

Columbia County Building Permit Application

Revised 9-23-04

Left message 1/31/07

For Office Use Only Application # 0701-102 Date Received 1/25 By JW Permit # 1315/25481
 Application Approved by - Zoning Official BLK Date 31.01.07 Plans Examiner OK JTH Date 1-30-07
 Flood Zone X Development Permit NA Zoning A-3 Land Use Plan Map Category A-3
 Comments -NOC-

Applicants Name Melanie Roder Phone 386-623-7829
 Address 387 SW Kemp Court Lake City, FL 32024
 Owners Name Venture Point Phone 867-0692
 911 Address 2703 SW Watson St Fort White, FL 32038
 Contractors Name Aaron Simque Phone 867-0692
 Address P.O. Box 304 Lake City, FL 32056
 Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address Will Myers, Mark Disosway
 Mortgage Lenders Name & Address Millennium Bank
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 28-55-16-03730-004 Estimated Cost of Construction 120,000
 Subdivision Name NA Lot _____ Block _____ Unit _____ Phase _____
 Driving Directions 47 S TR on Watson St, 3rd lot on right

Type of Construction SFD Number of Existing Dwellings on Property 0
 Total Acreage 8.34 Lot Size _____ Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 100' 10" Side 92' 8" Side 98' 4" Rear 1229' 10"
 Total Building Height 21' 11" Number of Stories 1 Heated Floor Area 1876 Roof Pitch 7-12
 TOTAL 2,691

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

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

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

Owner Builder or Agent (Including Contractor)

Linda R. Roder

Commission #DD30927

Expires: Mar 24, 2008

Bonded Thru

Atlantic Bonding Co.

Contractor Signature

Contractors License Number AB29003130

Competency Card Number _____

NOTARY STAMP/SEAL

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 29 day of Jan 2007

Personally known ✓ or Produced Identification _____

Notary Signature

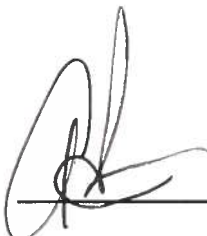
chk# 1009

Notice of Authorization

I, Aaron Simque, do hereby authorize Melanie Roder,

To be my representative and act on my behalf in all aspects of applying for a

Building permit to be located in Columbia County.



Contractor's signature

1-29-07

Date

Sworn and subscribed before me this 16 day of Jan, 2007



Notary Public



Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Personally known ☒
Produced ID (Type): _____

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

NICKLESON/CR 06-3846

North

Vacant

Well

210'

TBM in 6" pecan

Waterline

100'

Site 2

No slope

Site 1

92'

Vacant

210'

1380'

360'

262'

1380'

210' x 210'

Swale

262'

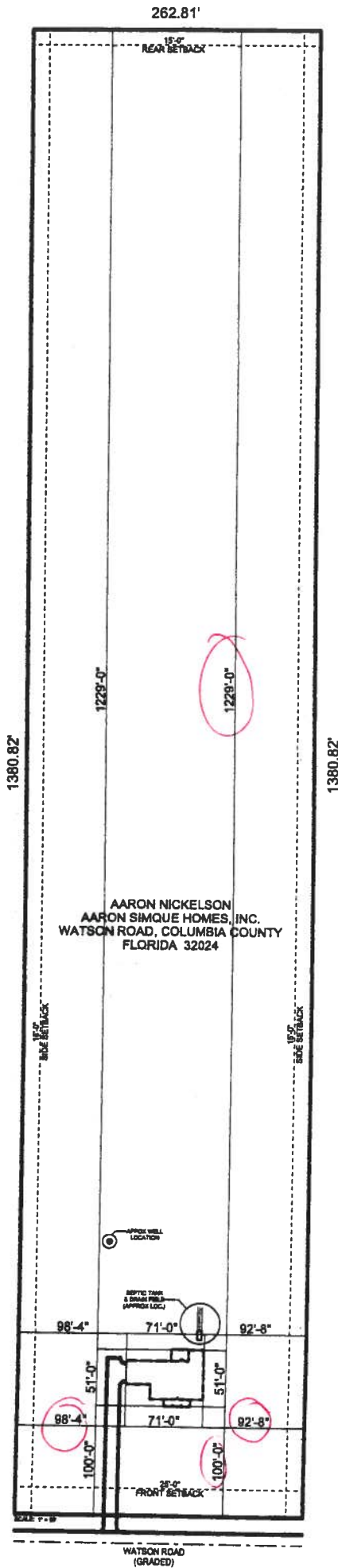
1 inch = 70 feet

Occupied >75' to well

Driveway

Site Plan Submitted By Paul J. [Signature] Date 4/14/07
Plan Approved ✓ Not Approved _____ Date 1/23/07
By Mr. [Signature] Columbia CPHU

Notes: _____



Prepared by:
Matthew D. Rocco
Sierra Title, LLC
619 SW Baya Drive, Suite 102
Lake City, Florida 32025

File Number: 06-0171

Inst:2006024866 Date:10/19/2006 Time:09:59

Doc Stamp-Deed : 420.00

DC, P. Dewitt Cason, Columbia County B:1099 P:1339

General Warranty Deed

Made this October 13th, 2006 A.D. By Anna R. Wilson, a single woman, 1320 NW Second Avenue, High Springs, FL 32643, hereinafter called the grantor, to Venture Pointe, LLC, a Florida Limited Liability Company, whose post office address is: PO Box 304, Lake City, FL 32056, hereinafter called the grantee:

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

See Attached Schedule "A"

Parcel ID Number: 28-5S-16-03730-004

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 1905.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

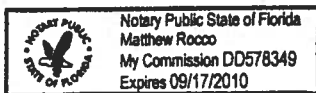
Signed, sealed and delivered in our presence:

Witness Printed Name Chad Stewart


Witness Printed Name **Matthew D. Rocco**

State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this 13th day of October, 2006, by Anna R. Wilson, a single woman, who is/are personally known to me or who has produced as identification.



Notary Public
Print Name:

My Commission Expires: _____

Prepared by:
Matthew D. Rocco
Sierra Title, LLC
619 SW Baya Drive, Suite 102
Lake City, Florida 32025

File Number: 06-0171

Inst:2006024866 Date:10/19/2006 Time:09:59
Doc Stamp-Deed : 420.00
DC, P. Dewitt Cason, Columbia County B:1099 P:1340

"Schedule A"

Exhibit "A"

A part of the SE ¼ of the NW ¼ of Section 28, Township 5 South, Range 16 East, Columbia County, Florida being more particularly described as follows:

Commence at the NE corner of the SE ¼ of the NW ¼ of said Section 28 and run thence S 88°32'25" W along the North line of the SE ¼ of the NW ¼ of said Section 28 a distance of 264.81 feet to the Point of Beginning; Thence continue S 88°32'25" W along said North line a distance of 263.15 feet; Thence S 00°41'13" E 1382.79 feet to the North maintained Right-of-Way line of Watson Road; Thence N 88°06'38" E along said North Right-of-Way a distance of 262.76 feet; Thence N 00°40'09" W a distance of 1380.82 feet to the Point of Beginning.

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 • FAX: (386) 758-1365 • Email: rnm_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 1/4/2007 DATE ISSUED: 1/5/2007

ENHANCED 9-1-1 ADDRESS:

2703 SW WATSON ST

FORT WHITE FL 32038

PROPERTY APPRAISER PARCEL NUMBER:

28-5S-16-03730-004

Remarks:

Address Issued By:



Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

587

Approved Address

JAN 05 2007

911Addressing/GIS Dept

FROM :

FRK NO. : 386-755-7822

Sep. 17 2002 01:52PM P1

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4" & 6" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (904) 788-1004
FAX (904) 788-7000
2800 NW 10th Street
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

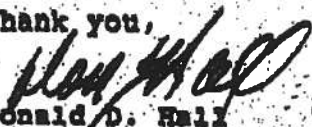
June 12, 2002

NOTICE TO ALL CONTRACTORS

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

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

Thank you,


Donald D. Hall
DDH/jk

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	Aaron Simque Homes - Aaron Nickelson	Builder:	Aaron Simque Homes
Address:	Watson Road	Permitting Office:	Columbia
City, State:	Columbia City, FL 32024-	Permit Number:	25481
Owner:	Spec House	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing New ☐ 2. Single family or multi-family Single family ☐ 3. Number of units, if multi-family 1 ☐ 4. Number of Bedrooms 4 ☐ 5. Is this a worst case? No ☐ 6. Conditioned floor area (ft²) 1858 ft² ☐ 7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default) a. U-factor: Description Area (or Single or Double DEFAULT) 7a(Sngle Default) 245.3 ft² ☐ b. SHGC: (or Clear or Tint DEFAULT) 7b. (Clear) 245.3 ft² ☐ 8. Floor types a. Slab-On-Grade Edge Insulation R=0.0, 188.0(p) ft ☐ b. N/A ☐ c. N/A ☐ 9. Wall types a. Frame, Wood, Exterior R=13.0, 1262.7 ft² ☐ b. Frame, Wood, Adjacent R=13.0, 171.0 ft² ☐ c. N/A ☐ d. N/A ☐ e. N/A ☐ 10. Ceiling types a. Under Attic R=30.0, 1950.0 ft² ☐ b. N/A ☐ c. N/A ☐ 11. Ducts(Leak Free) a. Sup: Unc. Ret: Unc. AH: Attic Sup. R=6.0, 40.0 ft ☐ b. N/A ☐	12. Cooling systems a. Central Unit Cap: 43.0 kBtu/hr ☐ SEER: 12.00 ☐ b. N/A ☐ c. N/A ☐ 13. Heating systems a. Electric Heat Pump Cap: 43.0 kBtu/hr ☐ HSPF: 7.20 ☐ b. N/A ☐ c. N/A ☐ 14. Hot water systems a. Electric Resistance Cap: 50.0 gallons ☐ EF: 0.90 ☐ b. N/A ☐ c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) 15. HVAC credits PT, ☐ (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)
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Glass/Floor Area: 0.13

Total as-built points: 28983

Total base points: 29848

PASS

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

PREPARED BY: *[Signature]*

DATE: 12-28-06

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.
EnergyGauge® (Version: FLRCPB v4.1)

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

ADDRESS: Watson Road, Columbia City, FL, 32024-

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	1858.0	20.04	6702.2	Single, Clear	W	1.5	9.0	18.0	43.84	0.97	765.7
				Single, Clear	W	11.5	9.0	40.0	43.84	0.47	832.3
				Single, Clear	W	1.5	9.0	30.0	43.84	0.97	1276.1
				Single, Clear	N	1.5	9.0	30.0	21.73	0.98	636.0
				Single, Clear	N	1.5	9.0	4.0	21.73	0.98	84.8
				Single, Clear	E	1.5	9.0	60.0	47.92	0.97	2788.2
				Single, Clear	E	7.5	10.0	30.0	47.92	0.59	852.5
				Single, Clear	E	7.5	10.0	13.3	47.92	0.59	377.9
				Single, Clear	S	1.5	9.0	20.0	40.81	0.94	770.6
				As-Built Total:		245.3			8384.1		
WALL TYPES		Area X BSPM = Points		Type	R-Value		Area X SPM = Points				
Adjacent	171.0	0.70	119.7	Frame, Wood, Exterior	13.0		1262.7	1.50		1894.0	
Exterior	1262.7	1.70	2146.6	Frame, Wood, Adjacent	13.0		171.0	0.60		102.6	
Base Total:		1433.7	2266.3	As-Built Total:		1433.7			1996.6		
DOOR TYPES		Area X BSPM = Points		Type	Area X SPM = Points						
Adjacent	18.0	1.60	28.8	Exterior Insulated			20.0	4.10		82.0	
Exterior	20.0	4.10	82.0	Adjacent Insulated			18.0	1.60		28.8	
Base Total:		38.0	110.8	As-Built Total:		38.0			110.8		
CEILING TYPES		Area X BSPM = Points		Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1858.0	1.73	3214.3	Under Attic	30.0		1950.0	1.73 X 1.00		3373.5	
Base Total:		1858.0	3214.3	As-Built Total:		1950.0			3373.5		
FLOOR TYPES		Area X BSPM = Points		Type	R-Value		Area X SPM = Points				
Slab	188.0(p)	-37.0	-6956.0	Slab-On-Grade Edge Insulation	0.0		188.0(p)	-41.20		-7745.6	
Raised	0.0	0.00	0.0								
Base Total:		-6956.0		As-Built Total:		188.0			-7745.6		
INFILTRATION		Area X BSPM = Points		Area X SPM = Points							
		1858.0	10.21	18970.2				1858.0	10.21	18970.2	

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**ADDRESS: **Watson Road, Columbia City, FL, 32024-**

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 24307.8				Summer As-Built Points: 25089.6						
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
24307.8	0.4266		10369.7	(sys 1: Central Unit 43000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS) 25090	1.00	(1.09 x 1.000 x 1.11)	0.284	0.950		8202.0
				25089.6	1.00	1.210	0.284	0.950		8202.0

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**ADDRESS: **Watson Road, Columbia City, FL, 32024-**

PERMIT #:

BASE				AS-BUILT						
Winter Base Points:		14246.2		Winter As-Built Points:					18914.5	
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
14246.2	0.6274		8938.1	(sys 1: Electric Heat Pump 43000 btuh ,EFF(7.2) Ducts:Unc(S),Unc(R),Att(AH),R6.0 18914.5 1.000 (1.069 x 1.000 x 1.10) 0.474 0.950 10007.2						
14246.2	0.6274		8938.1	18914.5	1.00	1.176	0.474	0.950		10007.2

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**ADDRESS: **Watson Road, Columbia City, FL, 32024-**

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	Multiplier X Credit Multiplier	= Total
4		2635.00	10540.0	50.0	0.90	4	1.00	2693.56	10774.2
				As-Built Total:					10774.2

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+ Hot Water Points = Total Points
10370		8938		10540	29848	8202		10007	10774 28983

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Watson Road, Columbia City, FL, 32024-

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.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.6

The higher the score, the more efficient the home.

Spec House, Watson Road, Columbia City, FL, 32024-

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 43.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft ²)	1858 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: 43.0 kBtu/hr
(or Single or Double DEFAULT)	7a(Sngle Default) 245.3 ft ²		HSPF: 7.20
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 245.3 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 188.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1262.7 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 171.0 ft ²	DHP-Dedicated heat pump)	
c. N/A			
d. N/A		15. HVAC credits	PT, —
e. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		HF-Whole house fan,	
a. Under Attic	R=30.0, 1950.0 ft ²	PT-Programmable Thermostat,	
b. N/A		MZ-C-Multizone cooling,	
c. N/A		MZ-H-Multizone heating)	
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 40.0 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: FLRCPB v4.1)

Energy Code Compliance

Duct System Performance Report

Project Name:	Aaron Simque Homes - Aaron Nickelson	Builder:	Aaron Simque Homes
Address:	Watson Road	Permitting Office:	Columbia
City, State:	Columbia City, FL 32024-	Permit Number:	
Owner:	Spec House	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	Total House Duct System Leakage	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,tot}) ☐ Receive credit if Q _{n,tot} ≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,out}) ☐ Receive credit if Q _{n,out} ≤ 0.03 AND Q _{n,tot} ≤ 0.09

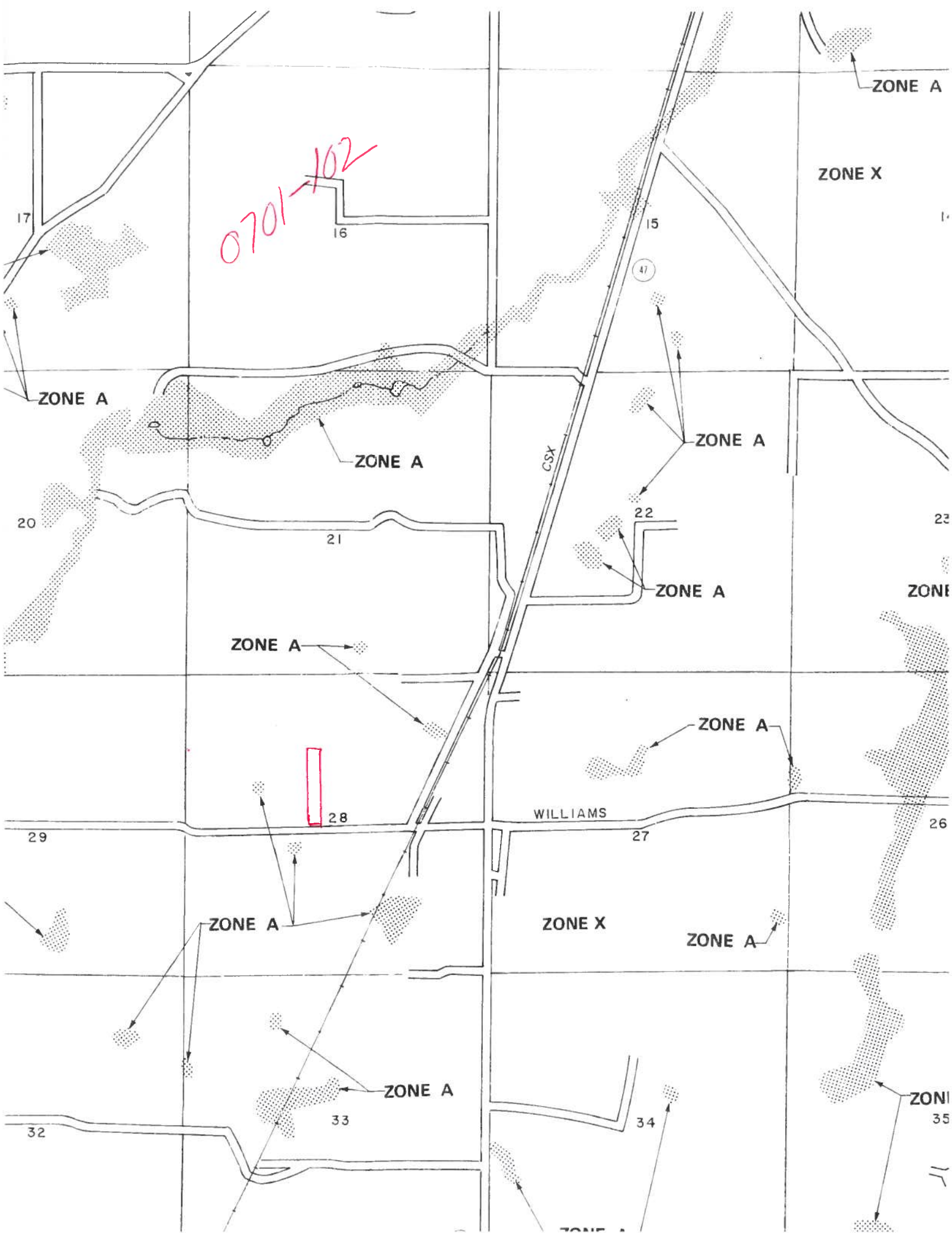
I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____
Printed Name: _____
Florida Rater Certification #: _____
DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: <http://energygauge.com/search.htm>



BUILDING OFFICIAL: _____
DATE: _____



NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY
CLERKS OFFICE BEFORE YOUR FIRST INSPECTION

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.

IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE
RECORDING YOUR NOTICE OF COMMENCEMENT.

Tax Parcel ID Number 28-55-16-03730-004

Permit Number 000025481

1. Description of property: (legal description of the property and street address or 911 address)

2703 SW WATSON Street Ft White FL. 32028
COMM NE COR OF SE 1/4 OF NW 1/4 Run W 264.81 Ft. For POB, CONT W 263.15 Ft, S 1382
Ft. to N R/W WATSON RD, E Along R/W 262.76 Ft N 1380.82 Ft to POB. ORB 970-2271 + ORB 101
2496

2. General description of improvement: Construction of Single Family Dwelling

3. Owner Name & Address Venture Pointe, LLC PO Box 304,
LAKE CITY FL. 32056 Interest In Property Fee Simple Forever

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

5. Contractor Name Aaron Simgue Homes, INC. Phone Number 255-0841
Address PO Box 2183 LAKE CITY FL. 32056

6. Surety Holders Name N/A Phone Number
Address

Amount of Bond N/A Inst:2007003383 Date:02/12/2007 Time:11:06

7. Lender Name N/A DC, P. DeWitt Cason, Columbia County B:1110 P:1406
Address

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be
served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name Aaron Simgue Phone Number 386-867-0692
Address PO Box 2183 LAKE CITY FL. 32056

9. In addition to himself/herself the owner designates Aaron Simgue of
Aaron Simgue Homes, INC to receive a copy of the Lien Notice as provided in Section 713.13 (1) -
(a) 7. Phone Number of the designee 386-867-0692

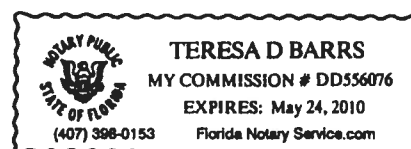
10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of
recording, (Unless a different date is specified))

THE OWNER MUST SIGN THE NOTICE OF COMMENCEMENT AND NO ONE ELSE MAY BE PERMITTED TO SIGN
IN HIS/HER STEAD.


Signature of Owner

Personally known
Sworn to (or affirmed) and subscribed before day of 12th, 20 2007

Teresa D Barrs
Signature of Notary NOTARY STAMP/SEAL



12352
Notice of Treatment

Applicator Florida Pest Control & Chemical Co.

Address 5365 E Palm Dr.

City Lake City, FL **Phone** 386-252-1727

Site Location Subdivision

Lot# Block# **Permit#** 25481

Address 166 NE Outpost

AREAS TREATED

Area Treated	Date	Time	Gal.	Print Technician's
				Name
Main Body	2-13-07	4:25 PM	2.5	FOC2-BH
Patio/s #				
Stoop/s #				
Porch/s #				
Brick Veneer				
Extension Walls				
A/C Pad				
Walk/s #				
Exterior of Foundation				
Driveway Apron				
Out Building				
Tub Trap/s	2-17-07	4:25 PM	1.25	
(Other)				

Name of Product Applied Bora care 23 %

Remarks Front porch post not in place at this time.

Applicator - White • Permit File - Canary • Permit Holder - Pink

©

COLUMBIA COUNTY OF FLORIDA

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 28-5S-16-03730-004

Building permit No. 000025481

Use Classification SFD/UTILITY

Fire: 43.16

Permit Holder AARON SIMQUE

Waste: 67.00

Owner of Building VENTURE POINT, LLC

Total: 110.16

Location: 2703 SW WATSON STREET, FT. WHITE, FL

Date: 06/21/2007



Paul A.

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001315

DATE 02/01/2007 PARCEL ID # 28-5S-16-03730-004
APPLICANT MELANIE RODER PHONE 386.623.7829
ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024
OWNER VENTURE POINT,LLC PHONE 867.0692
ADDRESS 2703 SW WATSON STREET FT. WHITE FL 32038
CONTRACTOR AARON SIMQUE PHONE 867.0692
LOCATION OF PROPERTY 47-S TO WATSON RD,TR AND T'S THE 3RD LOT ON THE R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT _____

SIGNATURE

Melanie Roder

INSTALLATION REQUIREMENTS



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

INSTALLATION NOTE: Turnouts will be required as follows:

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

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



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

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

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

Amount Paid 25.00



Residential System Sizing Calculation

Summary

Spec House
Watson Road
Columbia City, FL 32024-

Project Title:
Aaron Simque Homes - Aaron Nickelson

Code Only
Professional Version
Climate: North

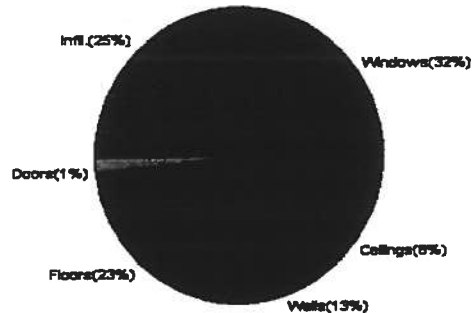
12/28/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	36264 Btuh	Total cooling load calculation	41174 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	118.6 43000	Sensible (SHR = 0.75)	99.4 32250
Heat Pump + Auxiliary(0.0kW)	118.6 43000	Latent	123.1 10750
		Total (Electric Heat Pump)	104.4 43000

WINTER CALCULATIONS

Winter Heating Load (for 1858 sqft)

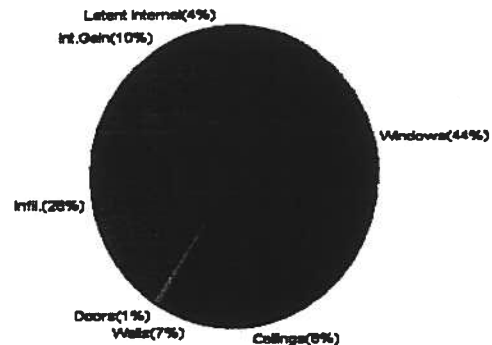
Load component		Load	
Window total	245 sqft	11527	Btuh
Wall total	1434 sqft	4708	Btuh
Door total	38 sqft	492	Btuh
Ceiling total	1950 sqft	2298	Btuh
Floor total	188 sqft	8208	Btuh
Infiltration	223 cfm	9031	Btuh
Duct loss		0	Btuh
Subtotal		36264	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		36264	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1858 sqft)

Load component		Load	
Window total	245 sqft	18080	Btuh
Wall total	1434 sqft	2892	Btuh
Door total	38 sqft	372	Btuh
Ceiling total	1950 sqft	3229	Btuh
Floor total		0	Btuh
Infiltration	195 cfm	3631	Btuh
Internal gain		4240	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		32444	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		7130	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1600	Btuh
Total latent gain		8730	Btuh
TOTAL HEAT GAIN		41174	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: Jon Morris

DATE: 12-28-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House
Watson Road
Columbia City, FL 32024-

Project Title:
Aaron Simque Homes - Aaron Nickelson

Code Only
Professional Version
Climate: North

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

12/28/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	18.0	47.0	846 Btuh
2	1, Clear, Metal, 1.27	W	40.0	47.0	1880 Btuh
3	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
4	1, Clear, Metal, 1.27	N	30.0	47.0	1410 Btuh
5	1, Clear, Metal, 1.27	N	4.0	47.0	188 Btuh
6	1, Clear, Metal, 1.27	E	60.0	47.0	2819 Btuh
7	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
8	1, Clear, Metal, 1.27	E	13.3	47.0	625 Btuh
9	1, Clear, Metal, 1.27	S	20.0	47.0	940 Btuh
Window Total			245(sqft)		11527 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1263	3.3	4147 Btuh
2	Frame - Wood - Adj(0.09)	13.0	171	3.3	562 Btuh
Wall Total			1434		4708 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	233 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
Door Total			38		492 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1950	1.2	2298 Btuh
Ceiling Total			1950		2298 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	188.0 ft(p)	43.7	8208 Btuh
Floor Total			188		8208 Btuh
Zone Envelope Subtotal:					27233 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	16722	223.0	9031 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				36264 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
Watson Road
Columbia City, FL 32024-

Project Title:
Aaron Simque Homes - Aaron Nickelson

Code Only
Professional Version
Climate: North

12/28/2008



	Subtotal Sensible Ventilation Sensible Total Btuh Loss	36264 Btuh 0 Btuh 36264 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
Watson Road
Columbia City, FL 32024-

Project Title:
Aaron Simque Homes - Aaron Nickelson

Code Only
Professional Version
Climate: North

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

12/28/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	18.0	47.0	846 Btuh
2	1, Clear, Metal, 1.27	W	40.0	47.0	1880 Btuh
3	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
4	1, Clear, Metal, 1.27	N	30.0	47.0	1410 Btuh
5	1, Clear, Metal, 1.27	N	4.0	47.0	188 Btuh
6	1, Clear, Metal, 1.27	E	60.0	47.0	2819 Btuh
7	1, Clear, Metal, 1.27	E	30.0	47.0	1410 Btuh
8	1, Clear, Metal, 1.27	E	13.3	47.0	625 Btuh
9	1, Clear, Metal, 1.27	S	20.0	47.0	940 Btuh
Window Total			245(sqft)		11527 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1263	3.3	4147 Btuh
2	Frame - Wood - Adj(0.09)	13.0	171	3.3	562 Btuh
Wall Total			1434		4708 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	233 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
Door Total			38		492 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1950	1.2	2298 Btuh
Ceiling Total			1950		2298 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	188.0 ft(p)	43.7	8208 Btuh
Floor Total			188		8208 Btuh
Zone Envelope Subtotal:					27233 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	16722	223.0	9031 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				36264 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
Watson Road
Columbia City, FL 32024-

Project Title:
Aaron Simque Homes - Aaron Nickelson

Code Only
Professional Version
Climate: North

12/28/2006

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	36264 Btuh 0 Btuh 36264 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
Watson Road
Columbia City, FL 32024-

Project Title:
Aaron Simque Homes - Aaron Nickelson

Code Only
Professional Version
Climate: North

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

12/28/2006

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	1, Clear, 1.27, None,N,N	W	1.5ft	9ft.	18.0	0.0	18.0	37	94	1693 Btuh
2	1, Clear, 1.27, None,N,N	W	11.5f	9ft.	40.0	40.0	0.0	37	94	1498 Btuh
3	1, Clear, 1.27, None,N,N	W	1.5ft	9ft.	30.0	0.0	30.0	37	94	2821 Btuh
4	1, Clear, 1.27, None,N,N	N	1.5ft	9ft.	30.0	0.0	30.0	37	37	1124 Btuh
5	1, Clear, 1.27, None,N,N	N	1.5ft	9ft.	4.0	0.0	4.0	37	37	150 Btuh
6	1, Clear, 1.27, None,N,N	E	1.5ft	9ft.	60.0	0.0	60.0	37	94	5843 Btuh
7	1, Clear, 1.27, None,N,N	E	7.5ft	10ft.	30.0	7.3	22.7	37	94	2405 Btuh
8	1, Clear, 1.27, None,N,N	E	7.5ft	10ft.	13.3	5.8	7.5	37	94	924 Btuh
9	1, Clear, 1.27, None,N,N	S	1.5ft	9ft.	20.0	20.0	0.0	37	43	749 Btuh
Excursion										1073 Btuh
Window Total					245 (sqft)					18080 Btuh
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1262.7		2.1		2634 Btuh	
2	Frame - Wood - Adj	13.0/0.09			171.0		1.5		258 Btuh	
Wall Total					1434 (sqft)				2892 Btuh	
Doors	Type				Area (sqft)		HTM		Load	
1	Insulated - Adjacent				18.0		9.8		176 Btuh	
2	Insulated - Exterior				20.0		9.8		196 Btuh	
Door Total					38 (sqft)				372 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load	
1	Vented Attic/DarkShingle	30.0			1950.0		1.7		3229 Btuh	
Ceiling Total					1950 (sqft)				3229 Btuh	
Floors	Type	R-Value			Size		HTM		Load	
1	Slab On Grade	0.0			188 (ft(p))		0.0		0 Btuh	
Floor Total					188.0 (sqft)				0 Btuh	
Zone Envelope Subtotal:										24573 Btuh
Infiltration	Type	ACH			Volume(cuft)		CFM=		Load	
SensibleNatural		0.70			16722		195.1		3631 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load	
		8			X 230 +			2400		4240 Btuh
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
Sensible Zone Load										32444 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
Watson Road
Columbia City, FL 32024-

Project Title:
Aaron Simque Homes - Aaron Nickelson

Code Only
Professional Version
Climate: North

12/28/2006

Whole House Totals for Cooling	Sensible Envelope Load All Zones	32444 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	32444 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	32444 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	7130 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	8730 Btuh
	TOTAL GAIN	41174 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))

(Omt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House
Watson Road
Columbia City, FL 32024-

Project Title:
Aaron Simque Homes - Aaron Nickelson

Code Only
Professional Version
Climate: North

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

12/28/2006

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	1, Clear, 1.27, None,N,N	W	1.5ft	9ft.	18.0	0.0	18.0	37	94	1693 Btuh
2	1, Clear, 1.27, None,N,N	W	11.5f	9ft.	40.0	40.0	0.0	37	94	1498 Btuh
3	1, Clear, 1.27, None,N,N	W	1.5ft	9ft.	30.0	0.0	30.0	37	94	2821 Btuh
4	1, Clear, 1.27, None,N,N	N	1.5ft	9ft.	30.0	0.0	30.0	37	37	1124 Btuh
5	1, Clear, 1.27, None,N,N	N	1.5ft	9ft.	4.0	0.0	4.0	37	37	150 Btuh
6	1, Clear, 1.27, None,N,N	E	1.5ft	9ft.	60.0	0.0	60.0	37	94	5643 Btuh
7	1, Clear, 1.27, None,N,N	E	7.5ft	10ft.	30.0	7.3	22.7	37	94	2405 Btuh
8	1, Clear, 1.27, None,N,N	E	7.5ft	10ft.	13.3	5.8	7.5	37	94	924 Btuh
9	1, Clear, 1.27, None,N,N	S	1.5ft	9ft.	20.0	20.0	0.0	37	43	749 Btuh
	Excursion									1073 Btuh
	Window Total				245 (sqft)					18080 Btuh
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load
1	Frame - Wood - Ext		13.0/0.09		1262.7			2.1		2634 Btuh
2	Frame - Wood - Adj		13.0/0.09		171.0			1.5		258 Btuh
	Wall Total				1434 (sqft)					2892 Btuh
Doors	Type				Area (sqft)			HTM		Load
1	Insulated - Adjacent				18.0			9.8		176 Btuh
2	Insulated - Exterior				20.0			9.8		196 Btuh
	Door Total				38 (sqft)					372 Btuh
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load
1	Vented Attic/DarkShingle		30.0		1950.0			1.7		3229 Btuh
	Ceiling Total				1950 (sqft)					3229 Btuh
Floors	Type		R-Value		Size			HTM		Load
1	Slab On Grade		0.0		188 (ft(p))			0.0		0 Btuh
	Floor Total				188.0 (sqft)					0 Btuh
			Zone Envelope Subtotal:							24573 Btuh
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load
	SensibleNatural		0.70		16722			195.1		3631 Btuh
Internal gain			Occupants		Btuh/occupant			Appliance		Load
			8		X 230 +			2400		4240 Btuh
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
			Sensible Zone Load							32444 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
Watson Road
Columbia City, FL 32024-

Project Title:
Aaron Simque Homes - Aaron Nickelson

Code Only
Professional Version
Climate: North

12/28/2006

Whole House Totals for Cooling	Sensible Envelope Load All Zones	32444 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	32444 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	32444 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	7130 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	8730 Btuh
	TOTAL GAIN	41174 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))
(Omt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Spec House
Watson Road
Columbia City, FL 32024-

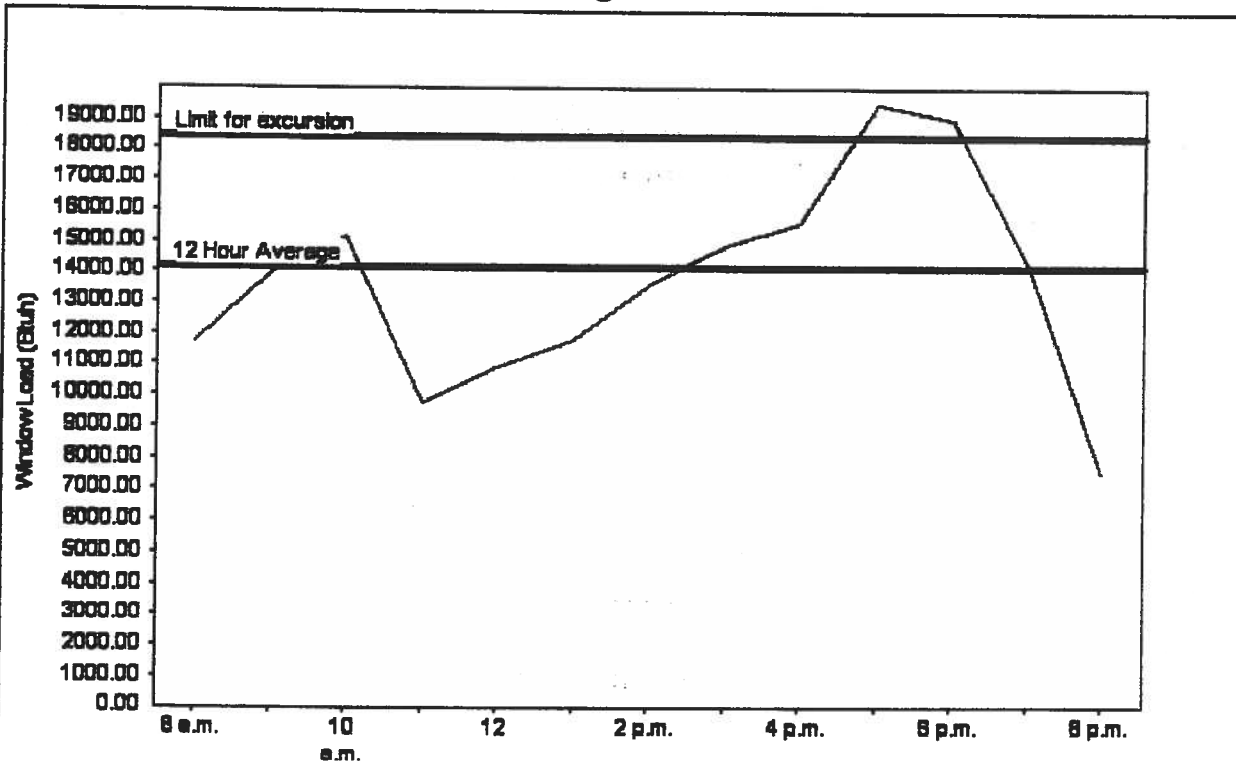
Project Title:
Aaron Simque Homes - Aaron Nickelson

Code Only
Professional Version
Climate: North

12/28/2006

Summer design temperature	92 F	Average window load for July	14173 Btu
Summer setpoint	75 F	Peak window load for July	19498 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	18425 Btu
Latitude	29 North	Window excursion (July)	1073 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

EnergyGauge® FLRCPB v4.1



TAMKO

ROOFING PRODUCTS

(CONTINUED FROM Pg. 2)

- Glass-Seal
- Glass-Seal AR

- Elite Glass-Seal®
- Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a 3.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Nailed Fastening Pattern.

5. RE-ROOFING

Before re-roofing, be certain to inspect the roof deck. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and re-laminate in a new location. Remove all drip edge metal and replace with new.

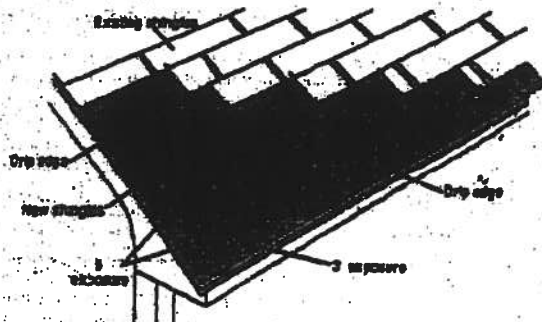
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nailing procedure described below is the preferred method for re-roofing over square tab shingles with a 5 in. exposure.

Starter Courses: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tab from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 2 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

First Courses: Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

Second and Successive Courses: According to the off-set application method you choose to use, remove the appropriate length from the



take end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingles used in the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.

6. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 60 lb. roll roofing in the valley. Nail the fast only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. on to the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

Note: For a master installation, snap a chalkline over the shingles for guidance.

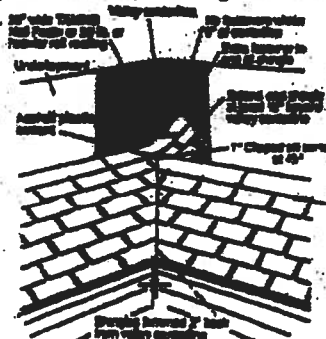
- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

• CAUTION:

Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



(Continued)

Visit Our Web Site at
www.tamko.com

Central District
Northeast District
Southeast District
Southwest District
Western District

220 West 4th St., Joplin, MO 64801
4800 Tamko Dr., Frederick, MD 21701
2300 35th St., Tuscaloosa, AL 35401
7910 S. Central Exp., Dallas, TX 75216
5300 East 43rd Ave., Denver, CO 80216

800-841-4601
800-358-2066
800-228-2666
800-443-1834
800-530-8866

07/01



FEB - 4 REC'D

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.

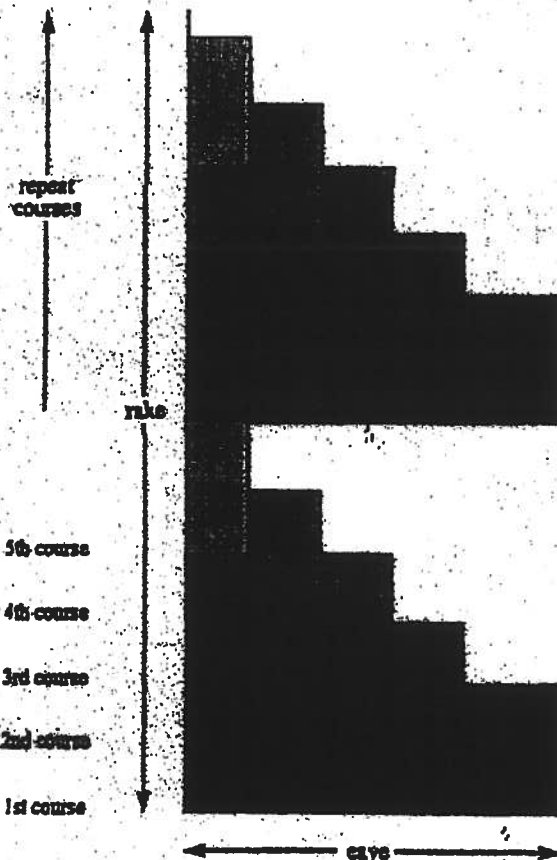
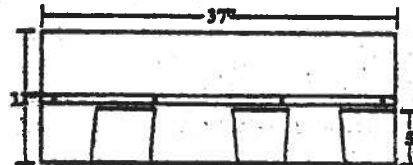
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

TAMKO Roofing Products, Inc.



Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"



The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.



Application Instructions for

- Glass-Seal
 - Glass-Seal AR
 - Elite Glass-Seal®
 - Elite Glass-Seal® AR
- THREE-TAB ASPHALT SHINGLES**

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS. THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER. IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and ridges.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thick, and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be at 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.

FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENING

NAILED: TAMKO recommends the use of nails as the preferred method of application.

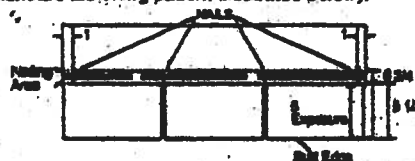
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

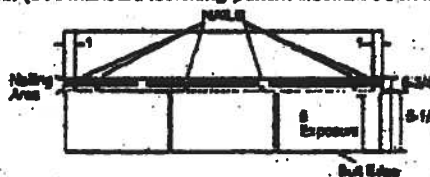
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagrams and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 8-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

- 1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below.)



- 2) Mansard or High Wind Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fasteners per shingle. (See Mansard fastening pattern illustrated below.)



NAILED: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

(Continued)

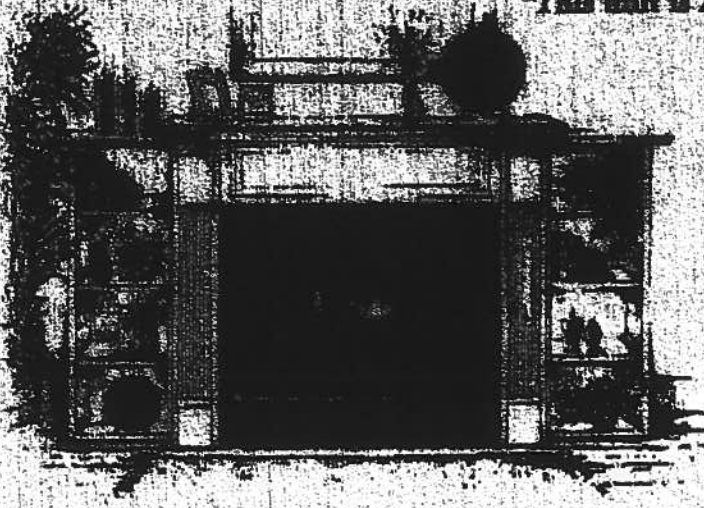
Visit Our Web Site at
www.tamko.com

Central District	220 West 4th St., Joplin, MO 64801	800-541-4691
Northeast District	4500 Tamko Dr., Frederick, MD 21701	800-368-2066
Southeast District	2300 35th St., Tuscaloosa, AL 35401	800-228-2858
Southwest District	7910 S. Central Exp., Dallas, TX 75218	800-443-1834
Western District	8300 East 43rd Ave., Denver, CO 80218	800-530-8868

07/01

VENT-RT

This unit is A.G.A. certified as a heater with 99% heat efficiency
 No chimney or flue system required
 Wide selection of factory installed options offered

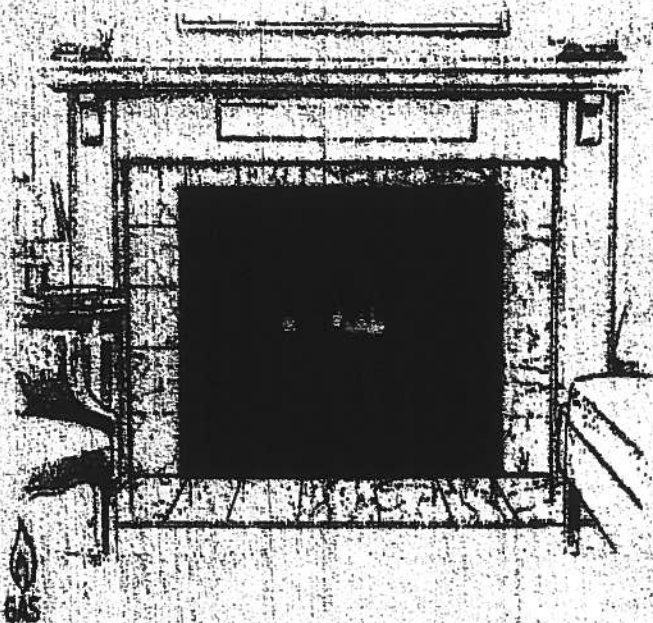
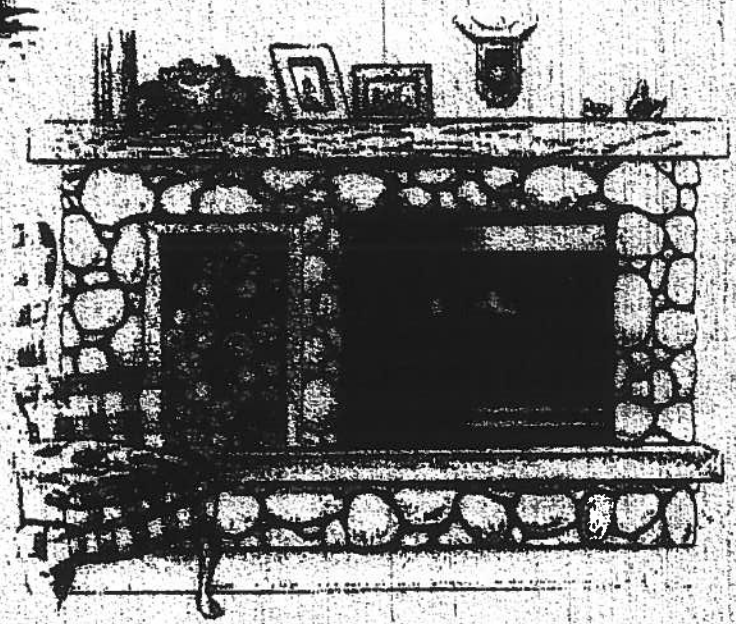


VF-4000

- 14,000 - 25,000 Btu/hr with manual control valve
- 19,500 - 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening

VF-5000

- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers

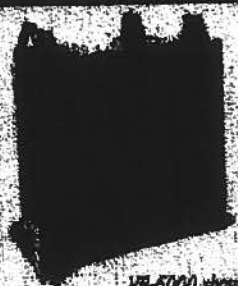


VF-6000

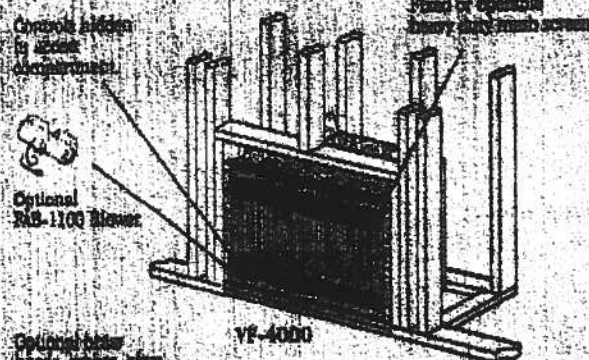
- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

SUPERIOR

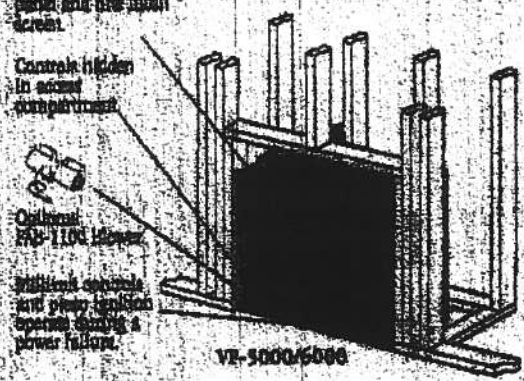
1000/1000 5000



VP-5000 surround



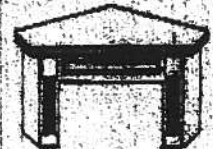
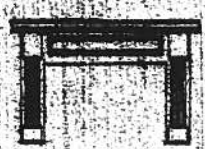
VP-4000



VP-5000/5000

SURROUNDS

The Chameleon Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly detailed surround. The surround is constructed using easy to assemble cam locks, and available in corner and wall units.



Distributed by:



Refractory tan brick panels



Gas flux liner kit



Square brass air kit



Brass Lower kit (For VP-4 only)



Screen panel kit (For VP-5 & VP6 only)



Arch kit (For VP-5 & VP6 only)



Glass door kit (For VP-5 & VP6 only)



Brass head (For VP-5 & VP6 only)

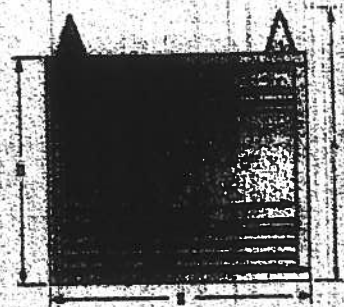


Wall switch or optional wireless remote available (For VP-4000, VP-5 & VP-6)

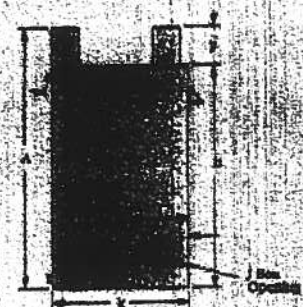


Wall thermostat (For VP-4000, VP-5 & VP-6)

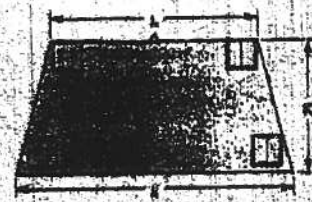
Front View



Left Side View



Top View



Vents-Free Product Dimensions

	VP-4000/5000C	VP-5000C
A	31-1/2"	35-1/2"
B	27"	30"
C	27"	30"
D	31-1/2"	35-1/2"
E	31-1/2"	35-1/2"
F	31-1/2"	35-1/2"
G	31-1/2"	35-1/2"
H	31-1/2"	35-1/2"
I	31-1/2"	35-1/2"
J	31-1/2"	35-1/2"
K	31-1/2"	35-1/2"
L	31-1/2"	35-1/2"
M	31-1/2"	35-1/2"
N	31-1/2"	35-1/2"
O	31-1/2"	35-1/2"
P	31-1/2"	35-1/2"
Q	31-1/2"	35-1/2"
R	31-1/2"	35-1/2"
S	31-1/2"	35-1/2"
T	31-1/2"	35-1/2"
U	31-1/2"	35-1/2"
V	31-1/2"	35-1/2"
W	31-1/2"	35-1/2"
X	31-1/2"	35-1/2"
Y	31-1/2"	35-1/2"
Z	31-1/2"	35-1/2"

Btu Chart

Model	Natural	Propane
VP-4000 natural	14,000 - 25,000	14,000 - 25,000
VP-4000/5000C natural	19,500 - 25,000	19,500 - 25,000
VP-5000	25,000 - 32,000	25,000 - 32,000

Framing Dimensions

Model	Width	Height	Depth
VP-4000/5000	37"	57-3/4"	15-1/2"
VP-5000	41"	62-3/4"	19-1/2"

NOTE: Diagrams and illustrations are not to scale. Product designs, materials, dimensions, specifications, colors and prices subject to change or discontinuation without notice. Built to ASH Z31.11.2 standard and approved by A.C.S.A. Report # 12970017.

Consult your distributor for local fireplace code information.



SUPERIOR

www.LakeCityHearthProducts.com

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 Lake City Industries does not warrant any gas appliances include a 20-year limited warranty.

VP-5000 1000 5000

May 01 2003 07:51 AM P2

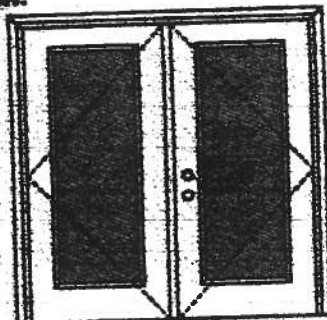
FAX NO. : +386 758 4735

FROM: LAKE CITY INDUSTRIES

XX
Glazed Outswing Unit

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'6".

Double Door
Maximum unit size = 6'6" x 6'6"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistance requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed — see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed — see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

1/4 GLASS:



100 Series



125, 126 Series



128 Series



200 Series



222 Series

1/2 GLASS:



105 Series



106, 109 Series



129 Series



200 Series



12 AL, 25 AL, 34 AL Series



167 Series



108 Series



304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

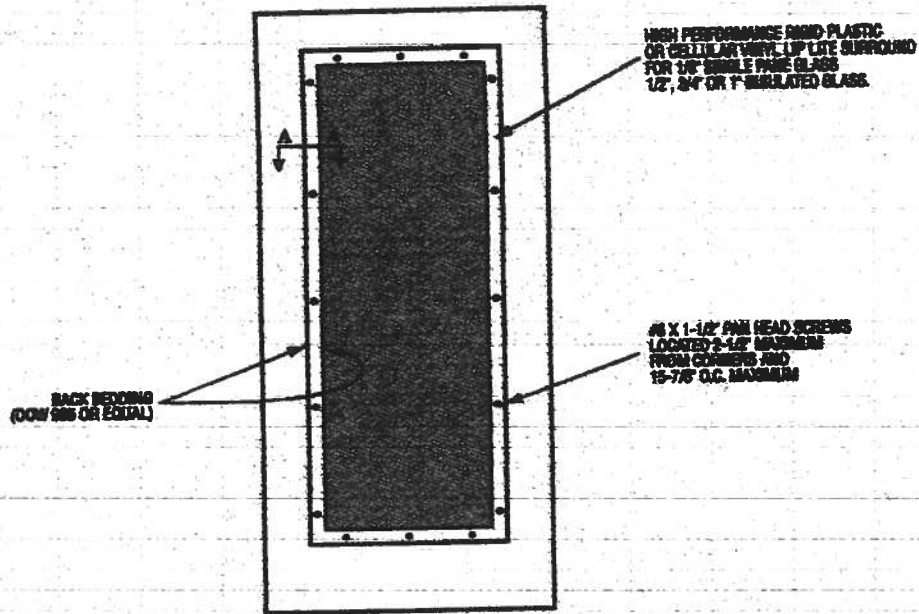
Johnson
Entry Systems

March 28, 2002
Our continuing program of product improvement makes specifications, design and product
subject to change without notice.

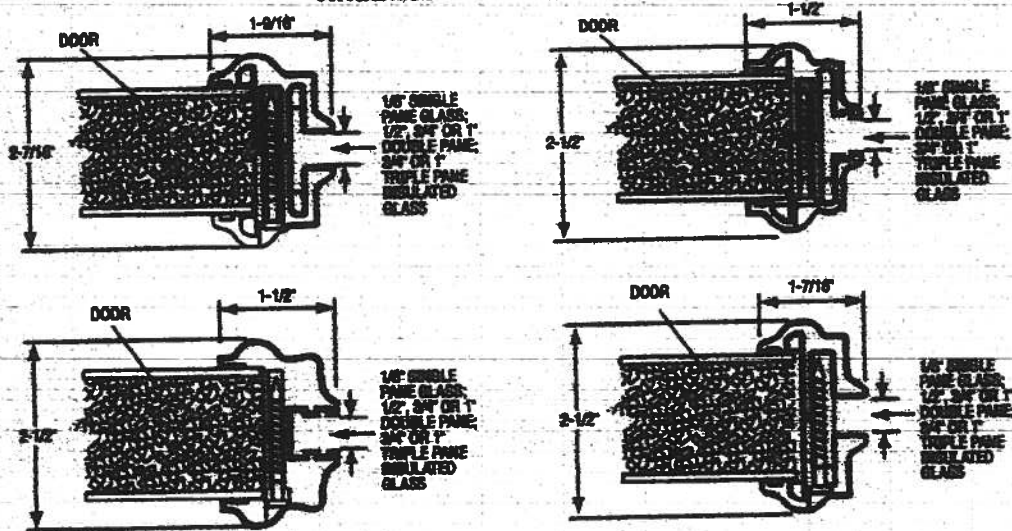


Exclusively from
Masonite
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX

Glazed Outswing Unit

CCP-AL-364102-01

WOOD-EDGE STEEL DOORS**APPROVED DOOR STYLES:****3/4 GLASS:**

404 Series



410 Series



408 Series

FULL GLASS:

100 Series



114, 130, 132 Series



102 Series



140 Series



500 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top and rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip fits surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202
COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L. Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. - License Number 58533

Johnson
Entry Systems

March 29, 2002
Our engineering programs of product development, testing, specifications, design and product development are subject to change without notice.

PRENDRE
Premium Quality Doors



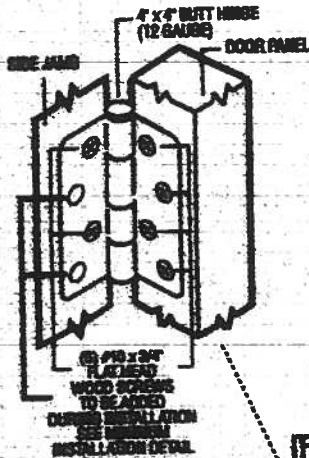
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Masonite
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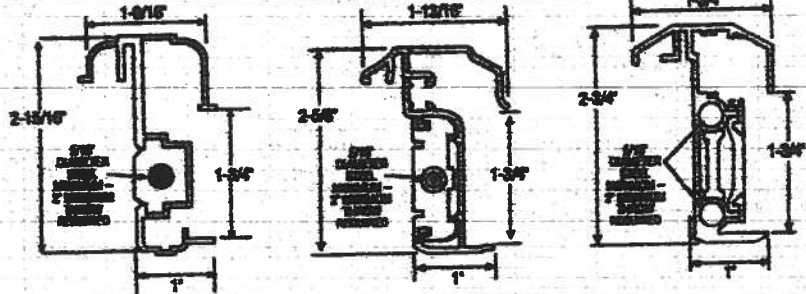
XX
Unit

OUTSWING UNITS WITH DOUBLE DOOR

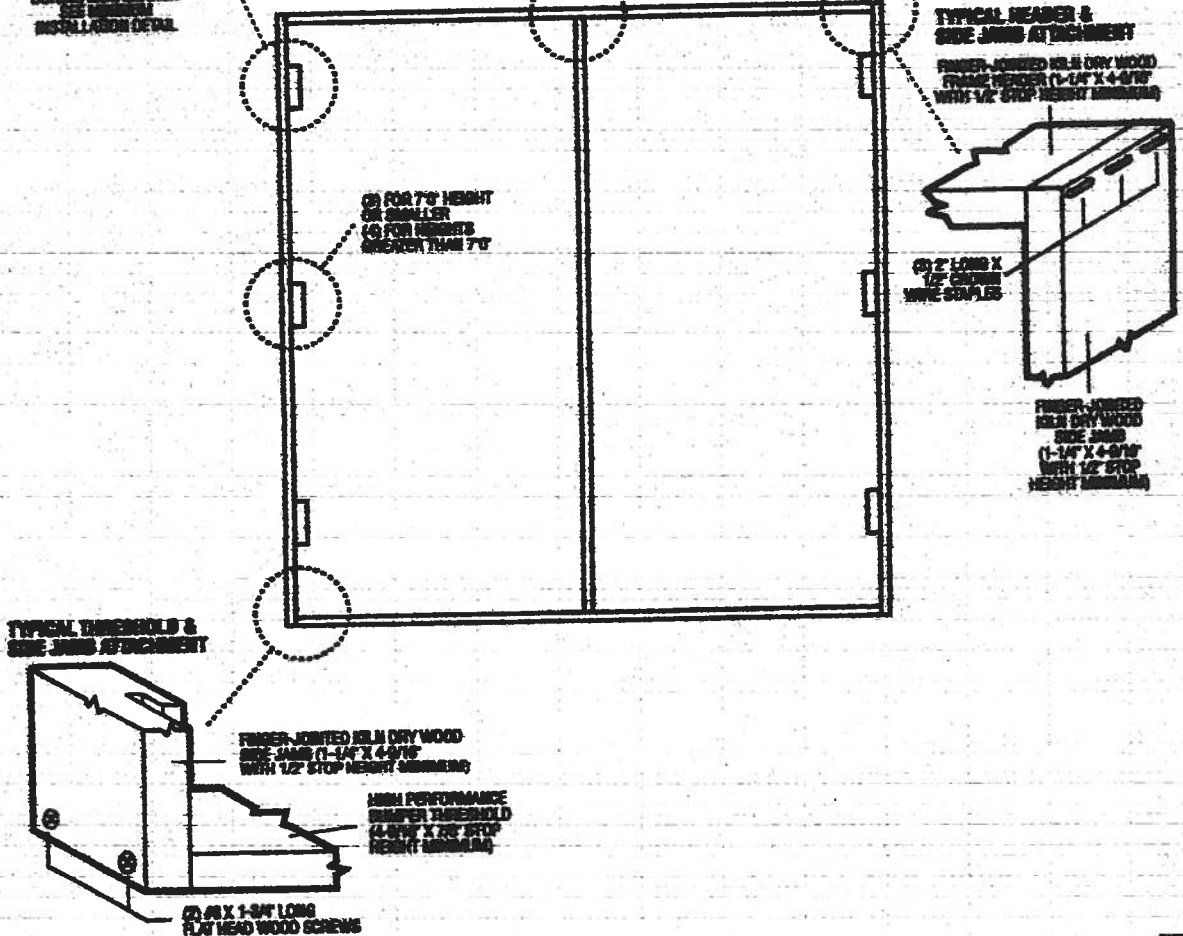
TYPICAL HINGE ATTACHMENT



TYPICAL ASTRAGAL PROFILE



ALUMINUM EXTRUDED ASTRAGAL (1/8\"/>



March 22, 2002
Our continuing program of product improvement and/or specification
change and product detail subject to change without notice.

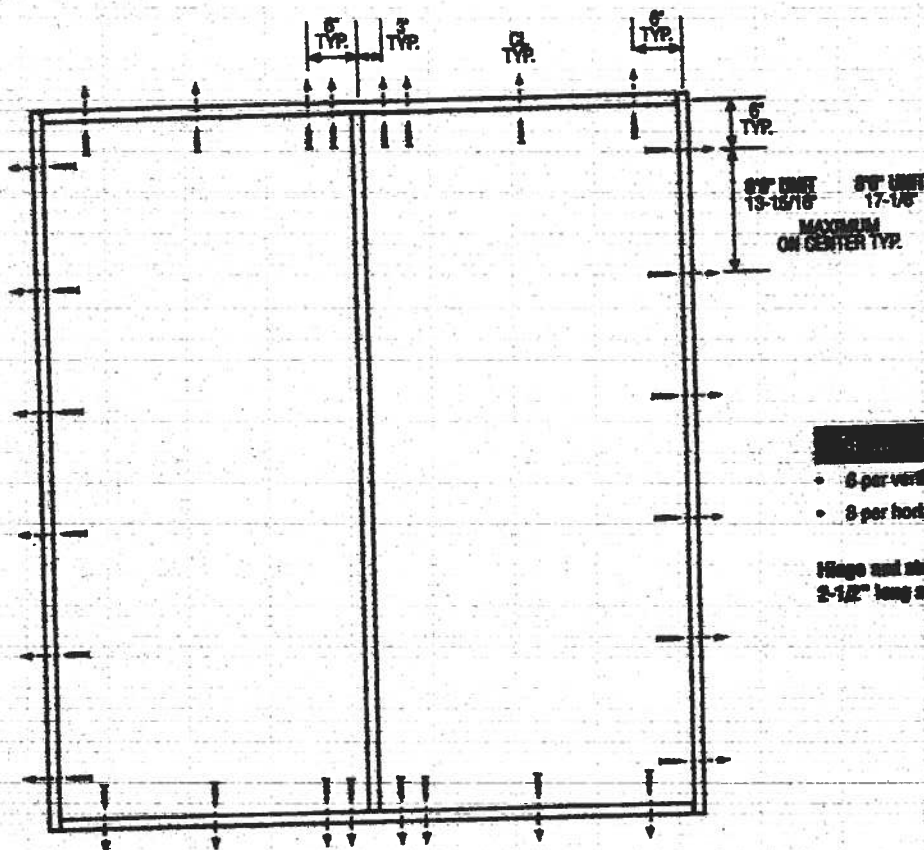
PREMIER *Masonite*
Premium Quality Doors

Exclusively from
Masonite
Masonite International Corporation

XX
Unit

WID-WL-43A0002-02

DOUBLE DOOR



- 6 per vertical framing member
- 8 per horizontal framing member

Slings and strapping plates require two 2-1/2" long screws per location.

Latching Hardware:

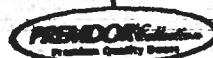
- Compliance requires that GRADE 2 or better (ANSI/HHMA A156.2) cylindrical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (weakest) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/APA & PIA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Data Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 28, 2002

Our engineering department of product improvement makes qualifications, design and product detail subject to change without notice.



Exclusively from

Masonite

Masonite International Corporation

I

**AAMA/NWDA 101/ASJ-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fm

TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Declazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.



Mark A. Hess, Technician

MAH:alb


1 APRIL 2002



II

Architectural Testing

AAMA/NWWDA 101/LS-2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethtown, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/LS-2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors*.

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 3/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced vinyl spacer system. The active sash was channel glazed utilizing a flexible vinyl window gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

170 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allen G. Ramm
1 APRIL 2002



III

Test Specimen Description: (Continued)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

Allen H. Reeves
1 APRIL 2002



IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft ²	0.3 cfm/ft ² max

Note #1: The tested specimen meets the performance levels specified in AAMA/NWDA 101/LS-2-97 for air infiltration.

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 25.9 psf (positive)	0.42"	0.26" max.
	@ 34.7 psf (negative)	0.43"	0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 38.9 psf (positive)	0.02"	0.18" max.
	@ 52.1 psf (negative)	0.02"	0.18" max.

Allen H. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglaizing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 388-97)		
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Optional Performance

4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 5.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"	0.26" max.
	@ 47.2 psf (negative)	0.46"	0.26" max.

*Exceeds L/175 for deflection, but passes all other test requirements.

Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)	
@ 67.5 psf (positive)	0.05"
@ 70.8 psf (negative)	0.05"

Allen N. Reeves
1 APRIL 2002



VI

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:



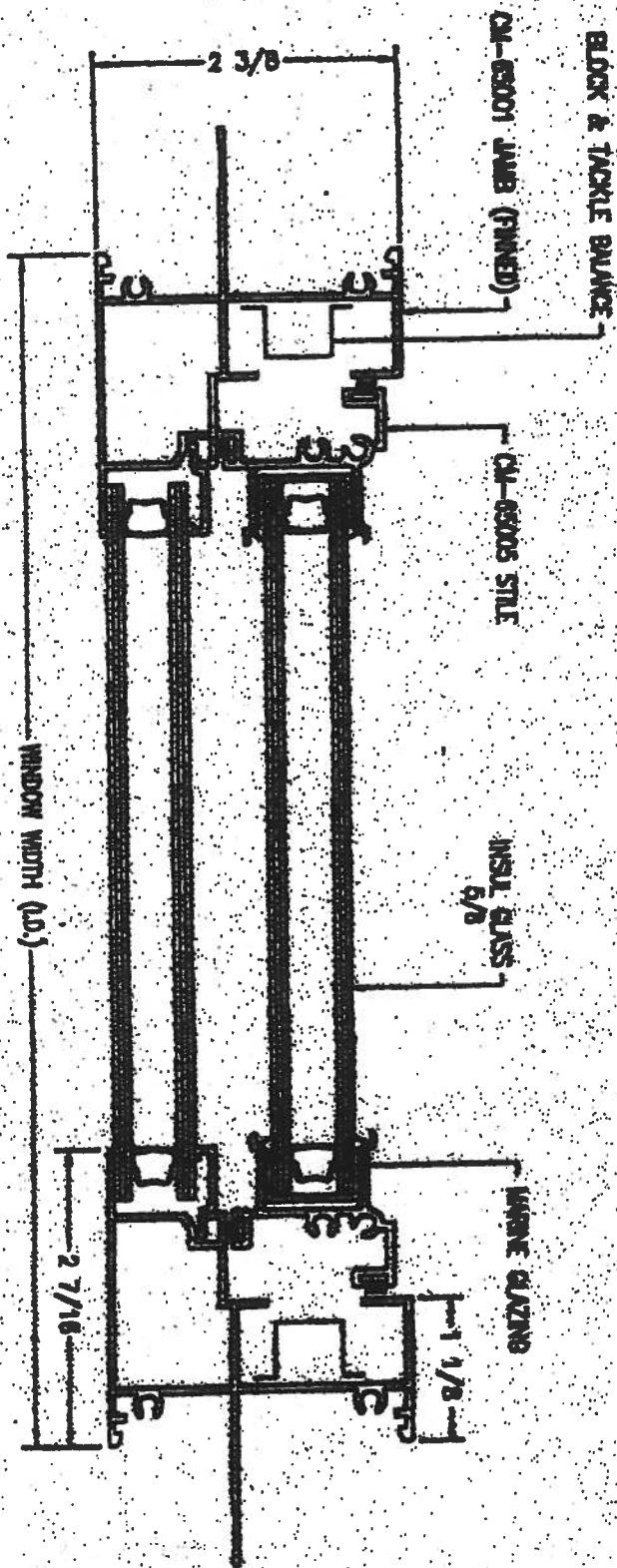
Mark A. Hess
Technician

MAH:nib
01-41134.01



Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002





MI HOME PRODUCTS	
650 SH FIN JAMB FRAME INSULATED	
GLASS HORIZONTAL CROSS SECTION	
DATE	4-5-02
BY	FWL
650-AS2	Rev B

650-AS2 B

650-A57 A



ME HOME PRODUCTS
850 WEST BURNET STREET • GIBTZ, PA • 7038-0370

TITLE	650 SH FIN MAIN FRAME VERTICAL CROSS SECTION
-------	---

4-7-92 FBI 65D-AS1

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[Term Glossary](#) [Online Help](#)**Licensee Details****Licensee Information**

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

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

LicenseLocation:

License Information

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

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

[View Related License Information](#)[View License Complaint](#)[Terms of Use](#) | [Privacy Statement](#)**L222236 Aaron Simque - Grand Ross**

JANUARY 22, 2007 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
1809 N. Dale Hwy, STE B, LUTZ, FL 33549

LATERAL TOE-NAIL DETAIL

ST-TOENAIL

MiTek Industries, Chesterfield, MO Page 1 of 1

NOTES:

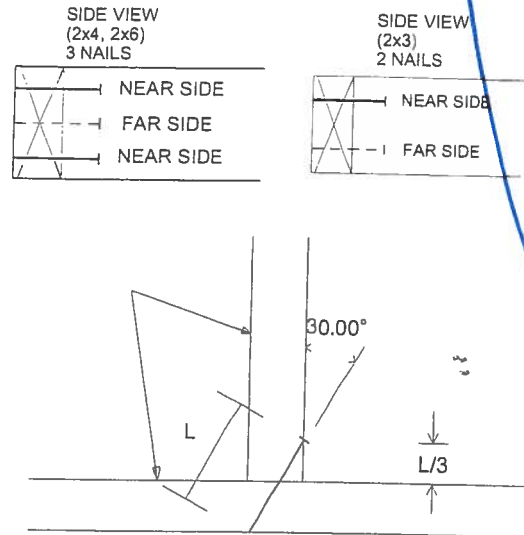
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF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

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

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

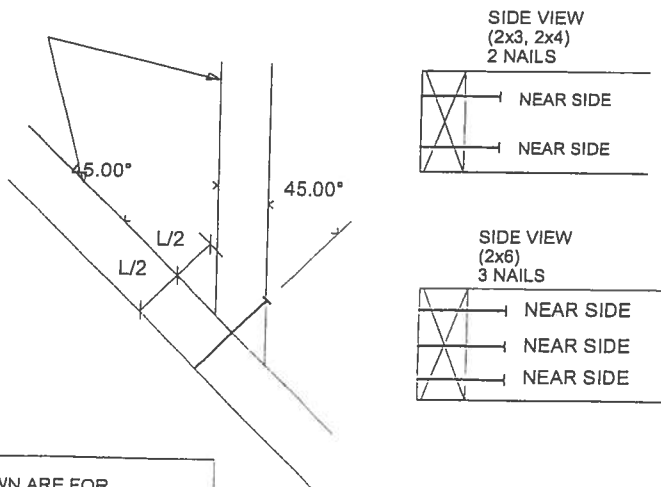
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

SQUARE CUT



45 DEGREE ANGLE BEVEL CUT

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



VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

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

JAN 22 2007

Job MASTER	Truss CJ3	Truss Type JACK	Qty 4	Ply 1	AARON SIMQUE - GRAND ROSS
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 M/Tek Industries, Inc. Mon Jan 22 13:03:37 2007 Page 1		

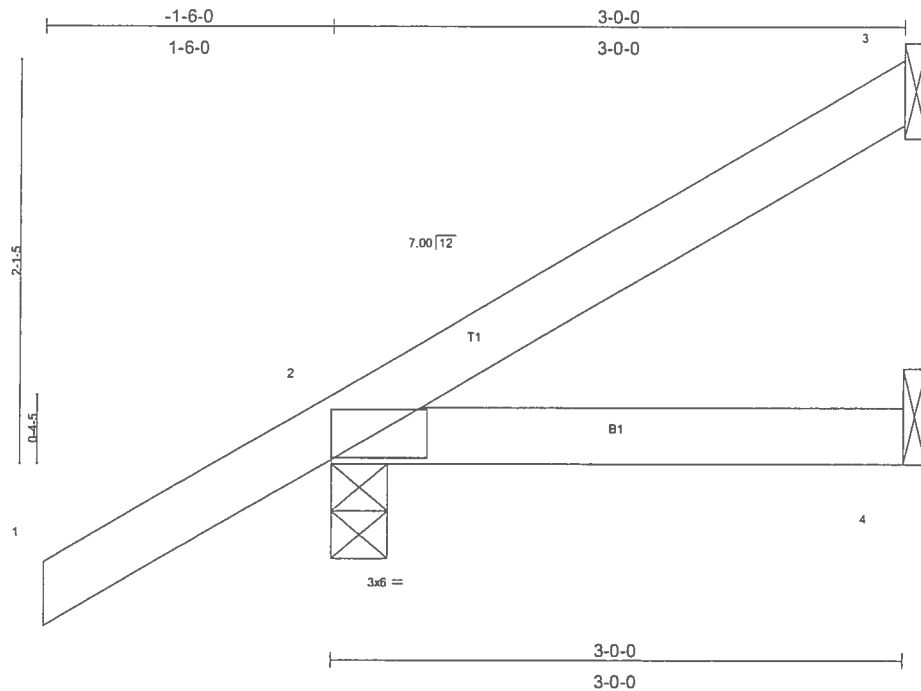


Plate Offsets (X,Y): [2-0-3-3,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.16	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: 12 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=49/Mechanical, 2=232/0-3-8, 4=42/Mechanical
 Max Horz 2=135(load case 5)
 Max Uplift 3=43(load case 5), 2=181(load case 5), 4=33(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/40, 2-3=-54/18
 BOT CHORD 2-4=0/0

JOINT STRESS INDEX
 2 = 0.10

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 3, 181 lb uplift at joint 2 and 33 lb uplift at joint 4.

LOAD CASE(S) Standard

Job MASTER	Truss CJ5	Truss Type JACK	Qty 4	Ply 1	AARON SIMQUE - GRAND ROSS
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 Mitek Industries, Inc. Mon Jan 22 13:03:38 2007 Page 1		

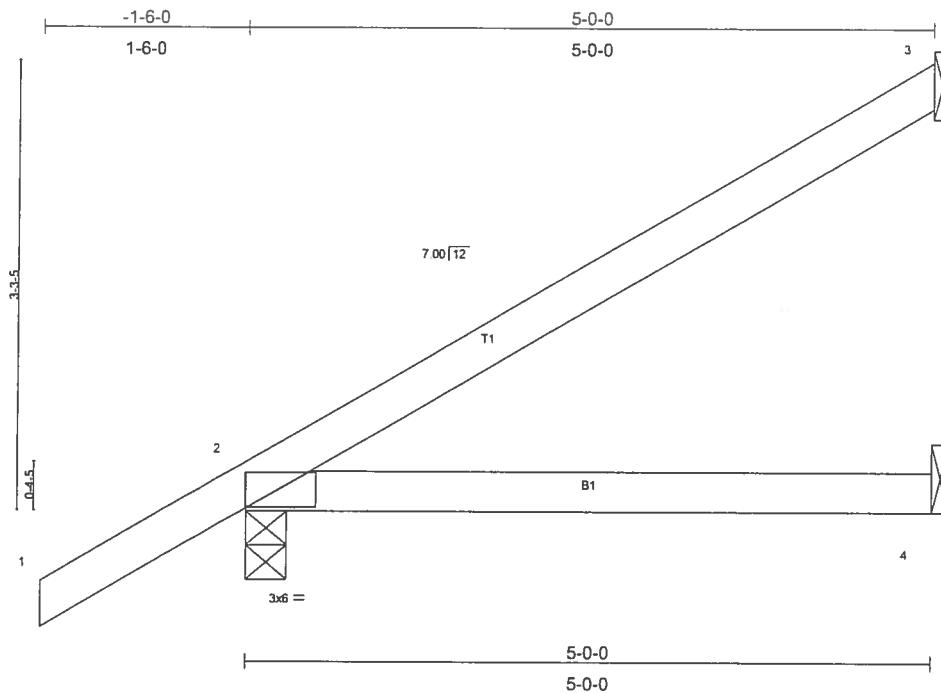


Plate Offsets (X,Y): [2-0-3-3-0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	0.09	2-4	>663	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.24	Vert(TL)	0.07	2-4	>774	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 19 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=114/Mechanical, 2=305/0-3-8, 4=72/Mechanical
 Max Horz 2=189(load case 5)
 Max Uplift 3=-111(load case 5), 2=-208(load case 5), 4=-56(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/40, 2-3=-85/46
 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 111 lb uplift at joint 3, 208 lb uplift at joint 2 and 56 lb uplift at joint 4.

LOAD CASE(S) Standard

Job MASTER	Truss EJ7	Truss Type JACK	Qty 9	Ply 1	AARON SIMQUE - GRAND ROSS
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 Mittek Industries, Inc. Mon Jan 22 13:03:39 2007 Page 1		

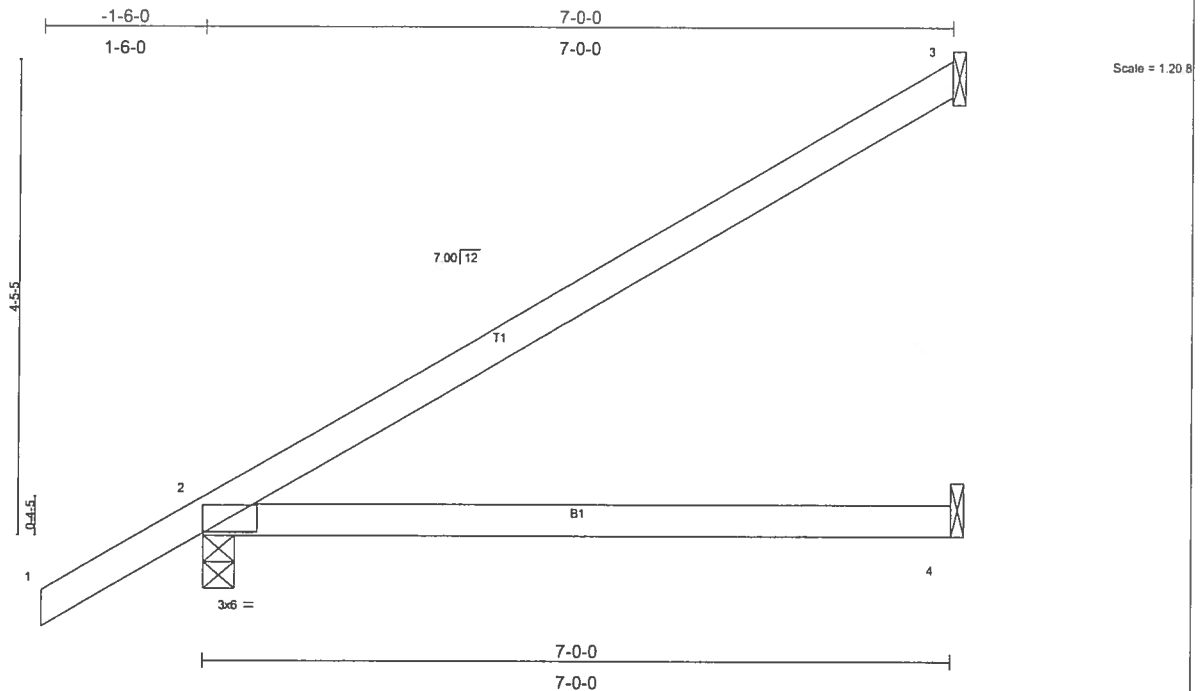


Plate Offsets (X,Y): [2-0-3-3,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.46	Vert(LL)	0.31	2-4	>259	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.44	Vert(TL)	0.26	2-4	>312	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: 25 lb										

LUMBER

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

BRACING

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

REACTIONS (lb/size) 3=165/Mechanical, 2=385/0-3-8, 4=109/Mechanical

Max Horz 2=242(load case 5)

Max Uplift 3=-161(load case 5), 2=-243(load case 5), 4=-74(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-112/66

BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.64

NOTES

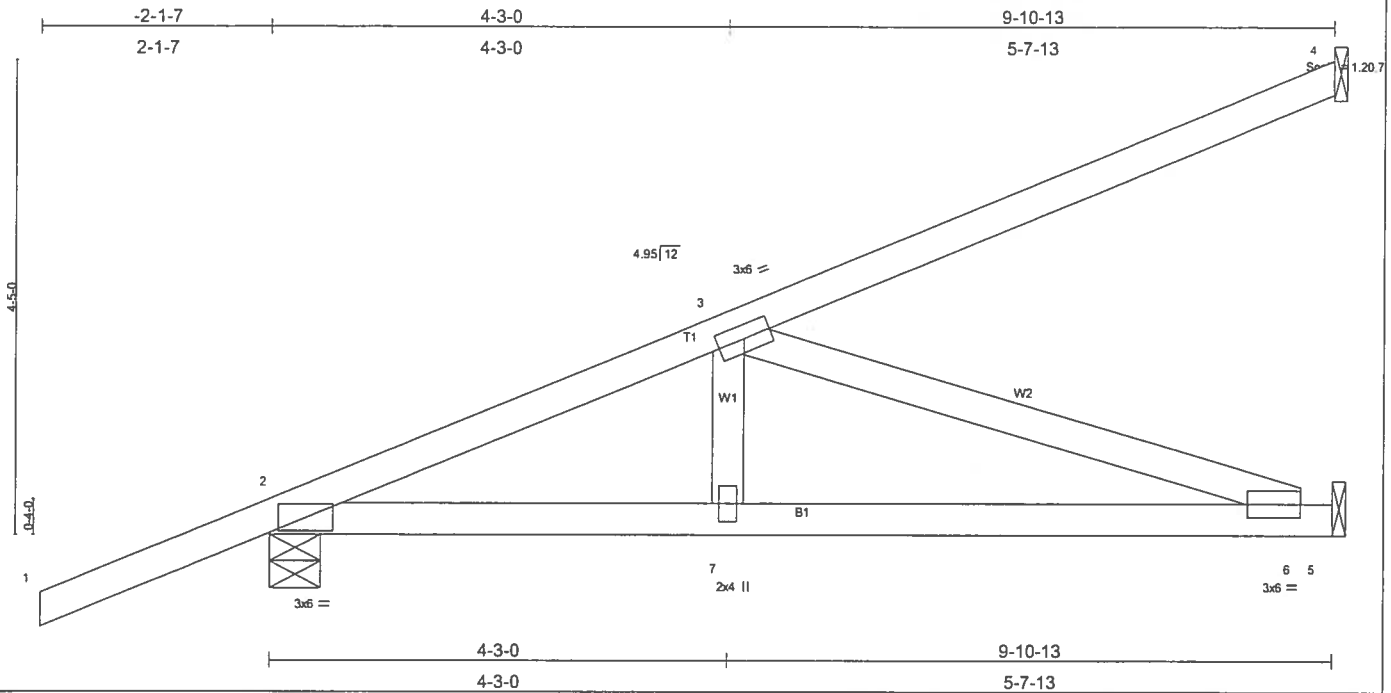
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C interior(1) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions 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 161 lb uplift at joint 3, 243 lb uplift at joint 2 and 74 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - GRAND ROSS
MASTER	HJ9	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:03:41 2007 Page 1



LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	Vert(LL)	-0.09	6-7	>999	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.55	Vert(TL)	-0.16	6-7	>728		
BCLL 10.0	Lumber Increase 1.25	WB 0.47	Horz(TL)	0.01	5	n/a		
BCDL 5.0	Rep Stress Incr NO	(Matrix)						
	Code FBC2004/TP12002							
							Weight: 45 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.

REACTIONS (lb/size) 4=266/Mechanical, 2=486/0-5-11, 5=388/Mechanical
 Max Horz 2=297(load case 4)
 Max Uplift 4=-247(load case 4), 2=-329(load case 4), 5=-205(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/43, 2-3=-824/328, 3-4=-126/74
 BOT CHORD 2-7=-540/751, 6-7=-540/751, 5-6=0/0
 WEBS 3-7=-91/199, 3-6=-791/569

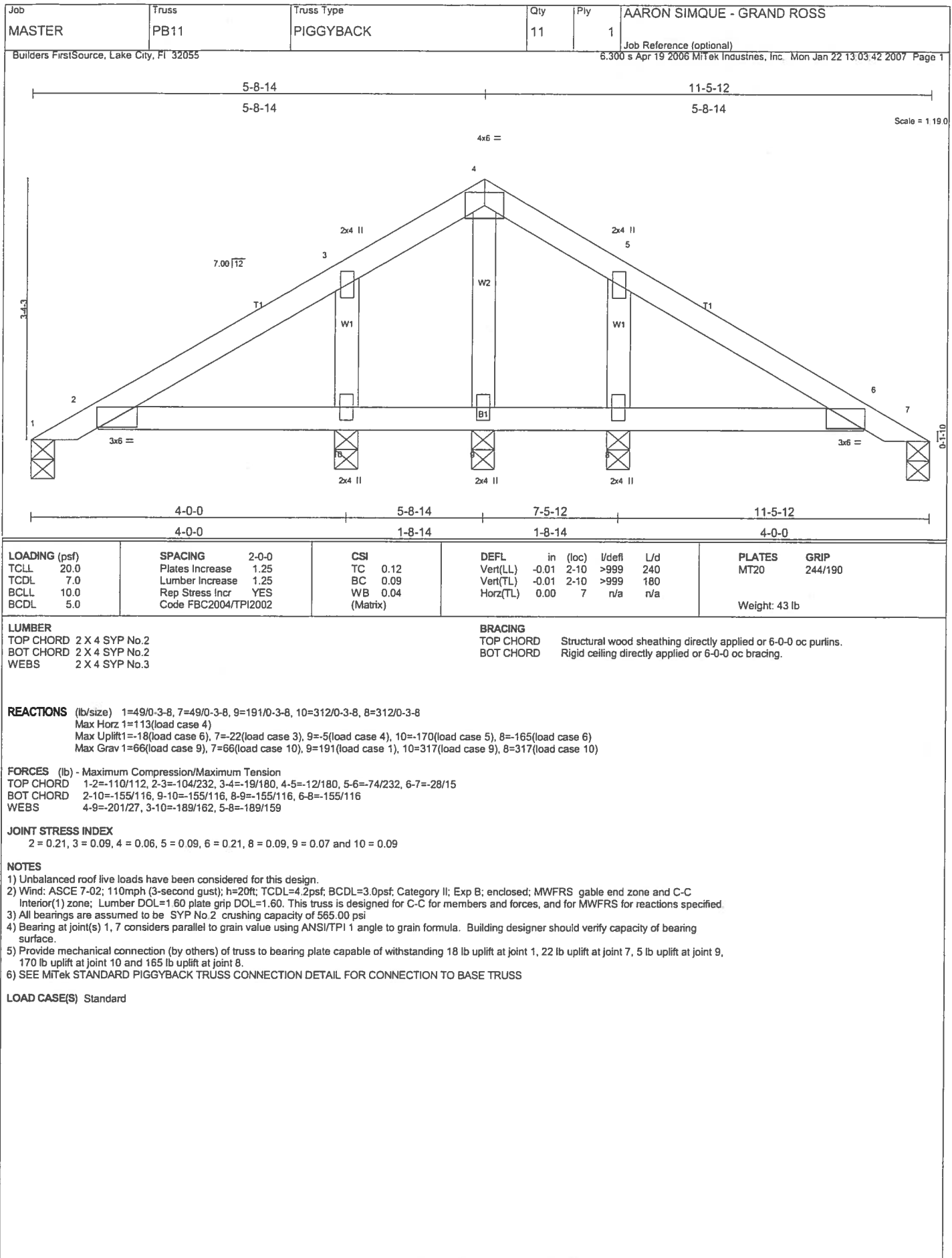
JOINT STRESS INDEX
 2 = 0.70, 3 = 0.24, 6 = 0.22 and 7 = 0.15

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 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 247 lb uplift at joint 4, 329 lb uplift at joint 2 and 205 lb uplift at joint 5.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

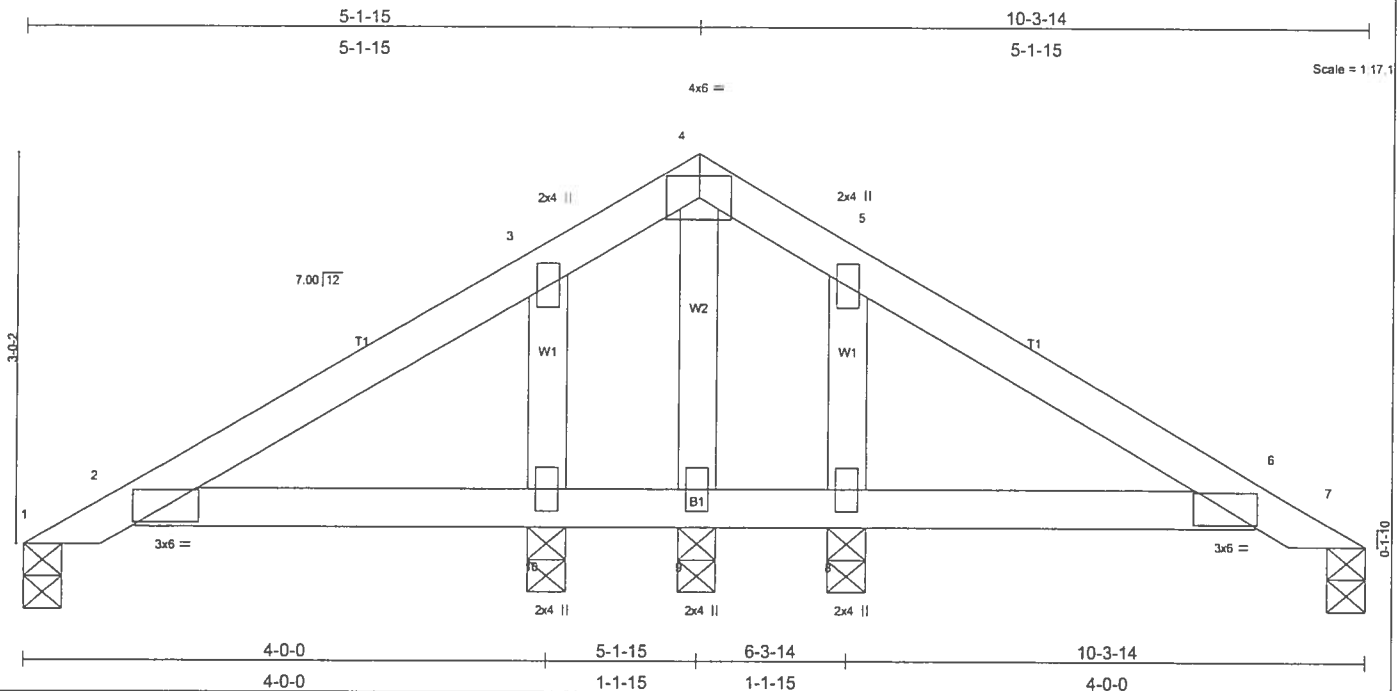
- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54
 Trapezoidal Loads (plf)
 Vert: 2=-3(F=25, B=25)-to-4=-134(F=40, B=40), 2=-0(F=15, B=15)-to-5=-74(F=-22, B=-22)



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

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:03:43 2007 Page 1



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.12	Vert(LL)	-0.01	2-10	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.09	Vert(TL)	-0.01	2-10	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.04	Horz(TL)	0.00	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 39 lb	

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

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

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

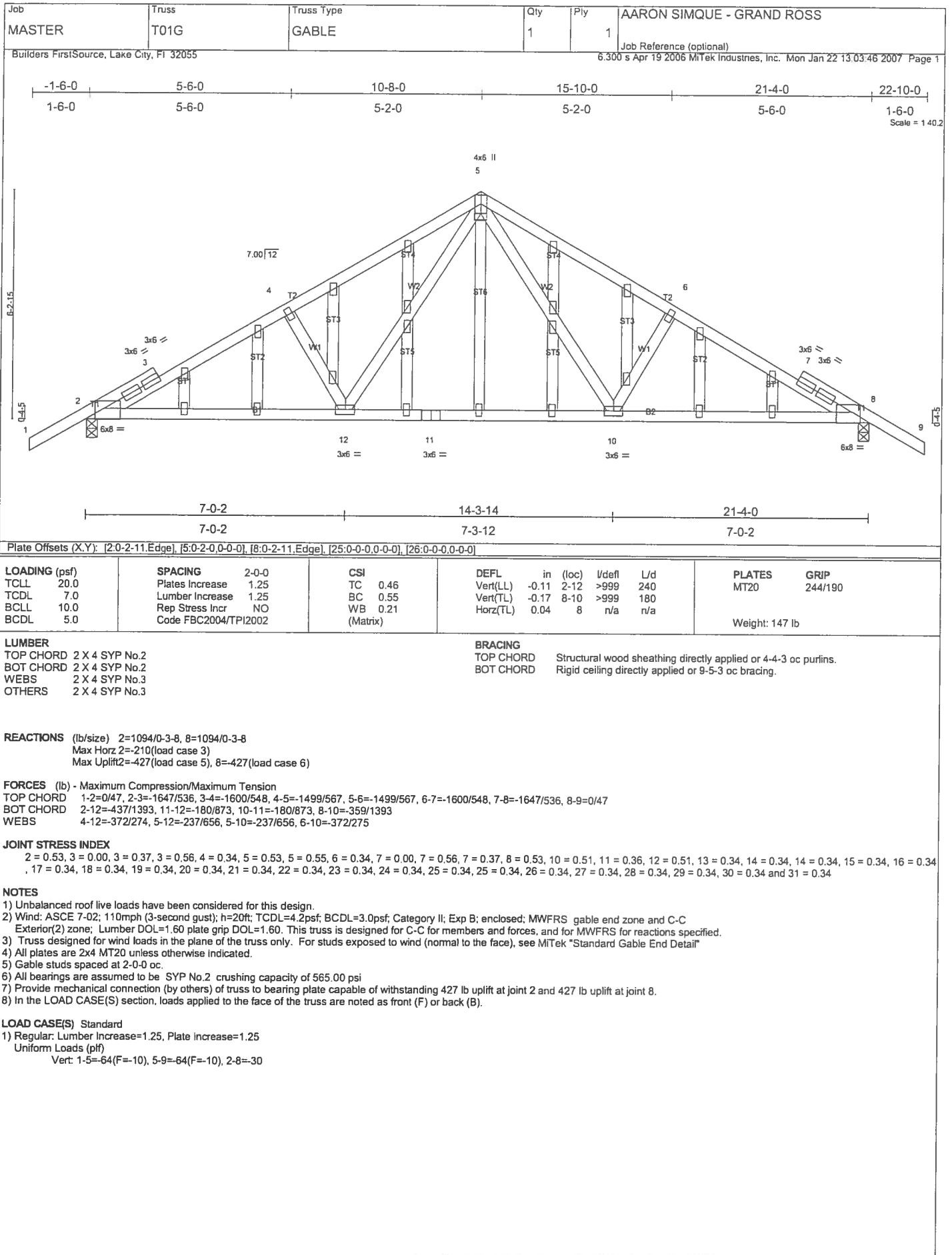
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-97/100, 2-3=-105/249, 3-4=-10/181, 4-5=-15/181, 5-6=-81/249, 6-7=-26/16
 BOT CHORD 2-10=-170/119, 9-10=-170/119, 8-9=-170/119, 6-8=-170/119
 WEBS 4-9=-134/5, 3-10=-197/163, 5-8=-197/159

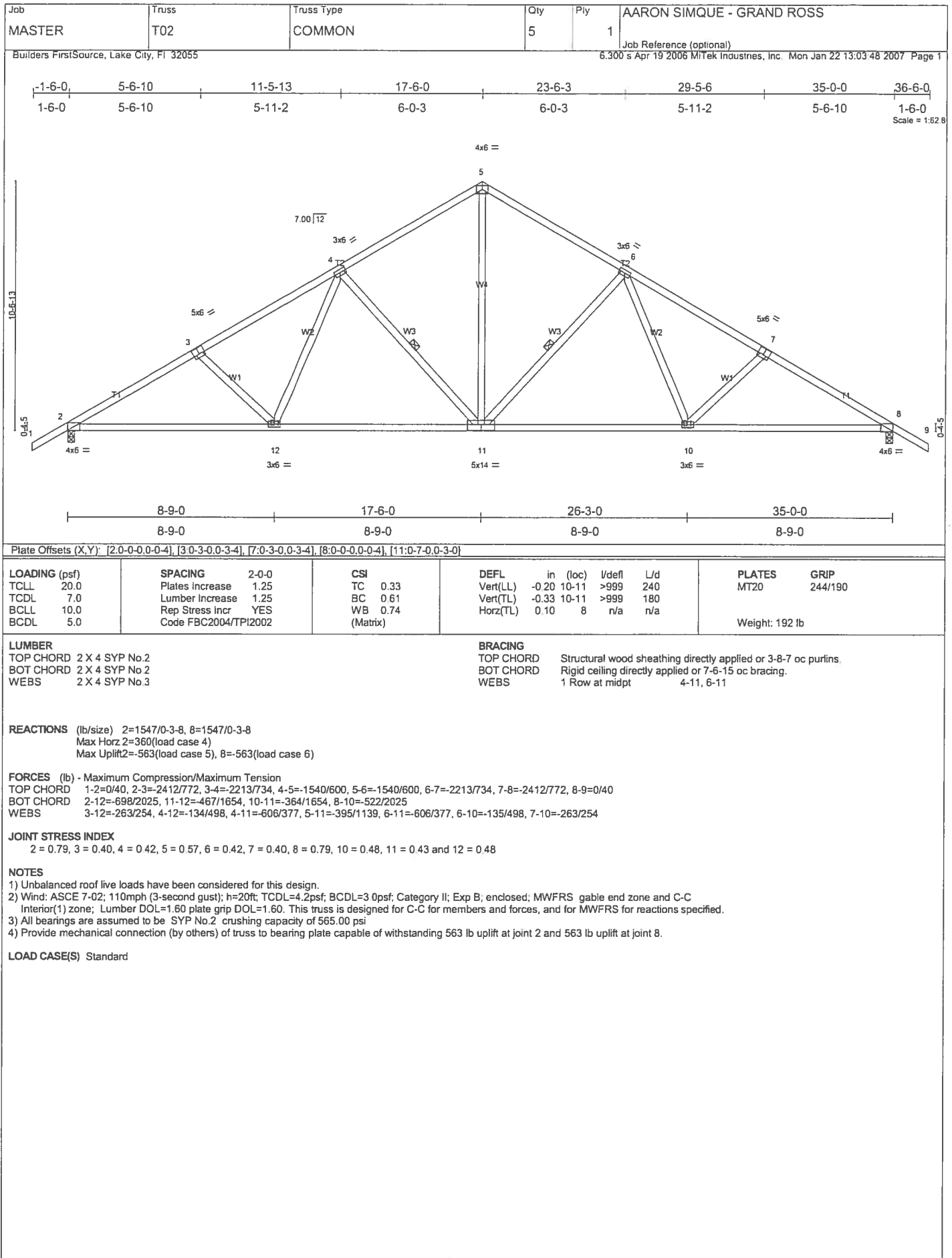
JOINT STRESS INDEX
 2 = 0.20, 3 = 0.09, 4 = 0.10, 5 = 0.09, 6 = 0.20, 8 = 0.09, 9 = 0.05 and 10 = 0.09

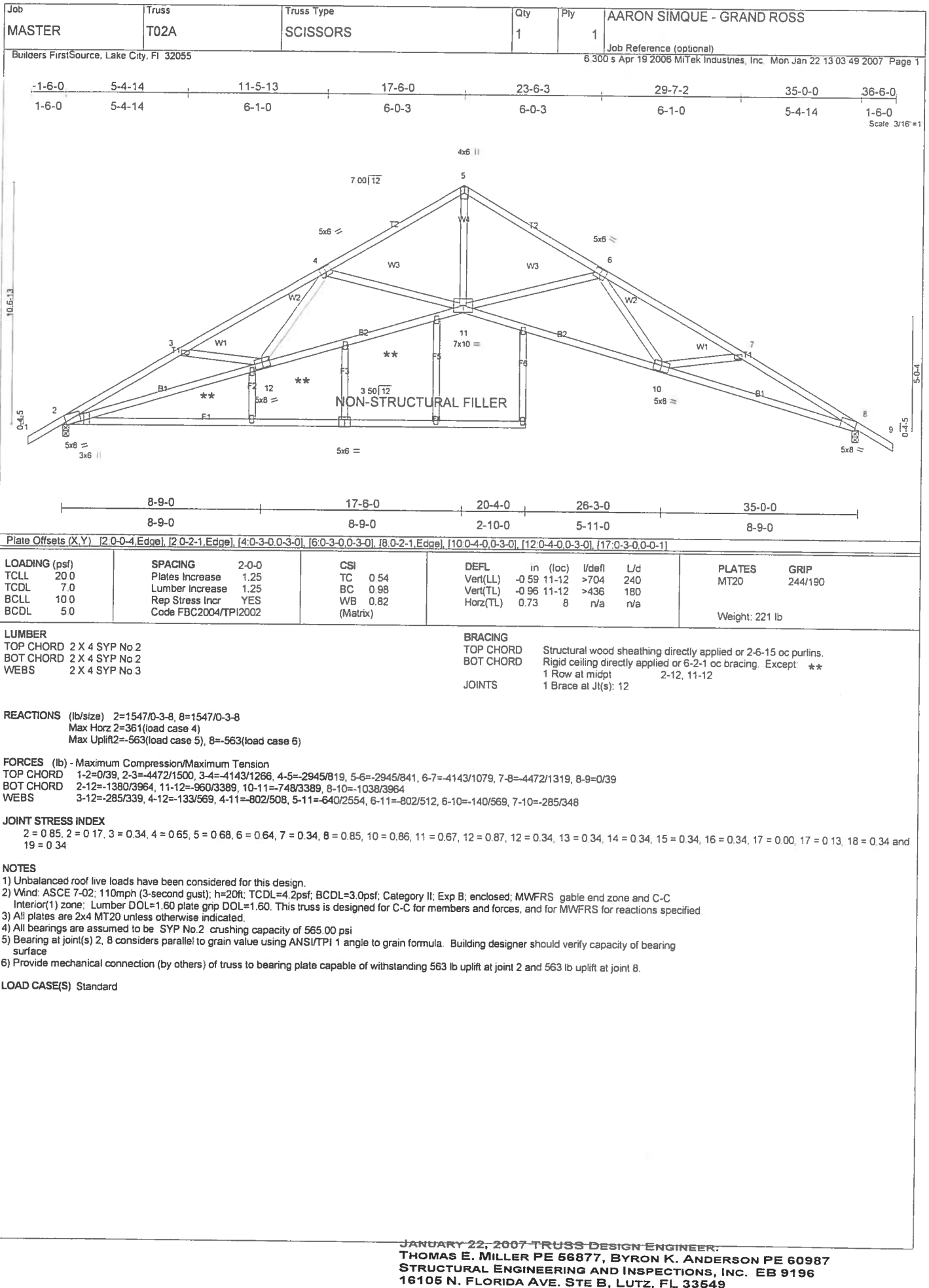
NOTES

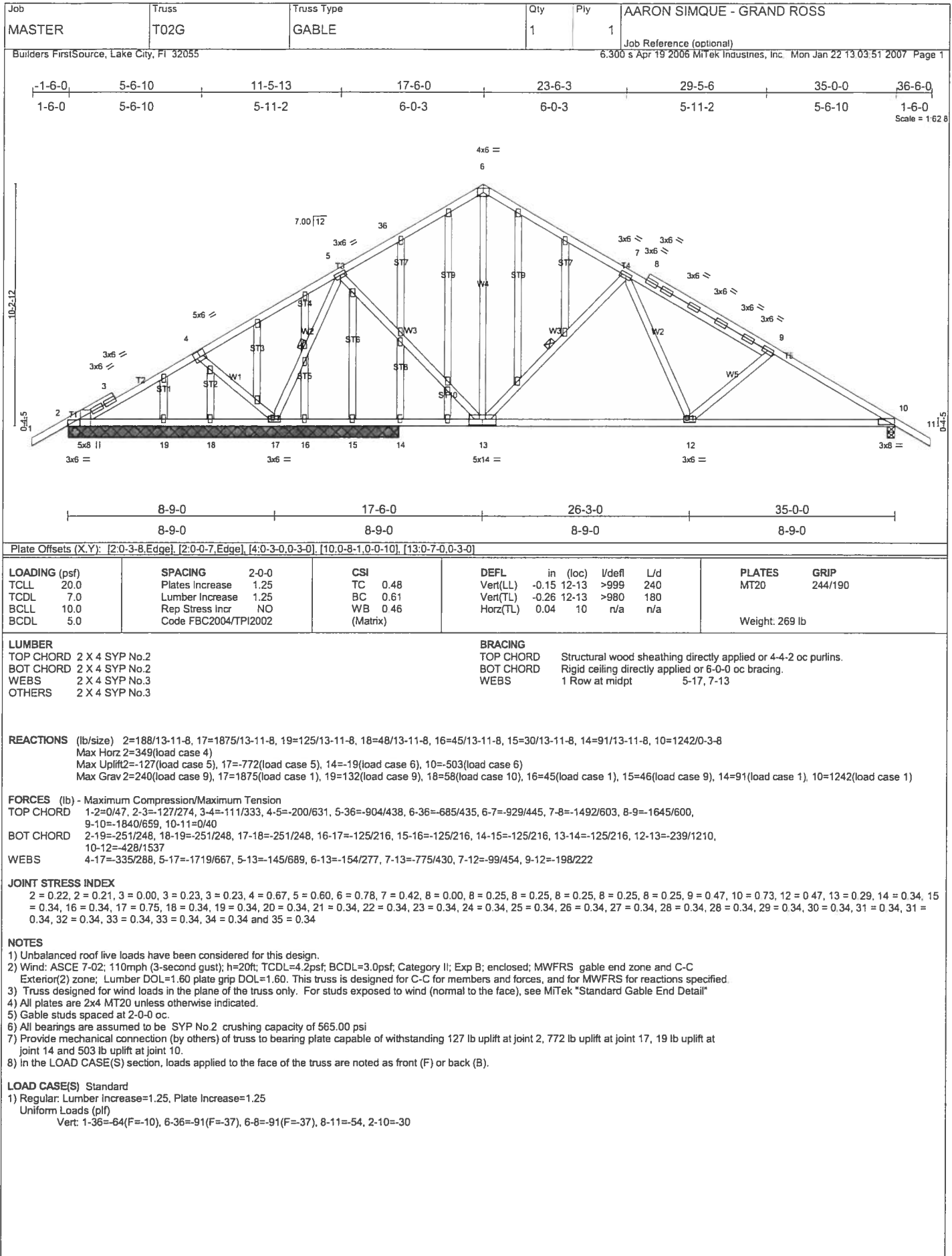
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 23 lb uplift at joint 7, 1 lb uplift at joint 9, 178 lb uplift at joint 10 and 171 lb uplift at joint 8.
- 6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

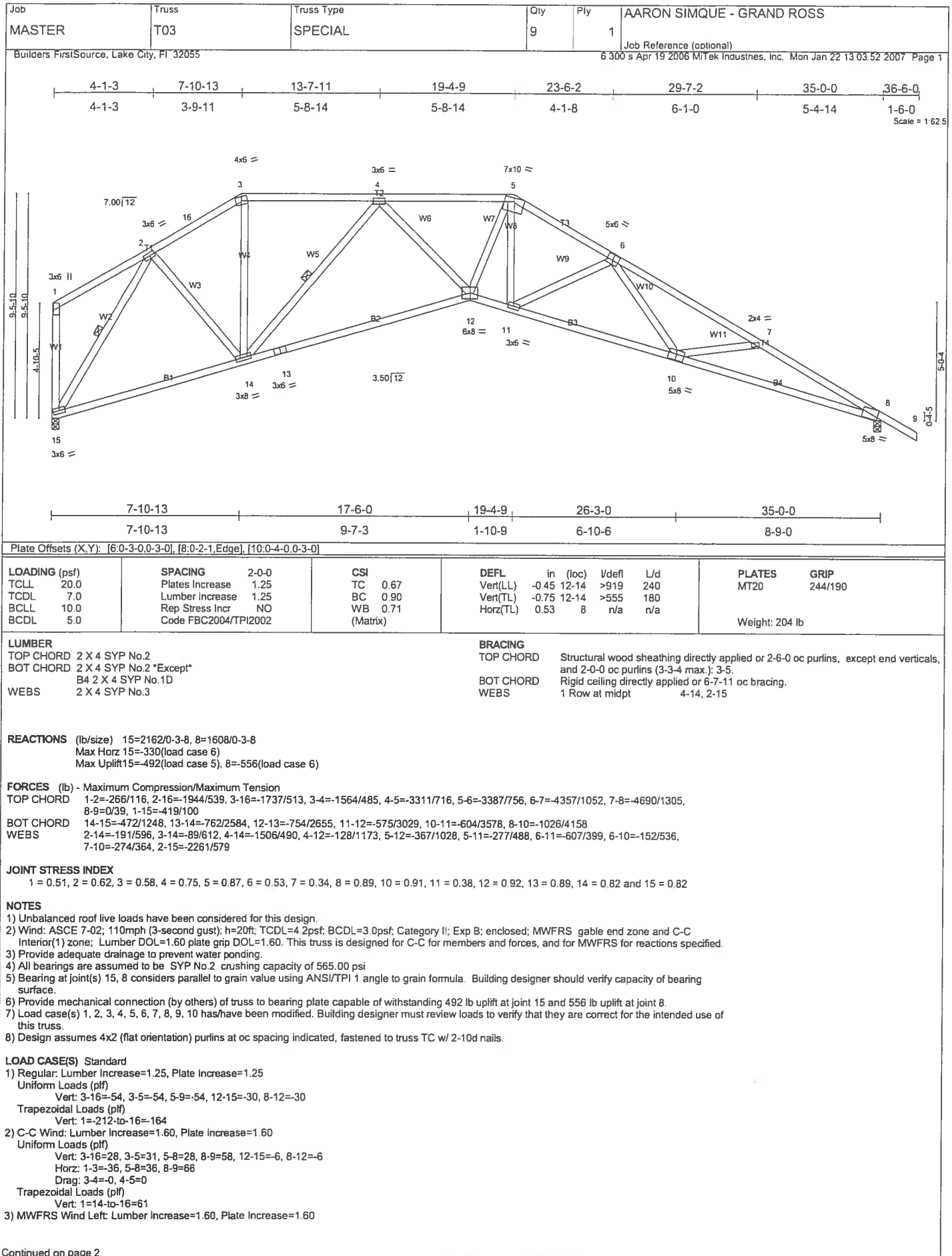
LOAD CASE(S) Standard



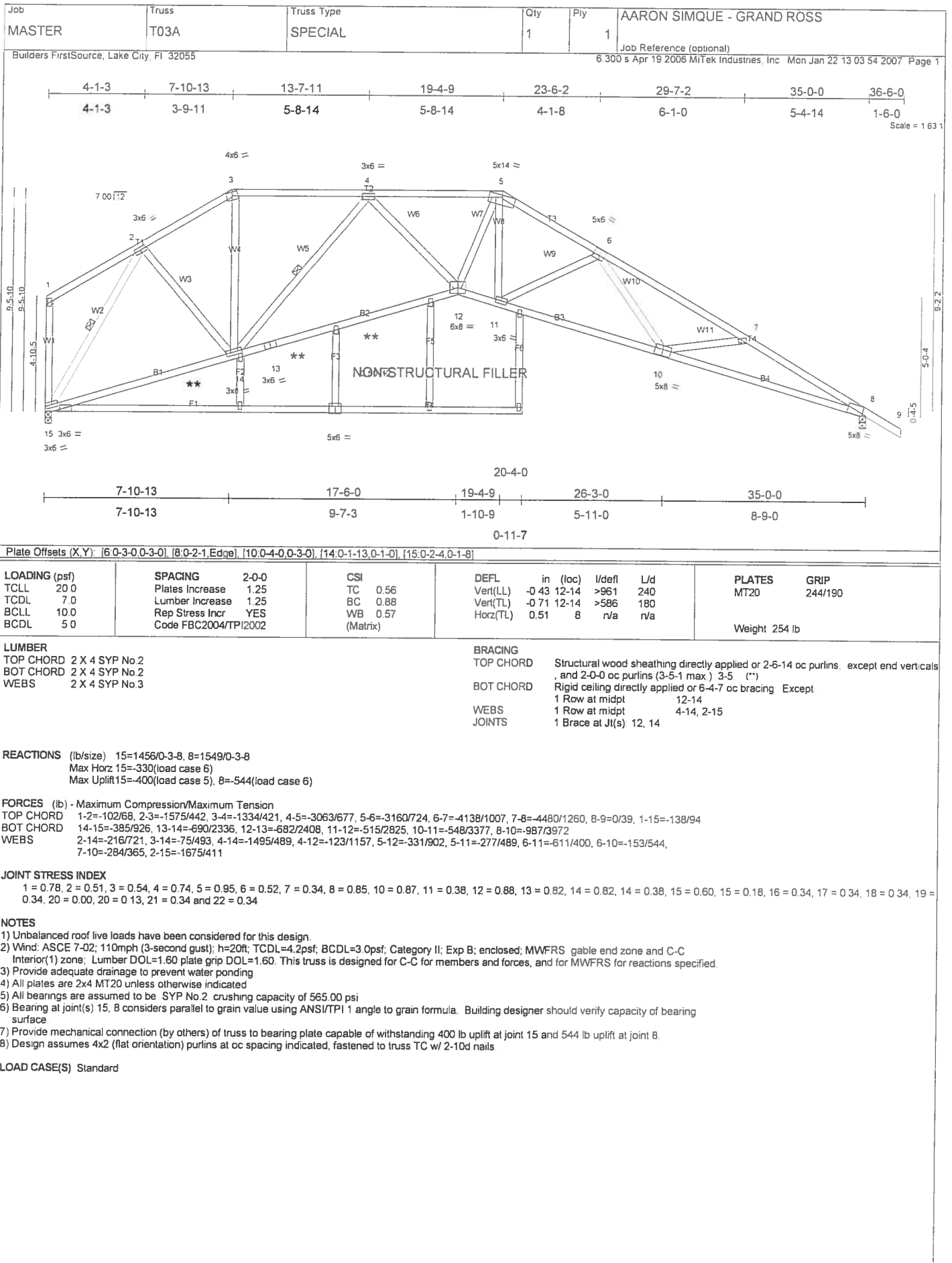


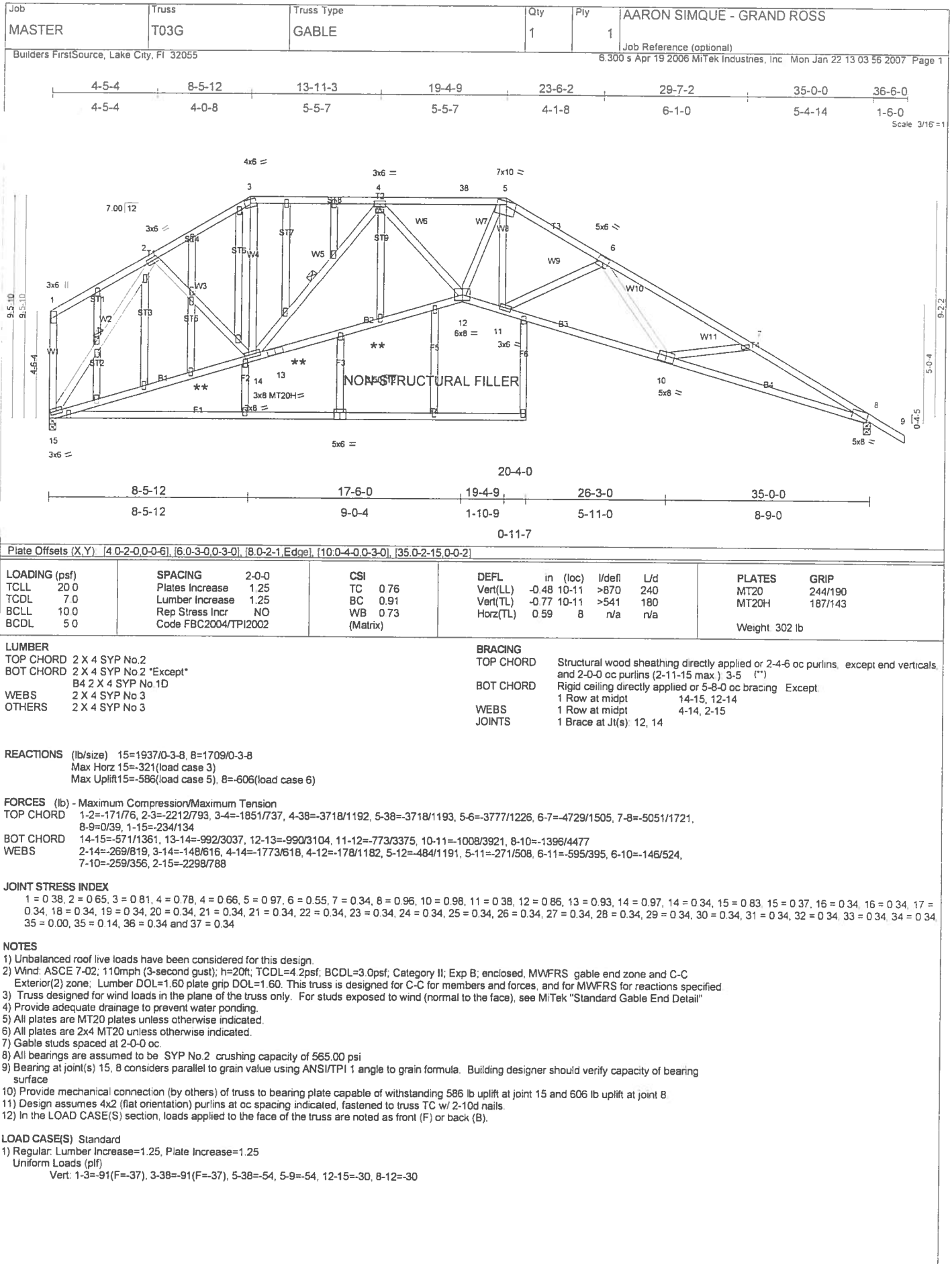


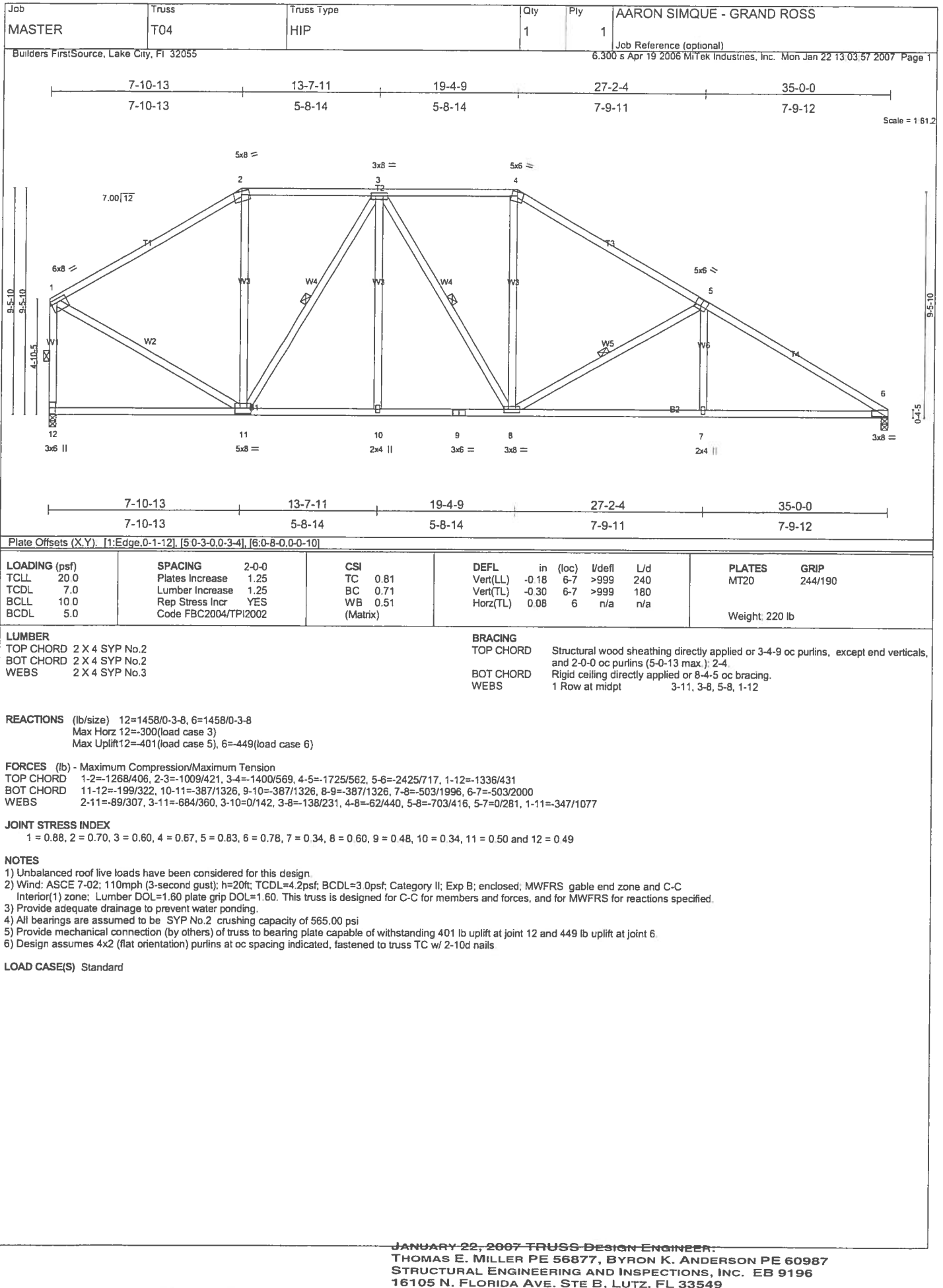


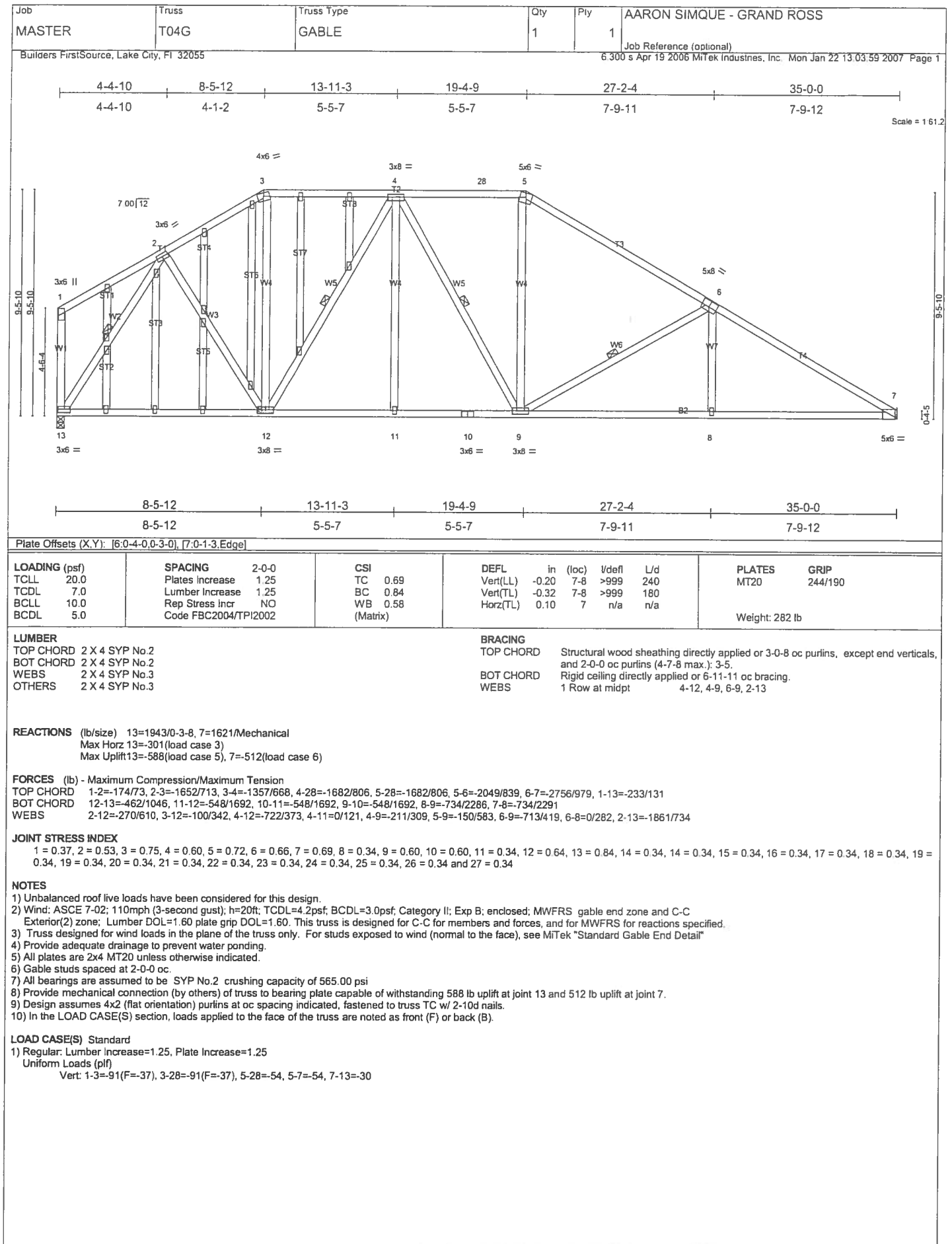


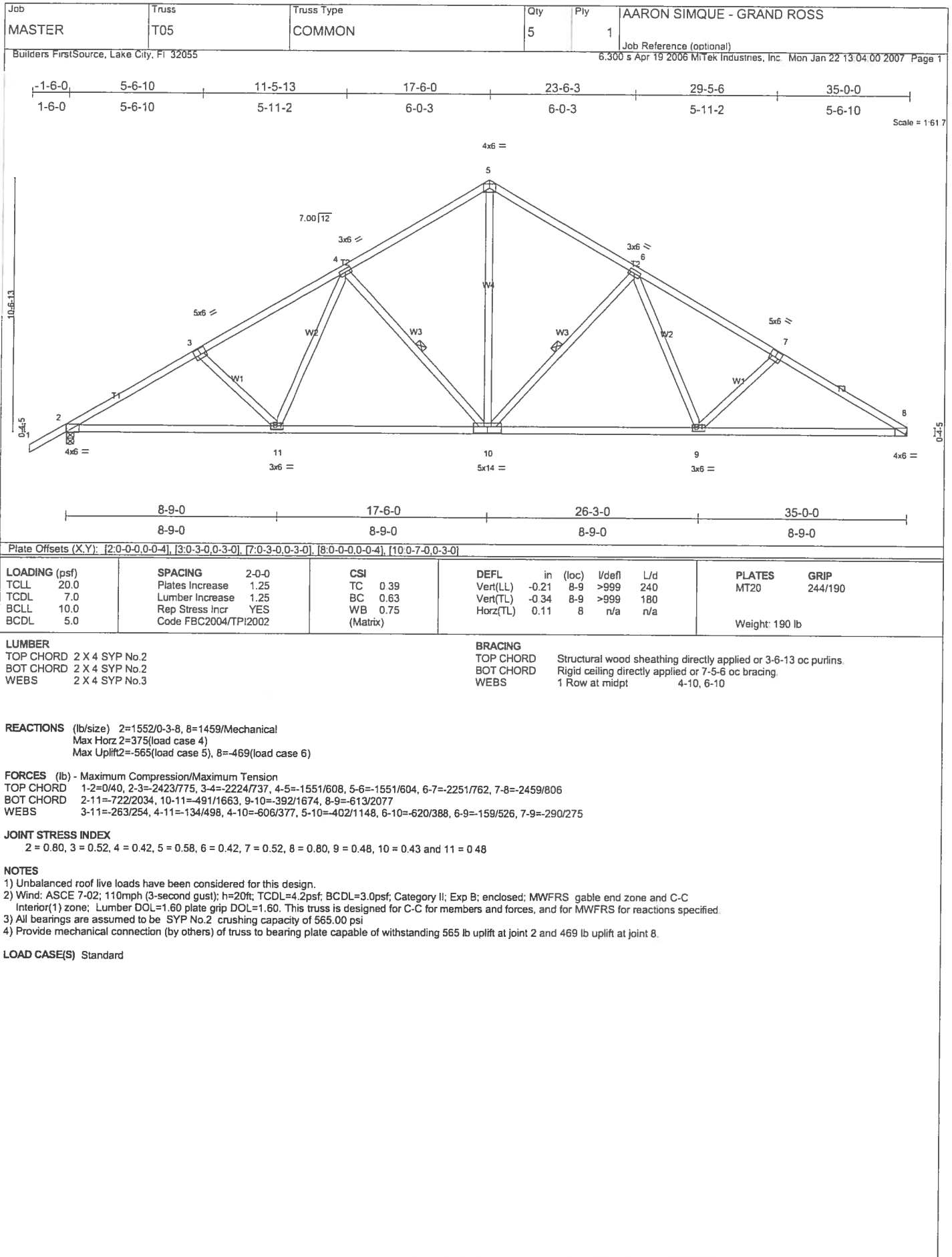
Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - GRAND ROSS
MASTER	T03	SPECIAL	9	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:03:52 2007 Page 2		
LOAD CASE(S) Standard					
Uniform Loads (plf)					
Vert: 3-16=-12, 3-5=46, 5-8=22,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

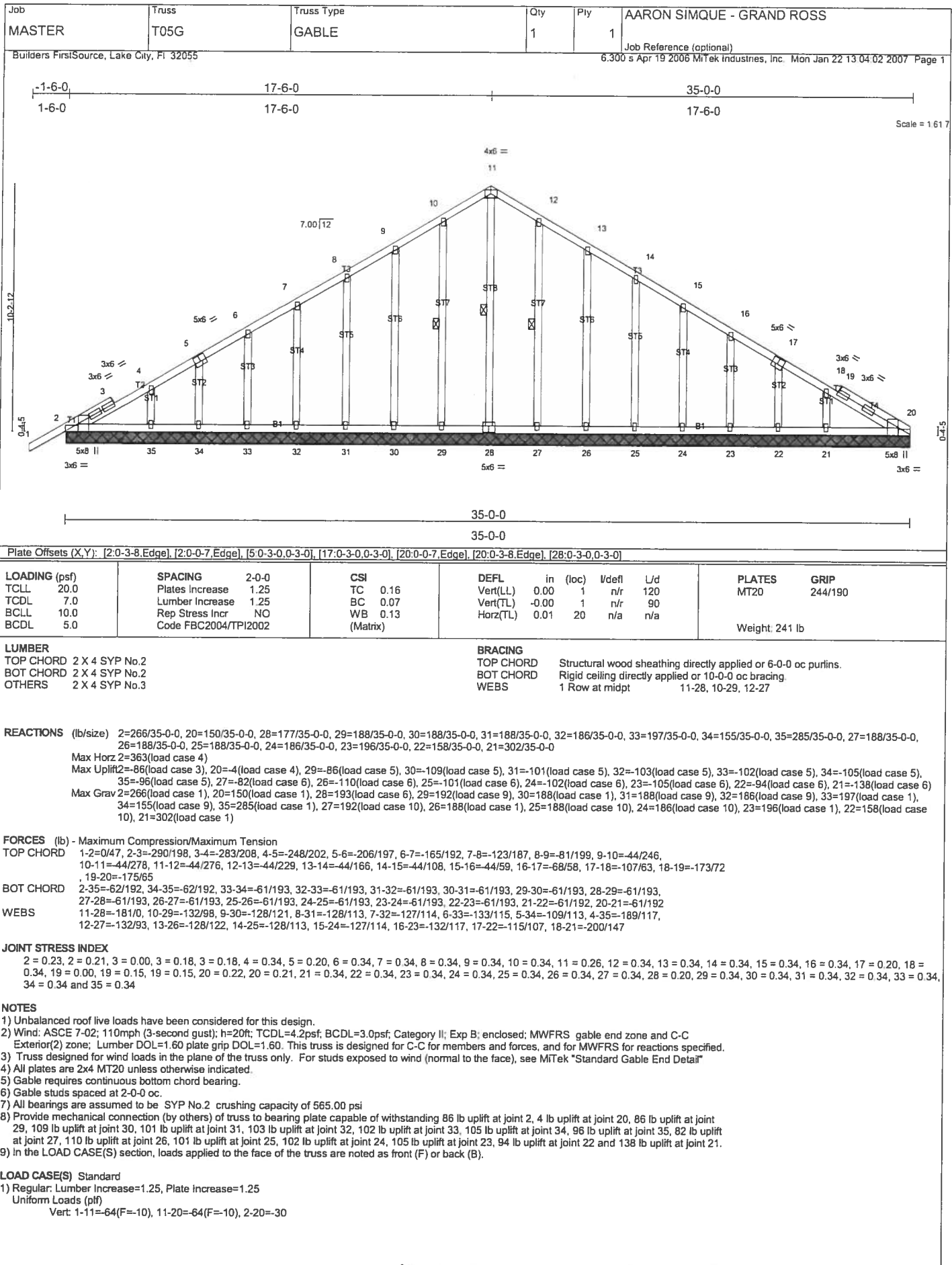


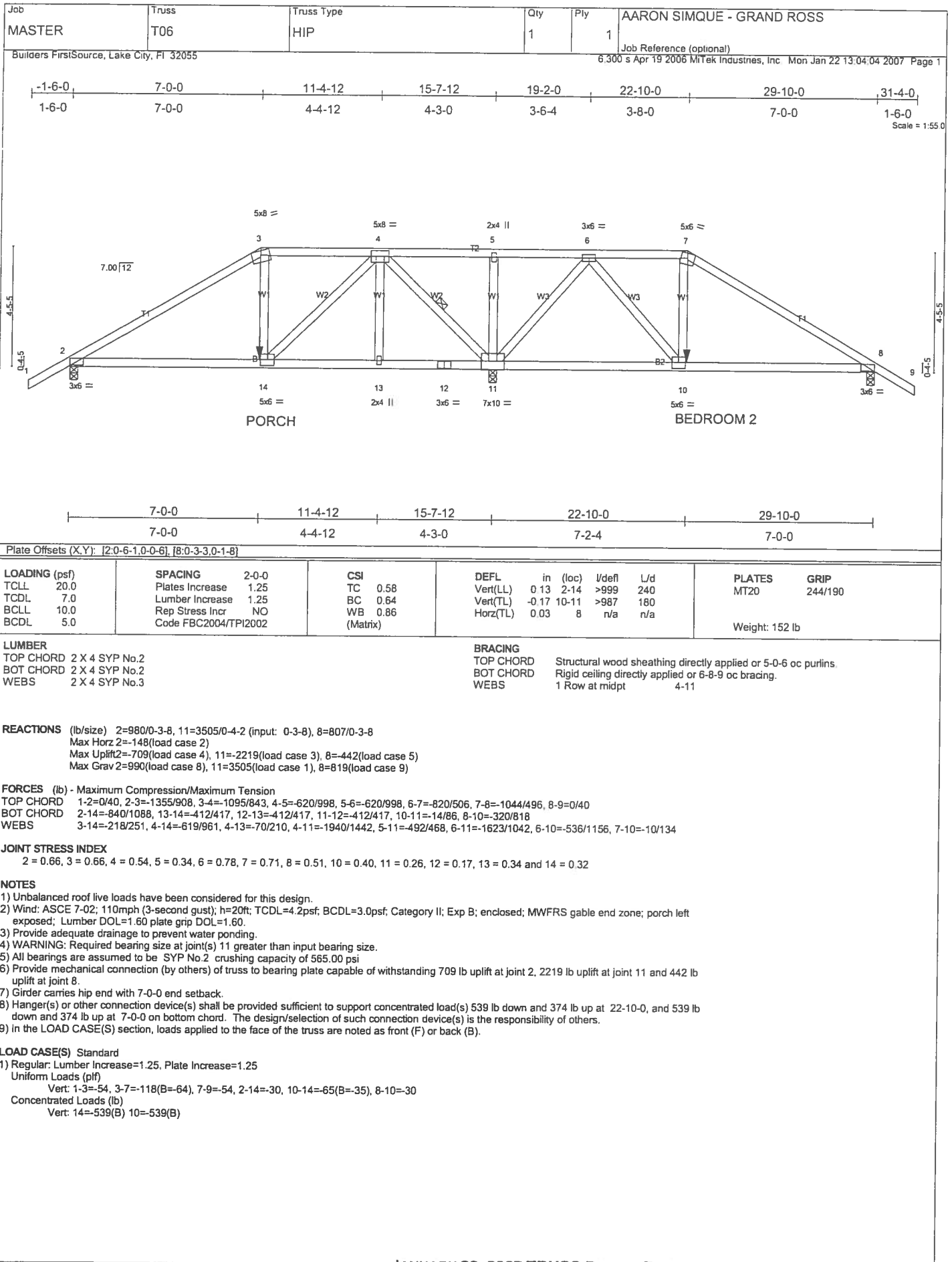


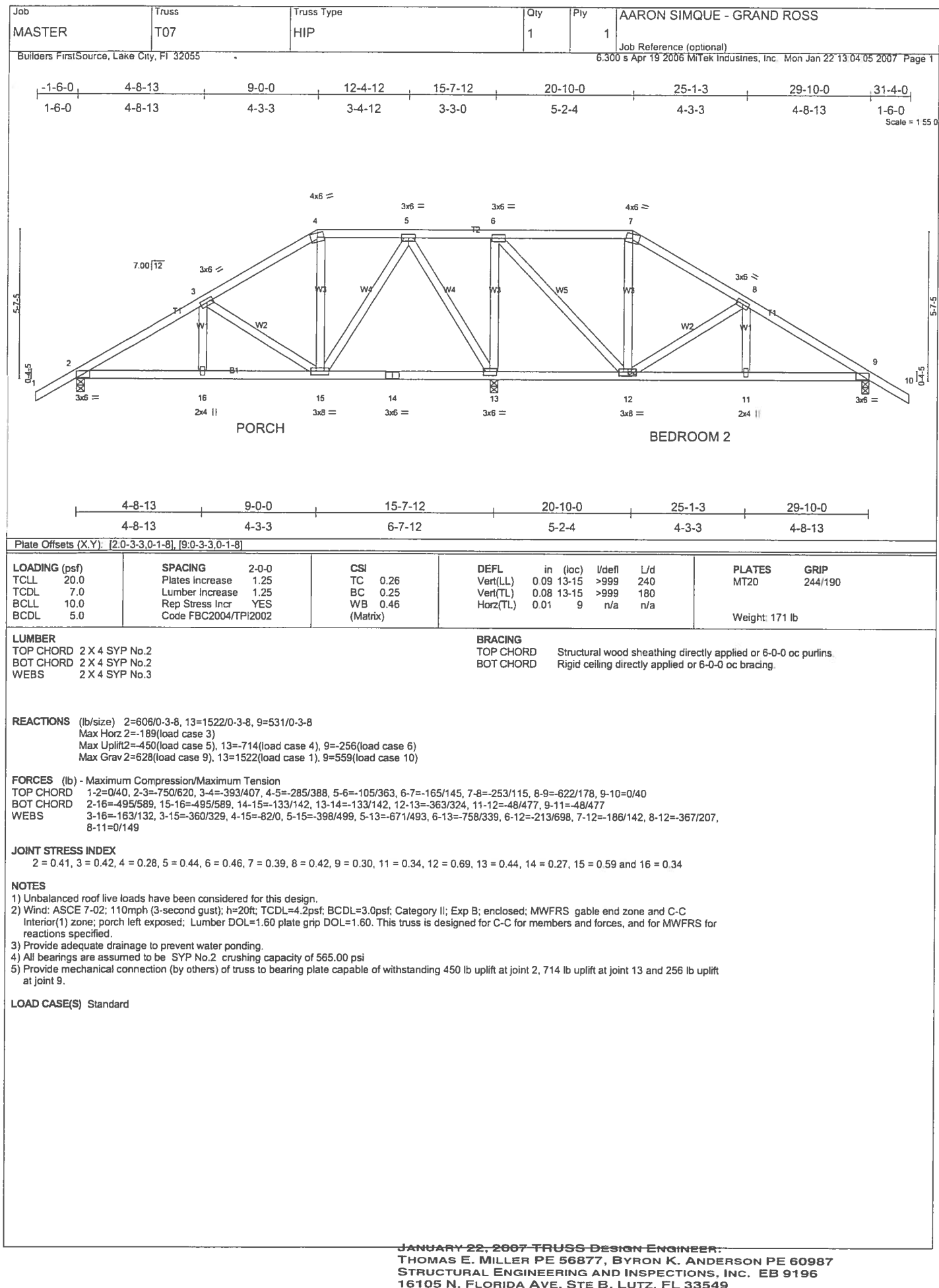


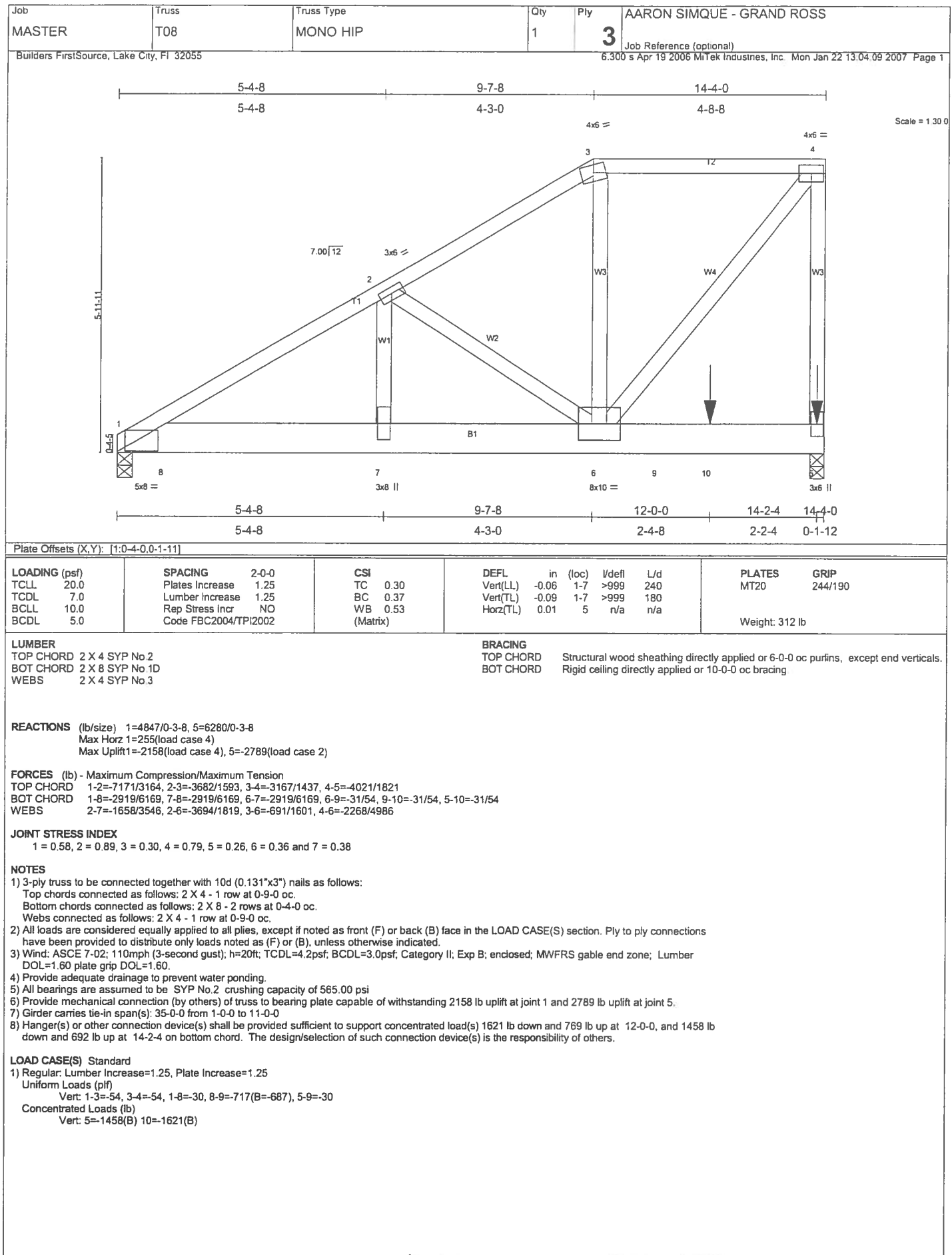












Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - GRAND ROSS
MASTER	T09	COMMON	10	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055					
6300 s Apr 19 2006 Mitek Industries, Inc. Mon Jan 22 13:04:11 2007 Page 1					

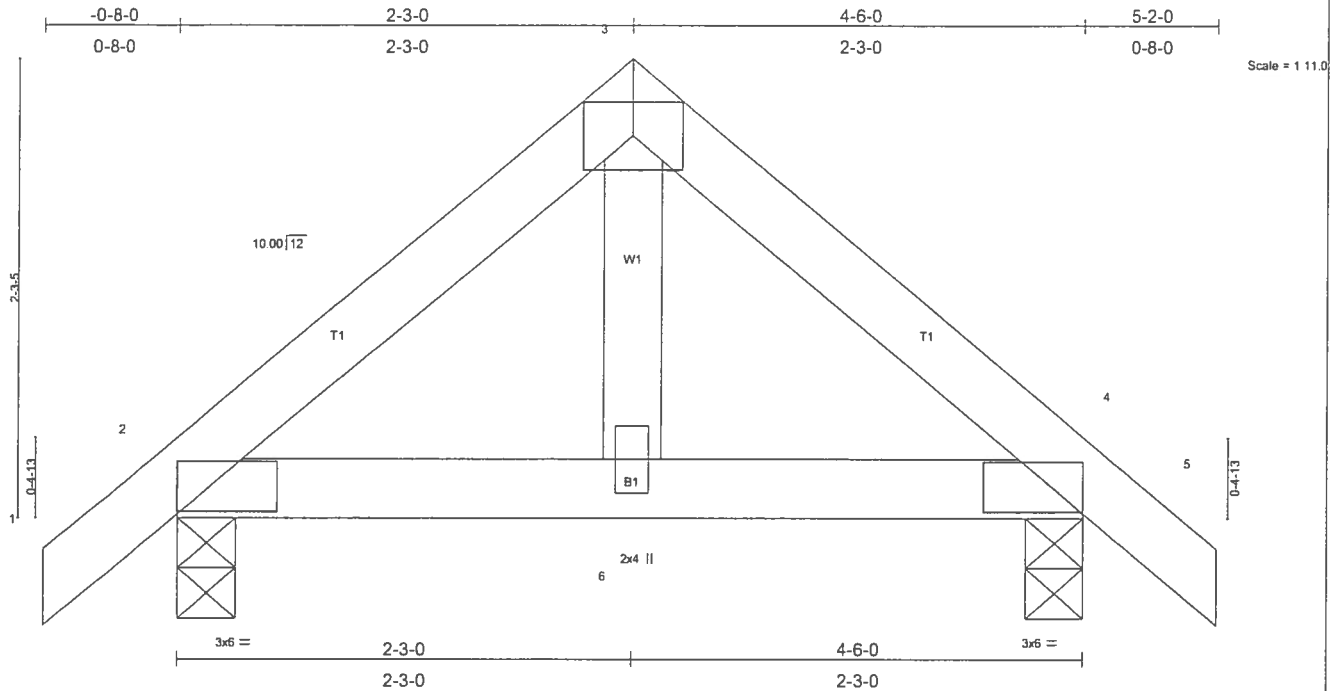


Plate Offsets (X,Y): [2:0-4-1.0-1-8], [4:0-4-1.0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.05	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.04	Vert(TL)	-0.00	6	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.02	Horz(TL)	0.00	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 21 lb

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

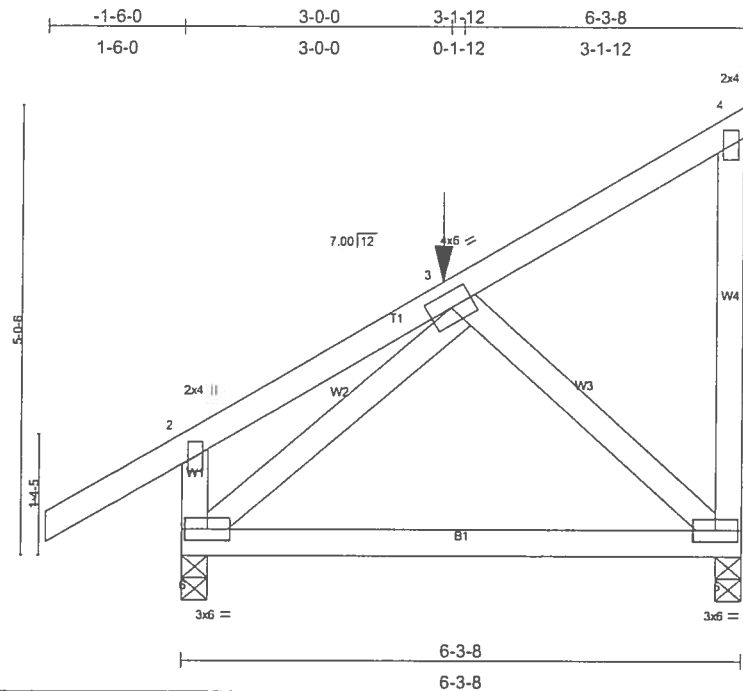
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/23, 2-3=-171/41, 3-4=-171/40, 4-5=0/23
 BOT CHORD 2-6=-6/93, 4-6=-6/93
 WEBS 3-6=0/75

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

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2 and 103 lb uplift at joint 4.

LOAD CASE(S) Standard

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



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.42	Vert(LL)	0.21	5-6	>340	240	
TCDL 7.0	Lumber Increase	1.25	BC 0.42	Vert(TL)	0.18	5-6	>397	180	
BCLL 10.0	Rep Stress Incr	NO	WB 0.15	Horz(TL)	0.00	5	n/a	n/a	
BCDL 5.0	Code FBC2004/TP12002		(Matrix)						
									Weight: 42 lb

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

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

REACTIONS (lb/size) 6=567/0-3-8, 5=696/0-3-8
 Max Horz 6=250(load case 5)
 Max Uplift 6=-125(load case 5), 5=-216(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-6=-142/262, 1-2=0/45, 2-3=-27/174, 3-4=-202/116, 4-5=-296/174
 BOT CHORD 5-6=-131/343
 WEBS 3-6=-479/0, 3-5=-462/176

JOINT STRESS INDEX
 2 = 0.14, 3 = 0.12, 4 = 0.13, 5 = 0.21 and 6 = 0.18

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) 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 125 lb uplift at joint 6 and 216 lb uplift at joint 5.
- 4) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 142 lb down at 3'-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-3=-54, 5-6=-30
 Concentrated Loads (lb)
 Vert: 3=-142
 Trapezoidal Loads (plf)
 Vert: 3=-235-to-4=-212
- 2) C-C Wind: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=64, 2-3=42, 5-6=56
 Horz: 2-6=-46, 1-2=-73, 2-4=-50
 Concentrated Loads (lb)
 Vert: 3=-142
 Trapezoidal Loads (plf)
 Vert: 3=95-to-4=119
- 3) MWFRS Wind Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=9, 2-3=-12, 5-6=24
 Horz: 2-6=22, 1-2=-18, 2-4=4

Continued on page 2

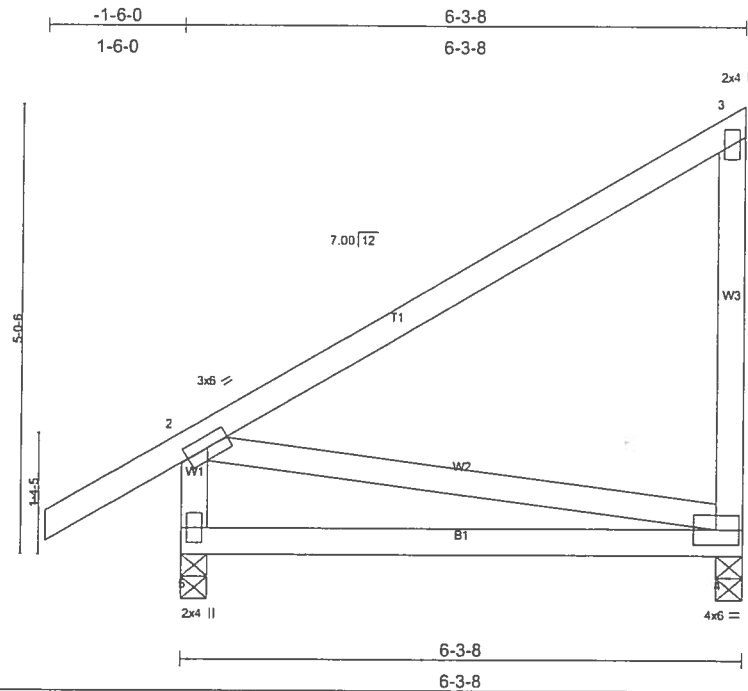
JANUARY 22, 2007 TRUSS DESIGN ENGINEER:
 THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
 STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
 16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - GRAND ROSS
MASTER	T10	MONO TRUSS	9	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055 6.300 s Apr 19 2006 M/Tek Industries, Inc. Mon Jan 22 13:04:12 2007 Page 2 LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 3=-142 Trapezoidal Loads (plf) Vert: 3=-53-to-4=-29 4) MWFRS Wind Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=11, 2-3=18, 5-6=19 Horz: 2-6=-24, 1-2=-20, 2-4=-26 Concentrated Loads (lb) Vert: 3=-142 Trapezoidal Loads (plf) Vert: 3=-5-to-4=19 5) MWFRS 1st Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=56, 2-3=38, 5-6=19 Horz: 2-6=-23, 1-2=-65, 2-4=-46 Concentrated Loads (lb) Vert: 3=-142 Trapezoidal Loads (plf) Vert: 3=42-to-4=65 6) MWFRS 2nd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=17, 2-3=24, 5-6=19 Horz: 2-6=-23, 1-2=-25, 2-4=-32 Concentrated Loads (lb) Vert: 3=-142 Trapezoidal Loads (plf) Vert: 3=9-to-4=33 7) MWFRS 3rd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=36, 2-3=18, 5-6=19 Horz: 2-6=-23, 1-2=-45, 2-4=-26 Concentrated Loads (lb) Vert: 3=-142 Trapezoidal Loads (plf) Vert: 3=-5-to-4=19 8) MWFRS 4th Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=5, 2-3=12, 5-6=19 Horz: 2-6=-23, 1-2=-14, 2-4=-20 Concentrated Loads (lb) Vert: 3=-142 Trapezoidal Loads (plf) Vert: 3=-14-to-4=10					

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - GRAND ROSS
MASTER	T11	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 22 13:04:13 2007 Page 1



Scale = 1/4\"/>

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.38	Vert(LL)	0.21	4-5	>340	240	MT20
TCDL 7.0	Lumber Increase	1.25	BC 0.39	Vert(TL)	0.18	4-5	>397	180	244/190
BCLL 10.0	Rep Stress Incr	YES	WB 0.07	Horz(TL)	-0.00	4	n/a	n/a	
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 39 lb

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-10-10 oc bracing.

REACTIONS (lb/size) 5=353/0-3-8, 4=240/0-3-8
 Max Horz 5=250(load case 5)
 Max Uplift 5=-189(load case 5), 4=-244(load case 5)

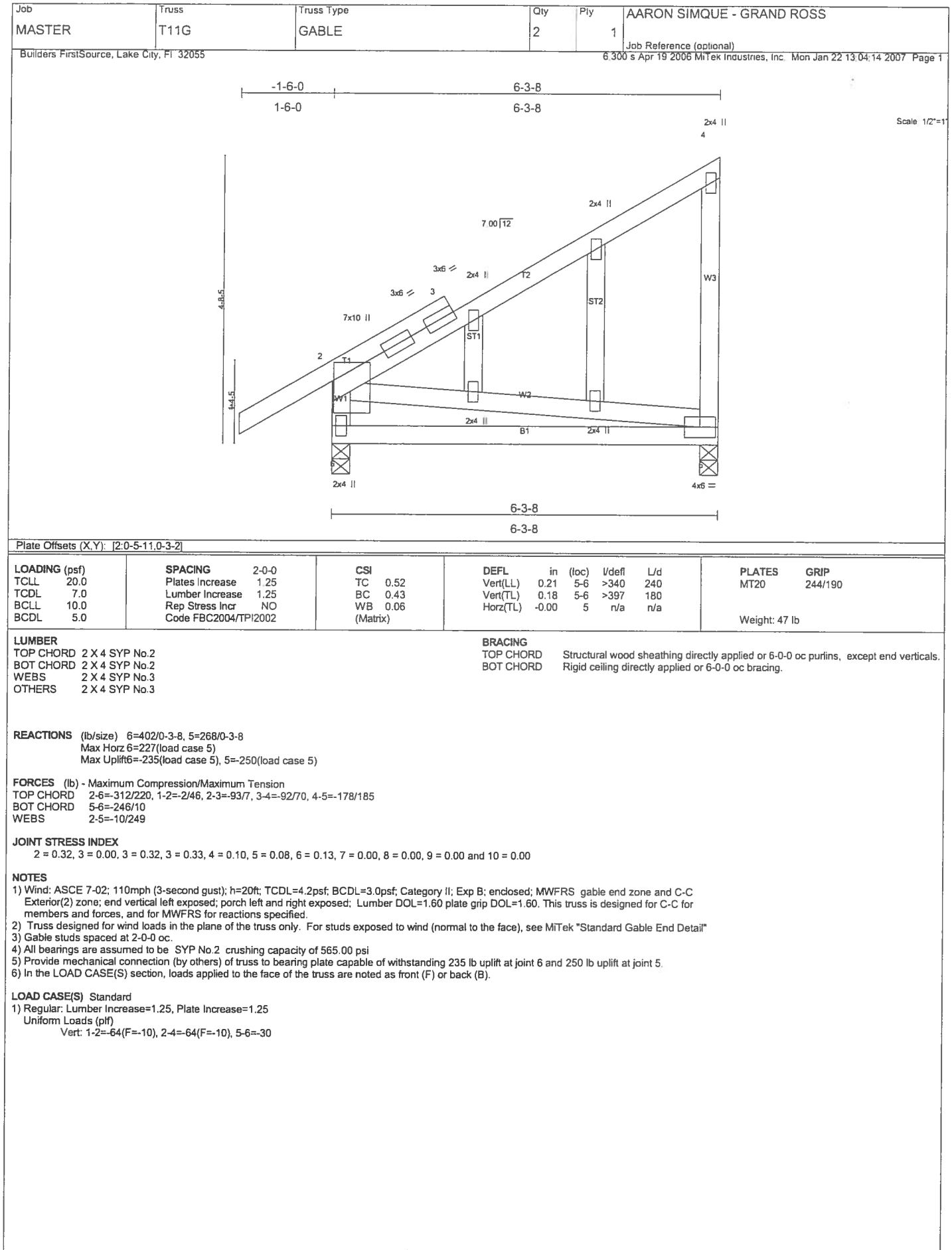
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-5=-263/149, 1-2=0/45, 2-3=-104/59, 3-4=-150/156
 BOT CHORD 4-5=-271/9
 WEBS 2-4=-9/276

JOINT STRESS INDEX
 2 = 0.11, 3 = 0.08, 4 = 0.09 and 5 = 0.10

NOTES

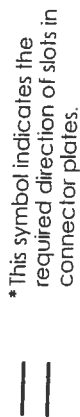
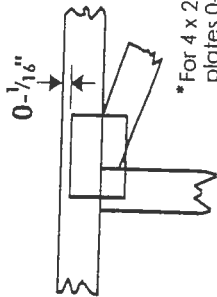
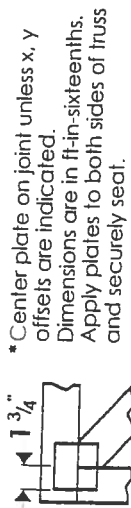
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf, BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) 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 189 lb uplift at joint 5 and 244 lb uplift at joint 4.

LOAD CASE(S) Standard



Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

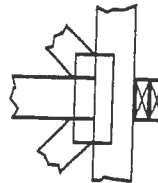
4 X 4

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

LATERAL BRACING

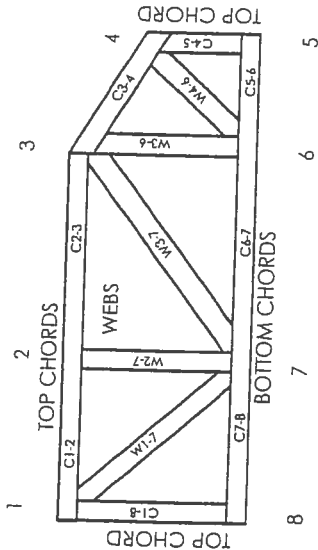


BEARING



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

Numbering System

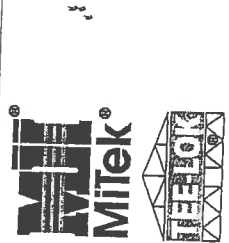


JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

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

CONNECTOR PLATE CODE APPROVALS

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



MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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