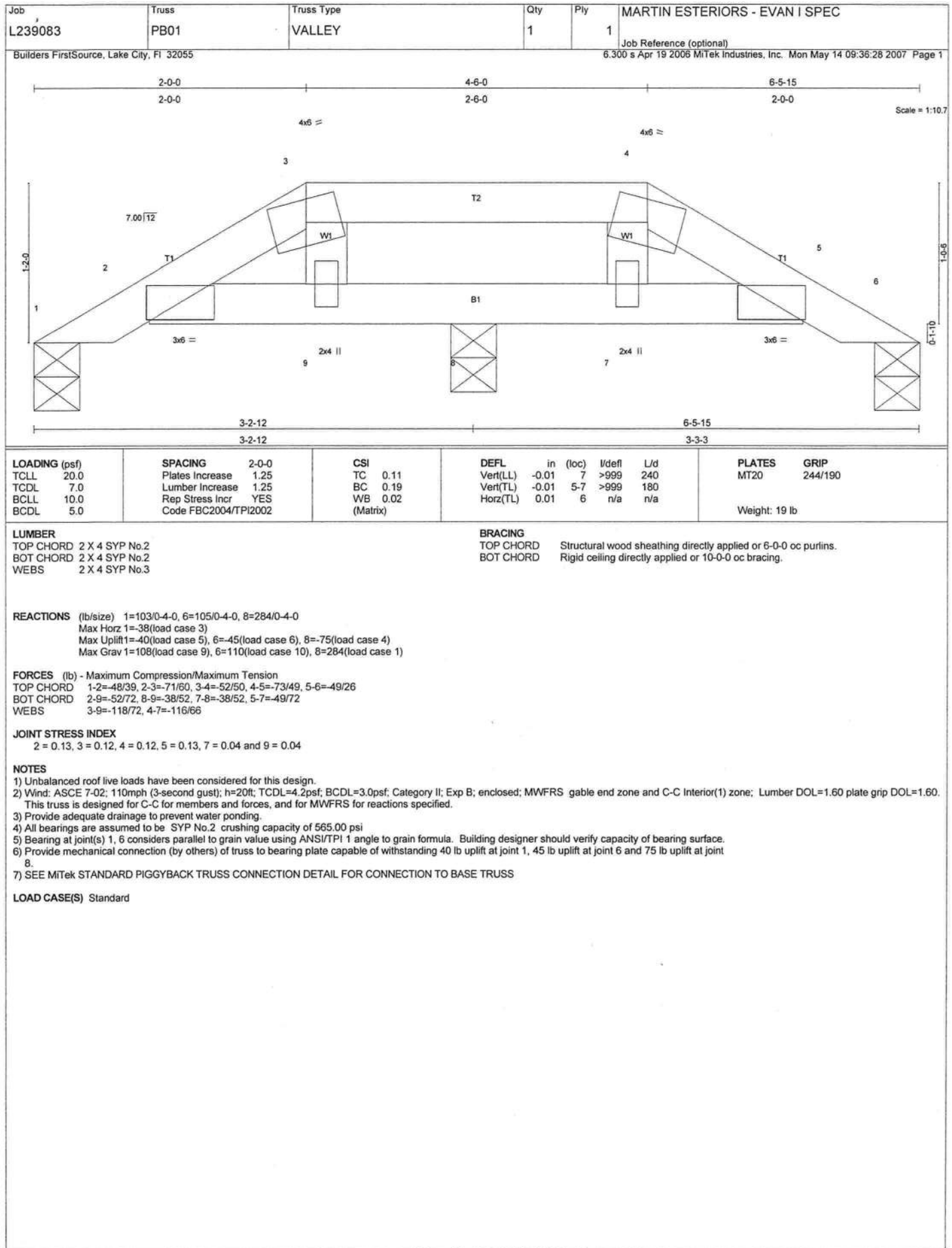
LOAD CASE(S) Standard

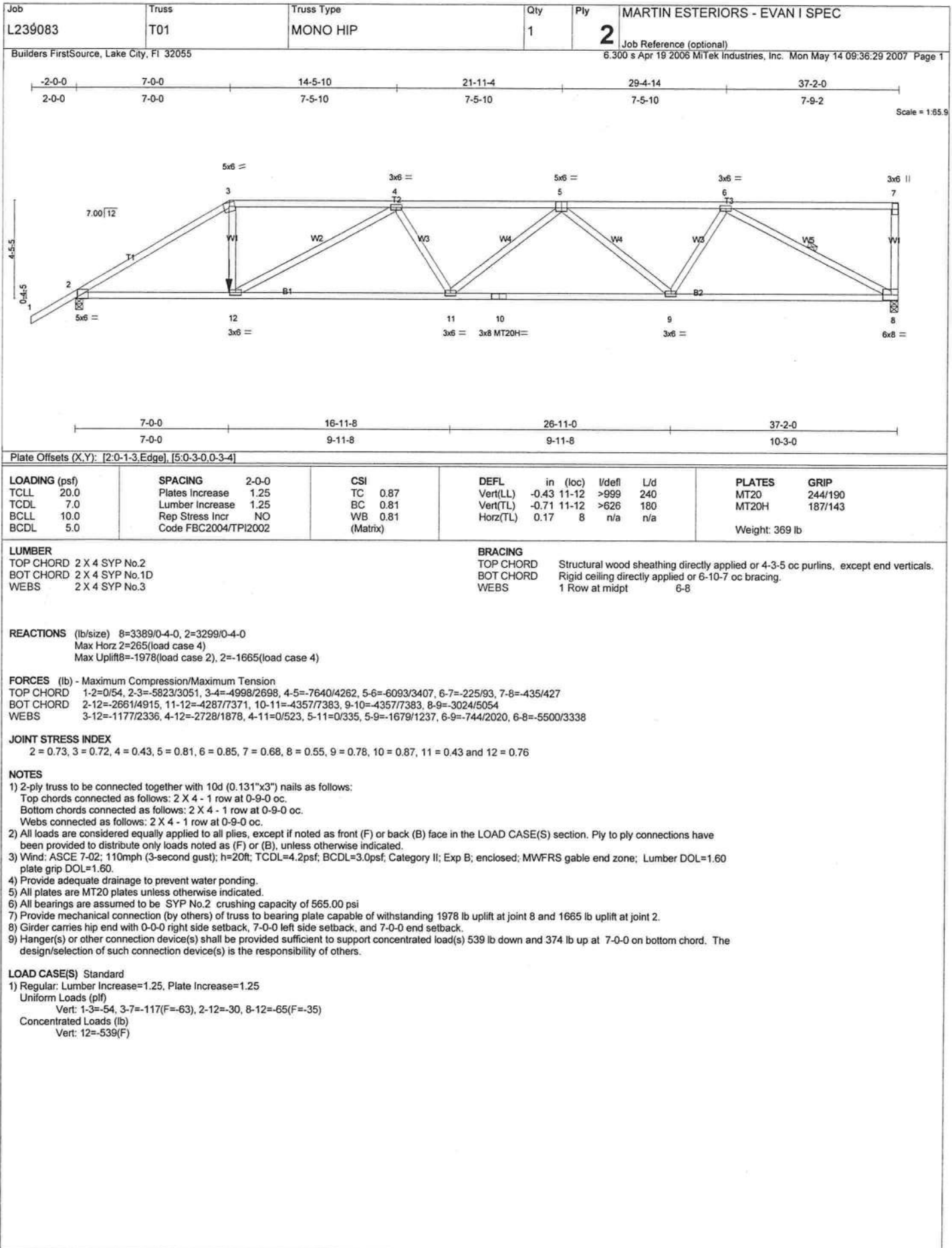


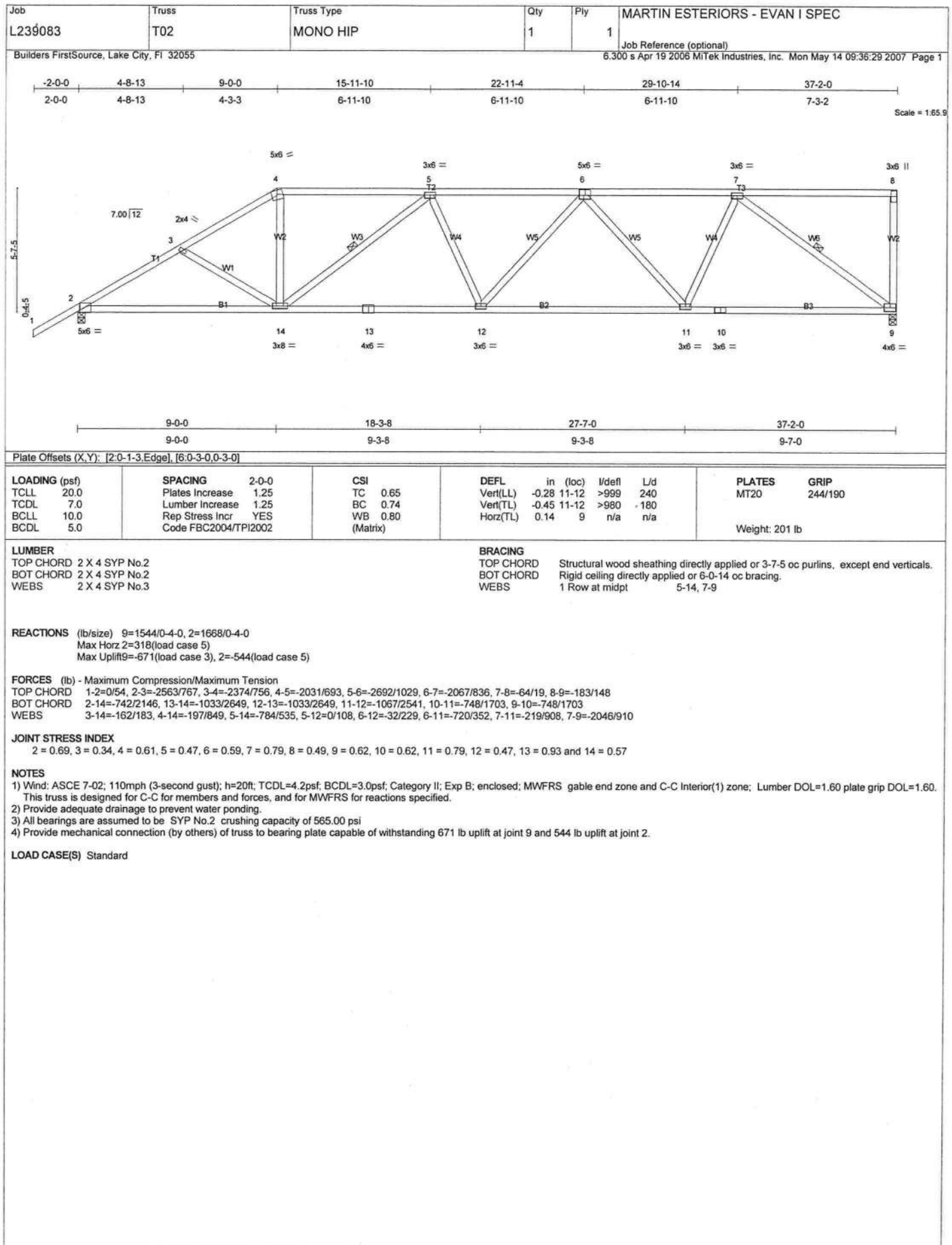


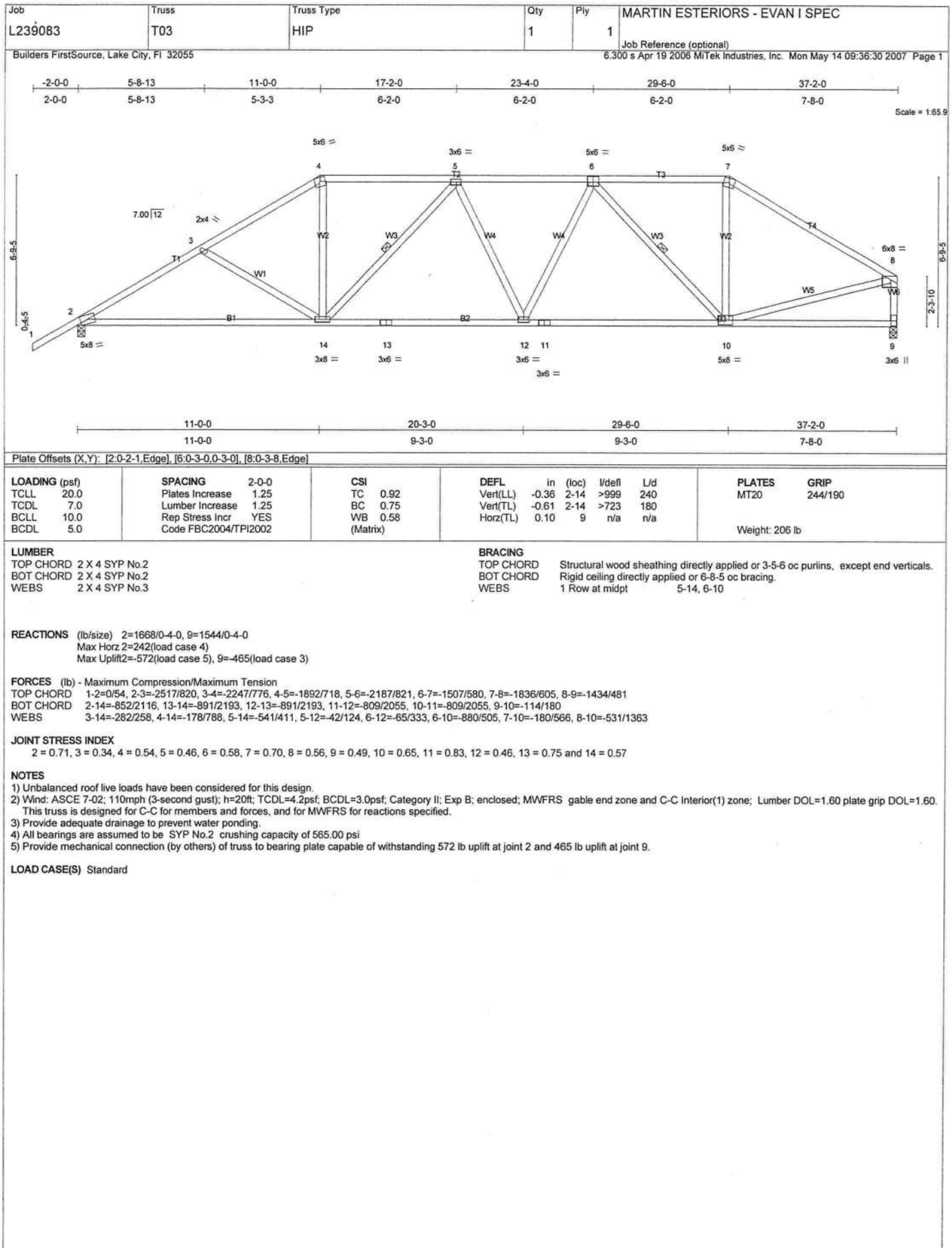


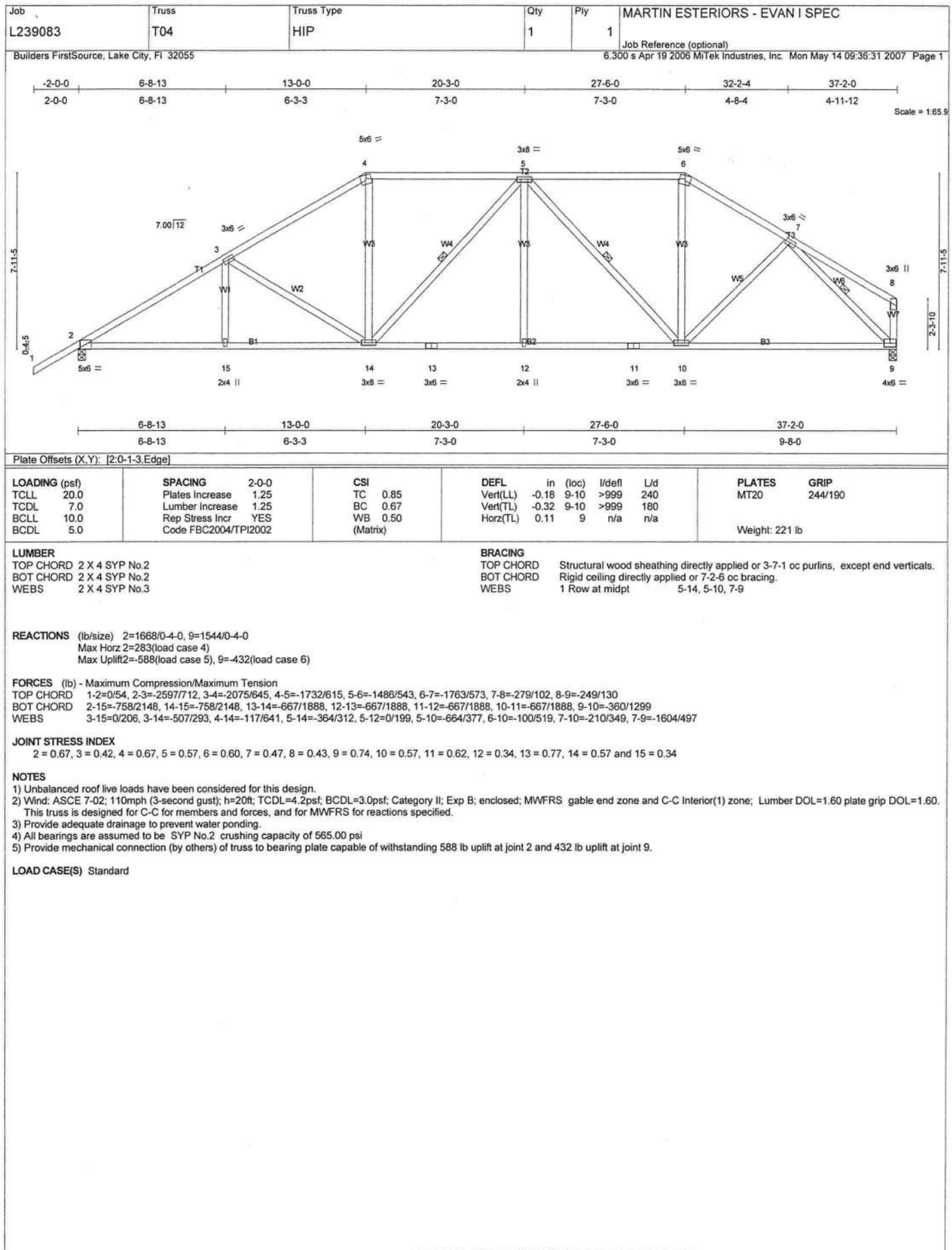




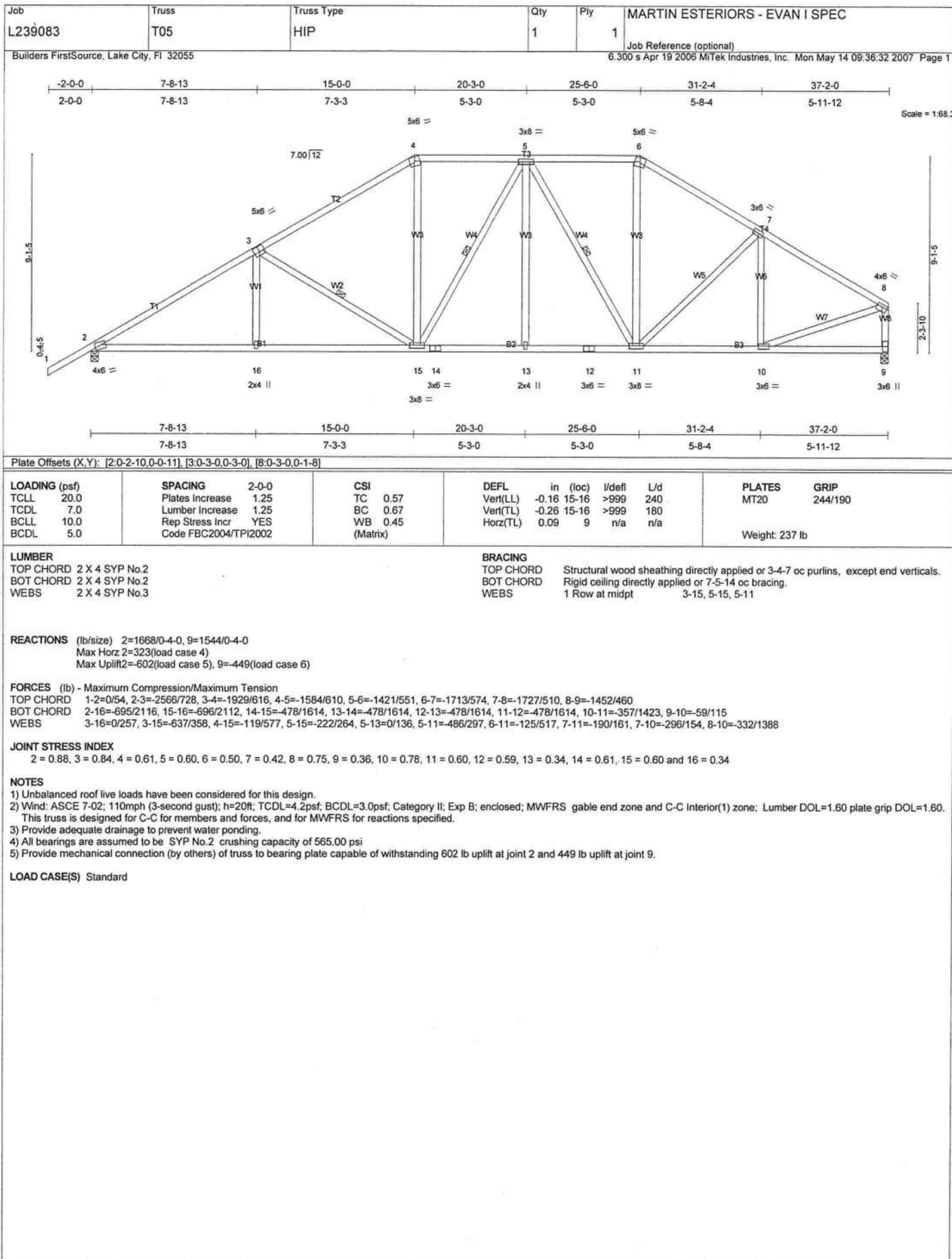


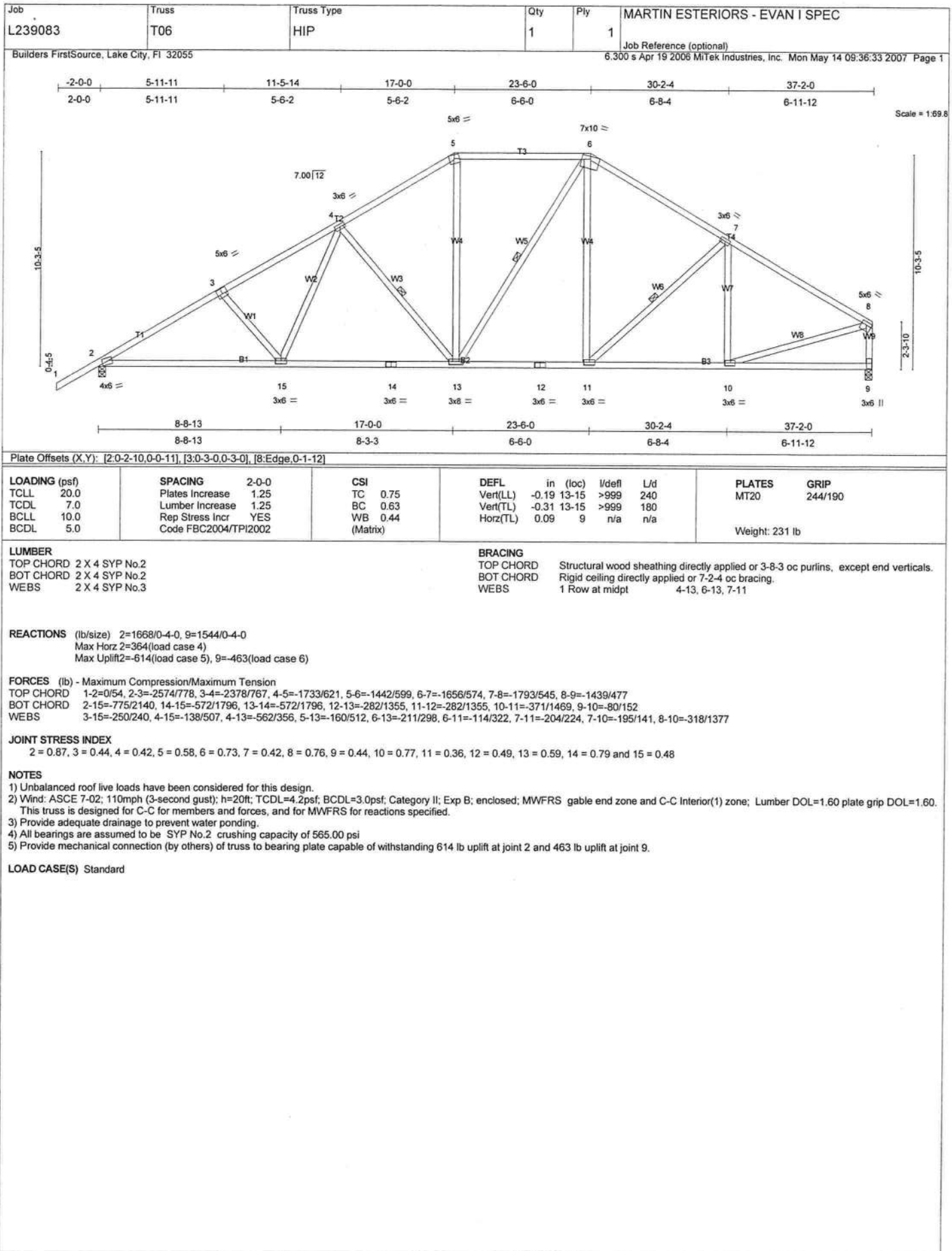


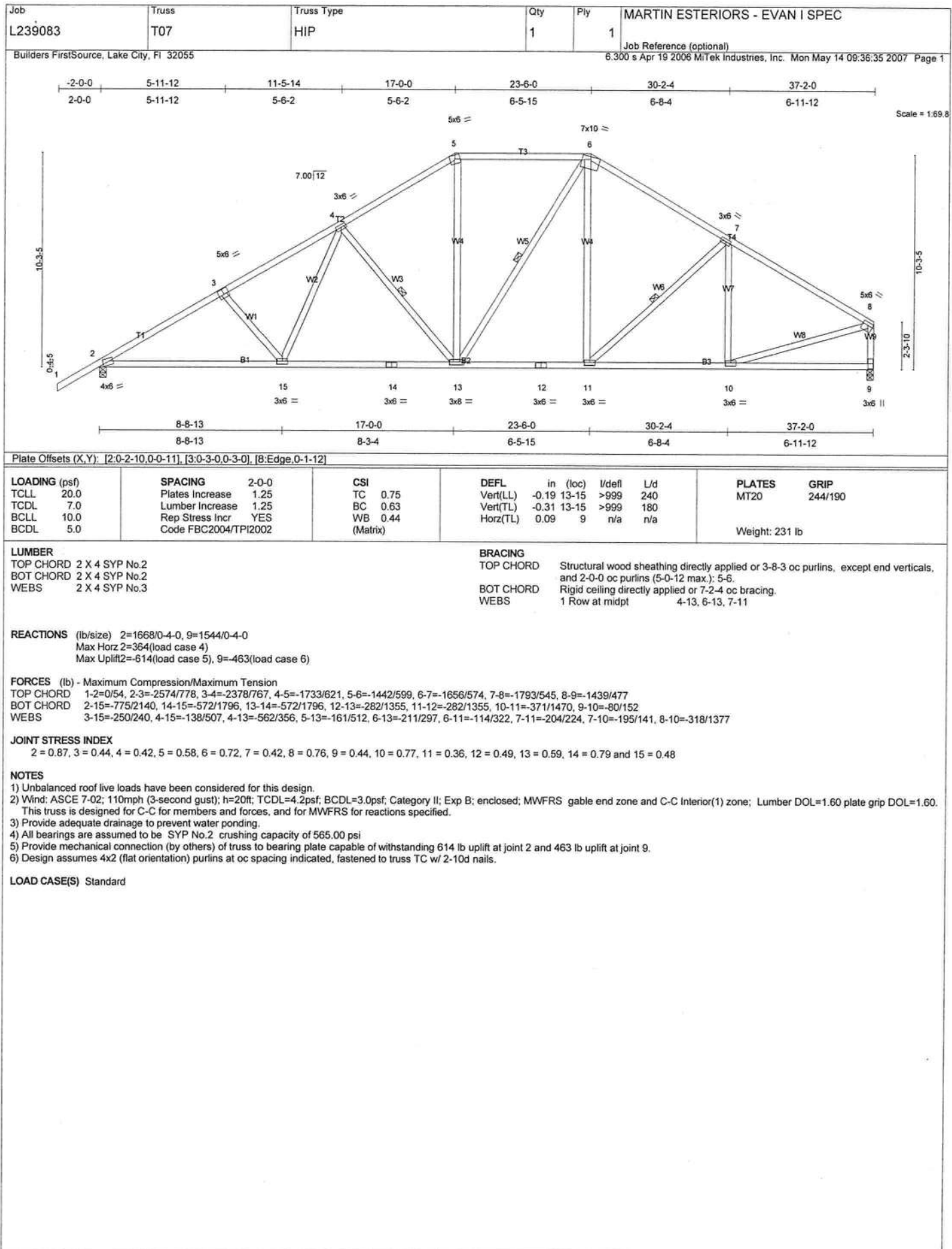


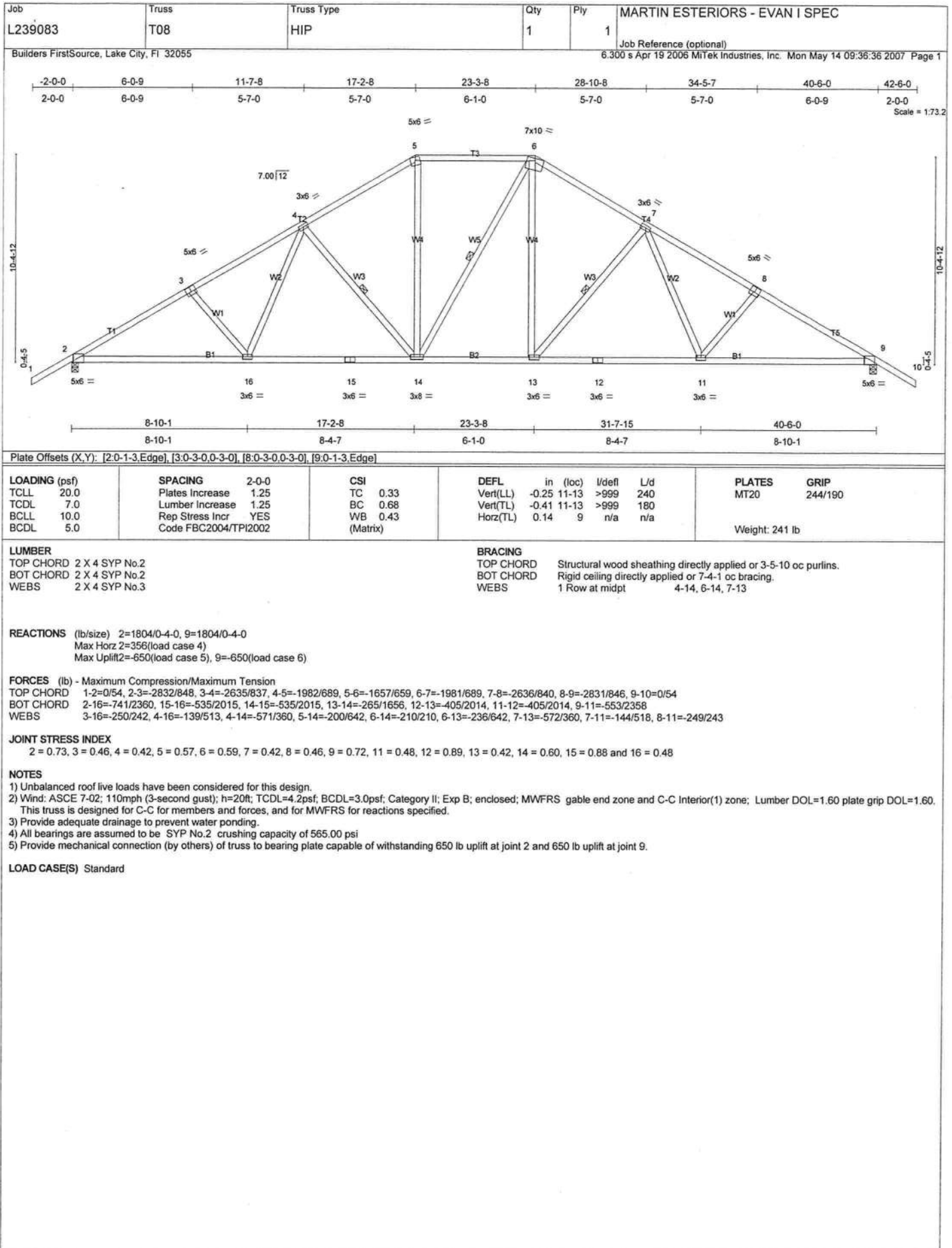


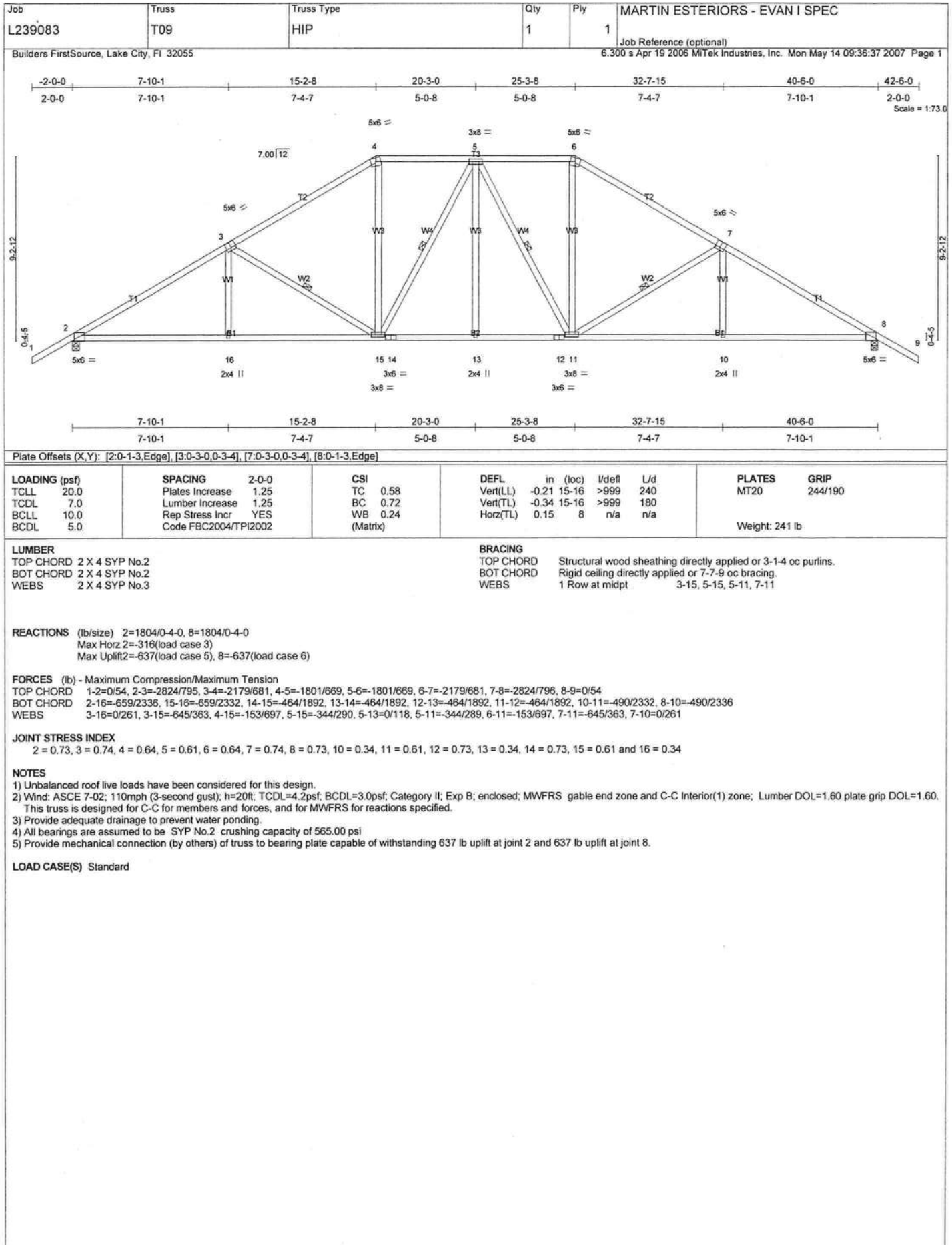
MAY 14, 2007, TRUSS DESIGN ENGINEER:
 THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
 STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
 16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

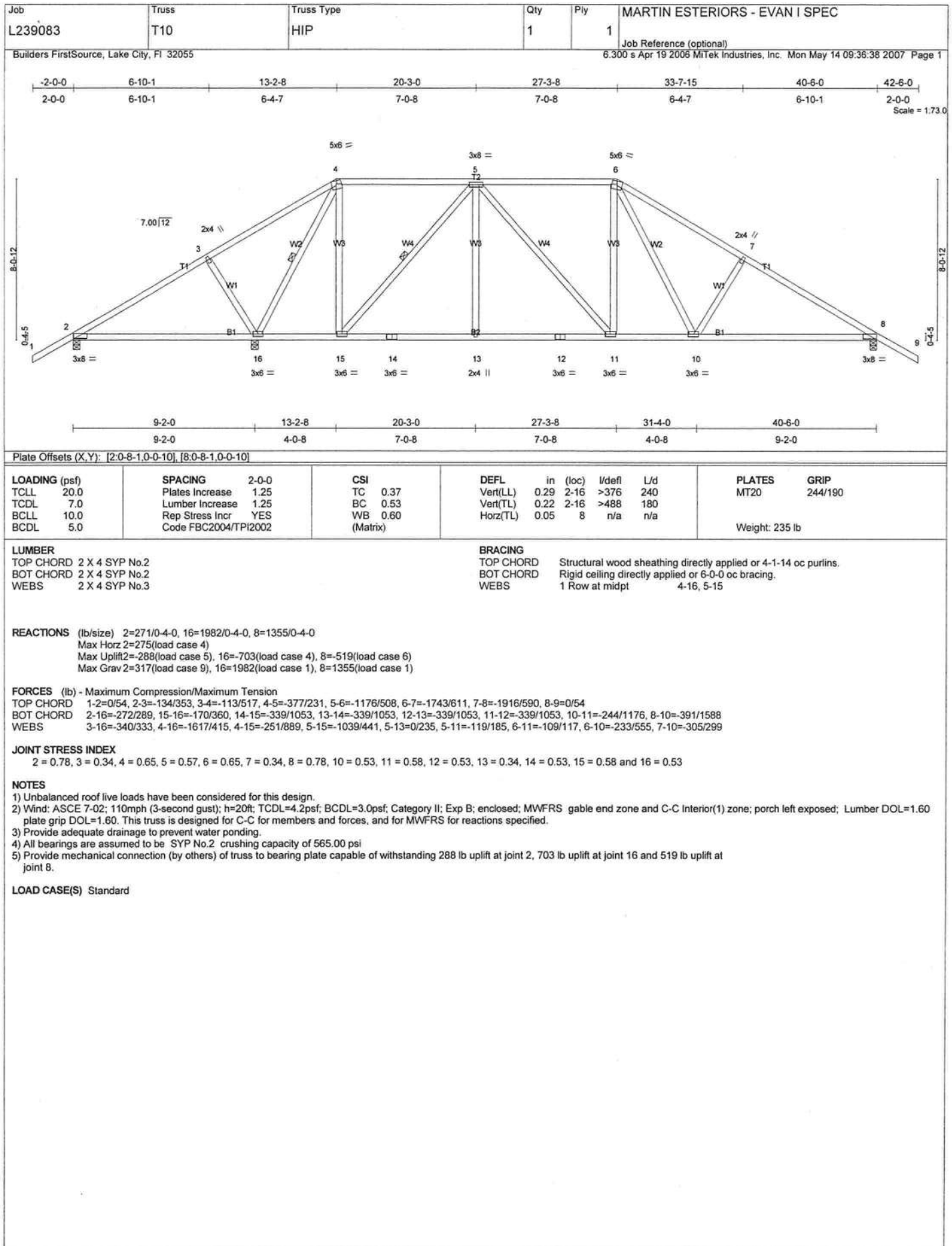


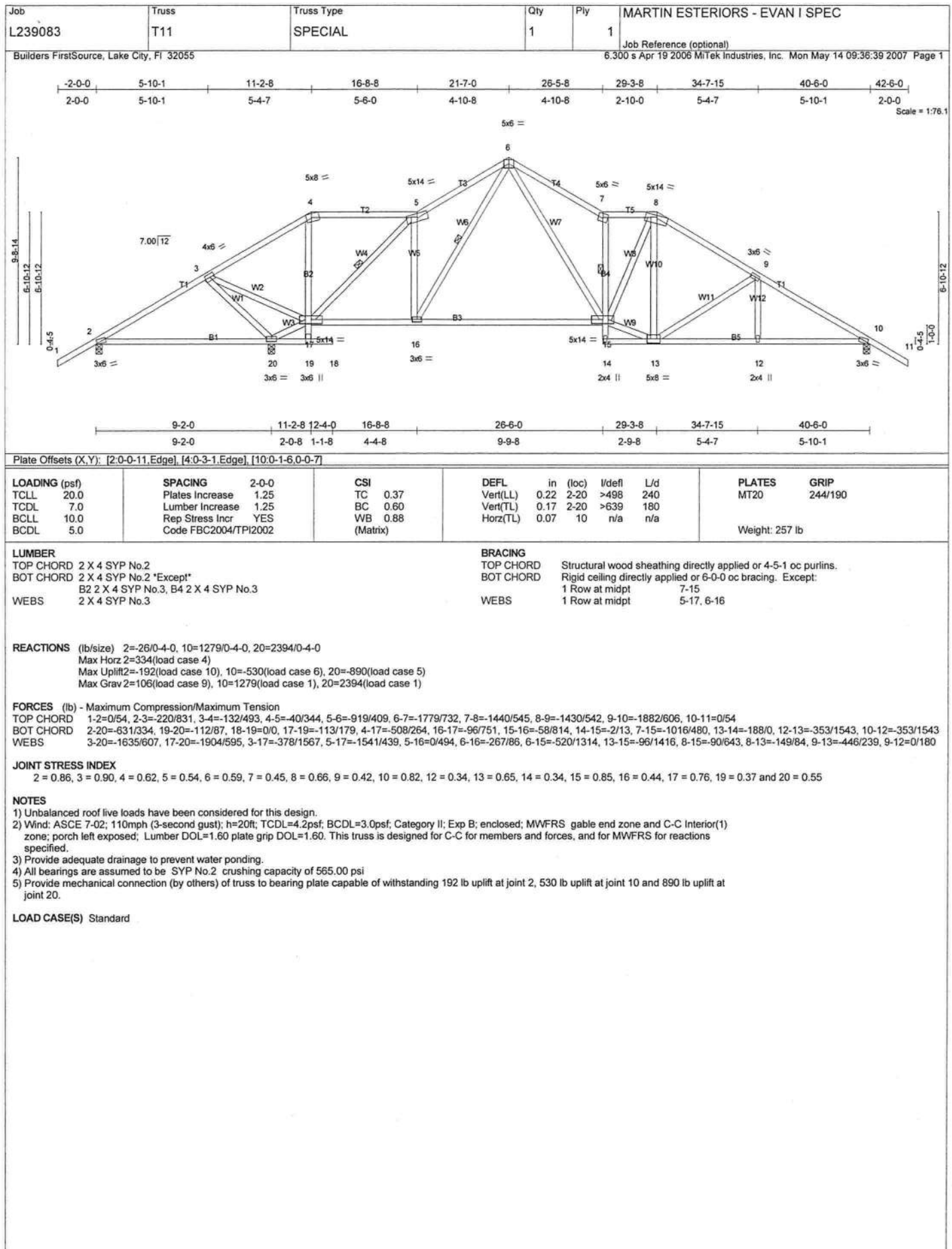


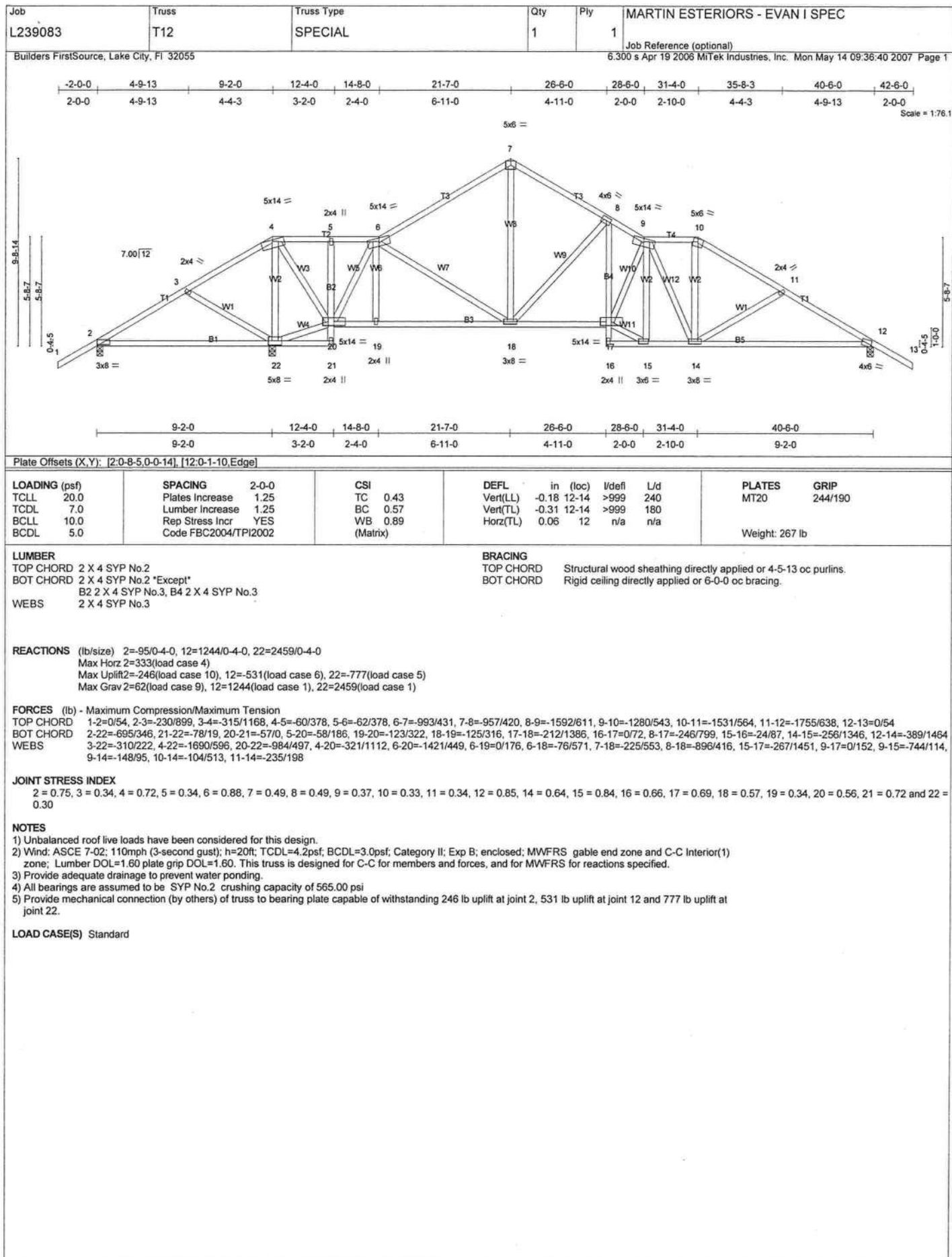


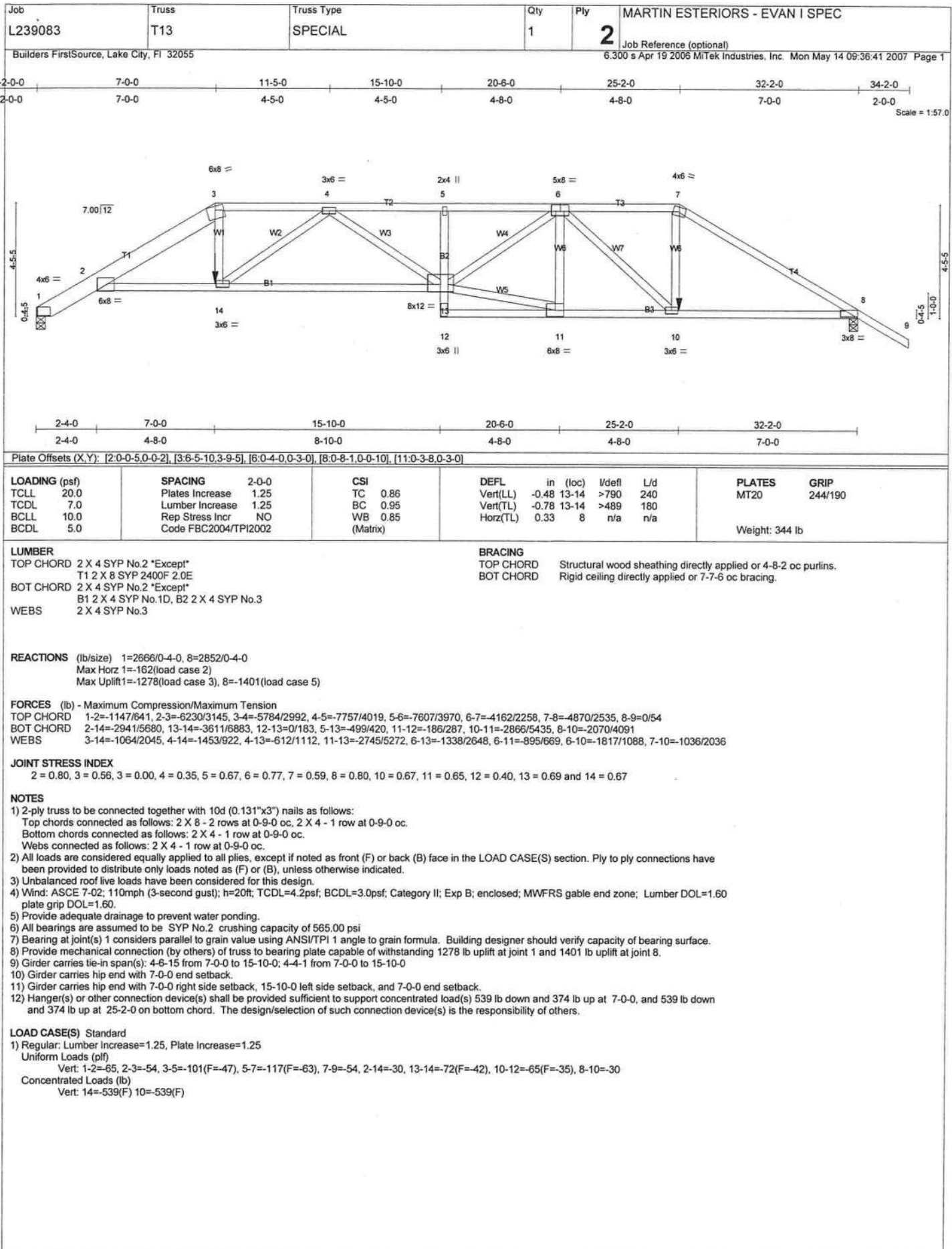


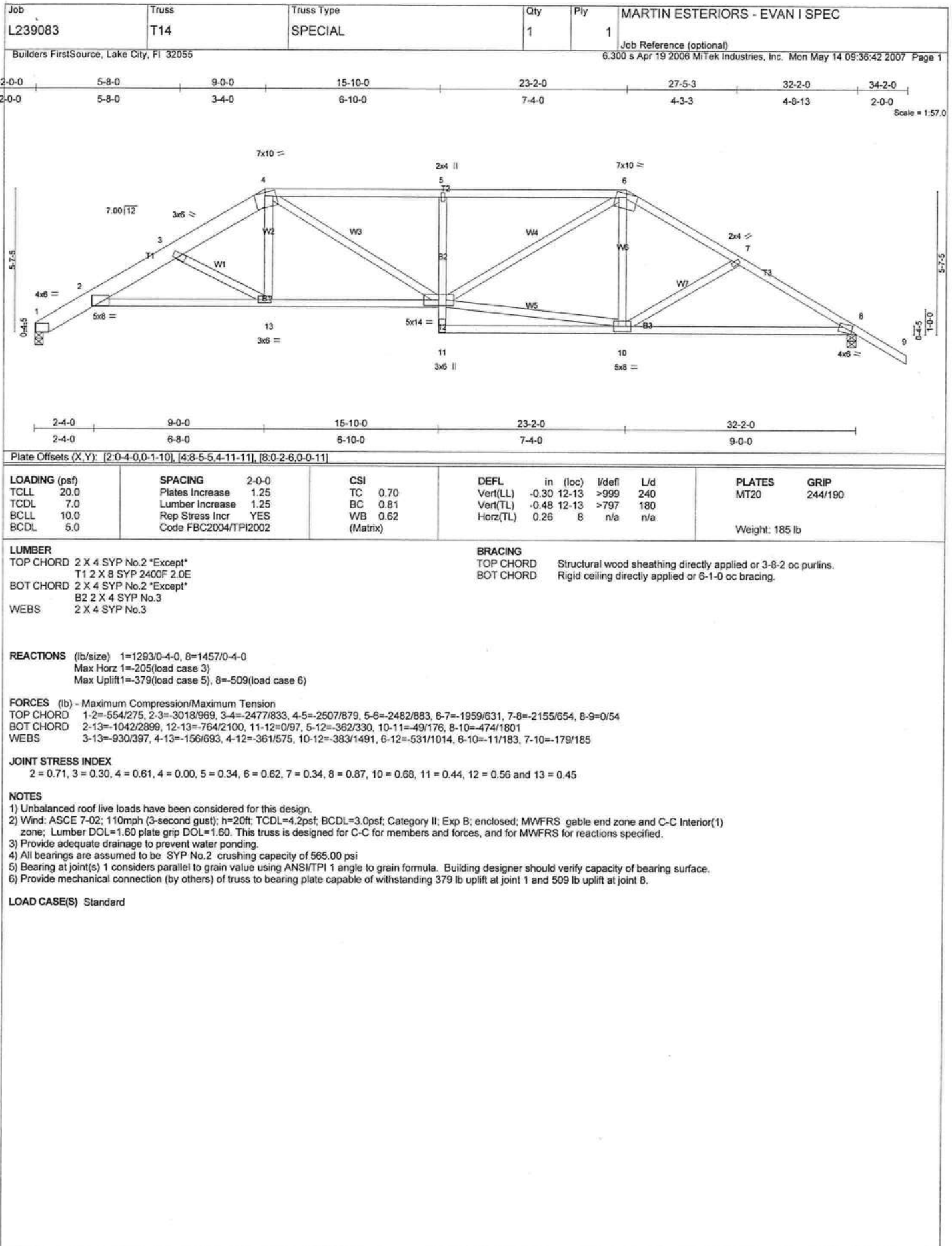


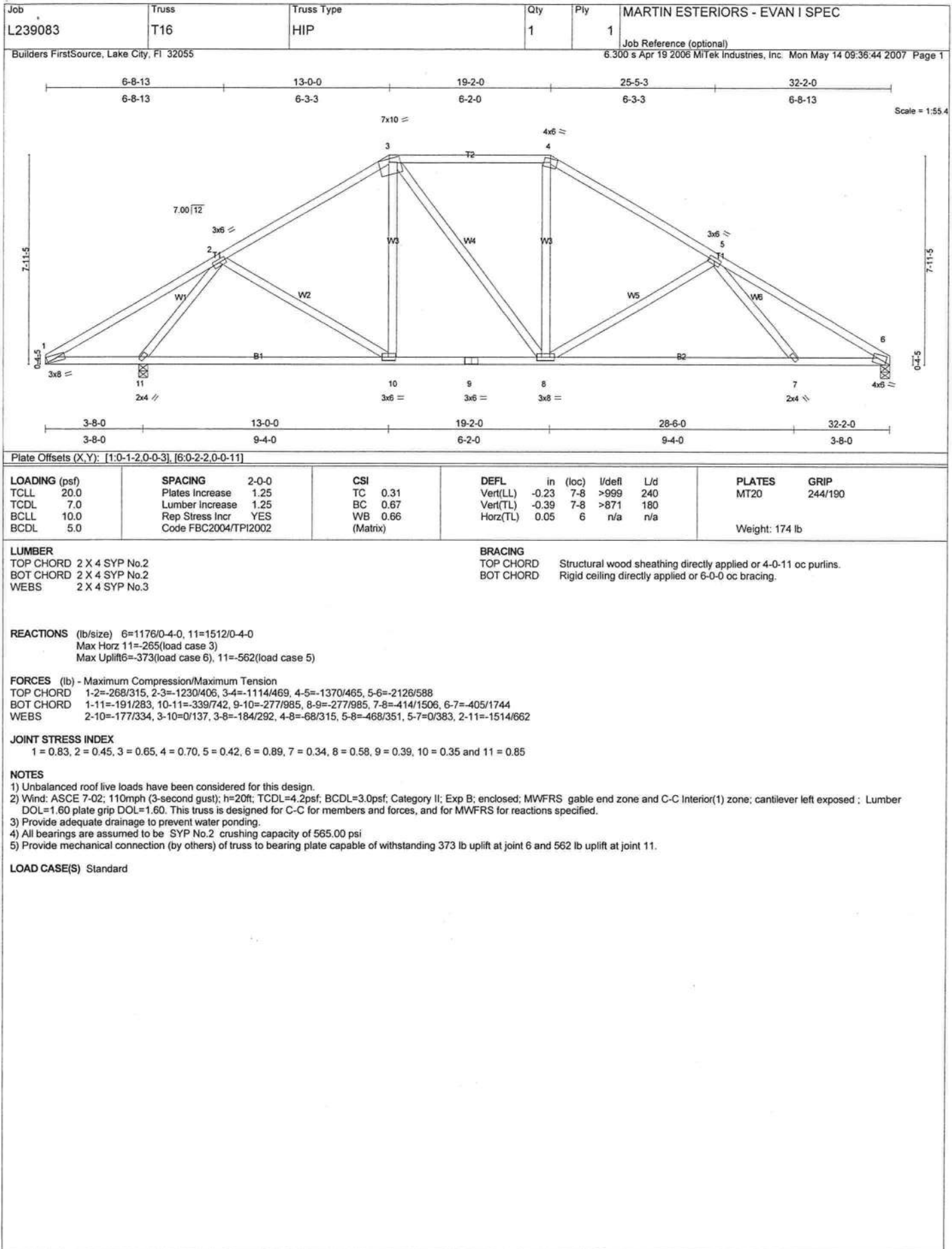












Job L239083	Truss T17	Truss Type SPECIAL	Qty 1	Ply 1	MARTIN ESTERIORES - EVAN I SPEC
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Builders FirstSource, Lake City, Fl 32055

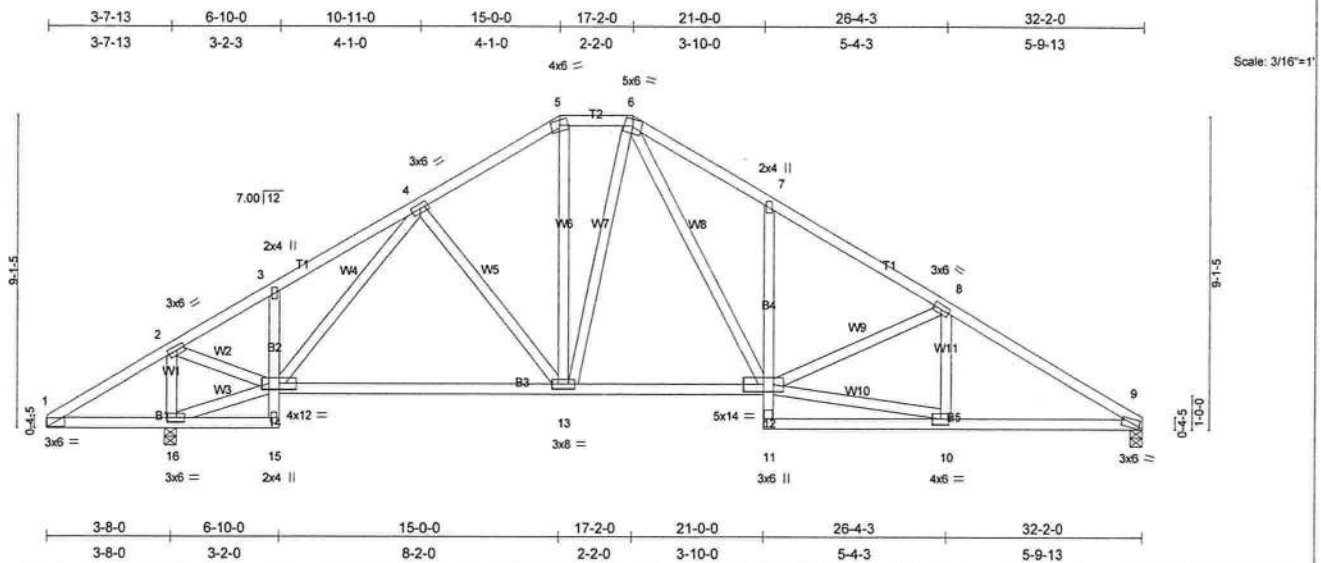
Job Reference (optional)
6.300 s Apr 19 2006 MiTek Industries, Inc. Mon May 14 09:36:45 2007 Page 1

Plate Offsets (X,Y): [1:0-3-3,0-1-8], [9:0-1-6,0-0-7]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.49	Vert(LL) -0.13 13-14 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.57	Vert(TL) -0.22 13-14 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.08 9 n/a n/a		
	Code FBC2004/TPI2002			Weight: 204 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(lb/size) 9=1169/0-4-0, 16=1519/0-4-0
 Max Horz 16=-306(load case 3)
 Max Uplift 9=-381(load case 6), 16=-483(load case 5)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-89/287, 2-3=-1143/371, 3-4=-1197/487, 4-5=-1235/457, 5-6=-1023/438, 6-7=-1714/708, 7-8=-1725/569, 8-9=-1942/616
 BOT CHORD 1-16=-197/118, 15-16=-102/0, 14-15=0/25, 3-14=-198/184, 13-14=-286/1099, 12-13=-153/1042, 11-12=0/78, 7-12=-249/244, 10-11=-23/120, 9-10=-441/1600
 WEBS 14-16=-204/278, 2-14=-312/1227, 4-14=-185/170, 4-13=-166/217, 5-13=-163/426, 6-13=-178/195, 6-12=-427/650, 10-12=-427/1508, 8-12=-227/212, 8-10=-101/99, 2-16=-1333/475

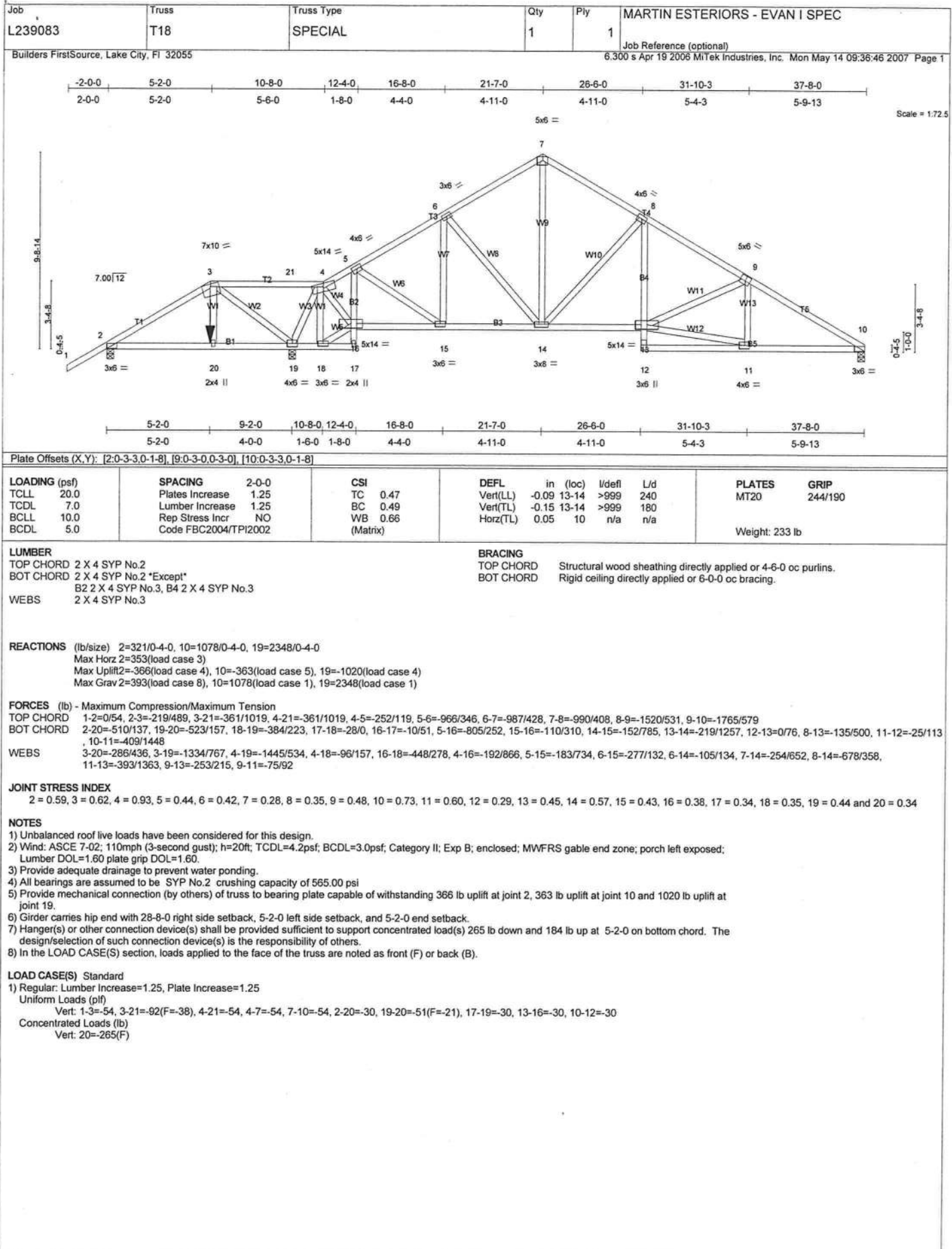
JOINT STRESS INDEX

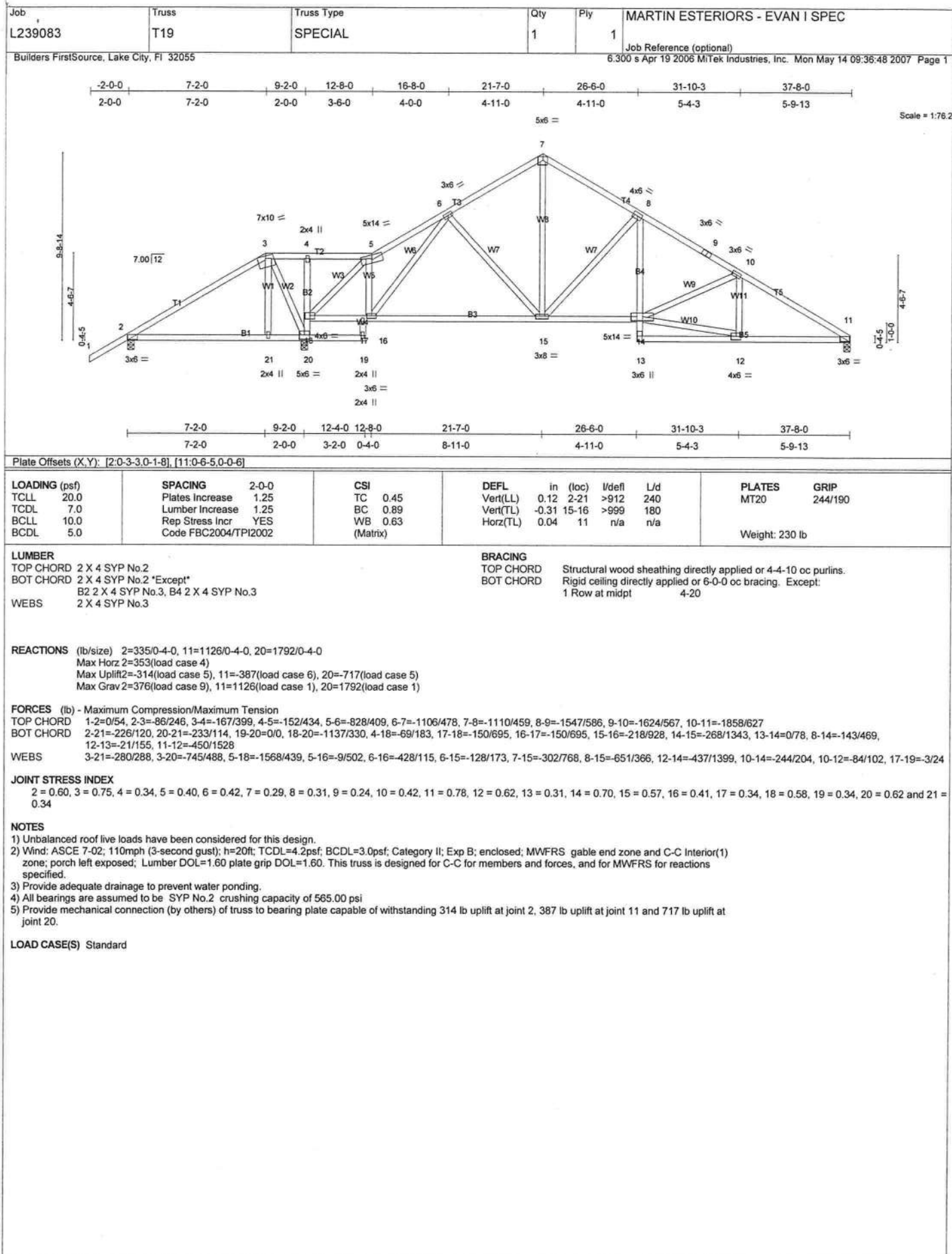
1 = 0.25, 2 = 0.70, 3 = 0.49, 4 = 0.42, 5 = 0.30, 6 = 0.39, 7 = 0.34, 8 = 0.42, 9 = 0.80, 10 = 0.66, 11 = 0.31, 12 = 0.60, 13 = 0.61, 14 = 0.67, 15 = 0.34 and 16 = 0.44

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 381 lb uplift at joint 9 and 483 lb uplift at joint 16.

LOAD CASE(S) Standard





Job L239083	Truss T20	Truss Type GABLE	Qty 1	Ply 1	MARTIN ESTERIOS - EVAN I SPEC
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Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon May 14 09:36:49 2007 Page 1

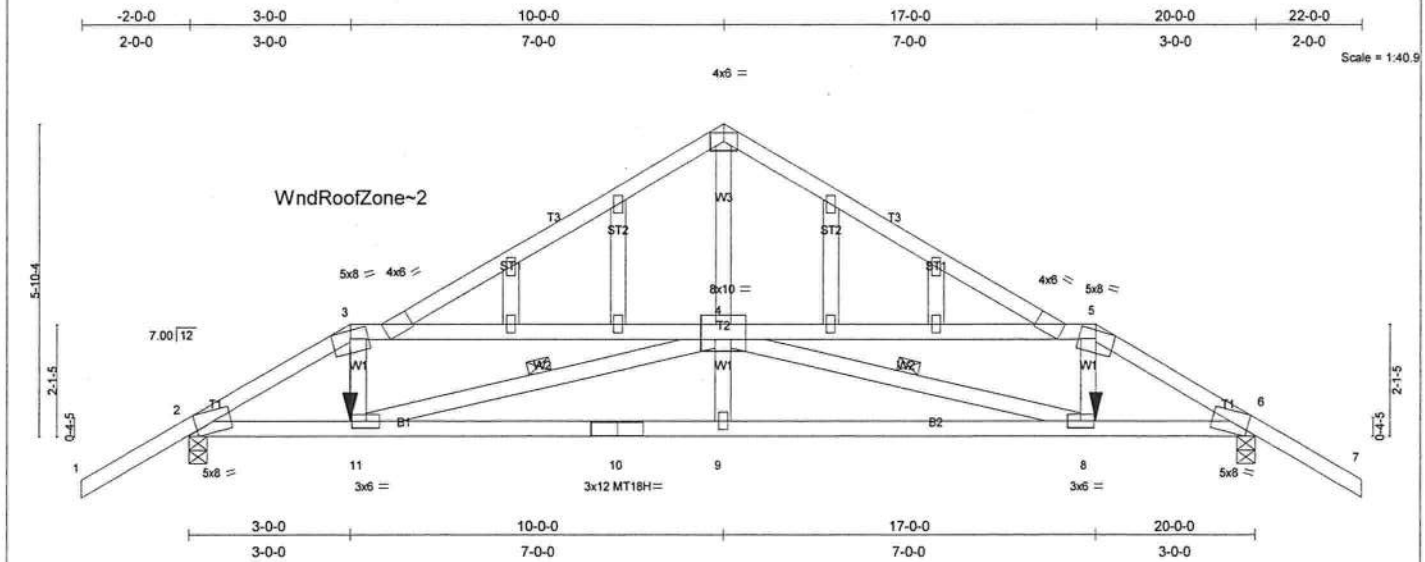


Plate Offsets (X,Y): [2-0-2-1 Edge], [4-0-5-0,0-2-8], [6-0-2-1 Edge]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.76	Vert(LL) -0.28 8-9 >846 240	MT18H	244/190
BCLL 10.0	Lumber Increase 1.25	WB 0.60	Vert(TL) -0.45 9-11 >526 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.11 6 n/a n/a		
	Code FBC2004/TPI2002			Weight: 133 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.1D
 WEBS 2 X 4 SYP No.3
 OTHERS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins. Except:
 1 Row at midpt 3-4, 4-5
 BOT CHORD Rigid ceiling directly applied or 4-6-12 oc bracing.
 WEBS 1 Row at midpt 4-11, 4-8
 JOINTS 1 Brace at Jt(s): 4

REACTIONS

(lb/size) 2=1823/0-4-0, 6=1823/0-4-0
 Max Horz 2=-69(load case 5)
 Max Uplift 2=-801(load case 3), 6=-801(load case 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-20/114, 2-3=-2696/1236, 3-4=-2306/1117, 4-5=-2306/1116, 5-6=-2696/1236, 6-7=-20/114
 BOT CHORD 2-11=-1083/2244, 10-11=-2140/4447, 9-10=-2140/4447, 8-9=-2140/4447, 6-8=-1015/2244
 WEBS 3-11=-261/778, 4-11=-2227/1151, 4-9=0/240, 4-8=-2227/1150, 5-8=-261/778

JOINT STRESS INDEX

2 = 0.75, 3 = 0.98, 4 = 0.76, 5 = 0.98, 6 = 0.75, 8 = 0.64, 9 = 0.34, 10 = 0.92, 11 = 0.64, 12 = 0.13, 13 = 0.26, 14 = 0.13, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.34, 19 = 0.34, 20 = 0.34, 21 = 0.34 and 22 = 0.34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) to bearing plate capable of withstanding 801 lb uplift at joint 2 and 801 lb uplift at joint 6.
- Girder carries hip end with 3-0-0 end setback.
- Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 44 lb up at 17-0-0, and 63 lb down and 44 lb up at 3-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

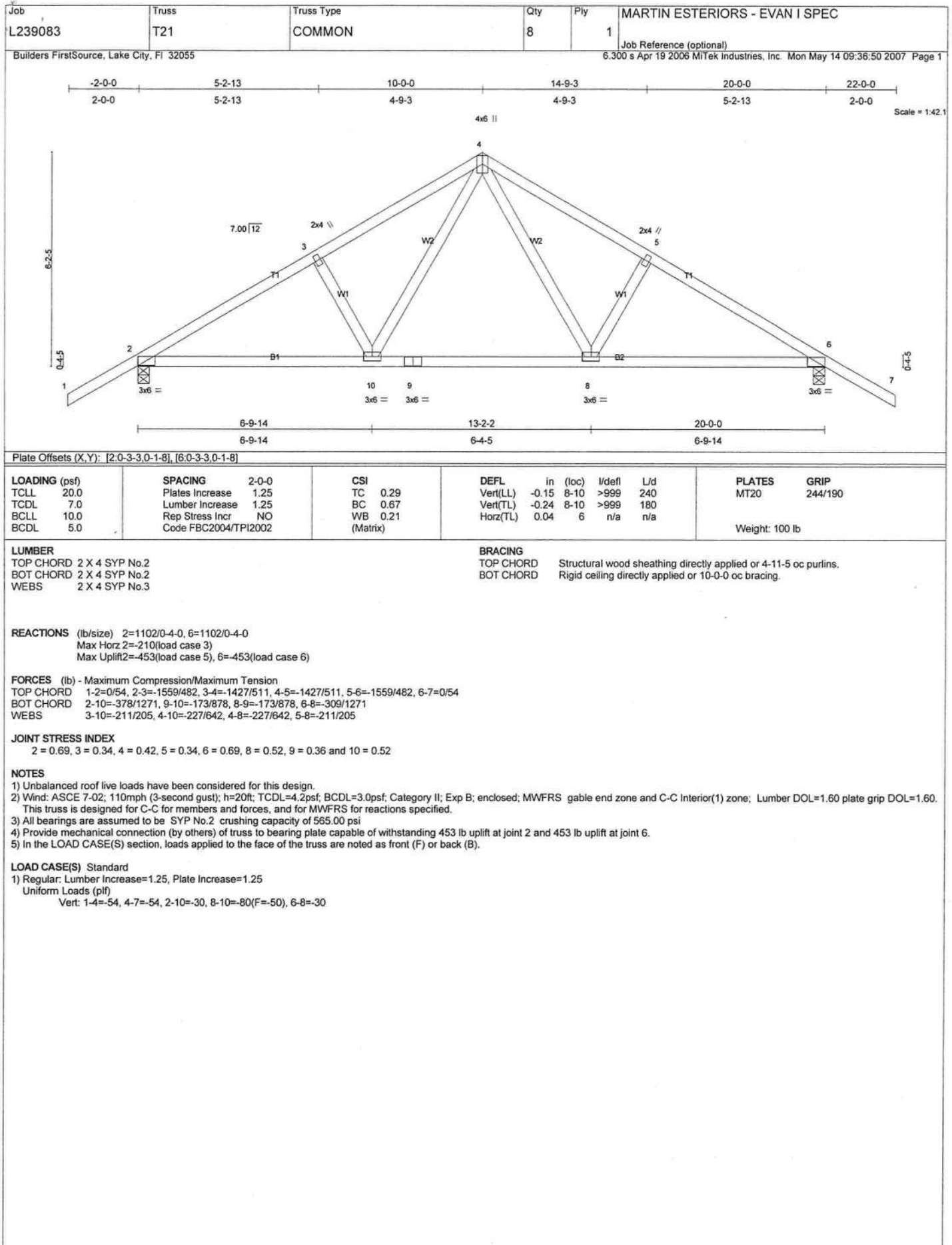
Vert: 1-3=-114(F=-60), 3-5=-123(F=-69), 5-7=-114(F=-60), 2-11=-30, 8-11=-35(F=-5), 6-8=-30

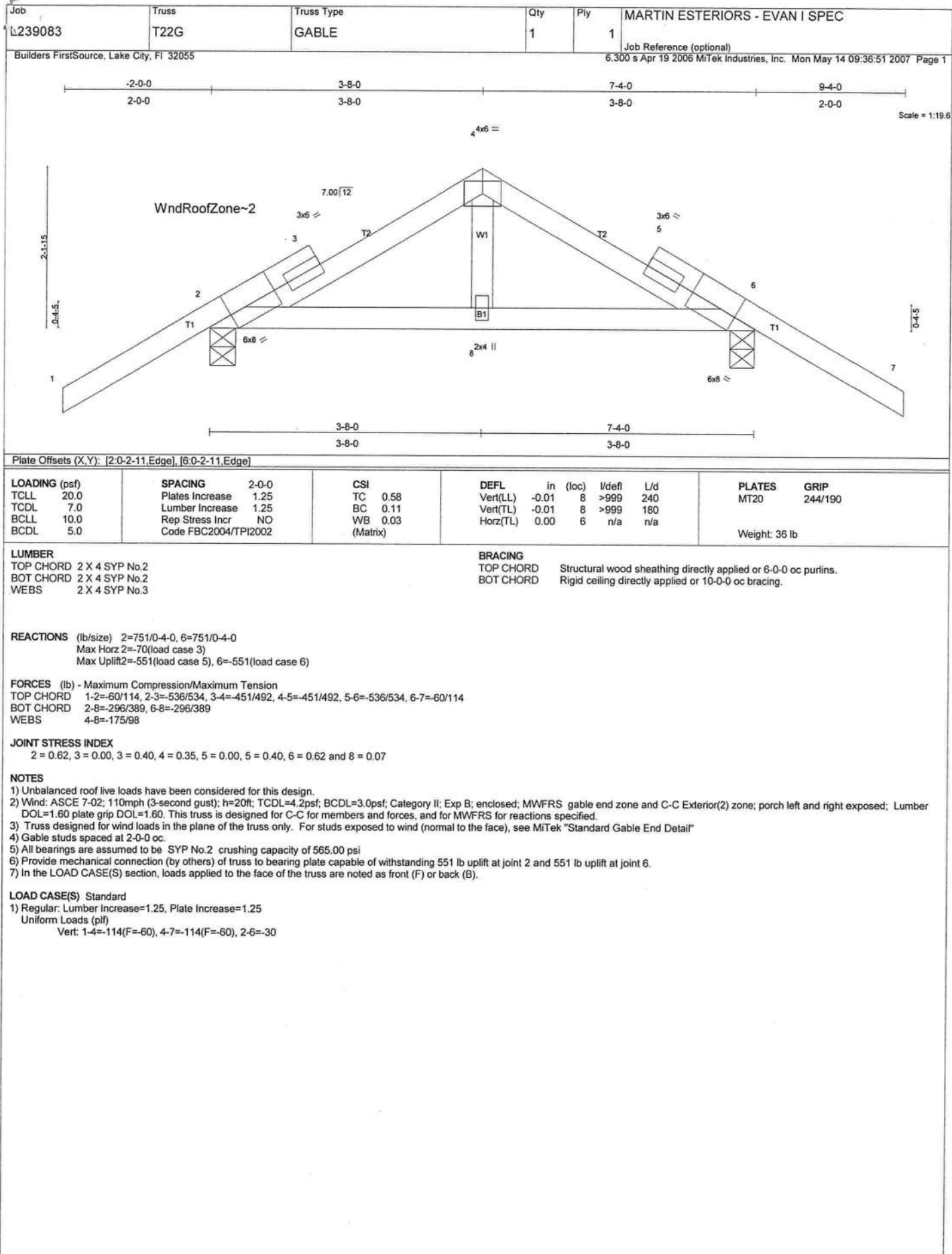
Concentrated Loads (lb)

Vert: 11=63(F)=63(F)

MAY 14, 2007, TRUSS DESIGN ENGINEER:

THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
 STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
 16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549



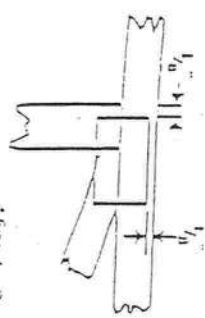


Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



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

PLATE SIZE



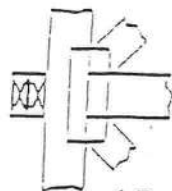
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



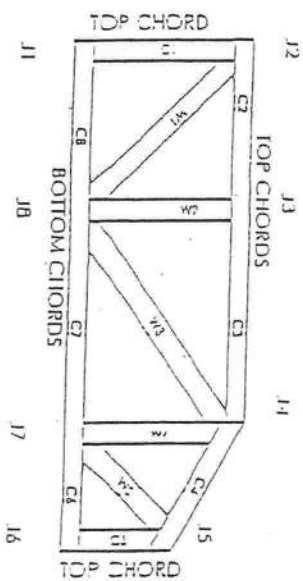
Indicates location of required continuous lateral bracing.

BEARINGS



Indicates location of joints at which bearings (supports) occur.

Numbering System

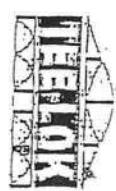


JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DIIIIR	960022-W, 970036-11
IER	561



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (1 x 8" from adjacent joint).
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with the retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or pulleys provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft spacing, or less. If no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

25878



BRITT SURVEYING

830 West Duval Street • Lake City, FL 32055
Phone (386) 752-7163 • Fax (386) 752-5573

Land Surveyors
and Mappers

07/31/07

L-18613

To Whom It May Concern:

C/o: Gary Martin

Re: Lot 15 in Rolling Meadows

The elevation of the foundation is found to be 107.67 feet. The minimum floor elevation as per the plat of record is established to be 106.00 feet. The highest adjacent grade is 106.15 feet and the lowest adjacent grade is 105.85 feet. The elevations shown hereon are based on NGVD 29.

L. Scott Britt

PLS #5757

CERTIFICATE OF OCCUPANCY

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 15-4S-16-03023-515

Building permit No. 000025878

Use Classification SFD, UTILITY

Fire: 77.00

Permit Holder BEN MARTIN

Waste: 201.00

Owner of Building BEN MARTIN

Total: 278.00

Location: 429 SW MORNING GLORY DR., LAKE CITY, FL

Date: 10/19/2007

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



BEARING HEIGHT SCHEDULE

8'-0"

OVERHANG

2'-0"

ROOF PITCH(S)

7/12

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 V05 FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2 O.C. MAXIMUM SPACING. UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING. UNLESS OTHERWISE NOTED.
- 6) S142 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 TH4422 UNLESS OTHERWISE NOTED.
- 8) BEAMHANGER/INTEL (HQR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND V055. 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.

Revised Binary Date: _____

Approved By: _____ Date: _____



Bunnell

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

Jacksonville

PHONE: 904-772-6100 FAX: 904-772-1875

Lake City

PHONE: 904-755-6894 FAX: 904-755-7975

Sanford

PHONE: 407-322-0099 FAX: 407-322-9593

BUILDER:

MARTIN EXTERIORS

LEGAL ADDRESS:

COLUMBIA, FL

MODEL:

EVAN I

DATE: 05/09/07

DRAWN BY: MONDRAGON

SCALE: NTS

JOB #: L239083

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

5/20/07

#15 Rolling Meadows

Lake City

Address of Treatment or Lot/Block of Treatment)

City

Florida Pest Control & Chemical Co.

www.flapest.com

Product to be used: Bora-Care Termiticide (Wood Treatment)

Concentration to be used: 23% Disodium Octaborate Tetrahydrate

Application will be performed onto structural wood at dried-in stage of construction. Bora-Care Termiticide application shall be applied according to EPA registered label instructions as stated in the Florida Building Code Section 1816.1

Information to be provided to local building code offices prior to concrete foundation installation.)

Notice of Treatment

12658

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

Address: 5365 BAY AVE

City: Lake City

Phone: 752 1703

Site Location: Subdivision Rolling Meadows

Lot # 15 Block#

Permit # 25878

Address 429 SW MARION BLVD

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

Dwellings

2304

698

0

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 _____.

8-17-07

0830

F254 GUNNY

Date

Time

Print Technician's Name

Remarks:

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05 ©