DATE 01/24/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026663

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP CT LAKE CITY FL 32024

OWNER SPARKS CONTRACTORS PHONE 623-0575

ADDRESS 243 SW WILSHIRE DR LAKE CITY FL 32024

CONTRACTOR SPARKS CONTRACTORS PHONE 623-0575

LOCATION OF PROPERTY 247S, TL ON CALLAHAN, TL ON CALLAWAY DR, TR ON PHEASANT, TR ON WILSHIRE, 2ND LOT ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 116950.00

HEATED FLOOR AREA 1579.00 TOTAL AREA 2339.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT

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

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

PARCEL ID 15-4S-16-03023-397 SUBDIVISION CALLAWAY

LOT 97 BLOCK PHASE UNIT 3 TOTAL ACRES 5.00

000001532 CBC1252260

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

CULVERT 08-0064 BK JH Y

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

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD

Check # or Cash 4575

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by

Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by

Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by

Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by

Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by

M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by

Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by

M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE $ 585.00 CERTIFICATION FEE $ 11.70 SURCHARGE FEE $ 11.70

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 708.40

INSPECTORS OFFICE CLERKS OFFICE CH

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

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

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

CK# 4525

Columbia County Building Permit Application

For Office Use Only Application # 0801-61 Date Received 1-14-08 By LH Permit # 1532/26663

Zoning Official BLK Date 23.0108 Flood Zone X Plat FEMA Map # N/A Zoning RSF-2

Land Use Res. Low Dev Elevation N/A MFE 1ft above Rd River N/A Plans Examiner OK JTH Date 1-18-08

Comments

☐ NOC ☐ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel #

☐ Dev Permit # ☐ In Floodway ☐ Letter of Authorization from Contractor

☐ Unincorporated area ☐ Incorporated area ☐ Town of Fort White ☐ Town of Fort White Compliance letter

Fax 752-2282

Name Authorized Person Signing Permit Linda or Melanie Roder Phone 752-2281

Address 387 SW Kepp Ct Lake City FL 32024

Owners Name Mark A. Cook fang Sparks Contractors Phone 623-0575

911 Address 243 SW Wilshire Dr Lake City FL 32024

Contractors Name Josh Sparks of Sparks Construction Sparks Contractors Phone 623-0575

Address POB 1479 Lake City FL 32056

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address LCB

Circle the correct power company – FL Power & Light – (Clay Elec.) – Suwannee Valley Elec. – Progress Energy

Property ID Number 15-4S-16-03023-397 Estimated Cost of Construction 150K

Subdivision Name Callaway TL Callaway Dr. Lot 97 Block ___ Unit III Phase ___

Driving Directions 247, Lon Callahan, R on SW Gardenia, R on SW Pheasant Wilshire, 2nd lot down on R to Wilshire

Number of Existing Dwellings on Property 0

Construction of Single family dwelling Total Acreage .59c Lot Size .59c

Do you need a - (Culvert Permit) or Culvert Waiver or Have an Existing Drive Total Building Height 21'

Actual Distance of Structure from Property Lines - Front 47' Side 51' Side 53' Rear 85'

Number of Stories 1 Heated Floor Area 1579 Total ~~Heated~~ Floor Area 1579 TOTA 2339 Roof Pitch 8-12

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 standa
of all laws regulating construction in this jurisdiction

Columbia County Building Permit Application **Application #** _____

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment
According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:
YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

X _____
Owners Signature

Affirmed under penalty of perjury to by the Owner and subscribed before me this 14 **day of** Jan **20** 08

Personally known ✓ **or Produced Identification** _____

_____ **SEAL:**
State of Florida Notary Signature (For the Owner)

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

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

_____
Contractor's Signature (Permitee)

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

Contractor's License Number CBC 1252760
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 14 **day of** Jan **20** 08

Personally known ✓ **or Produced Identification** _____

_____ **SEAL:**
State of Florida Notary Signature (For the Contractor)

~~08-0064~~ (0801-61)

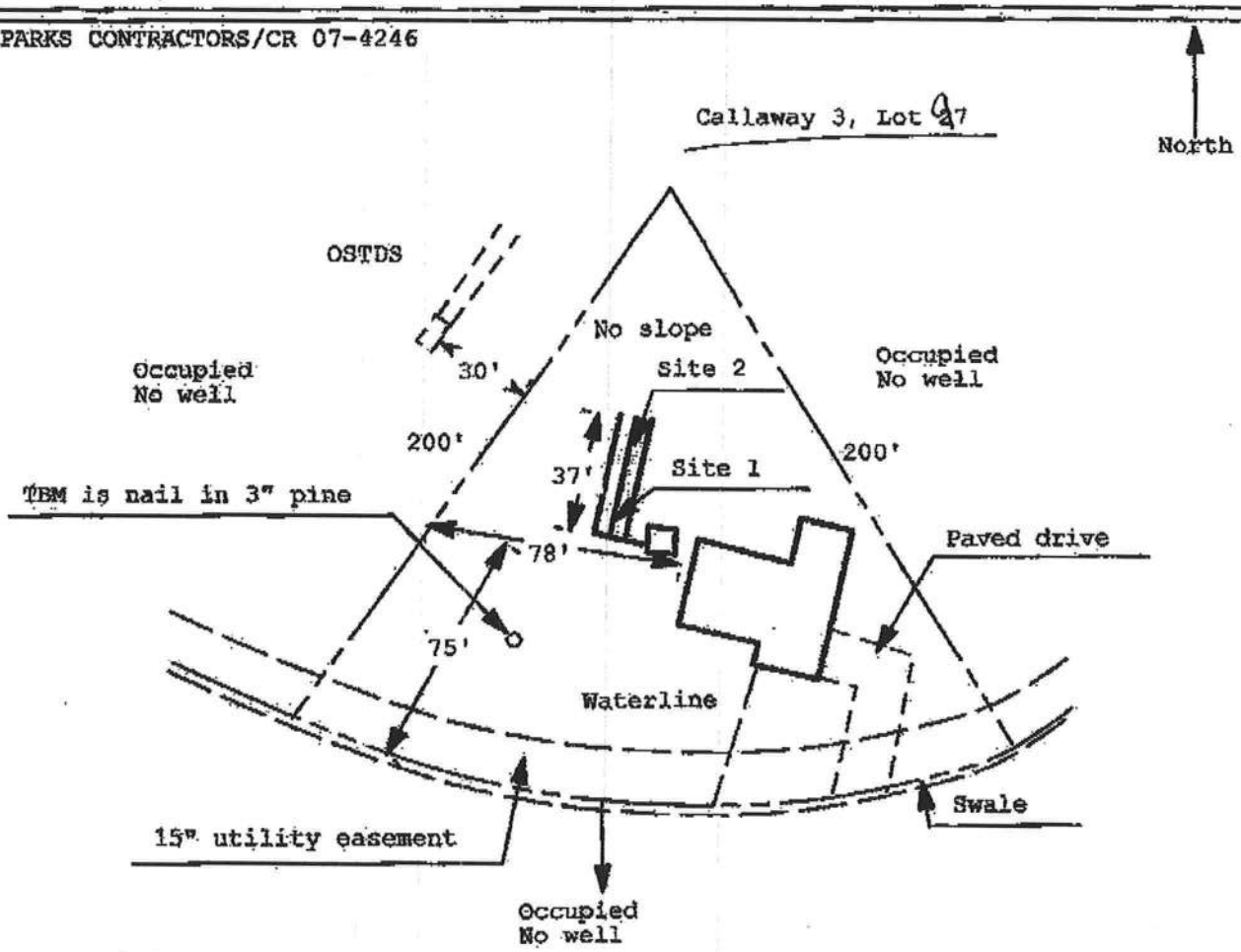
Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 08-0064

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SPARKS CONTRACTORS/CR 07-4246

Callaway 3, Lot 9



1 inch = ~~50~~ 55' feet

Site Plan Submitted By Paul Sparks Date 1/14/08

Plan Approved ✓ Not Approved ____ Date 1-15-08

By Marcia Jack Columbia CPHU

Notes: _____

Notice of Authorization

I, Josh Sparks, hereby authorize Linda Roder or Melanie Roder to be my Representative and act on my behalf in all aspects for applying for a Building Permit to be located in Columbia County.

X _____ 1-14-08

Contractor's Signature Date

Sworn to and Subscribed before me this 14 day of Jan, 2008 by Josh Sparks, who

✓ is Personally Known or

_____ has produced _____ as identification.

_____

Notary Public

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

Notary Stamp

ATS# 15460

Inst:2005030663 Date:12/12/2005 Time:16:35
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:1067 P:2422

This Instrument Prepared By:
Michael H. Harrell
Abstract & Title Services, Inc.
283 NW Cole Terrace
Lake City, Florida 32055

QUIT CLAIM DEED

THIS QUIT-CLAIM DEED, executed this 9th day of December, 2005, between Mark A. Cook, party of the first part, to Mark A. Cook and Sparks Contractors, Inc., party of the second part, whose mailing address is PO Box 2695, Lake City, Florida, 32056.

(Wherever used herein the terms "first party" and "second party" shall include singular and plural heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations wherever the context so admits or require.)

WITNESSETH, that the said first party for and in consideration of the sum of $10.00 and other valuable consideration in hand by the said second party, the receipt whereof is hereby acknowledged, does hereby remise, release and quit-claim unto the said second party forever, all the right, title, interest, claim and demand which the said first party has in and to the following described lot, piece or parcel of land situate, lying and being in the County of Columbia, State of Florida, to wit:

LOT 97, OF CALLAWAY PHASE III, A SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 7, PAGES 145-146, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

THE ABOVE DESCRIBED PROPERTY DOES NOT CONSTITUTE THE HOMESTEAD OF THE GRANTOR AND IS IN FACT VACANT LAND.

To have and to hold the same together with all and singular the appurtenances thereunto belonging or in anywise appertaining, and all the estate, right, title, interest, lien, equity, and claim whatsoever of the said first party, either in law or equity, to the only proper use, benefit and behoove of the second party forever.

IN WITNESS WHEREOF, the grantor has caused these presents to be executed in its name and duly authorized, the day and year first above written.

Signed, sealed and delivered in the presence of:

WITNESS Nicole Storer

Mark A. Cook

WITNESS Jessica Newsome

STATE OF FLORIDA
COUNTY OF COLUMBIA

I HEREBY CERTIFY that on this 9th day of December, 2005, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgements, personally appeared Mark A. Cook, named as grantor in the foregoing quit claim deed, to me known to be the person who executed the foregoing instrument he acknowledged before me that he executed the same.

WITNESS my hand and official seal this 9th day of December, 2005.

(SEAL)

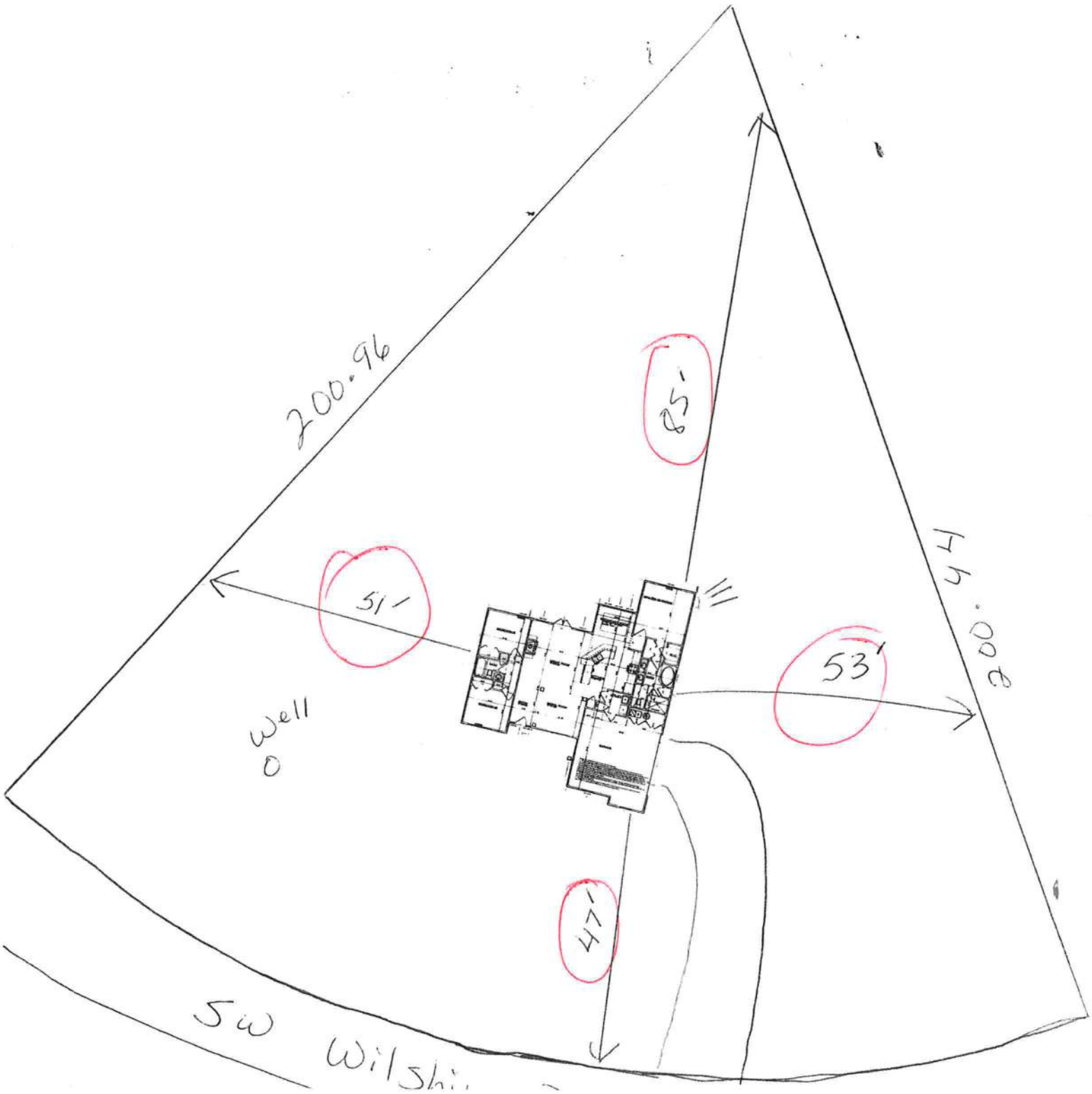
NOTARY PUBLIC

My Commission Expires:

MICHAEL H. HARRELL
MY COMMISSION # DD 406480
EXPIRES: April 8, 2009
Bonded Thru Notary Public Underwriters

15-45-16-03023-397
Lot 97 Callaway III

N



FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**801081SparksConstruction Inc**	Builder:	SPARKS
Address:	**Lot: 97, Sub: Callaway, Plat:**	Permitting Office:	Columbia
City, State:	**, FL**	Permit Number:	26663
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	3	
5. Is this a worst case?	Yes	
6. Conditioned floor area (ft²)	1608 ft²	
7. Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)		
a. U-factor: (or Single or Double DEFAULT) 7a.	Description Area (Dble Default) 251.5 ft²	
b. SHGC: (or Clear or Tint DEFAULT) 7b.	(Clear) 251.5 ft²	
8. Floor types		
a. Slab-On-Grade Edge Insulation	R=0.0, 196.0(p) ft	
b. N/A		
c. N/A		
9. Wall types		
a. Frame, Wood, Exterior	R=13.0, 1181.0 ft²	
b. Frame, Wood, Adjacent	R=13.0, 228.0 ft²	
c. N/A		
d. N/A		
e. N/A		
10. Ceiling types		
a. Under Attic	R=30.0, 1608.0 ft²	
b. N/A		
c. N/A		
11. Ducts		
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 165.0 ft	
b. N/A		

12. Cooling systems		
a. Central Unit	Cap: 36.0 kBtu/hr	
	SEER: 13.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 36.0 kBtu/hr	
	HSPF: 7.90	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 40.0 gallons	
	EF: 0.93	
b. N/A		
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

Glass/Floor Area: 0.16

Total as-built points: 22335
Total base points: 24933

PASS

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

PREPARED BY: _____

DATE: 1-11-07

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

OWNER/AGENT: _____

DATE: 1-14-08

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 97, Sub: Callaway, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	**1608.0**	**20.04**	**5800.4**	Double, Clear	W	1.5	5.5	45.0	38.52	0.90	1554.9	
				Double, Clear	W	7.7	5.5	30.0	38.52	0.46	532.9	
				Double, Clear	W	7.7	5.5	20.0	38.52	0.46	355.3	
				Double, Clear	W	1.5	7.5	37.5	38.52	0.95	1371.2	
				Double, Clear	N	1.5	4.5	16.0	19.20	0.90	276.5	
				Double, Clear	E	6.0	5.5	30.0	42.06	0.50	624.8	
				Double, Clear	E	8.0	7.2	13.3	42.06	0.49	273.4	
				Double, Clear	E	1.5	5.5	30.0	42.06	0.90	1131.0	
				Double, Clear	S	1.5	1.3	2.7	35.87	0.49	47.7	
				Double, Clear	S	1.5	5.5	15.0	35.87	0.83	447.7	
				Double, Clear	E	6.0	2.5	12.0	42.06	0.37	188.3	
				As-Built Total:				**251.5**			**6803.7**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	228.0	0.70	159.6	Frame, Wood, Exterior	13.0	1181.0	1.50	1771.5
Exterior	1181.0	1.70	2007.7	Frame, Wood, Adjacent	13.0	228.0	0.60	136.8
Base Total:	**1409.0**		**2167.3**	**As-Built Total:**		**1409.0**		**1908.3**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Exterior Insulated	20.0	4.10	82.0
Exterior	40.0	4.10	164.0	Exterior Insulated	20.0	4.10	82.0
				Adjacent Insulated	20.0	1.60	32.0
Base Total:	**60.0**		**196.0**	**As-Built Total:**	**60.0**		**196.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM =	Points
Under Attic	1608.0	1.73	2781.8	Under Attic	30.0	1608.0	1.73 X 1.00	2781.8
Base Total:	**1608.0**		**2781.8**	**As-Built Total:**		**1608.0**		**2781.8**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	196.0(p)	-37.0	-7252.0	Slab-On-Grade Edge Insulation	0.0	196.0(p	-41.20	-8075.2
Raised	0.0	0.00	0.0					
Base Total:			**-7252.0**	**As-Built Total:**		**196.0**		**-8075.2**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 97, Sub: Callaway, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points			Area X	SPM	=	Points	
	1608.0	10.21	16417.7			1608.0	10.21		16417.7	
Summer Base Points: 20111.2				**Summer As-Built Points:**					**20032.3**	
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
				(sys 1: Central Unit 36000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)						
				20032	1.00	(1.09 x 1.147 x 0.91)	0.263	1.000		5983.5
20111.2	**0.4266**		**8579.4**	**20032.3**	**1.00**	**1.138**	**0.263**	**1.000**		**5983.5**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 97, Sub: Callaway, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	1608.0	12.74	3687.5	Double, Clear	W	1.5	5.5	45.0	20.73	1.03	959.0
				Double, Clear	W	7.7	5.5	30.0	20.73	1.20	745.3
				Double, Clear	W	7.7	5.5	20.0	20.73	1.20	496.9
				Double, Clear	W	1.5	7.5	37.5	20.73	1.01	787.9
				Double, Clear	N	1.5	4.5	16.0	24.58	1.00	395.1
				Double, Clear	E	6.0	5.5	30.0	18.79	1.31	738.9
				Double, Clear	E	8.0	7.2	13.3	18.79	1.32	329.3
				Double, Clear	E	1.5	5.5	30.0	18.79	1.04	587.1
				Double, Clear	S	1.5	1.3	2.7	13.30	3.05	109.5
				Double, Clear	S	1.5	5.5	15.0	13.30	1.15	228.8
				Double, Clear	E	6.0	2.5	12.0	18.79	1.48	333.9
				As-Built Total:				**251.5**			**5711.5**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	228.0	3.60	820.8	Frame, Wood, Exterior	13.0	1181.0	3.40	4015.4
Exterior	1181.0	3.70	4369.7	Frame, Wood, Adjacent	13.0	228.0	3.30	752.4
Base Total:	**1409.0**		**5190.5**	**As-Built Total:**		**1409.0**		**4767.8**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	20.0	8.00	160.0	Exterior Insulated	20.0	8.40	168.0
Exterior	40.0	8.40	336.0	Exterior Insulated	20.0	8.40	168.0
				Adjacent Insulated	20.0	8.00	160.0
Base Total:	**60.0**		**496.0**	**As-Built Total:**	**60.0**		**496.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X	WCM =	Points
Under Attic	1608.0	2.05	3296.4	Under Attic	30.0	1608.0	2.05 X	1.00	3296.4
Base Total:	**1608.0**		**3296.4**	**As-Built Total:**		**1608.0**			**3296.4**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	196.0(p)	8.9	1744.4	Slab-On-Grade Edge Insulation	0.0	196.0(p	18.80	3684.8
Raised	0.0	0.00	0.0					
Base Total:			**1744.4**	**As-Built Total:**		**196.0**		**3684.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 97, Sub: Callaway, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM =	Points				Area X	WPM =	Points	
	1608.0	-0.59	-948.7				1608.0	-0.59	-948.7	
Winter Base Points:			**13466.0**	**Winter As-Built Points:**						**17007.7**
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
				(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0						
				17007.7	1.000	(1.069 x 1.169 x 0.93)	0.432	1.000		8532.0
13466.0		**0.6274**	**8448.6**	**17007.7**	**1.00**	**1.162**	**0.432**	**1.000**		**8532.0**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 97, Sub: Callaway, Plat: , , FL,** PERMIT #:

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

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
8579	**8449**	**7905**	**24933**	**5983**	**8532**	**7820**	**22335**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 97, Sub: Callaway, Plat: , , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.1

The higher the score, the more efficient the home.

Spec House, Lot: 97, Sub: Callaway, Plat: , , FL,

1.	New construction or existing	New		12.	Cooling systems
2.	Single family or multi-family	Single family		a.	Central Unit	Cap: 36.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 13.00
4.	Number of Bedrooms	3		b.	N/A	
5.	Is this a worst case?	Yes				
6.	Conditioned floor area (ft²)	1608 ft²		c.	N/A	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)					
a.	U-factor:	Description Area		13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 251.5 ft²		a.	Electric Heat Pump	Cap: 36.0 kBtu/hr
b.	SHGC:					HSPF: 7.90
	(or Clear or Tint DEFAULT) 7b.	(Clear) 251.5 ft²		b.	N/A	
8.	Floor types					
a.	Slab-On-Grade Edge Insulation	R=0.0, 196.0(p) ft		c.	N/A	
b.	N/A					
c.	N/A			14.	Hot water systems	
9.	Wall types			a.	Electric Resistance	Cap: 40.0 gallons
a.	Frame, Wood, Exterior	R=13.0, 1181.0 ft²				EF: 0.93
b.	Frame, Wood, Adjacent	R=13.0, 228.0 ft²		b.	N/A	
c.	N/A					
d.	N/A			c.	Conservation credits	
e.	N/A				(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
a.	Under Attic	R=30.0, 1608.0 ft²		15.	HVAC credits	
b.	N/A				(CF-Ceiling fan, CV-Cross ventilation,	
c.	N/A				HF-Whole house fan,	
11.	Ducts				PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 165.0 ft			MZ-C-Multizone cooling,	
b.	N/A				MZ-H-Multizone heating)	

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 EnergyStar™ 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.

HUGHES WELL DRILLING & PUMP SERVICE, LLC

12367 N US HWY 441
LAKE CITY, FLORIDA 32055
OFFICE: (386)-752-1840
FAX: (386)-755-2934

EMAIL: Hugwell1840@aol.com

Columbia County Building and Zoning
PO Box 1529
Lake City, FL. 32056-1529

Attn: Gale Tedder / Janis

Re: Sparks Contractor 15-4s-03023-397 Lot 97 Callaway S/D

1). 4" Deep well
2). 1-hp pump-20gpm
3). 81 Gallon Bladder tank eqv. To a 220 gallon galvanized tank
4). 1¼" pvc drop pipe

If you have any further questions, please feel free to phone me at the above number.

Sincerely,

Ronnie Hughes

WE DRILL THE BEST AND SERVICE THE REST

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001532

DATE 01/24/2008 PARCEL ID # 15-4S-16-03023-397

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP CT LAKE CITY FL 32024

OWNER SPARKS CONTRACTORS PHONE 623-0575

ADDRESS 243 SW WILSHIRE DR LAKE CITY FL 32024

CONTRACTOR SPARKS CONTRACTORS PHONE 623-0575

LOCATION OF PROPERTY 247S, TL ON CALLAHAN, TL ON CALLAHAN DR, TR ON PHEASANT, TR ON WILSHIRE, 2ND LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CALLAWAY 97 3

SIGNATURE

INSTALLATION REQUIREMENTS

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

INSTALLATION NOTE: Turnouts will be required as follows:
a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

[ ] Culvert installation shall conform to the approved site plan standards.

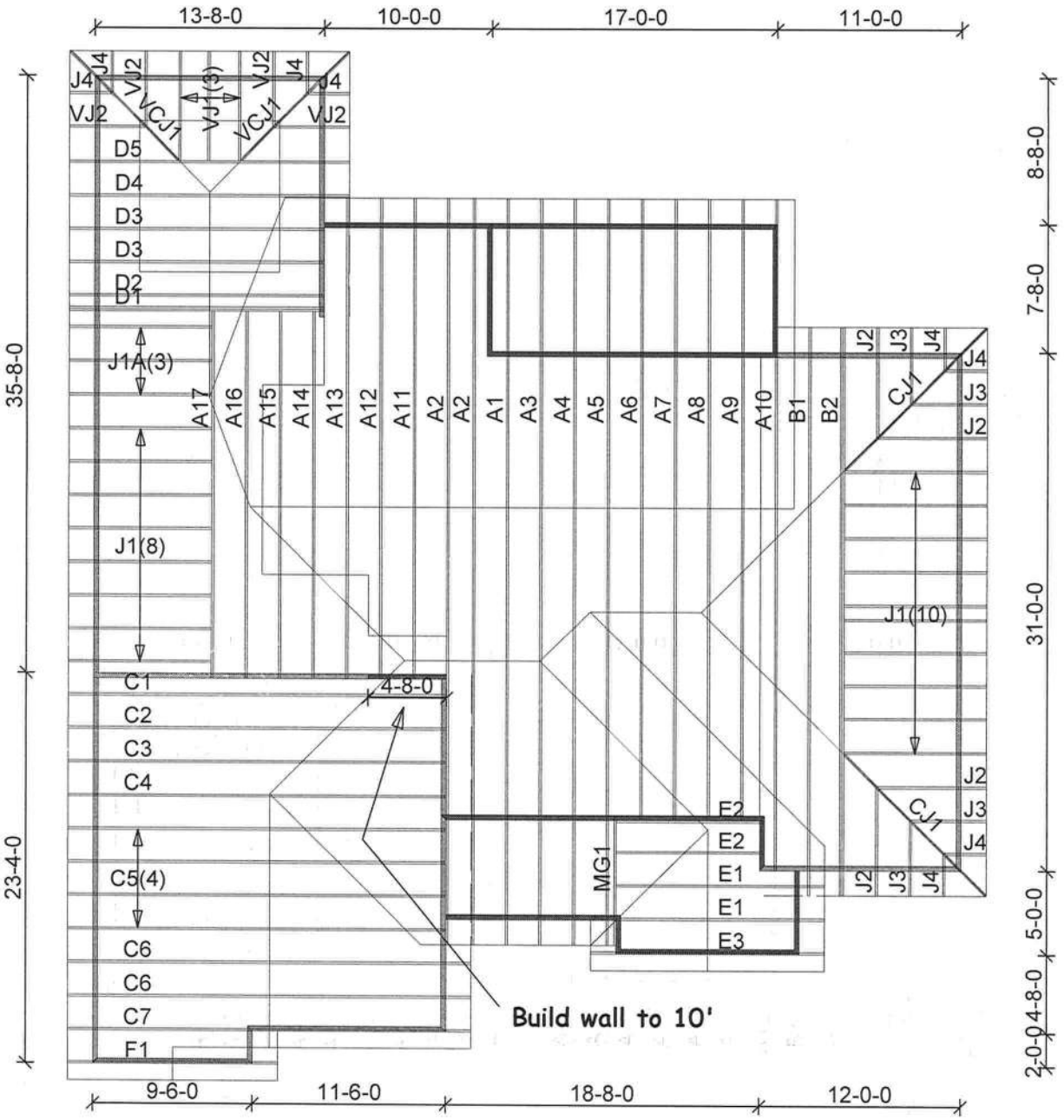
[ ] Department of Transportation Permit installation approved standards.

[ ] Other _____

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

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

Amount Paid 25.00



0801-91

SPARKS

Mayo Truss Co. Inc. 845 East US 27 MAYO, FL 32066 (386)294-3988 (877)-558-6262	SPARKS CONSTRUCTION LOT 97 CALLAWAY 110 MPH ASCE WIND LOAD	Roof Loading TC Live: 20.00 psf TC Dead: 10.00 psf BC Live: 0.00 psf BC Dead: 10.00 psf TC Stress Inc: 25.00 BC Stress Inc: 25.00 Spacing: 2- 0- 0 o.c.	Account: INDIVIDUAL Job: SPARKS-LOT97 Designer: M.MURRAY Checker: M.MURRAY Date: 01-16-08

RE: SPARKS-LOT97 -

Site Information:
Project Customer: SPARKS CONSTRUCTION Project Name: SPARKS CONSTRUCTION
Lot/Block: SPARKS-LOT97 Subdivision: CALLAWAY LOT 97
Address: -
City: COLUMBIA COUNTY State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2004/TPI2002 Design Program: Robbins OnLine Plus 21.5.041□
Wind Code: ASCE 7-02 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 40.0 psf

This package includes 45 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T2850061	A1	1/10/08	18	T2850078	B1	1/10/08
2	T2850062	A2	1/10/08	19	T2850079	B2	1/10/08
3	T2850063	A3	1/10/08	20	T2850080	C1	1/10/08
4	T2850064	A4	1/10/08	21	T2850081	C2	1/10/08
5	T2850065	A5	1/10/08	22	T2850082	C3	1/10/08
6	T2850066	A6	1/10/08	23	T2850083	C4	1/10/08
7	T2850067	A7	1/10/08	24	T2850084	C5	1/10/08
8	T2850068	A8	1/10/08	25	T2850085	C6	1/10/08
9	T2850069	A9	1/10/08	26	T2850086	C7	1/10/08
10	T2850070	A10	1/10/08	27	T2850087	CJ1	1/10/08
11	T2850071	A11	1/10/08	28	T2850088	D1	1/10/08
12	T2850072	A12	1/10/08	29	T2850089	D2	1/10/08
13	T2850073	A13	1/10/08	30	T2850090	D3	1/10/08
14	T2850074	A14	1/10/08	31	T2850091	D4	1/10/08
15	T2850075	A15	1/10/08	32	T2850092	D5	1/10/08
16	T2850076	A16	1/10/08	33	T2850093	E1	1/10/08
17	T2850077	A17	1/10/08	34	T2850094	E2	1/10/08

The truss drawing(s) referenced above have been prepared by Robbins Engineering, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2009.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Sec. 2.

6904 Parke East Boulevard
Tampa, FL 33610-4115
Phone: 813-972-1135• Fax: 813-971-6117
www.robbinseng.com

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

RE: SPARKS-LOT97 -

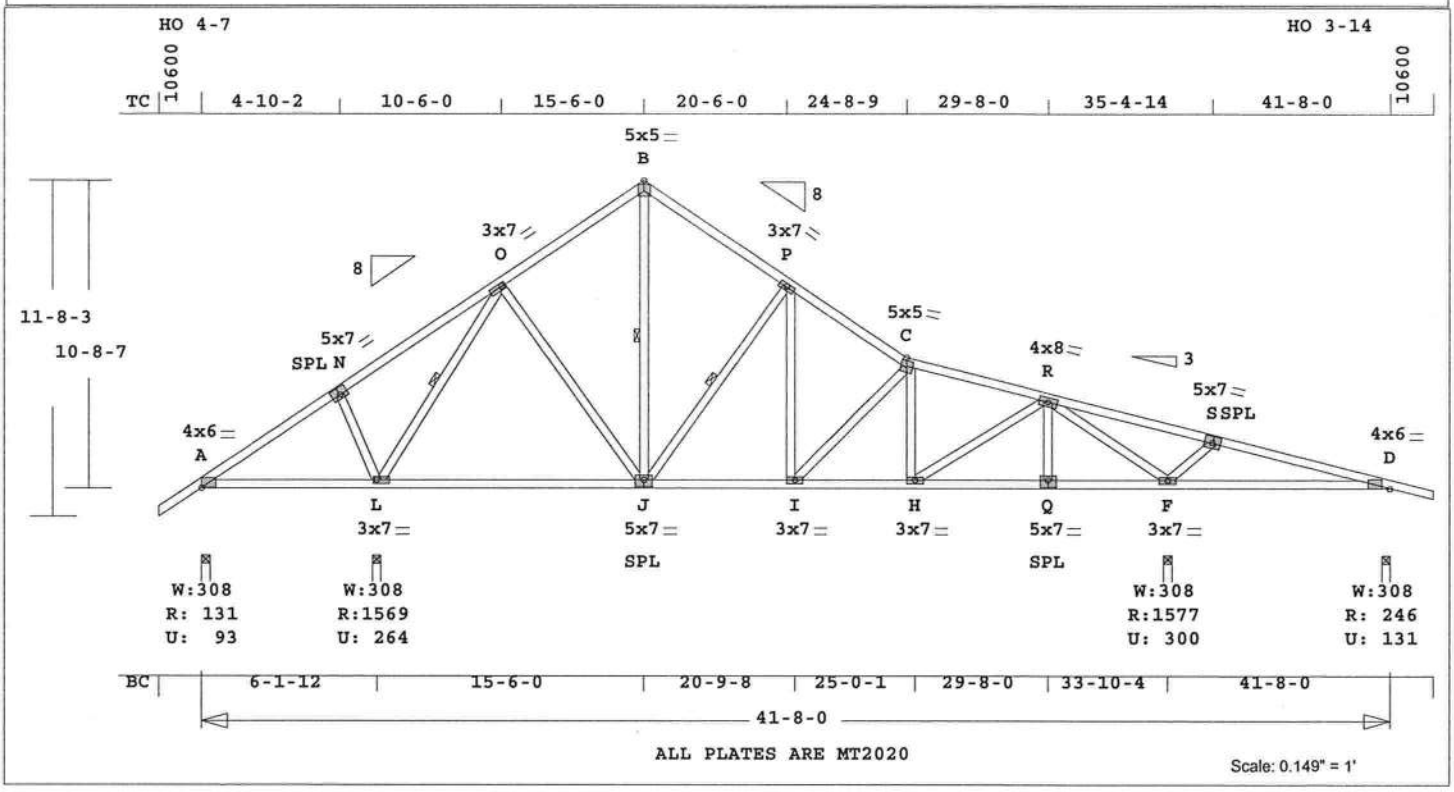
Site Information:

Project Customer: SPARKS CONSTRUCTION Project Name: SPARKS CONSTRUCTION
Lot/Block: SPARKS-LOT97 Subdivision: CALLAWAY LOT 97
Address: -
City: COLUMBIA COUNTY State: FL

No.	Seal#	Truss Name	Date
35	T2850095	E3	1/10/08
36	T2850096	F1	1/10/08
37	T2850097	J1	1/10/08
38	T2850098	J1A	1/10/08
39	T2850099	J2	1/10/08
40	T2850100	J3	1/10/08
41	T2850101	J4	1/10/08
42	T2850102	MG1	1/10/08
43	T2850103	VCJ1	1/10/08
44	T2850104	VJ1	1/10/08
45	T2850105	VJ2	1/10/08

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*A1*	1	PCH3	410800	8	1- 6- 0	1- 6- 0	*T2850061*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 305.7 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.52	2x 4	SP-#2
BC	0.45	2x 4	SP-#2
WB	0.61	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	41- 8- 0
BC	Cont.	0- 0- 0	41- 8- 0

One Continuous Lateral Brace
L -O J -B J -P
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	132	93 U	230 R
L	1570	264 U	
F	1577	300 U	
D	247	132 U	197 R

Jt	Brg Size	Required
A	3.5"	1.5"
L	3.5"	1.7"
F	3.5"	1.7"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
Top Chords				
A -N	0.35	251 T	0.04	0.31
N -O	0.35	341 T	0.04	0.31
O -B	0.26	670 C	0.00	0.26
B -P	0.25	669 C	0.00	0.25
P -C	0.25	1099 C	0.00	0.25
C -R	0.23	1359 C	0.01	0.22
R -S	0.52	591 T	0.09	0.43
S -D	0.47	276 T	0.04	0.43
Bottom Chords				
A -L	0.42	180 C	0.00	0.42
L -J	0.45	391 T	0.03	0.42
J -I	0.45	933 T	0.09	0.36
I -H	0.28	1320 T	0.22	0.06
H -Q	0.23	921 T	0.15	0.08
Q -F	0.41	921 T	0.15	0.26
F -D	0.29	280 C	0.00	0.29
Webs				
N -L	0.05	295 C		
L -O	0.30	1301 C		1 Br
O -J	0.05	286 T		
J -B	0.09	456 T		1 Br
J -P	0.16	643 C		1 Br
I -P	0.09	449 T		
I -C	0.23	542 C		
H -C	0.03	145 C		
H -R	0.08	467 T		
Q -R	0.02	133 T		
R -F	0.61	1846 C		
F -S	0.05	476 C		

TL Defl -0.13" in F -D L/673
LL Defl -0.06" in F -D L/999
Shear // Grain in S -D 0.27

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	0.5	0.4	0.76
N	MT20	5.0x 7.0-0.3	0.5		0.79
O	MT20	3.0x 7.0-1.4-0.9			0.49
B	MT20	5.0x 5.0 Ctr	Ctr		0.70
P	MT20	3.0x 7.0 Ctr	Ctr		0.47
C	MT20	5.0x 5.0 Ctr	Ctr		0.97
R	MT20	4.0x 8.0 Ctr	Ctr		0.78
S	MT20	5.0x 7.0 0.1	0.5		0.81
D	MT20	4.0x 6.0 Ctr	0.1		0.92
L	MT20	3.0x 7.0 Ctr	Ctr		0.43
J	MT20	5.0x 7.0 Ctr-0.5			0.81
I	MT20	3.0x 7.0 Ctr	Ctr		0.47
H	MT20	3.0x 7.0 Ctr	Ctr		0.44
Q	MT20	5.0x 7.0 Ctr-0.5			0.81
F	MT20	3.0x 7.0 Ctr	Ctr		0.56

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:

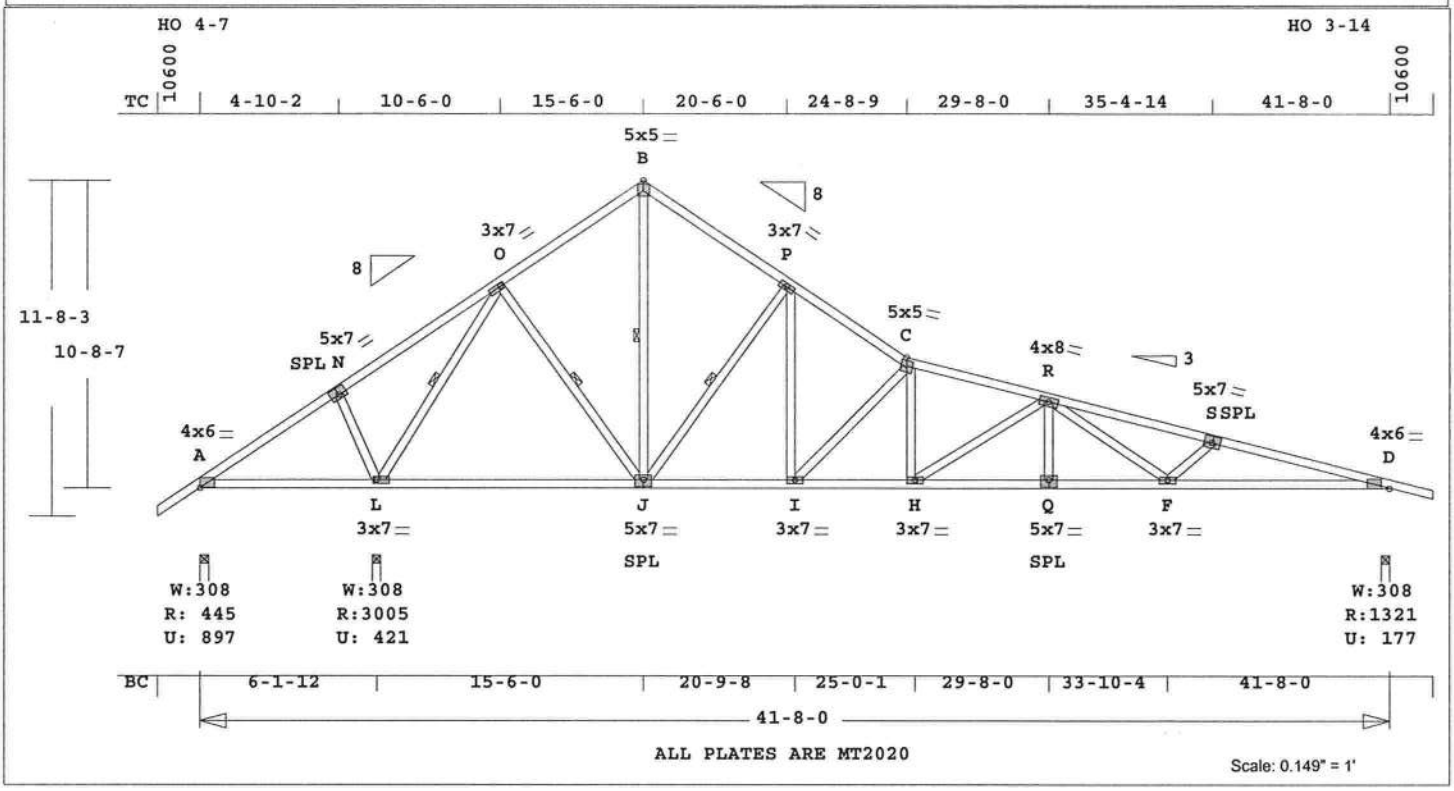
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
0- 0- 0 6- 1-12
33-10- 4 41- 8- 0
Max comp. force 1846 Lbs
Max tens. force 1320 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*A2*	2	PCH3	41'0800	8	1- 6- 0	1- 6- 0	*T2850062*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 305.7 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.71	2x 4	SP-#2
BC	0.82	2x 4	SP-#2
WB	0.68	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	41- 8- 0
BC	Cont.	0- 0- 0	41- 8- 0

One Continuous Lateral Brace
L -O O -J J -B J -P
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	445	898 G	231 R
L	3005	422 U	
D	1322	177 U	198 R

G = Gravity Uplift

Jt	Brg Size	Required
A	3.5"	1.5"
L	3.5"	3.2"
D	3.5"	1.6"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -N	0.71	1826 T	0.31 0.40
N -O	0.70	1938 T	0.30 0.40
O -B	0.24	551 C	0.00 0.24
B -P	0.28	553 C	0.00 0.28
P -C	0.29	1364 C	0.01 0.28
C -R	0.32	2268 C	0.03 0.29
R -S	0.50	3587 C	0.16 0.34
S -D	0.44	3884 C	0.16 0.28
--------Bottom Chords--------			
A -L	0.46	1486 C	0.00 0.46
L -J	0.46	251 T	0.00 0.46
J -I	0.47	1163 T	0.12 0.35
I -H	0.40	2190 T	0.36 0.04
H -Q	0.56	2945 T	0.49 0.07
Q -F	0.53	2945 T	0.49 0.04
F -D	0.82	3772 T	0.63 0.19
------------Webs------------			
N -L	0.05	332 C	
L -O	0.68	2912 C	1 Br
O -J	0.17	965 T	1 Br
J -B	0.07	361 T	1 Br
J -P	0.30	1195 C	1 Br
I -P	0.23	1086 T	
I -C	0.61	1439 C	
H -C	0.10	559 T	
H -R	0.34	878 C	
Q -R	0.02	164 T	
R -F	0.12	658 T	
F -S	0.04	400 C	

TL Defl -0.50" in H -Q L/848
LL Defl -0.25" in Q -F L/999
Shear // Grain in A -N 0.22

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	0.5	0.4	0.76
N	MT20	5.0x 7.0-0.3	0.5		0.79
O	MT20	3.0x 7.0-1.4-0.9			0.69
B	MT20	5.0x 5.0	Ctr	Ctr	0.70
P	MT20	3.0x 7.0	Ctr	Ctr	0.70
C	MT20	5.0x 5.0	Ctr	Ctr	0.97
R	MT20	4.0x 8.0	Ctr	Ctr	0.54
S	MT20	5.0x 7.0	0.1	0.5	0.81
D	MT20	4.0x 6.0	Ctr	0.1	0.97
L	MT20	3.0x 7.0	Ctr	Ctr	0.88
J	MT20	5.0x 7.0	Ctr-0.5		0.81
I	MT20	3.0x 7.0	Ctr	Ctr	0.47
H	MT20	3.0x 7.0	Ctr	Ctr	0.44
Q	MT20	5.0x 7.0	Ctr-0.5		0.81
F	MT20	3.0x 7.0	Ctr	Ctr	0.46

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR

ADDITIONAL SPECIFICATIONS.

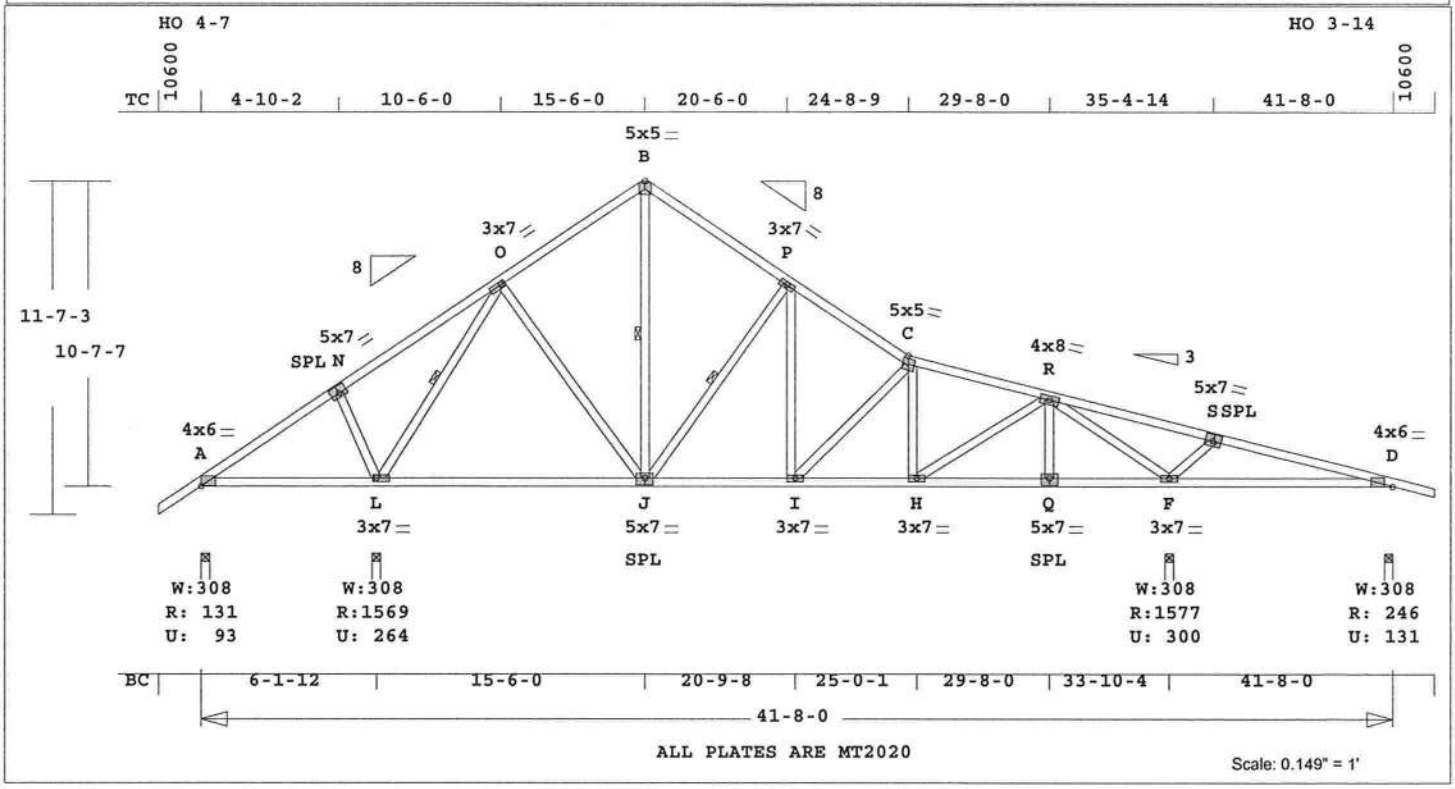
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 3884 Lbs
Max tens. force 3772 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***A3***	1	PCH3	410800	8	1- 6- 0	1- 6- 0	*T2850063*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 305.5 LBS

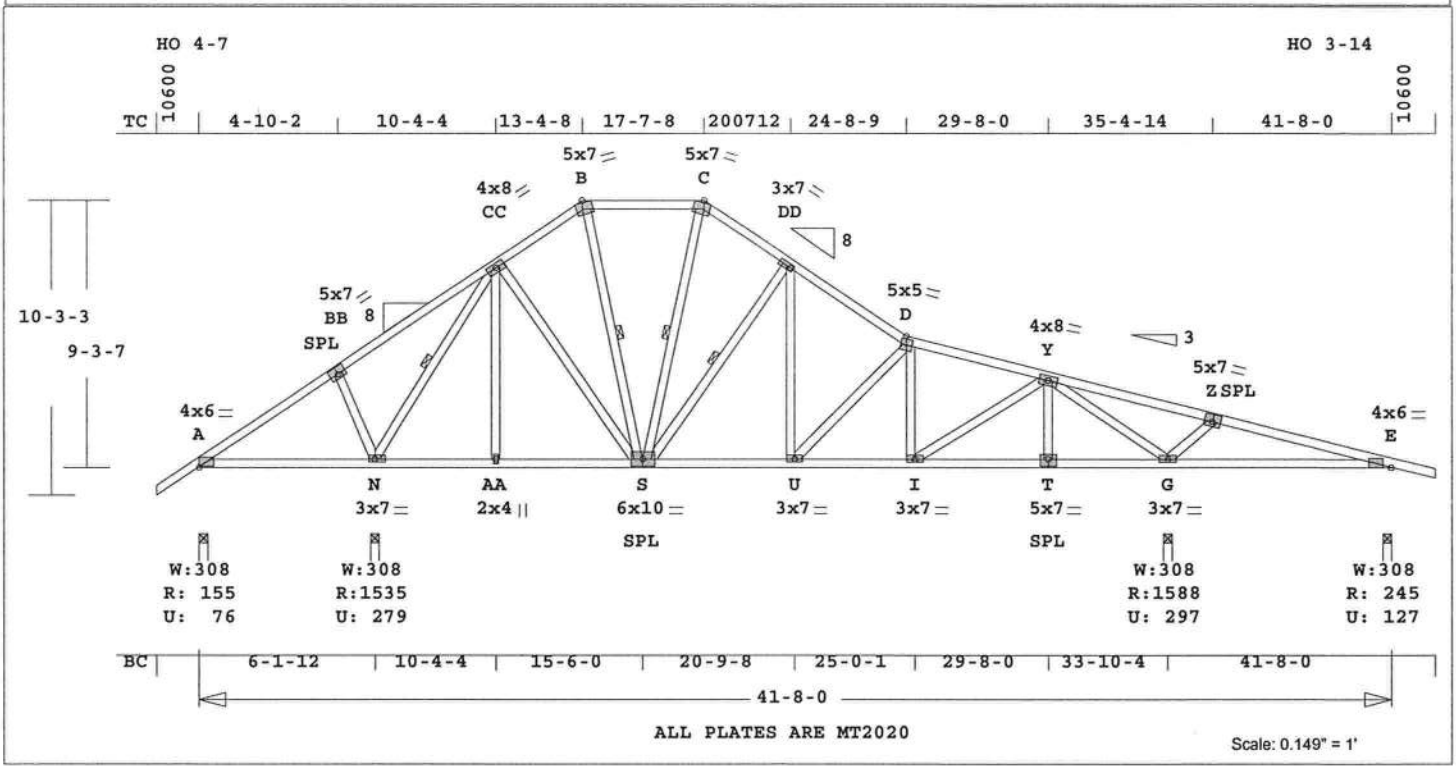
```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.52  2x 4  SP-#2
BC  0.45  2x 4  SP-#2
WB  0.61  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.     0- 0- 0 41- 8- 0
 BC  Cont.     0- 0- 0 41- 8- 0
One Continuous Lateral Brace
  L -O   J -B   J -P
Attach CLB with (2)-10d nails
  at each web.

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    132    93 U   230 R
L   1570   264 U
F   1577   300 U
D    247   132 U   197 R

Jt   Brg Size   Required
A       3.5"       1.5"
L       3.5"       1.7"
F       3.5"       1.7"
D       3.5"       1.5"

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -N  0.35   251 T  0.04  0.31
N -O  0.35   341 T  0.04  0.31
O -B  0.26   670 C  0.00  0.26
B -P  0.25   668 C  0.00  0.25
P -C  0.25  1099 C  0.00  0.25
C -R  0.23  1359 C  0.01  0.22
R -S  0.52   591 T  0.09  0.43
S -D  0.47   276 T  0.04  0.43
--------Bottom Chords---------
A -L  0.42   180 C  0.00  0.42
L -J  0.45   391 T  0.03  0.42
J -I  0.45   933 T  0.09  0.36
I -H  0.28  1320 T  0.22  0.06
H -Q  0.23   921 T  0.15  0.08
Q -F  0.41   921 T  0.15  0.26
F -D  0.29   280 C  0.00  0.29
-------------Webs-------------
N -L  0.05   295 C
L -O  0.30  1301 C        1 Br
O -J  0.05   286 T
J -B  0.09   456 T        1 Br
J -P  0.16   643 C        1 Br
I -P  0.09   449 T
I -C  0.23   542 C
H -C  0.03   145 C
H -R  0.08   467 T
Q -R  0.02   133 T
R -F  0.61  1846 C
F -S  0.05   476 C

TL Defl  -0.13" in F -D  L/673
LL Defl  -0.06" in F -D  L/999
Shear // Grain  in S -D   0.27

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  4.0x 6.0 0.5 0.4 0.76
N  MT20  5.0x 7.0-0.3 0.5 0.79
O  MT20  3.0x 7.0-1.4-0.9 0.49
B  MT20  5.0x 5.0 Ctr Ctr 0.70
P  MT20  3.0x 7.0 Ctr Ctr 0.47
C  MT20  5.0x 5.0 Ctr Ctr 0.97
R  MT20  4.0x 8.0 Ctr Ctr 0.78
S  MT20  5.0x 7.0 0.1 0.5 0.81
D  MT20  4.0x 6.0 Ctr 0.1 0.92
L  MT20  3.0x 7.0 Ctr Ctr 0.43
J  MT20  5.0x 7.0 Ctr-0.5 0.81
I  MT20  3.0x 7.0 Ctr Ctr 0.47
H  MT20  3.0x 7.0 Ctr Ctr 0.44
Q  MT20  5.0x 7.0 Ctr-0.5 0.81
F  MT20  3.0x 7.0 Ctr Ctr 0.56

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
User-defined wind-exposed BC
  regions   --From--    ---To---
             0- 0- 0     6- 1-12
            33-10- 4    41- 8- 0
Max comp. force     1846 Lbs
Max tens. force     1320 Lbs
Quality Control Factor 1.25
```

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	A4	1	SP	410800	3	1- 6- 0	1- 6- 0	T2850064

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 330.7 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.52	2x 4	SP-#2
BC	0.41	2x 4	SP-#2
WB	0.62	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	41- 8- 0
BC	Cont.	0- 0- 0	41- 8- 0

One Continuous Lateral Brace
N -CC B -S S -C S -DD
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	156	77 U	197 R
N	1536	279 U	
G	1588	297 U	
E	246	127 U	164 R

Jt	Brg Size	Required
A	3.5"	1.5"
N	3.5"	1.6"
G	3.5"	1.7"
E	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -BB	0.36	213 T	0.04 0.32
BB-CC	0.35	303 T	0.03 0.32
CC-B	0.18	716 C	0.00 0.18
B -C	0.15	629 C	0.00 0.15
C -DD	0.15	714 C	0.00 0.15
DD-D	0.18	1122 C	0.01 0.17
D -Y	0.23	1379 C	0.01 0.22
Y -Z	0.52	595 T	0.09 0.43
Z -E	0.47	259 T	0.04 0.43
Bottom Chords			
A -N	0.20	147 C	0.00 0.20
N -AA	0.24	420 T	0.04 0.20
AA-S	0.20	420 T	0.04 0.16
S -U	0.26	945 T	0.10 0.16
U -I	0.28	1340 T	0.22 0.06
I -T	0.23	932 T	0.15 0.08
T -G	0.41	932 T	0.15 0.26
G -E	0.29	263 C	0.00 0.29
Webs			
BB-N	0.05	304 C	
N -CC	0.29	1308 C	1 Br
AA-CC	0.02	159 T	
CC-S	0.05	280 T	
B -S	0.03	222 T	1 Br
S -C	0.03	224 T	1 Br
S -DD	0.14	599 C	1 Br
U -DD	0.08	476 T	
U -D	0.23	554 C	
I -D	0.03	157 C	
I -Y	0.08	478 T	
T -Y	0.02	136 T	
Y -G	0.62	1865 C	
G -Z	0.05	477 C	

TL Defl -0.13" in G -E L/673
LL Defl -0.06" in G -E L/999
Shear // Grain in Z -E 0.27

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	0.5	0.4	0.76
BB	MT20	5.0x 7.0-0.3	0.5	0.79	
CC	MT20	4.0x 8.0	Ctr	Ctr	0.87
B	MT20	5.0x 7.0	1.0-3.4		0.69
C	MT20	5.0x 7.0-1.0-3.4			0.69
DD	MT20	3.0x 7.0	Ctr	Ctr	0.48
D	MT20	5.0x 5.0	Ctr	Ctr	0.97
Y	MT20	4.0x 8.0	Ctr	Ctr	0.79
Z	MT20	5.0x 7.0	0.1	0.5	0.81
E	MT20	4.0x 6.0	Ctr	0.1	0.92
N	MT20	3.0x 7.0	0.9	Ctr	0.56
AA	MT20	2.0x 4.0	Ctr	Ctr	0.49
S	MT20	6.0x10.0	Ctr	Ctr	0.81
U	MT20	3.0x 7.0	Ctr	Ctr	0.47
I	MT20	3.0x 7.0	Ctr	Ctr	0.44
T	MT20	5.0x 7.0	Ctr-0.5		0.81
G	MT20	3.0x 7.0	Ctr	Ctr	0.56

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions

--From--	---To---
0- 0- 0	6- 1-12
33-10- 4	41- 8- 0

Max comp. force 1865 Lbs
Max tens. force 1340 Lbs
Quality Control Factor 1.25

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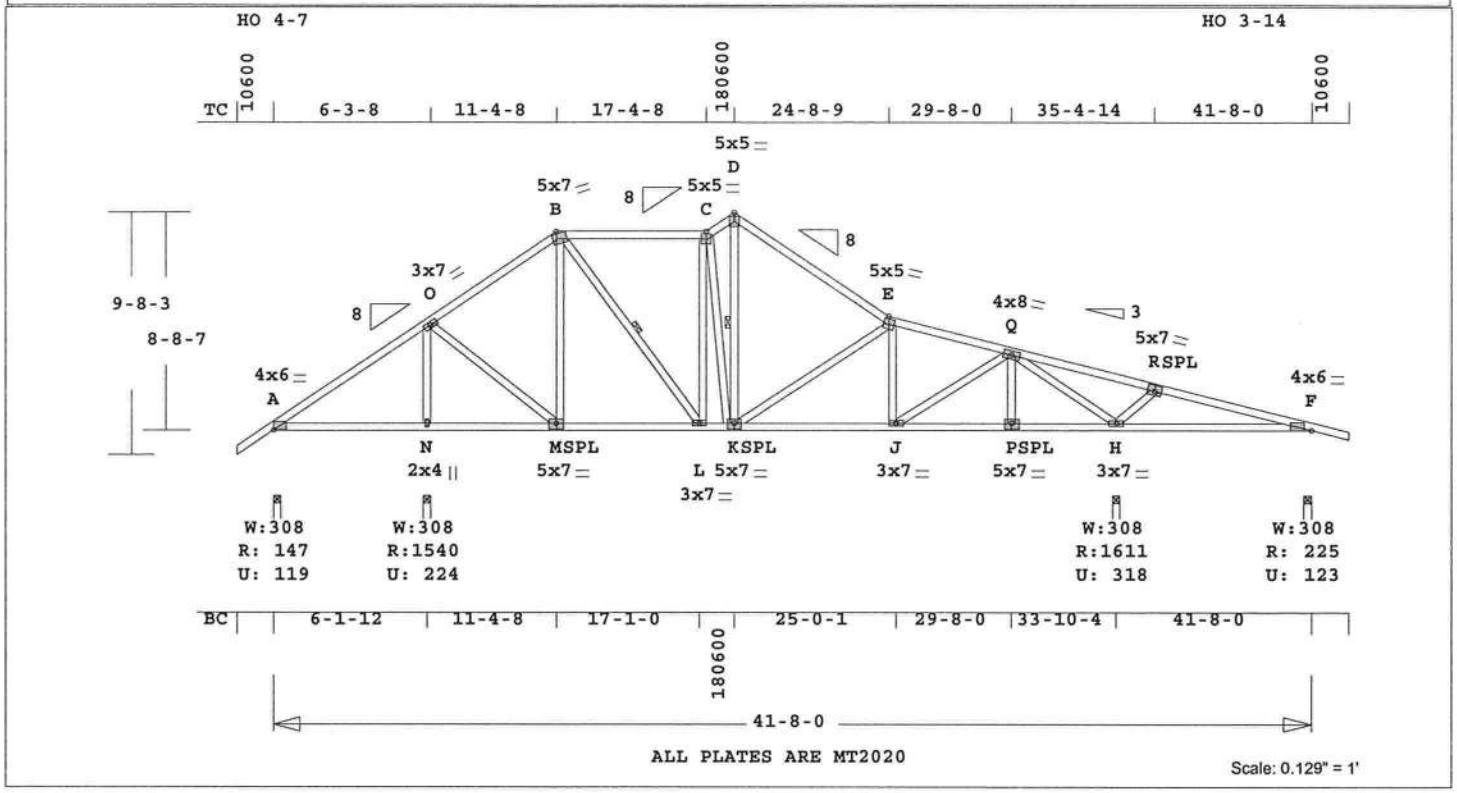
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	A5	1	SP	410800	3	1- 6- 0	1- 6- 0	T2850065

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 316.8 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.55	2x 4	SP-#2
BC	0.40	2x 4	SP-#2
WB	0.63	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	41- 8- 0
BC	Cont.	0- 0- 0	41- 8- 0

One Continuous Lateral Brace
B -L K -D
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	147	120 U	181 R
N	1541	225 U	
H	1612	318 U	
F	225	124 U	148 R

Jt	Brg Size	Required
A	3.5"	1.5"
N	3.5"	1.6"
H	3.5"	1.7"
F	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -O	0.43	273 T	0.06	0.37
O -B	0.37	590 C	0.00	0.37
B -C	0.30	805 C	0.00	0.30
C -D	0.24	877 C	0.00	0.24
D -E	0.40	922 C	0.01	0.39
E -Q	0.32	1366 C	0.01	0.31
Q -R	0.55	674 T	0.10	0.45
R -F	0.51	331 T	0.06	0.45
--------Bottom Chords---------				
A -N	0.23	213 C	0.00	0.23
N -M	0.23	213 C	0.00	0.23
M -L	0.19	483 T	0.04	0.15
L -K	0.25	812 T	0.08	0.17
K -J	0.32	1332 T	0.14	0.18
J -P	0.27	877 T	0.09	0.18
P -H	0.40	877 T	0.14	0.26
H -F	0.30	322 C	0.00	0.30
----------Webs----------				
N -O	0.31	1379 C		
O -M	0.16	873 T		
M -B	0.32	437 C		
B -L	0.09	537 T		1 Br
L -C	0.26	366 C		
C -K	0.19	255 C		
K -D	0.12	697 T		1 Br
K -E	0.46	664 C		
J -E	0.03	160 C		
J -Q	0.09	533 T		
P -Q	0.01	120 T		
Q -H	0.63	1893 C		
H -R	0.05	484 C		

TL Defl -0.13" in H -F L/680
LL Defl -0.06" in H -F L/999
Shear // Grain in R -F 0.27

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	0.5	0.4	0.76
O	MT20	3.0x 7.0	Ctr	Ctr	0.46
B	MT20	5.0x 7.0	1.6	-3.4	0.76
C	MT20	5.0x 5.0	Ctr	Ctr	0.97
D	MT20	5.0x 5.0	Ctr	Ctr	0.70
E	MT20	5.0x 5.0	Ctr	Ctr	0.97
Q	MT20	4.0x 8.0	Ctr	Ctr	0.80
R	MT20	5.0x 7.0	0.1	0.5	0.81
F	MT20	4.0x 6.0	Ctr	0.1	0.92
N	MT20	2.0x 4.0	Ctr	Ctr	0.49
M	MT20	5.0x 7.0	Ctr	-0.5	0.81
L	MT20	3.0x 7.0	Ctr	Ctr	0.50
K	MT20	5.0x 7.0	Ctr	-0.5	0.84
J	MT20	3.0x 7.0	Ctr	Ctr	0.44
P	MT20	5.0x 7.0	Ctr	-0.5	0.81
H	MT20	3.0x 7.0	Ctr	Ctr	0.57

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions

--From--	---To---
0- 0- 0	6- 1-12
33-10- 4	41- 8- 0

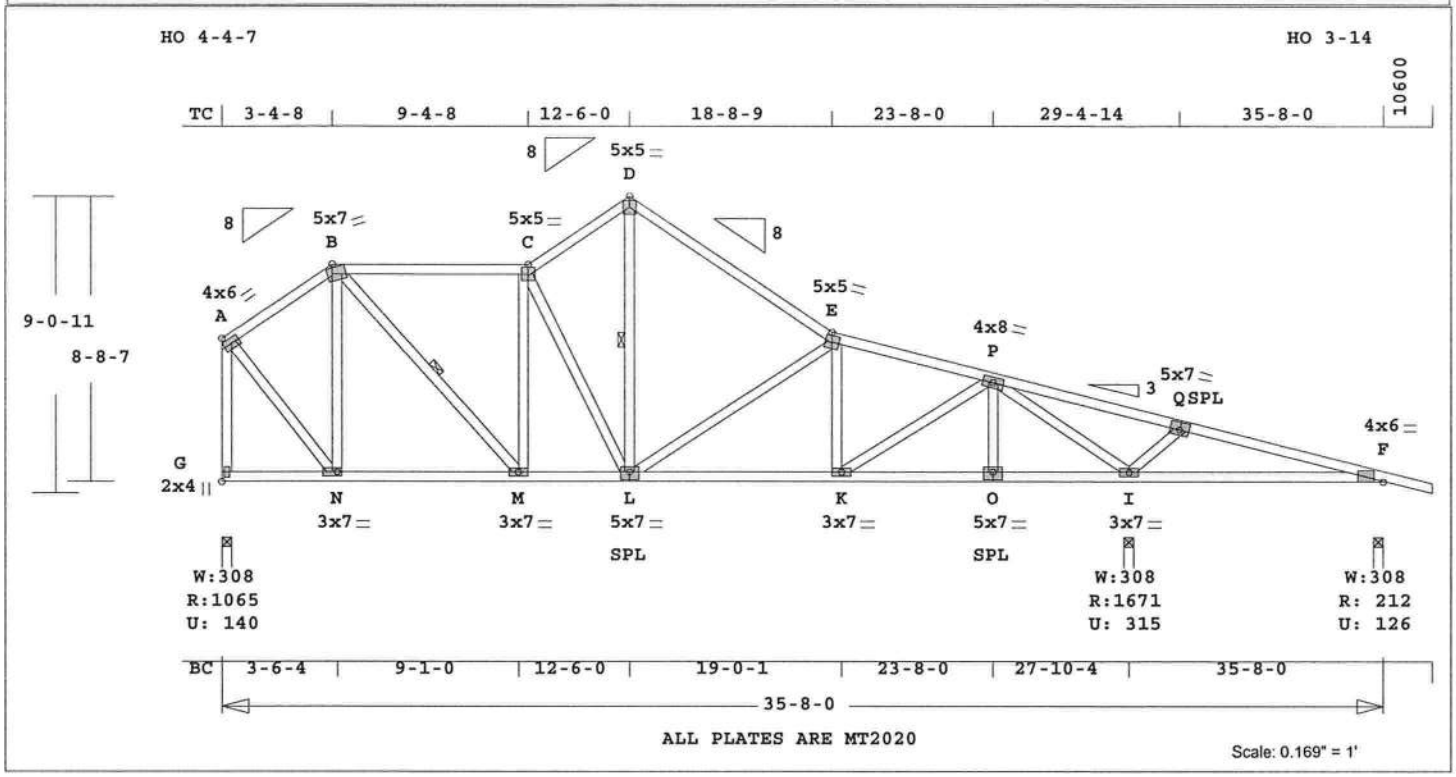
Max comp. force 1893 Lbs
Max tens. force 1332 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	A6	1	SP	350800	3	0	1- 6- 0	T2850066

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 277.1 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.56	2x 4	SP-#2
BC	0.41	2x 4	SP-#2
WB	0.66	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	35- 8- 0
BC	Cont.	0- 0- 0	35- 8- 0

One Continuous Lateral Brace
B -M L -D
Attach CLB with (2)-10d nails
at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
G	1066	141 U	230 R
I	1671	316 U	
F	213	126 U	123 R

Jt	Brg Size	Required
G	3.5"	1.5"
I	3.5"	1.8"
F	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -B	0.09	598 C	0.00	0.09
B -C	0.27	1009 C	0.01	0.26
C -D	0.22	995 C	0.00	0.22
D -E	0.41	1010 C	0.01	0.40
E -P	0.33	1446 C	0.01	0.32
P -Q	0.56	722 T	0.11	0.45
Q -F	0.51	379 T	0.06	0.45
Bottom Chords				
G -N	0.15	175 T	0.00	0.15
N -M	0.20	512 T	0.05	0.15
M -L	0.26	1016 T	0.17	0.09
L -K	0.34	1411 T	0.15	0.19
K -O	0.28	910 T	0.09	0.19
O -I	0.41	910 T	0.15	0.26
I -F	0.30	361 C	0.00	0.30
Webs				
G -A	0.23	1043 C	WindLd	
A -N	0.14	798 T		
N -B	0.25	510 C		
B -M	0.13	738 T		1 Br
M -C	0.23	464 C		
C -L	0.22	365 C		
L -D	0.14	790 T		1 Br
L -E	0.47	671 C		
K -E	0.04	187 C		
K -P	0.10	587 T		
O -P	0.01	118 T		
P -I	0.66	1991 C		
I -Q	0.05	485 C		

TL Defl -0.13" in I -F L/683
LL Defl -0.06" in I -F L/999
Shear // Grain in Q -F 0.27

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	0.1	0.1	0.74
B	MT20	5.0x 7.0	1.6-3.4		0.70
C	MT20	5.0x 5.0	Ctr	Ctr	0.90
D	MT20	5.0x 5.0	Ctr	Ctr	0.65
E	MT20	5.0x 5.0	Ctr	Ctr	0.90
P	MT20	4.0x 8.0	Ctr	Ctr	0.84
Q	MT20	5.0x 7.0	0.1	0.5	0.74
F	MT20	4.0x 6.0	Ctr	0.1	0.85
G	MT20	2.0x 4.0	Ctr	Ctr	0.50
N	MT20	3.0x 7.0	Ctr	Ctr	0.48
M	MT20	3.0x 7.0	Ctr	Ctr	0.46
L	MT20	5.0x 7.0	Ctr-0.5		0.75
K	MT20	3.0x 7.0	Ctr	Ctr	0.42
O	MT20	5.0x 7.0	Ctr-0.5		0.75
I	MT20	3.0x 7.0	Ctr	Ctr	0.60

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:

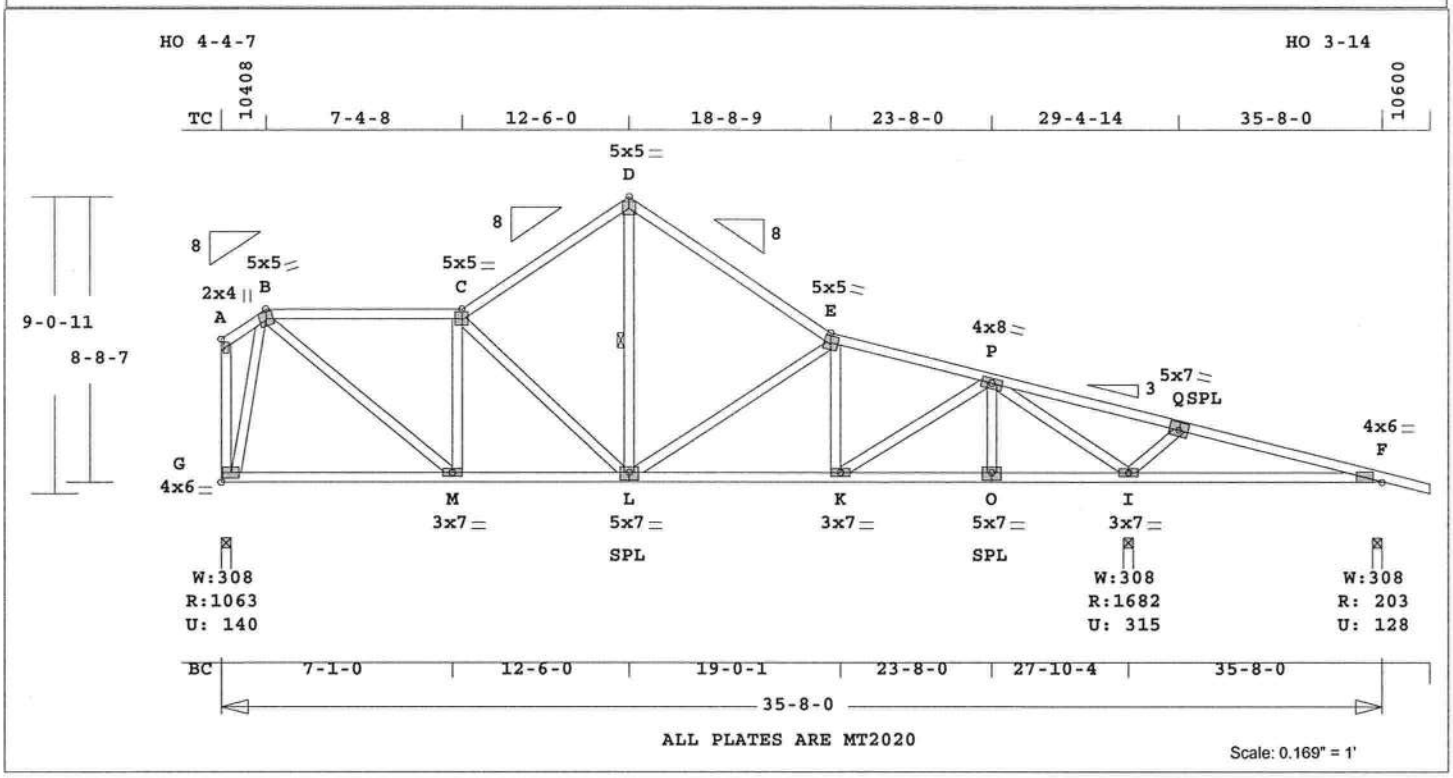
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
27-10- 4 35- 8- 0
Max comp. force 1991 Lbs
Max tens. force 1411 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***A7***	1	SP	350800	3	0	1- 6- 0	*T2850067*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 261.7 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.56	2x 4	SP-#2
BC	0.41	2x 4	SP-#2
WB	0.67	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	35- 8- 0
BC	Cont.	0- 0- 0	35- 8- 0

One Continuous Lateral Brace
L -D
Attach CLB with (2)-10d nails
at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
G	1063	141 U	229 R
I	1682	316 U	
F	204	128 U	123 R

Jt	Brg Size	Required
G	3.5"	1.5"
I	3.5"	1.8"
F	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.18	137 C	0.00 0.18
B -C	0.27	1130 C	0.00 0.27
C -D	0.26	1003 C	0.00 0.26
D -E	0.39	1007 C	0.01 0.38
E -P	0.32	1434 C	0.01 0.31
P -Q	0.56	757 T	0.11 0.45
Q -F	0.52	413 T	0.07 0.45
--------Bottom Chords---------			
G -M	0.28	213 T	0.01 0.27
M -L	0.38	1141 T	0.12 0.26
L -K	0.33	1398 T	0.23 0.10
K -O	0.28	891 T	0.09 0.19
O -I	0.41	891 T	0.14 0.27
I -F	0.30	391 C	0.00 0.30
----------Webs----------			
G -A	0.08	161 C	WindLd
G -B	0.28	888 C	
B -M	0.25	1175 T	
M -C	0.18	596 C	
C -L	0.25	401 C	
L -D	0.13	740 T	1 Br
L -E	0.46	656 C	
K -E	0.04	192 C	
K -P	0.10	594 T	
O -P	0.01	118 T	
P -I	0.67	2010 C	
I -Q	0.05	485 C	

TL Defl -0.13" in I -F L/683
LL Defl -0.06" in I -F L/999
Shear // Grain in Q -F 0.27

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.50
B	MT20	5.0x 5.0	0.1	-3.7	0.97
C	MT20	5.0x 5.0	Ctr	Ctr	0.90
D	MT20	5.0x 5.0	Ctr	Ctr	0.65
E	MT20	5.0x 5.0	Ctr	Ctr	0.90
P	MT20	4.0x 8.0	Ctr	Ctr	0.85
Q	MT20	5.0x 7.0	0.1	0.5	0.74
F	MT20	4.0x 6.0	Ctr	0.1	0.85
G	MT20	4.0x 6.0	Ctr	Ctr	0.74
M	MT20	3.0x 7.0	Ctr	Ctr	0.44
L	MT20	5.0x 7.0	Ctr	-0.5	0.75
K	MT20	3.0x 7.0	Ctr	Ctr	0.42
O	MT20	5.0x 7.0	Ctr	-0.5	0.75
I	MT20	3.0x 7.0	Ctr	Ctr	0.60

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

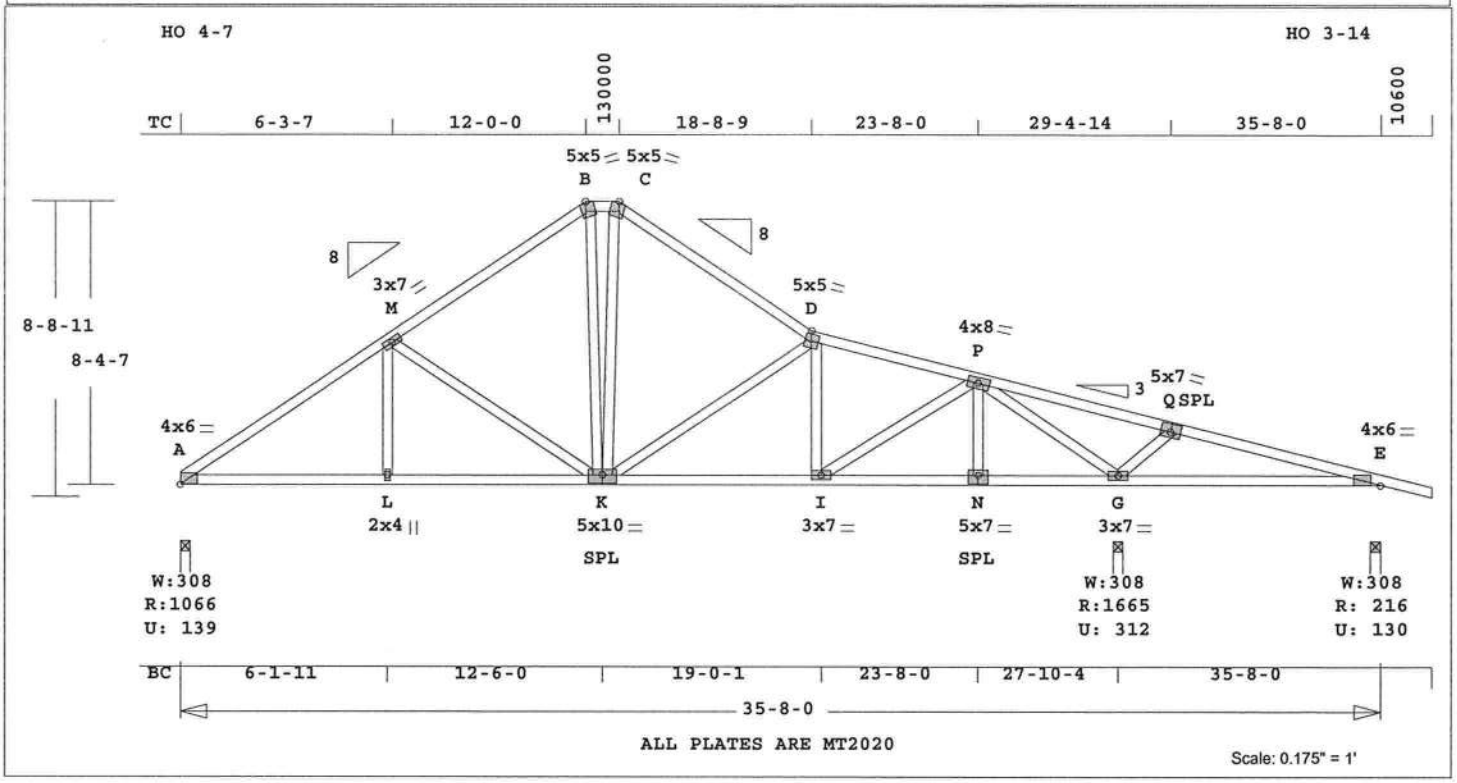
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
27-10- 4 35- 8- 0
Max comp. force 2010 Lbs
Max tens. force 1398 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*A8*	1	SP	350800	3	0	1- 6- 0	*T2850068*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 245.9 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.56	2x 4	SP-#2
BC	0.41	2x 4	SP-#2
WB	0.66	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	35- 8- 0
BC	Cont.	0- 0- 0	35- 8- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1067	139 U	172 R
G	1666	313 U	
E	217	131 U	136 R

Jt	Brg Size	Required
A	3.5"	1.5"
G	3.5"	1.8"
E	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -M	0.35	1482 C	0.01 0.34
M -B	0.34	1040 C	0.00 0.34
B -C	0.15	875 C	0.05 0.10
C -D	0.36	1026 C	0.01 0.35
D -P	0.30	1447 C	0.01 0.29
P -Q	0.56	706 T	0.11 0.45
Q -E	0.51	363 T	0.06 0.45
Bottom Chords			
A -L	0.32	1239 T	0.13 0.19
L -K	0.35	1239 T	0.13 0.22
K -I	0.37	1410 T	0.23 0.14
I -N	0.26	920 T	0.09 0.17
N -G	0.41	920 T	0.15 0.26
G -E	0.30	355 C	0.00 0.30
Webs			
L -M	0.03	247 T	
M -K	0.31	456 C	
B -K	0.13	422 T	
K -C	0.07	331 T	
K -D	0.44	655 C	
I -D	0.04	187 C	
I -P	0.10	574 T	
N -P	0.01	122 T	
P -G	0.66	1985 C	
G -Q	0.05	484 C	

TL Defl -0.13" in G -E L/681
LL Defl -0.06" in G -E L/999
Shear // Grain in Q -E 0.27

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	0.5	0.4	0.70
M	MT20	3.0x 7.0	Ctr	Ctr	0.44
B	MT20	5.0x 5.0	0.9	-3.1	0.64
C	MT20	5.0x 5.0	-0.9	-3.1	0.64
D	MT20	5.0x 5.0	Ctr	Ctr	0.90
P	MT20	4.0x 8.0	Ctr	Ctr	0.84
Q	MT20	5.0x 7.0	0.1	0.5	0.74
E	MT20	4.0x 6.0	Ctr	0.1	0.85
L	MT20	2.0x 4.0	Ctr	Ctr	0.45
K	MT20	5.0x10.0	Ctr	-0.5	0.75
I	MT20	3.0x 7.0	Ctr	Ctr	0.42
N	MT20	5.0x 7.0	Ctr	-0.5	0.75
G	MT20	3.0x 7.0	Ctr	Ctr	0.60

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.

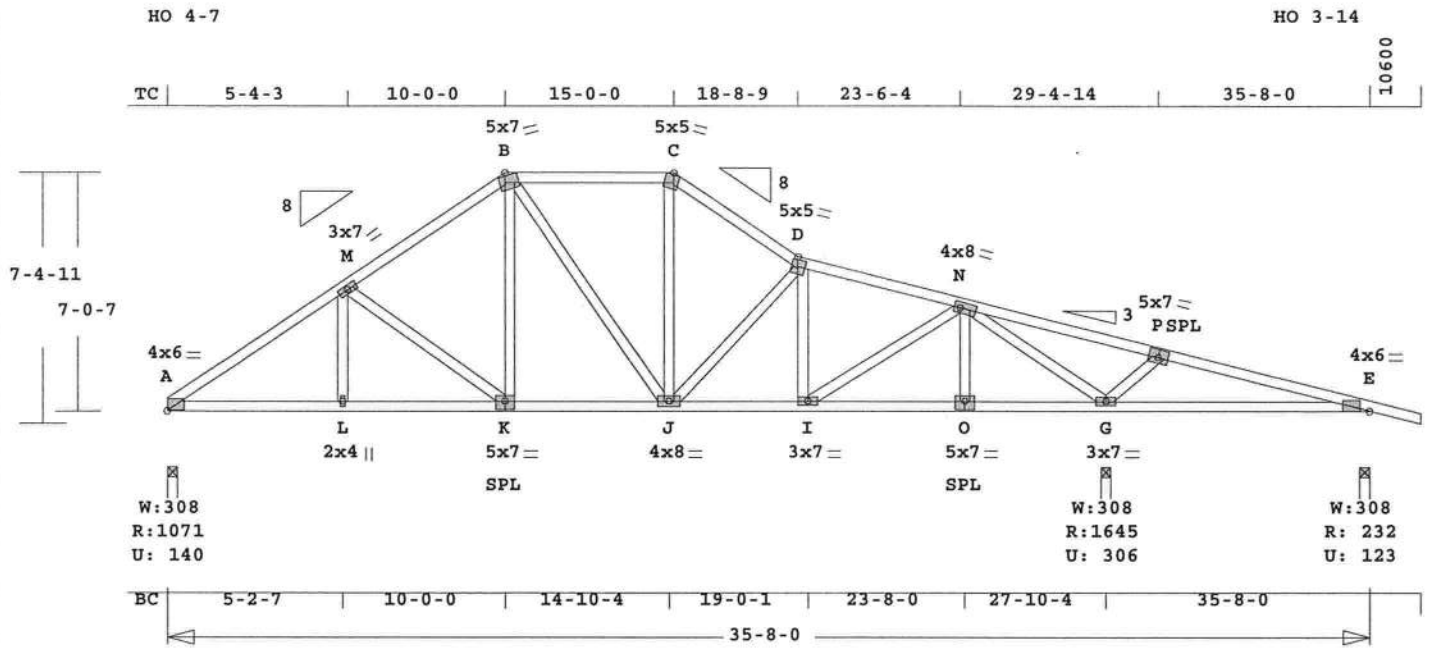
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
27-10- 4 35- 8- 0
Max comp. force 1985 Lbs
Max tens. force 1410 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*A9*	1	SP	350800	3	0	1- 6- 0	*T2850069*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 247.0 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.53	2x 4	SP-#2
BC	0.42	2x 4	SP-#2
WB	0.65	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	35- 8- 0
BC	Cont.	0- 0- 0	35- 8- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1071	141 U	141 R
G	1645	307 U	
E	233	124 U	105 R

Jt	Brg Size	Required
A	3.5"	1.5"
G	3.5"	1.8"
E	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -M	0.22	1525 C	0.06 0.16
M -B	0.22	1194 C	0.06 0.16
B -C	0.21	1040 C	0.00 0.21
C -D	0.16	1231 C	0.00 0.16
D -N	0.23	1450 C	0.01 0.22
N -P	0.53	644 T	0.10 0.43
P -E	0.48	304 T	0.05 0.43
Bottom Chords			
A -L	0.26	1268 T	0.21 0.05
L -K	0.28	1268 T	0.21 0.07
K -J	0.23	989 T	0.16 0.07
J -I	0.28	1409 T	0.23 0.05
I -O	0.24	962 T	0.16 0.08
O -G	0.42	962 T	0.16 0.26
G -E	0.29	281 C	0.00 0.29
Webs			
L -M	0.02	194 T	
M -K	0.15	336 C	
K -B	0.05	341 T	
B -J	0.05	89 T	
J -C	0.07	403 T	
J -D	0.21	531 C	
I -D	0.04	184 C	
I -N	0.09	523 T	
O -N	0.02	136 T	
N -G	0.65	1961 C	
G -P	0.05	477 C	

TL Defl -0.13" in G -E L/674
LL Defl -0.06" in G -E L/999
Shear // Grain in P -E 0.27

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	0.5	0.4	0.70
M	MT20	3.0x 7.0	Ctr	Ctr	0.44
B	MT20	5.0x 7.0	1.6	-3.4	0.70
C	MT20	5.0x 5.0	-0.9	-3.1	0.64
D	MT20	5.0x 5.0	Ctr	Ctr	0.90
N	MT20	4.0x 8.0	Ctr	Ctr	0.83
P	MT20	5.0x 7.0	0.1	0.5	0.74
E	MT20	4.0x 6.0	Ctr	0.1	0.85
L	MT20	2.0x 4.0	Ctr	Ctr	0.45
K	MT20	5.0x 7.0	Ctr	-0.5	0.75
J	MT20	4.0x 8.0	Ctr	Ctr	0.44
I	MT20	3.0x 7.0	Ctr	Ctr	0.42
O	MT20	5.0x 7.0	Ctr	-0.5	0.75
G	MT20	3.0x 7.0	Ctr	Ctr	0.59

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

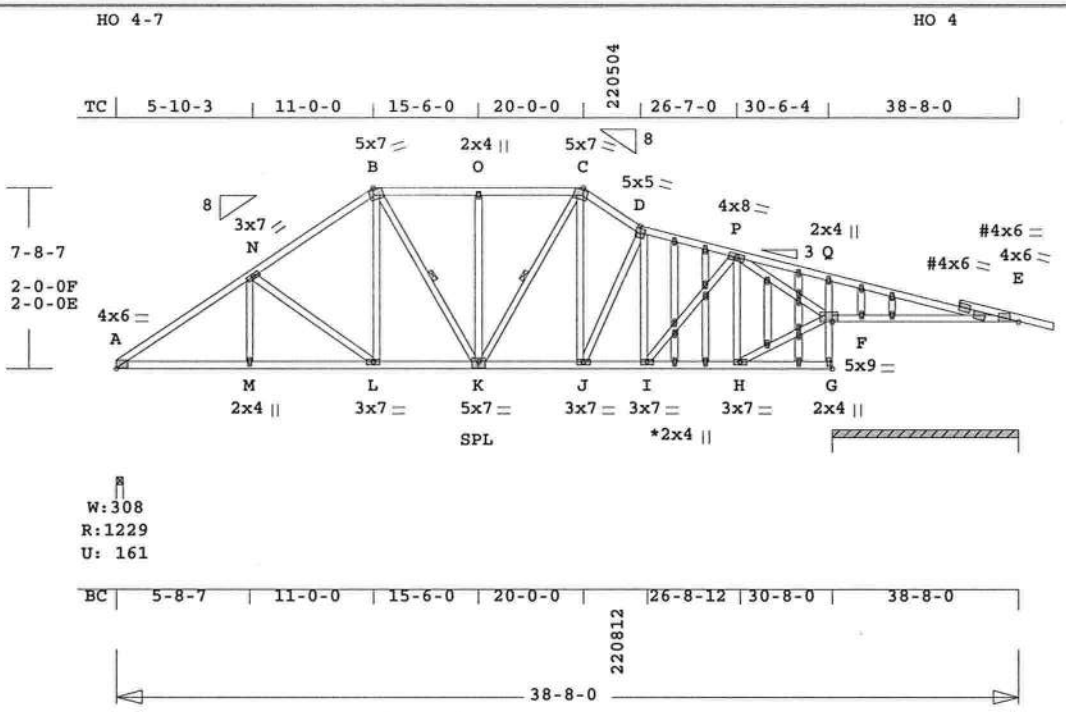
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
27-10- 4 35- 8- 0
Max comp. force 1961 Lbs
Max tens. force 1409 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*A10*	1	SP	380800	3	0	0	*T2850070*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020, # = PLATE SELECTED IN PLATE MONITOR

See * For Typical Gable Plate Size and Placement

Scale: 0.121" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 346.7 LBS

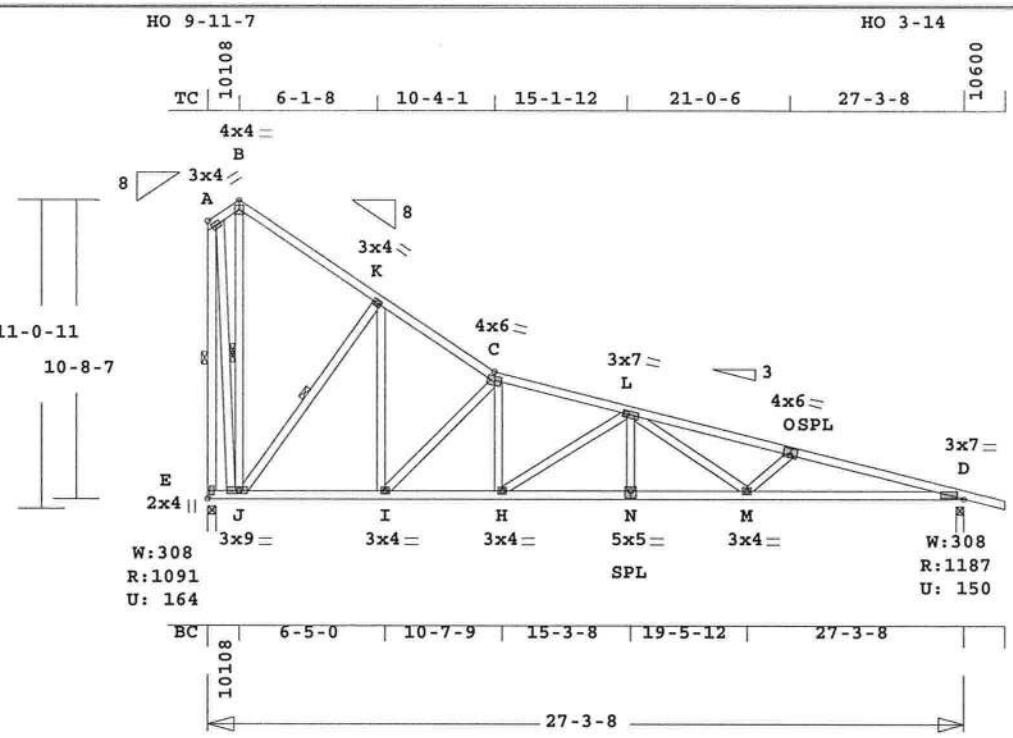
```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.51  2x 4  SP-#2
BC  0.31  2x 4  SP-#2
CW  0.37  2x 4  SP-#2
WB  0.25  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0 38- 8- 0
 BC  Cont.    0- 0- 0 38- 8- 0
One Continuous Lateral Brace
  B -K   K -C
Attach CLB with (2)-10d nails
  at each web.

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A   1230   161 U   140 R
Q   1864   251 U   103 R

Jt   Brg Size    Required
A       3.5"        1.5"
Q      96.0"    368"-to- 464"

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -N  0.28  1778 C  0.08  0.20
N -B  0.27  1407 C  0.07  0.20
B -O  0.22  1270 C  0.01  0.21
O -C  0.22  1270 C  0.01  0.21
C -D  0.17  1354 C  0.01  0.16
D -P  0.14  1301 C  0.07  0.07
P -Q  0.17   199 T  0.00  0.17
Q -E  0.51   218 C  0.00  0.51
--------Bottom Chords---------
A -M  0.30  1480 T  0.24  0.06
M -L  0.31  1480 T  0.24  0.07
L -K  0.26  1164 T  0.19  0.07
K -J  0.24  1146 T  0.19  0.05
J -I  0.24  1266 T  0.21  0.03
I -H  0.21   916 T  0.15  0.06
H -G  0.10    41 C  0.00  0.10
F -E  0.31   189 T  0.03  0.28
----------Chord-Webs----------
G -F  0.14    61 T  0.00  0.14
F -Q  0.37  1153 T  0.21  0.16
-------------Webs-------------
M -N  0.03   219 T
N -L  0.20   382 C
L -B  0.05   359 T
B -K  0.03   208 T        1 Br
K -O  0.20   301 C
K -C  0.04   243 T        1 Br
J -C  0.09   321 T
J -D  0.13   269 C
I -D  0.14   350 C
I -P  0.09   534 T
H -P  0.11   389 C
P -F  0.25   939 C
H -F  0.19  1066 T

TL Defl  -0.12" in M -L  L/999
LL Defl  -0.05" in L -K  L/999
Shear // Grain  in Q -E   0.28

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X    Y   JSI
A  MT20  4.0x 6.0 0.5  0.4 0.73
N  MT20  3.0x 7.0 Ctr  Ctr 0.45
B  MT20  5.0x 7.0 1.6-3.4 0.73
O  MT20  2.0x 4.0 Ctr  Ctr 0.47
C  MT20  5.0x 7.0-1.6-3.4 0.73
D  MT20  5.0x 5.0 Ctr  Ctr 0.93
P  MT20  4.0x 8.0 Ctr  Ctr 0.53
Q  MT20  2.0x 4.0 Ctr  Ctr 0.70
E  MT20  4.0x 6.0 Ctr-0.3 0.94
M  MT20  2.0x 4.0 Ctr  Ctr 0.47
L  MT20  3.0x 7.0 Ctr  Ctr 0.44
K  MT20  5.0x 7.0 Ctr-0.5 0.78
J  MT20  3.0x 7.0 Ctr  Ctr 0.55
I  MT20  3.0x 7.0 Ctr  Ctr 0.48
H  MT20  3.0x 7.0 Ctr  Ctr 0.44
G  MT20  2.0x 4.0 Ctr  Ctr 0.58
F  MT20  5.0x 9.0 Ctr  0.8 0.67

 10 Gable studs to be attached
with 2.0x4.0 plates each end.
REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.

Analysis Conforms To:
  FBC2004
WARNING  Do Not Cut overframe
  member between outside of
  truss and first tie-plate
  to inside of heel plate.
Design checked for 10 psf non-
  concurrent LL on BC.
Refer to Gen Det 3 series for
  web bracing and plating.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:         5.0 psf
  BC Dead Load:         5.0 psf
Max comp. force     1778 Lbs
Max tens. force     1480 Lbs
Quality Control Factor 1.25
```


Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*A11*	1	PCH3	270308	8	0	1- 6- 0	*T2850071*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 241.9 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.42	2x 4	SP-#2
BC	0.73	2x 4	SP-#2
WB	0.53	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	27- 3- 8
BC	Cont.	0- 0- 0	27- 3- 8

One Continuous Lateral Brace
E -A A -J J -B J -K
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
E	1092	164 U	352 R
D	1188	150 U	151 R

Jt	Brg Size	Required
E	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -A	0.00	4 T	
A -B	0.09	240 T	0.03 0.06
B -K	0.30	219 C	0.00 0.30
K -C	0.30	889 C	0.00 0.30
C -L	0.25	1717 C	0.01 0.24
L -O	0.42	3063 C	0.12 0.30
O -D	0.40	3365 C	0.12 0.28
Bottom Chords			
E -J	0.08	272 T	0.03 0.05
J -I	0.24	767 T	0.12 0.12
I -H	0.37	1654 T	0.27 0.10
H -N	0.47	2422 T	0.40 0.07
N -M	0.45	2422 T	0.40 0.05
M -D	0.73	3270 T	0.54 0.19
Webs			
E -A	0.51	1043 C	WindLd 1 Br
A -J	0.18	993 T	1 Br
J -B	0.03	175 T	1 Br
J -K	0.28	1124 C	1 Br
I -K	0.20	992 T	
I -C	0.53	1244 C	
H -C	0.10	556 T	
H -L	0.35	893 C	
N -L	0.02	165 T	
L -M	0.12	676 T	
M -O	0.04	407 C	

TL Defl -0.36" in M -D L/888
LL Defl -0.18" in N -M L/999
Shear // Grain in L -O 0.22

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.79
B	MT20	4.0x 4.0	Ctr	Ctr	0.71
K	MT20	3.0x 4.0	Ctr	Ctr	0.84
C	MT20	4.0x 6.0	Ctr	Ctr	0.99
L	MT20	3.0x 7.0	Ctr	Ctr	0.64
O	MT20	4.0x 6.0	0.2	1.0	0.65
D	MT20	3.0x 7.0	Ctr	Ctr	0.86
E	MT20	2.0x 4.0	Ctr	Ctr	0.39
J	MT20	3.0x 9.0	0.9	Ctr	0.52
I	MT20	3.0x 4.0	Ctr	Ctr	0.70
H	MT20	3.0x 4.0	Ctr	Ctr	0.59
N	MT20	5.0x 5.0	Ctr	-0.5	0.66
M	MT20	3.0x 4.0	Ctr	Ctr	0.50

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

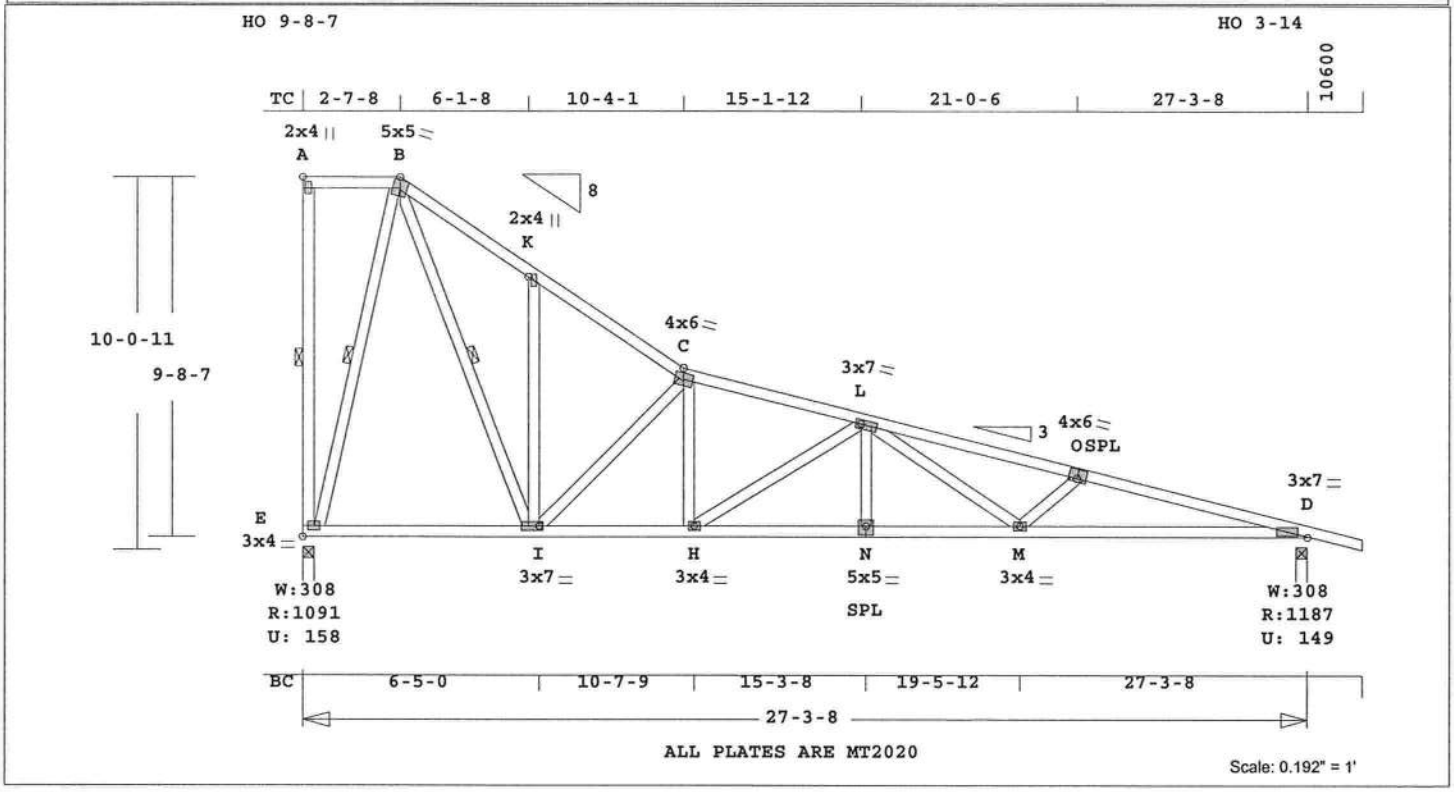
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 3365 Lbs
Max tens. force 3270 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	A12	1	SP	270308	3	0	1- 6- 0	T2850072

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 222.9 LBS

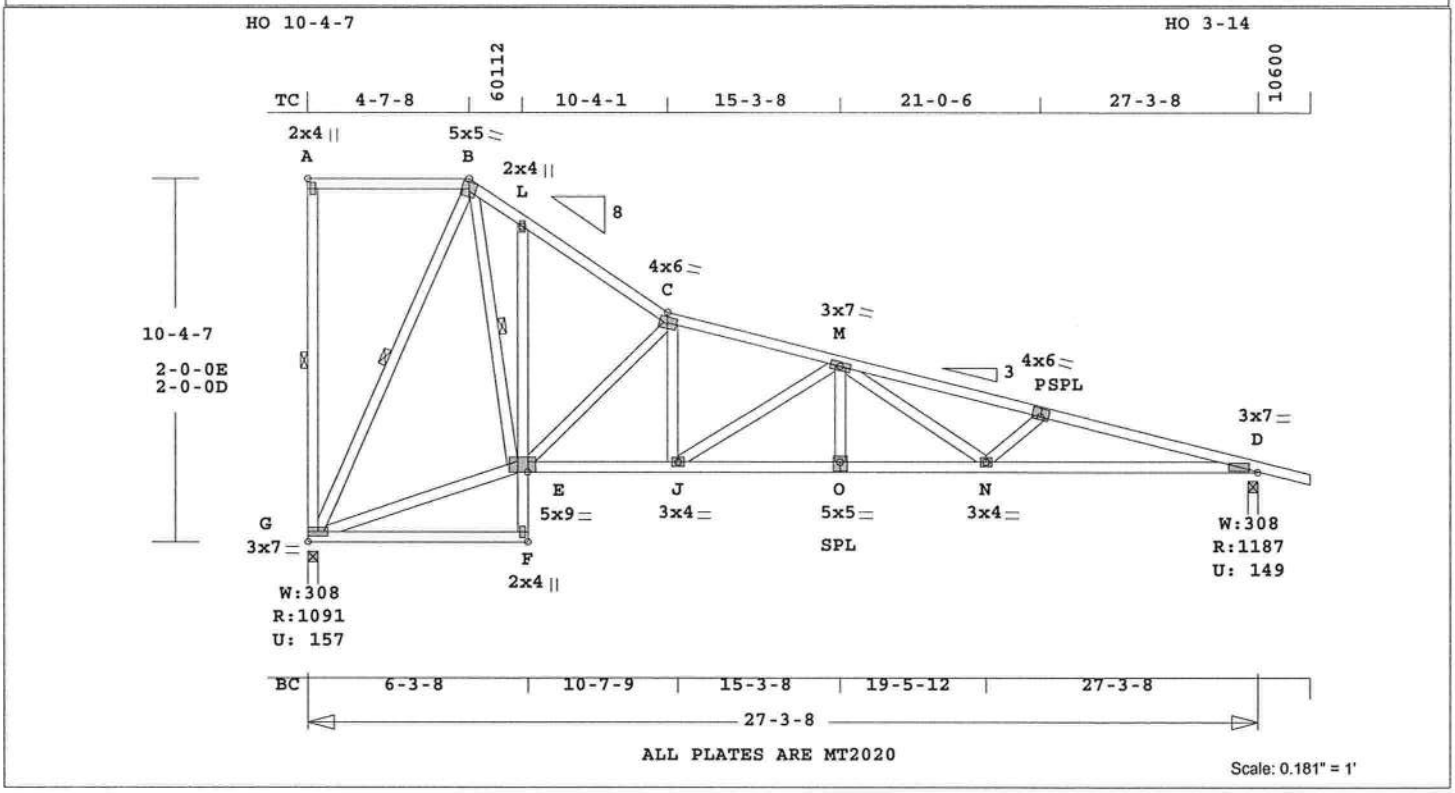
```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.42  2x 4  SP-#2
BC  0.73  2x 4  SP-#2
WB  0.54  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0 27- 3- 8
 BC  Cont.    0- 0- 0 27- 3- 8
One Continuous Lateral Brace
  E -A   E -B   B -I
Attach CLB with (2)-10d nails
  at each web.

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
E   1092   158 U   326 R
D   1188   149 U   130 R

Jt   Brg Size   Required
E       3.5"       1.5"
D       3.5"       1.5"

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -B  0.15   182 T  0.00  0.15
B -K  0.19   905 C  0.00  0.19
K -C  0.22   889 C  0.00  0.22
C -L  0.28  1719 C  0.01  0.27
L -O  0.42  3063 C  0.12  0.30
O -D  0.40  3365 C  0.12  0.28
--------Bottom Chords---------
E -I  0.22   245 T  0.02  0.20
I -H  0.38  1657 T  0.27  0.11
H -N  0.47  2421 T  0.40  0.07
N -M  0.45  2421 T  0.40  0.05
M -D  0.73  3270 T  0.54  0.19
-------------Webs-------------
E -A  0.43   108 C WindLd 1 Br
E -B  0.30   960 C        1 Br
B -I  0.25  1364 T        1 Br
I -K  0.16   271 C
I -C  0.54  1264 C
H -C  0.10   551 T
H -L  0.34   887 C
N -L  0.02   168 T
L -M  0.12   677 T
M -O  0.04   409 C

TL Defl  -0.36" in M -D  L/891
LL Defl  -0.18" in N -M  L/999
Shear // Grain  in L -O   0.22

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  2.0x 4.0 Ctr Ctr 0.39
B  MT20  5.0x 5.0-0.1-3.7 0.80
K  MT20  2.0x 4.0 Ctr Ctr 0.39
C  MT20  4.0x 6.0 Ctr Ctr 0.99
L  MT20  3.0x 7.0 Ctr Ctr 0.64
O  MT20  4.0x 6.0 0.2 1.0 0.65
D  MT20  3.0x 7.0 Ctr Ctr 0.86
E  MT20  3.0x 4.0 Ctr Ctr 0.79
I  MT20  3.0x 7.0-0.5 Ctr 0.98
H  MT20  3.0x 4.0 Ctr Ctr 0.59
N  MT20  5.0x 5.0 Ctr-0.5 0.66
M  MT20  3.0x 4.0 Ctr Ctr 0.50

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:          5.0 psf
  BC Dead Load:          5.0 psf
Max comp. force      3365 Lbs
Max tens. force      3270 Lbs
Quality Control Factor 1.25
```

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*A13*	1	SP	270308	3	0	1- 6- 0	*T2850073*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 237.7 LBS

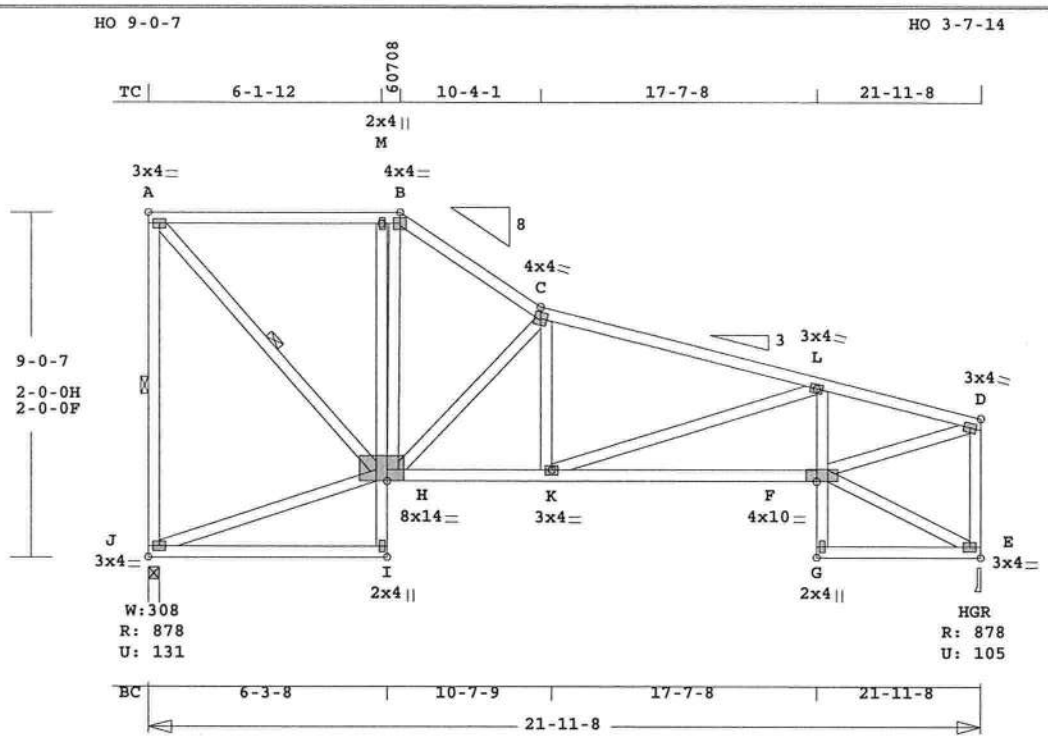
```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.42  2x 4  SP-#2
BC  0.73  2x 4  SP-#2
CW  0.05  2x 4  SP-#2
WB  0.56  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0 27- 3- 8
 BC  Cont.    0- 0- 0 27- 3- 8
One Continuous Lateral Brace
  G -A   G -B   B -E
Attach CLB with (2)-10d nails
  at each web.

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
G   1092   158 U   328 R
D   1188   150 U   119 R

Jt   Brg Size   Required
G       3.5"       1.5"
D       3.5"       1.5"

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -B  0.26   196 T  0.00  0.26
B -L  0.26   838 C  0.00  0.26
L -C  0.24   856 C  0.00  0.24
C -M  0.29  1724 C  0.01  0.28
M -P  0.42  3063 C  0.12  0.30
P -D  0.40  3366 C  0.12  0.28
--------Bottom Chords---------
G -F  0.28     7 C  0.00  0.28
E -J  0.32  1662 T  0.27  0.05
J -O  0.46  2419 T  0.40  0.06
O -N  0.45  2419 T  0.40  0.05
N -D  0.73  3270 T  0.54  0.19
----------Chord-Webs----------
F -E  0.03   119 T  0.01  0.02
E -L  0.05   201 C  0.00  0.05
-------------Webs-------------
G -A  0.51   142 C WindLd 1 Br
G -B  0.46  1151 C         1 Br
G -E  0.09   502 T
B -E  0.24  1307 T         1 Br
E -C  0.56  1292 C
J -C  0.10   567 T
J -M  0.34   880 C
O -M  0.02   160 T
M -N  0.12   679 T
N -P  0.04   409 C

TL Defl  -0.36" in N -D  L/889
LL Defl  -0.18" in O -N  L/999
Shear // Grain  in M -P   0.22

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  2.0x 4.0 Ctr Ctr 0.39
B  MT20  5.0x 5.0-0.1-3.7 0.88
L  MT20  2.0x 4.0 Ctr Ctr 0.22
C  MT20  4.0x 6.0 Ctr Ctr 0.99
M  MT20  3.0x 7.0 Ctr Ctr 0.64
P  MT20  4.0x 6.0 0.2 1.0 0.65
D  MT20  3.0x 7.0 Ctr Ctr 0.86
G  MT20  3.0x 7.0 Ctr Ctr 0.79
F  MT20  2.0x 4.0 Ctr Ctr 0.58
E  MT20  5.0x 9.0 Ctr 0.8 0.56
J  MT20  3.0x 4.0 Ctr Ctr 0.59
O  MT20  5.0x 5.0 Ctr-0.5 0.66
N  MT20  3.0x 4.0 Ctr Ctr 0.50

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:          5.0 psf
  BC Dead Load:          5.0 psf
Max comp. force     3366 Lbs
Max tens. force     3270 Lbs
Quality Control Factor 1.25
```


Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
SPARKS-LOT97	*A14*	1	SP	211108	3	0	0	*T2850074*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020

Scale: 0.197" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 218.1 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.43	2x 4	SP-#2
BC	0.37	2x 4	SP-#2
CW	0.15	2x 4	SP-#2
WB	0.43	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	21-11- 8
BC	Cont.	0- 0- 0	21-11- 8

One Continuous Lateral Brace
J -A A -H
Attach CLB with (2)-10d nails
at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
J	878	131 U	299 R
E	878	105 U	179 R

Jt	Brg Size	Required
J	3.5"	1.5"
E	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -M	0.38	577 C	0.00 0.38
M -B	0.26	579 C	0.00 0.26
B -C	0.14	661 C	0.04 0.10
C -L	0.43	1203 C	0.02 0.41
L -D	0.41	1306 C	0.01 0.40
--------Bottom Chords---------			
J -I	0.28	3 T	0.00 0.28
H -K	0.34	1162 T	0.12 0.22
K -F	0.37	1303 T	0.13 0.24
G -E	0.12	31 C	0.00 0.12
----------Chord-Webs----------			
I -H	0.02	119 T	0.01 0.01
H -M	0.10	475 C	0.08 0.02
G -F	0.12	80 T	0.01 0.11
F -L	0.15	327 C	0.00 0.15
------------Webs------------			
J -A	0.43	814 C	WindLd 1 Br
J -H	0.05	253 T	
A -H	0.16	869 T	1 Br
H -B	0.16	492 T	
H -C	0.34	840 C	
K -C	0.04	290 T	
K -L	0.10	144 C	
F -E	0.02	155 T	
F -D	0.25	1355 T	
E -D	0.13	837 C	WindLd

TL Defl -0.16" in J -I L/999
LL Defl -0.08" in J -I L/999
Shear // Grain in M -M 0.35

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.71
M	MT20	2.0x 4.0	Ctr	Ctr	0.29
B	MT20	4.0x 4.0	Ctr	Ctr	0.89
C	MT20	4.0x 4.0	Ctr	Ctr	0.89
L	MT20	3.0x 4.0	Ctr	Ctr	0.43
D	MT20	3.0x 4.0	Ctr	Ctr	0.73
J	MT20	3.0x 4.0	Ctr	Ctr	0.71
I	MT20	2.0x 4.0	Ctr	Ctr	0.58
H	MT20	8.0x14.0	Ctr	2.2	0.51
K	MT20	3.0x 4.0	Ctr	Ctr	0.53
F	MT20	4.0x10.0	Ctr	0.2	0.72
G	MT20	2.0x 4.0	Ctr	Ctr	0.58
E	MT20	3.0x 4.0	Ctr	Ctr	0.71

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL

NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

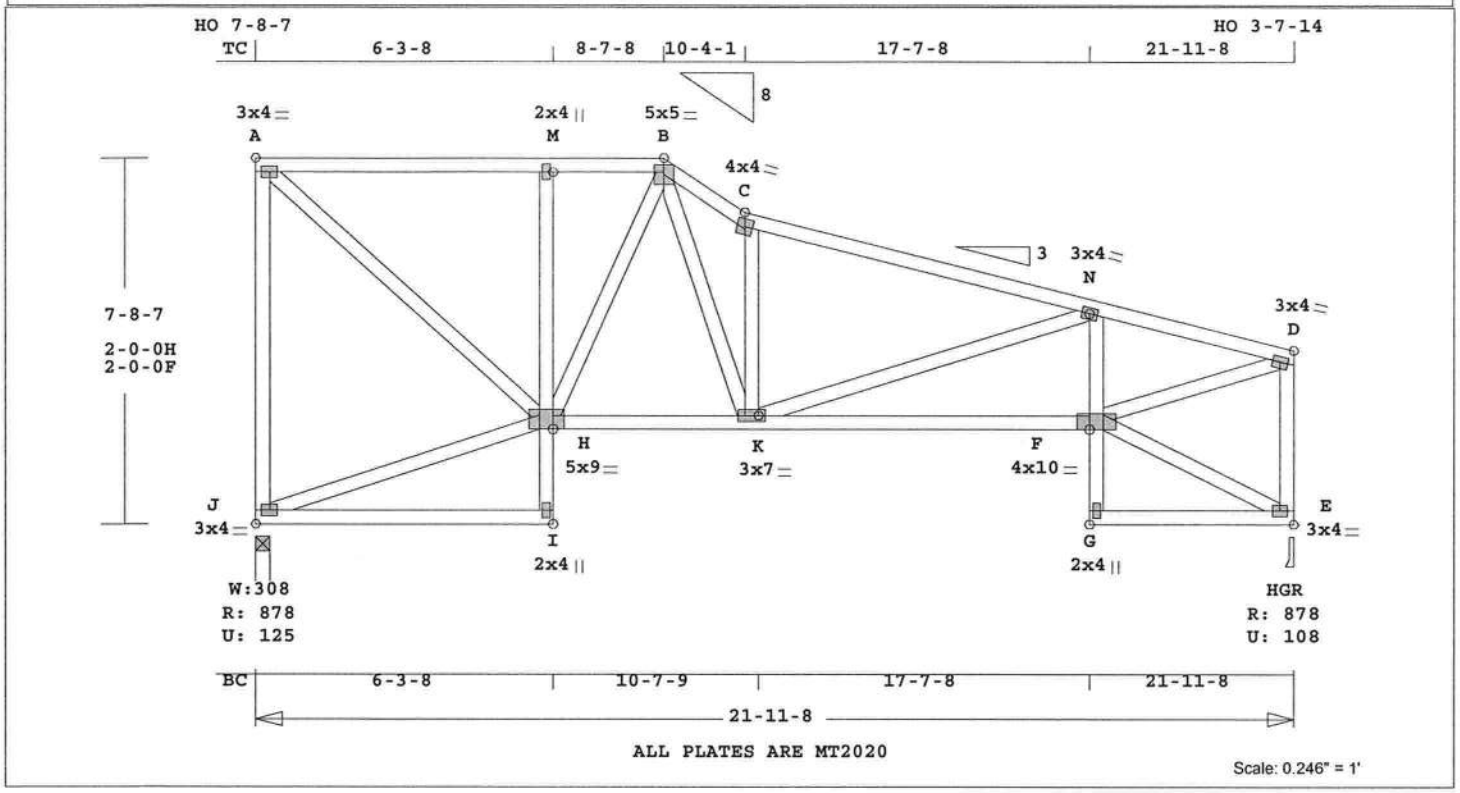
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1306 Lbs
Max tens. force 1355 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*A15*	1	SP	211108	3	0	0	*T2850075*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 208.8 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.45	2x 4	SP-#2
BC	0.37	2x 4	SP-#2
CW	0.15	2x 4	SP-#2
WB	0.56	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	21-11- 8
BC	Cont.	0- 0- 0	21-11- 8

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
J	878	125 U	250 R
E	878	109 U	154 R

Jt	Brg Size	Required
J	3.5"	1.5"
E	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -M	0.35	729 C	0.00 0.35
M -B	0.35	731 C	0.00 0.35
B -C	0.17	1386 C	0.09 0.08
C -N	0.45	1197 C	0.02 0.43
N -D	0.43	1310 C	0.01 0.42
Bottom Chords			
J -I	0.28	3 T	0.00 0.28
H -K	0.30	824 T	0.08 0.22
K -F	0.37	1308 T	0.13 0.24
G -E	0.12	32 C	0.00 0.12
Chord-Webs			
I -H	0.02	119 T	0.01 0.01
H -M	0.05	377 C	0.02 0.03
G -F	0.12	80 T	0.01 0.11
F -N	0.15	327 C	0.00 0.15
Webs			
J -A	0.56	814 C	WindLd
J -H	0.04	221 T	
A -H	0.26	982 T	
H -B	0.09	213 C	
B -K	0.21	978 T	
K -C	0.17	739 C	
K -N	0.11	157 C	
F -E	0.01	127 T	
F -D	0.25	1359 T	
E -D	0.13	837 C	WindLd

TL Defl -0.16" in J -I L/999
LL Defl -0.08" in J -I L/999
Shear // Grain in C -N 0.29

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.71
M	MT20	2.0x 4.0	Ctr	Ctr	0.29
B	MT20	5.0x 5.0	Ctr	-0.7	0.97
C	MT20	4.0x 4.0	Ctr	Ctr	0.89
N	MT20	3.0x 4.0	Ctr	Ctr	0.43
D	MT20	3.0x 4.0	Ctr	Ctr	0.73
J	MT20	3.0x 4.0	Ctr	Ctr	0.71
I	MT20	2.0x 4.0	Ctr	Ctr	0.58
H	MT20	5.0x 9.0	Ctr	0.8	0.56
K	MT20	3.0x 7.0	Ctr	Ctr	0.74
F	MT20	4.0x10.0	Ctr	0.2	0.72
G	MT20	2.0x 4.0	Ctr	Ctr	0.58
E	MT20	3.0x 4.0	Ctr	Ctr	0.71

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

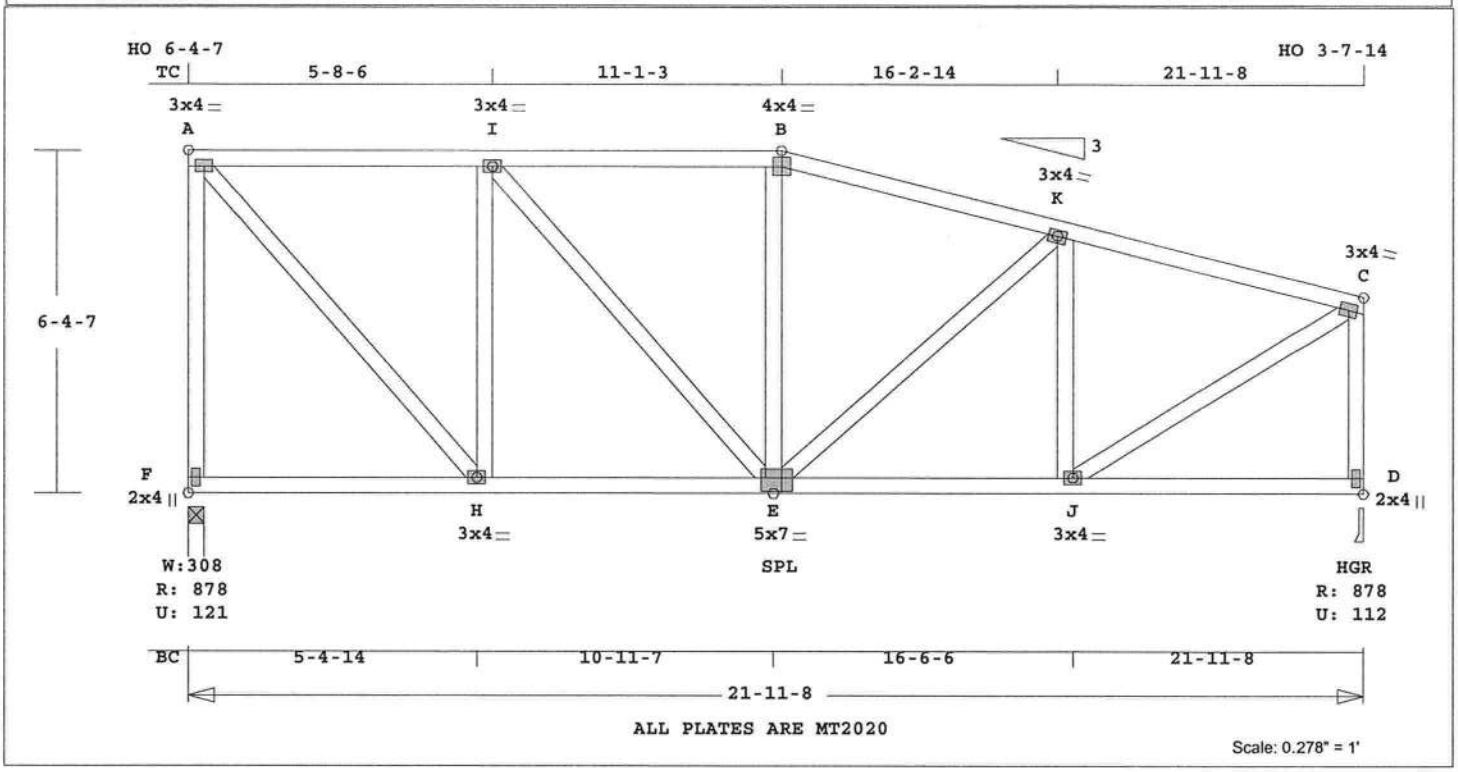
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1386 Lbs
Max tens. force 1359 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***A16***	1	HHIP	21'11" 08	3	0	0	*T2850076*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 184.4 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.34	2x 4	SP-#2
BC	0.27	2x 4	SP-#2
WB	0.38	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	21-11- 8
BC	Cont.	0- 0- 0	21-11- 8

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
F	878	122 U	203 R
D	878	112 U	131 R

Jt	Brg Size	Required
F	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -I	0.34	619 C	0.00	0.34
I -B	0.34	790 C	0.00	0.34
B -K	0.33	820 C	0.00	0.33
K -C	0.33	808 C	0.00	0.33
Bottom Chords				
F -H	0.18	175 T	0.00	0.18
H -E	0.24	619 T	0.06	0.18
E -J	0.27	792 T	0.08	0.19
J -D	0.19	87 T	0.00	0.19
Webs				
F -A	0.38	831 C	WindLd	
A -H	0.31	931 T		
H -I	0.26	574 C		
I -E	0.13	257 T		
E -B	0.04	137 T		
E -K	0.01	64 T		
J -K	0.10	373 C		
J -C	0.18	935 T		
D -C	0.13	831 C	WindLd	

TL Defl -0.06" in J -D L/999
LL Defl -0.03" in J -D L/999
Shear // Grain in A -I 0.25

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.71
I	MT20	3.0x 4.0	Ctr	Ctr	0.53
B	MT20	4.0x 4.0	Ctr	Ctr	0.89
K	MT20	3.0x 4.0	Ctr	Ctr	0.55
C	MT20	3.0x 4.0	Ctr	Ctr	0.71
F	MT20	2.0x 4.0	Ctr	Ctr	0.38
H	MT20	3.0x 4.0	Ctr	Ctr	0.58
E	MT20	5.0x 7.0-1.0-0.5			0.59
J	MT20	3.0x 4.0	Ctr	Ctr	0.55
D	MT20	2.0x 4.0	Ctr	Ctr	0.38

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

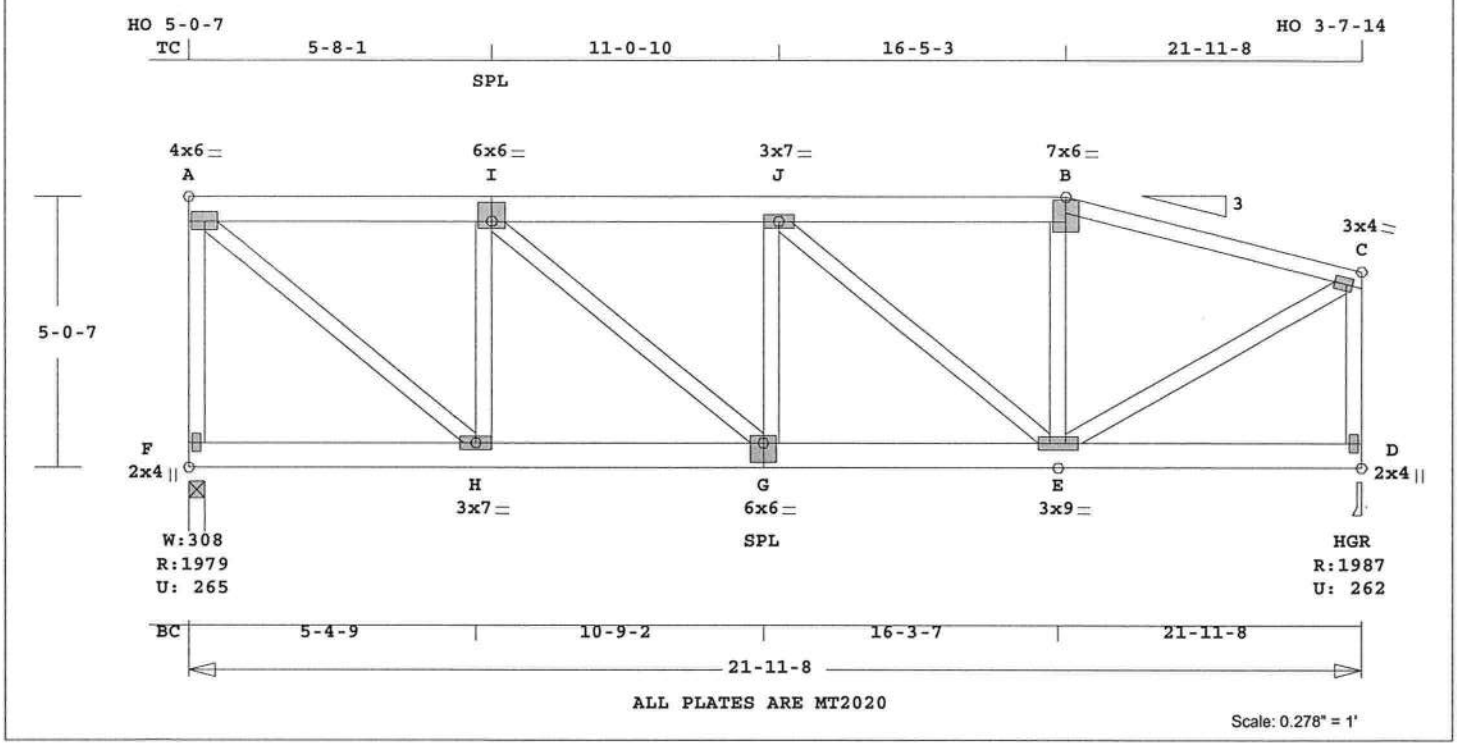
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 831 Lbs
Max tens. force 935 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*A17*	1	HHIP	211108	3	0	0	*T2850077*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 204.9 LBS

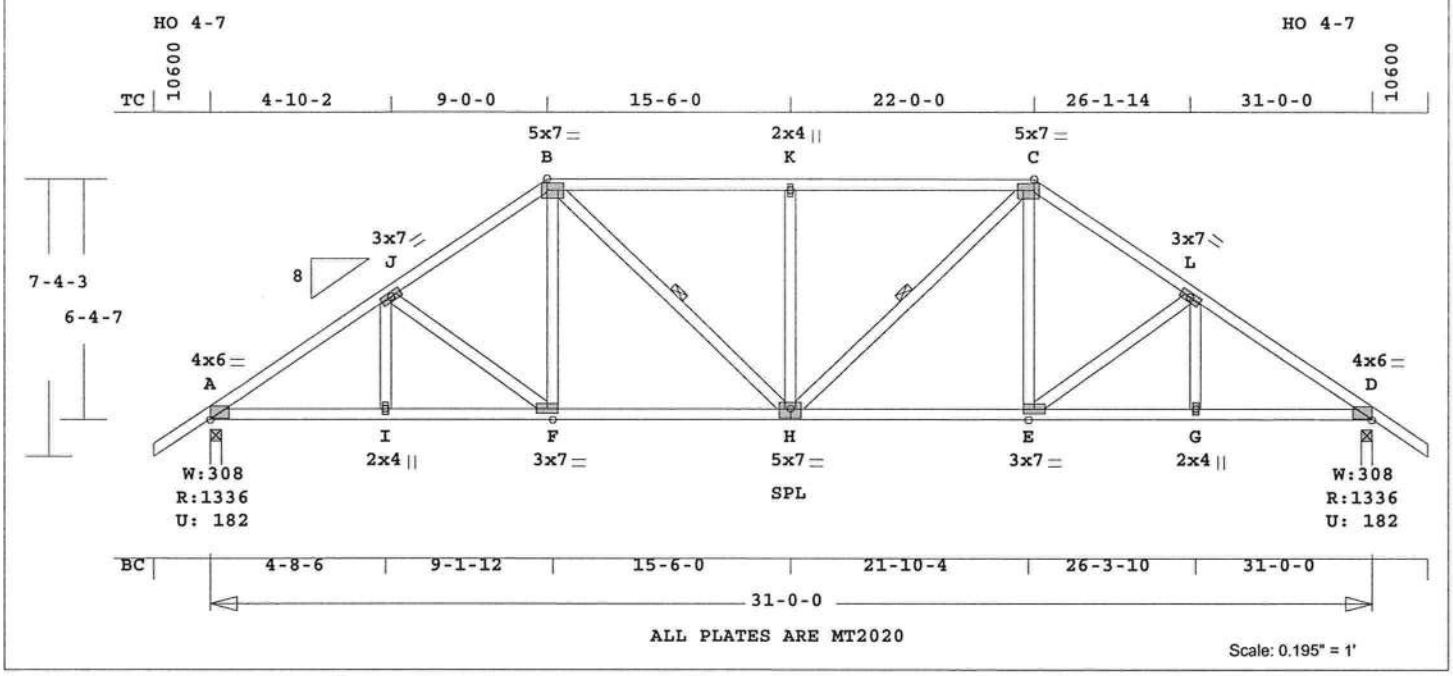
```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.38  2x 4  SP-#2
--  0.35  2x 6  SP-#2
    A -I   I -B
BC  0.56  2x 6  SP-#2
WB  0.54  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0 21-11- 8
 BC  Cont.    0- 0- 0 21-11- 8

psf-Ld  Dead  Live
TC      10.0  20.0
BC      10.0   0.0
TC+BC   20.0  20.0
Total   40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.00  Fc=1.00  Ft=1.00
BC Fb=1.00  Fc=1.00  Ft=1.00

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
F   1980   266 U   148 R
D   1987   263 U   116 R

Jt   Brg Size   Required
F       3.5"       2.3"
D       3.5"       2.3"

LC#  1  Standard Loading
Dur Fctrs - Lbr 1.25  Plt 1.25
plf - Dead  Live* From    To
TC V    20    40   0.0'  22.0'
BC V    20     0   0.0'  22.0'
BC V    50    50  16.3'  22.0'
TC V    25    50   0.0'  16.4'
BC V    25     0   0.0'  16.4'

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -I  0.35  1823 C  0.01  0.34
I -J  0.35  2395 C  0.01  0.34
J -B  0.35  1818 C  0.01  0.34
B -C  0.38  1866 C  0.12  0.26
--------Bottom Chords---------
F -H  0.16   132 T  0.00  0.16
H -G  0.34  1823 T  0.24  0.10
G -E  0.56  2395 T  0.32  0.24
E -D  0.34    73 T  0.00  0.34
------------Webs-------------
F -A  0.46  1871 C WindLd
A -H  0.54  2394 T
H -I  0.31  1276 C
I -G  0.18   750 T
G -J  0.07   349 T
J -E  0.44   757 C
E -B  0.03   220 T
E -C  0.40  2120 T
D -C  0.25  1681 C WindLd

TL Defl  -0.12" in H -G  L/999
LL Defl  -0.06" in H -G  L/999
Shear // Grain  in A -I   0.35

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  4.0x 6.0 Ctr Ctr 0.73
I  MT20  6.0x 6.0 Ctr 1.2 0.47
J  MT20  3.0x 7.0 Ctr Ctr 0.37
B  MT20  7.0x 6.0 Ctr-0.6 0.51
C  MT20  3.0x 4.0-0.5 0.1 0.97
F  MT20  2.0x 4.0 Ctr Ctr 0.59
H  MT20  3.0x 7.0 Ctr Ctr 0.86
G  MT20  6.0x 6.0 Ctr-1.2 0.47
E  MT20  3.0x 9.0 Ctr Ctr 0.91
D  MT20  2.0x 4.0 Ctr Ctr 0.59

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
Max comp. force     2395 Lbs
Max tens. force     2395 Lbs
Quality Control Factor 1.25
```

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	B1	1	HIPP	310000	8	1- 6- 0	1- 6- 0	T2850078

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 226.4 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.47	2x 4	SP-#2
BC	0.36	2x 4	SP-#2
WB	0.20	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	31- 0- 0
BC	Cont.	0- 0- 0	31- 0- 0

One Continuous Lateral Brace
B -H H -C
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1336	182 U	134 R
D	1336	182 U	134 R

Jt	Brg Size	Required
A	3.5"	1.6"
D	3.5"	1.6"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -J	0.19	1827 C	0.08 0.11
J -B	0.23	1560 C	0.01 0.22
B -K	0.47	1604 C	0.01 0.46
K -C	0.47	1604 C	0.01 0.46
C -L	0.23	1560 C	0.01 0.22
L -D	0.19	1827 C	0.08 0.11
Bottom Chords			
A -I	0.33	1513 T	0.25 0.08
I -F	0.34	1513 T	0.25 0.09
F -H	0.36	1301 T	0.13 0.23
H -E	0.36	1301 T	0.13 0.23
E -G	0.34	1513 T	0.25 0.09
G -D	0.33	1513 T	0.25 0.08
Webs			
I -J	0.02	149 T	
J -F	0.09	277 C	
F -B	0.05	330 T	
B -H	0.07	416 T	1 Br
H -K	0.20	439 C	
H -C	0.07	416 T	1 Br
E -C	0.05	330 T	
E -L	0.09	277 C	
G -L	0.02	149 T	

TL Defl -0.16" in H -E L/999
LL Defl -0.07" in F -H L/999
Shear // Grain in B -K 0.28

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	0.5	0.4	0.65
J	MT20	3.0x 7.0	Ctr	Ctr	0.42
B	MT20	5.0x 7.0	Ctr	-0.2	0.90
K	MT20	2.0x 4.0	Ctr	Ctr	0.42
C	MT20	5.0x 7.0	Ctr	-0.2	0.90
L	MT20	3.0x 7.0	Ctr	Ctr	0.42
D	MT20	4.0x 6.0	-0.5	0.4	0.65
I	MT20	2.0x 4.0	Ctr	Ctr	0.42
F	MT20	3.0x 7.0	Ctr	Ctr	0.41
H	MT20	5.0x 7.0	Ctr	-0.5	0.70
E	MT20	3.0x 7.0	Ctr	Ctr	0.41
G	MT20	2.0x 4.0	Ctr	Ctr	0.42

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

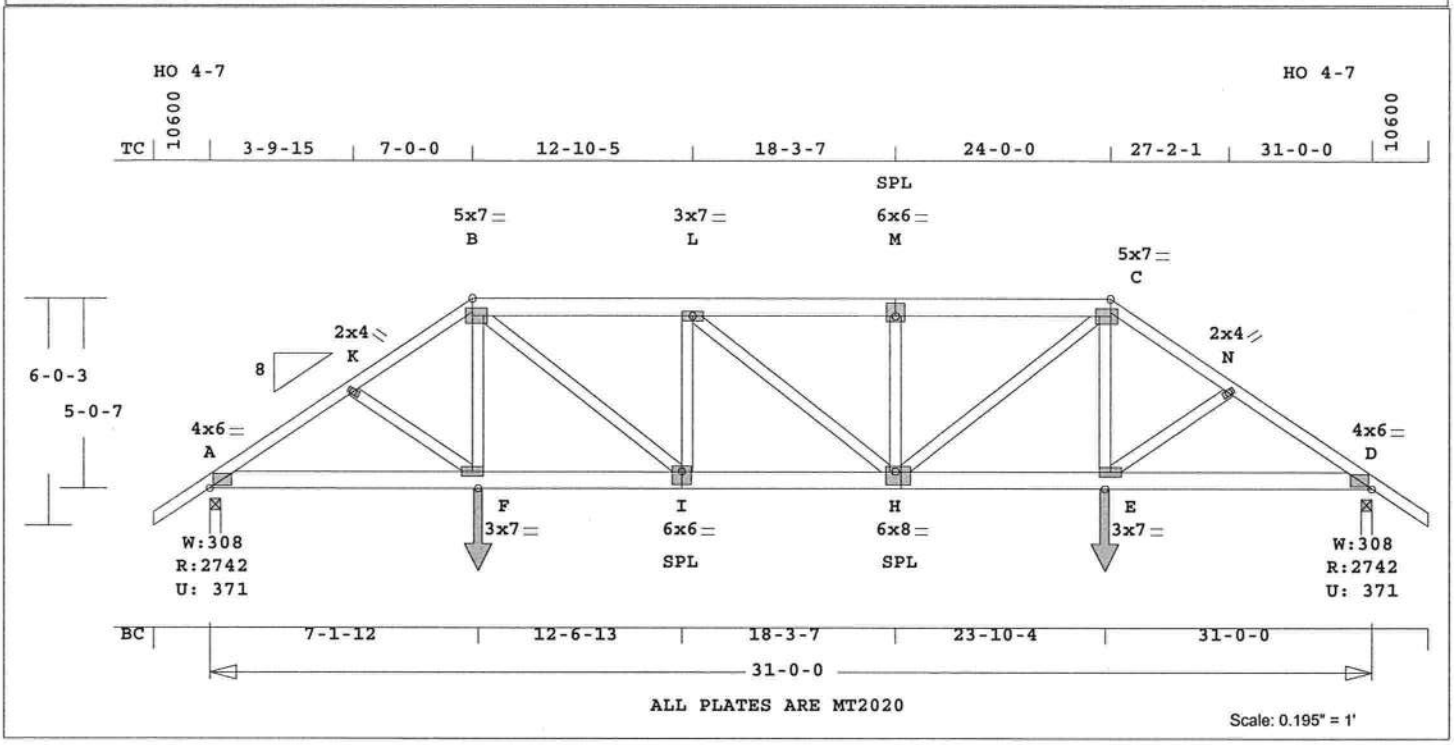
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1827 Lbs
Max tens. force 1513 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*B2*	1*2P	HIPP	310000	8	1- 6- 0	1- 6- 0	*T2850079*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 259.0 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08
****
* 2-Ply Truss *
****

	CSI	-Size-	----Lumber----
TC	0.28	2x 4	SP-#2
--	0.23	2x 6	SP-#2
	B -M	M -C	
BC	0.37	2x 6	SP-#2
WB	0.16	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	31- 0- 0
BC	Cont.	0- 0- 0	31- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.00 Fc=1.00 Ft=1.00
BC Fb=1.00 Fc=1.00 Ft=1.00

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	2742	372 U	102 R
D	2742	372 U	102 R

Jt	Brg Size	Required
A	3.5"	1.6"
D	3.5"	1.6"

LC# 1 Girder Loading
Dur Fctrs - Lbr 1.25 Plt 1.25

plf -	Dead	Live*	From	To
TC V	20	40	0.0'	31.0'
BC V	20	0	0.0'	31.0'
TC V	25	50	7.0'	24.0'
BC V	25	0	7.1'	23.9'
BC V	280	280	7.1'	CL-LB
BC V	280	280	23.9'	CL-LB

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -K	0.13	4319 C	0.04 0.09
K -B	0.28	4203 C	0.03 0.25
B -L	0.22	4924 C	0.02 0.20
L -M	0.20	4919 C	0.01 0.19
M -C	0.23	4919 C	0.02 0.21
C -N	0.28	4204 C	0.03 0.25
N -D	0.13	4320 C	0.04 0.09
Bottom Chords			
A -F	0.28	3570 T	0.23 0.05
F -I	0.30	3526 T	0.23 0.07
I -H	0.37	4924 T	0.32 0.05
H -E	0.30	3527 T	0.23 0.07
E -D	0.28	3570 T	0.23 0.05
Webs			
K -F	0.00	114 C	
F -B	0.06	768 T	
B -I	0.16	1783 T	
I -L	0.04	831 C	
L -H	0.00	40 C	
H -M	0.04	829 C	
H -C	0.16	1775 T	
E -C	0.06	769 T	
E -N	0.00	113 C	

TL Defl -0.17" in I -H L/999
LL Defl -0.09" in I -H L/999
Shear // Grain in B -L 0.19

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	Ctr	Ctr	0.63
K	MT20	2.0x 4.0	Ctr	Ctr	0.42
B	MT20	5.0x 7.0-0.5	Ctr		0.95
L	MT20	3.0x 7.0	Ctr	Ctr	0.42
M	MT20	6.0x 6.0	Ctr	1.2	0.56
C	MT20	5.0x 7.0	0.5	Ctr	0.95
N	MT20	2.0x 4.0	Ctr	Ctr	0.42
D	MT20	4.0x 6.0	Ctr	Ctr	0.63
F	MT20	3.0x 7.0	Ctr	Ctr	0.41
I	MT20	6.0x 6.0	Ctr	-1.2	0.56
H	MT20	6.0x 8.0-1.0	-1.2		0.56
E	MT20	3.0x 7.0	Ctr	Ctr	0.41

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Girder Step Down Hip
Framing King Jacks
Jack Open Faced
Setback 7- 0- 0
2 COMPLETE TRUSSES REQUIRED.
Fasten together in staggered pattern. (1/2" bolts -OR- SDS3 screws -OR- 10d nails as each layer is applied.)

	----Spacing (In)----		
Rows	Nails	Screws	Bolts
TC 1	12	24	0
BC 2	12	24	0
WB 1	8	8	

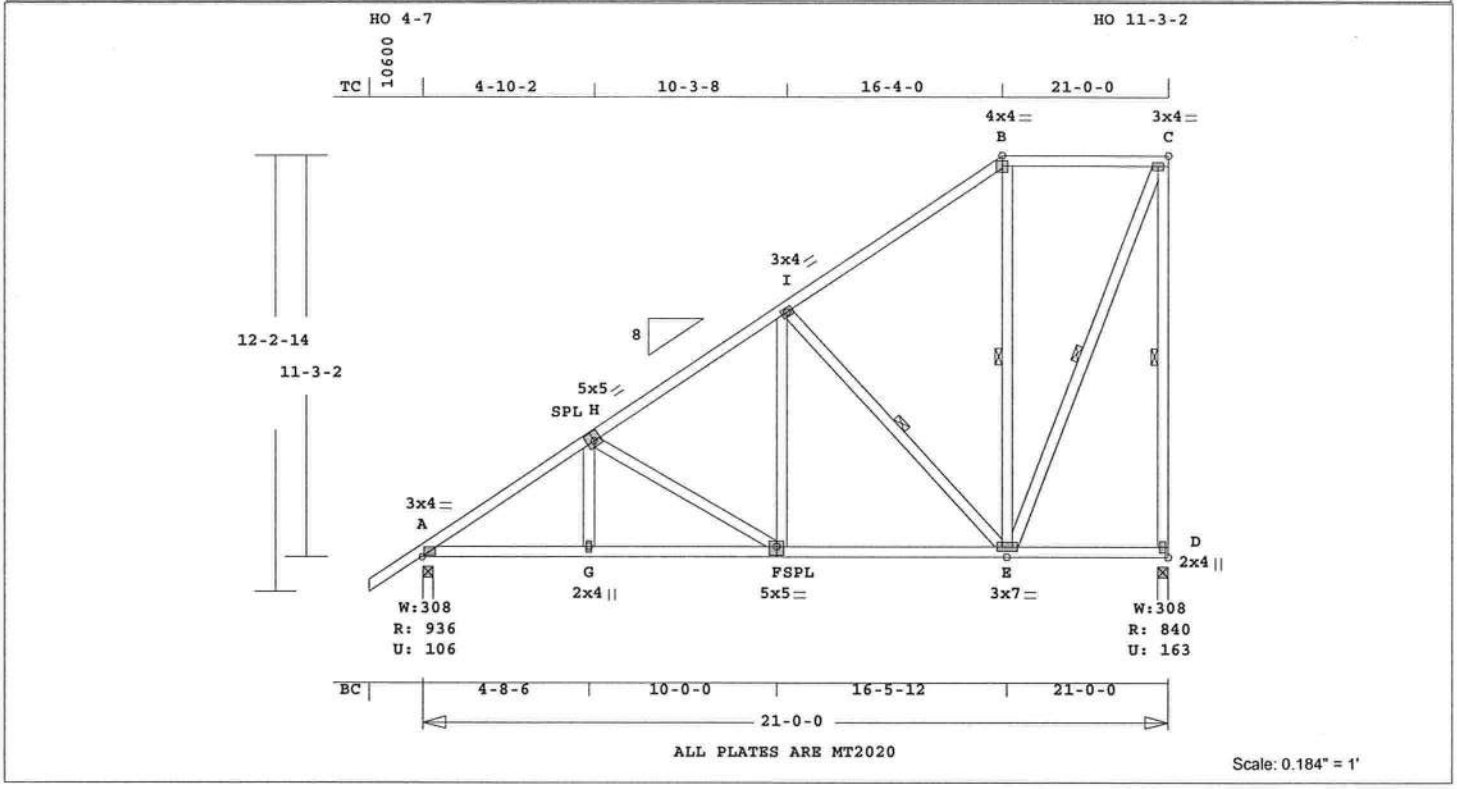
Plus clusters of nails where shown.
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 4924 Lbs
Max tens. force 4924 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***C1***	1	HHIP	210000	8	1- 6- 0	0	*T2850080*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 197.4 LBS

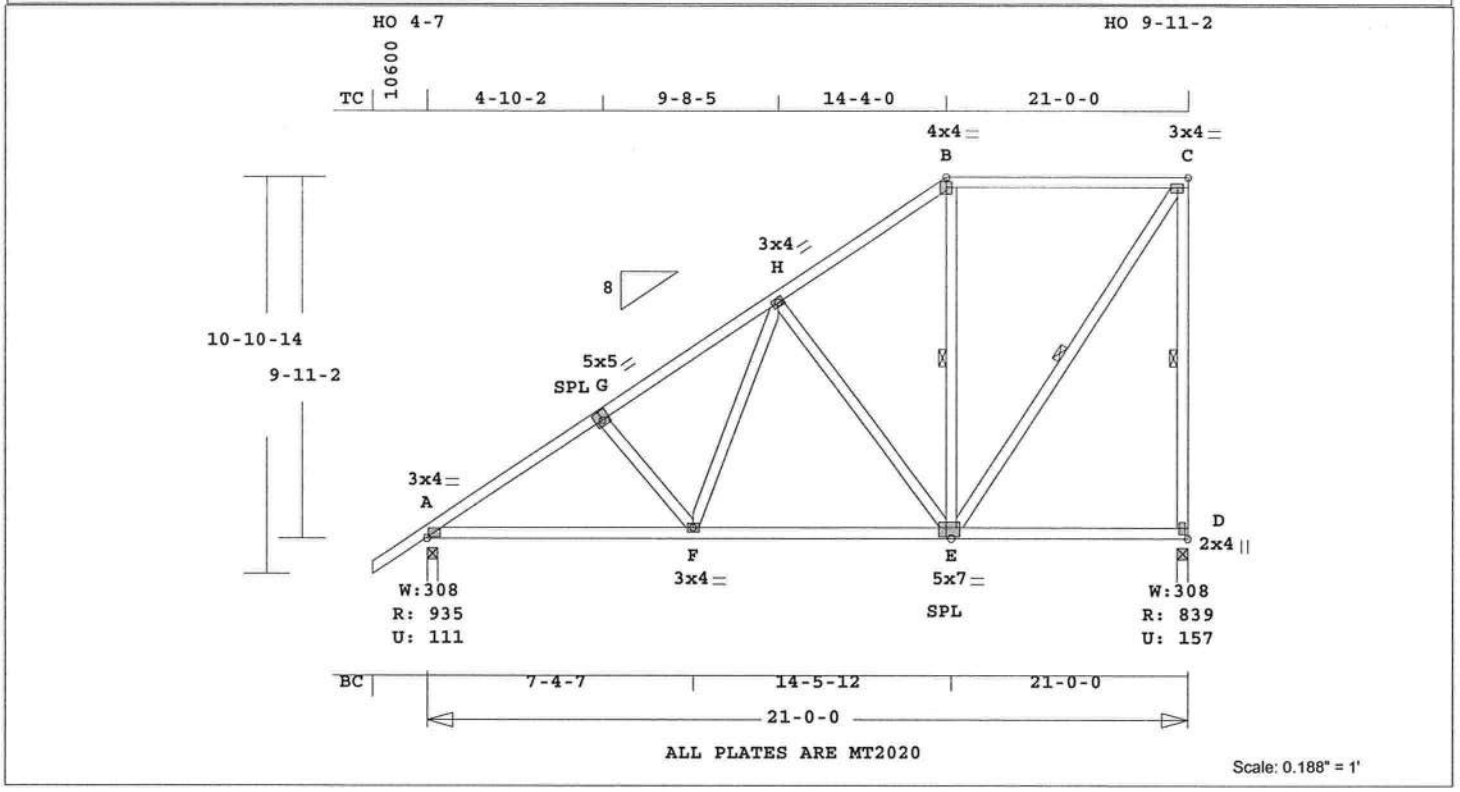
```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.37  2x 4  SP-#2
BC  0.29  2x 4  SP-#2
WB  0.71  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0 21- 0- 0
 BC  Cont.    0- 0- 0 21- 0- 0
One Continuous Lateral Brace
  I -E   E -B   E -C   D -C
Attach CLB with (2)-10d nails
  at each web.

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    936   106 U   206 R
D    840   164 U   392 R

Jt   Brg Size   Required
A       3.5"       1.5"
D       3.5"       1.5"

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -H  0.18  1156 C  0.00  0.18
H -I  0.37   792 C  0.00  0.37
I -B  0.37   367 C  0.00  0.37
B -C  0.17   369 C  0.00  0.17
--------Bottom Chords---------
A -G  0.20   964 T  0.10  0.10
G -F  0.29   964 T  0.10  0.19
F -E  0.25   667 T  0.06  0.19
E -D  0.18   308 T  0.00  0.18
------------Webs-------------
G -H  0.02   188 T
H -F  0.16   343 C
F -I  0.05   378 T
I -E  0.16   577 C         1 Br
E -B  0.05   146 C         1 Br
E -C  0.13   740 T         1 Br
D -C  0.71   805 C WindLd  1 Br

TL Defl  -0.08" in F -E  L/999
LL Defl  -0.03" in F -E  L/999
Shear // Grain  in I -B   0.22

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  3.0x 4.0 Ctr Ctr 0.74
H  MT20  5.0x 5.0-0.3 0.5 0.57
I  MT20  3.0x 4.0 Ctr Ctr 0.63
B  MT20  4.0x 4.0 Ctr Ctr 0.87
C  MT20  3.0x 4.0 Ctr Ctr 0.70
G  MT20  2.0x 4.0 Ctr Ctr 0.38
F  MT20  5.0x 5.0 Ctr-0.5 0.58
E  MT20  3.0x 7.0 Ctr Ctr 0.56
D  MT20  2.0x 4.0 Ctr Ctr 0.38

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.

Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
Max comp. force     1156 Lbs
Max tens. force      964 Lbs
Quality Control Factor 1.25
```

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***C2***	1	HHIP	210000	8	1- 6- 0	0	*T2850081*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 179.4 LBS

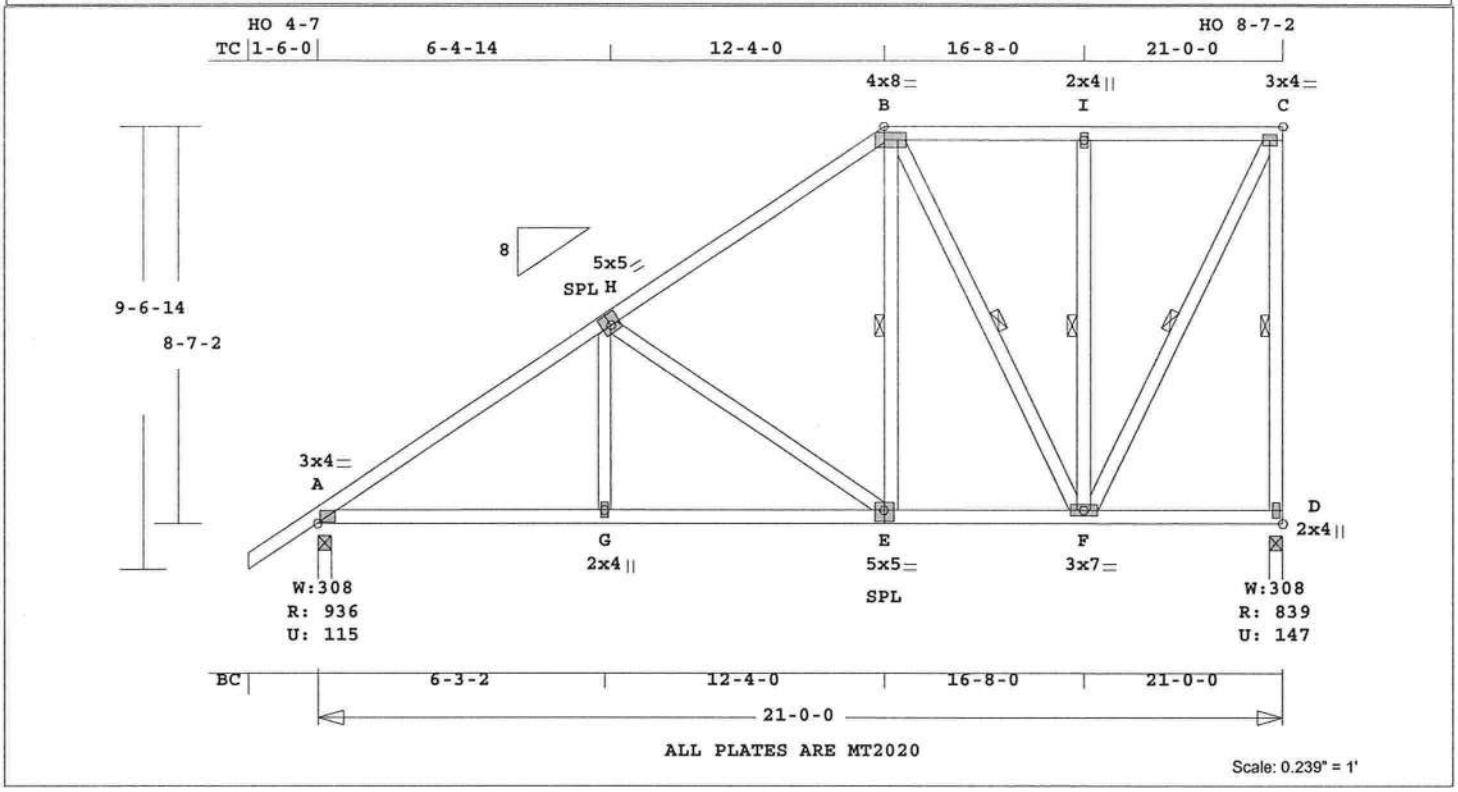
```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.46  2x 4  SP-#2
BC  0.36  2x 4  SP-#2
WB  0.49  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0 21- 0- 0
 BC  Cont.    0- 0- 0 21- 0- 0
One Continuous Lateral Brace
  E -B   E -C   D -C
Attach CLB with (2)-10d nails
  at each web.

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    936   111 U   181 R
D    840   158 U   344 R

Jt   Brg Size   Required
A       3.5"       1.5"
D       3.5"       1.5"

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -G  0.20  1125 C  0.00  0.20
G -H  0.20   944 C  0.00  0.20
H -B  0.19   481 C  0.00  0.19
B -C  0.46   412 C  0.00  0.46
--------Bottom Chords---------
A -F  0.36   943 T  0.09  0.27
F -E  0.34   667 T  0.06  0.28
E -D  0.28   270 T  0.00  0.28
------------Webs-------------
G -F  0.05   255 C
F -H  0.06   389 T
H -E  0.36   449 C
E -B  0.02   128 T        1 Br
E -C  0.13   726 T        1 Br
D -C  0.49   787 C WindLd 1 Br

TL Defl  -0.11" in A -F  L/999
LL Defl  -0.05" in A -F  L/999
Shear // Grain  in B -C   0.26

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  3.0x 4.0 Ctr Ctr 0.74
G  MT20  5.0x 5.0-0.3 0.5 0.57
H  MT20  3.0x 4.0 Ctr Ctr 0.58
B  MT20  4.0x 4.0 Ctr Ctr 0.87
C  MT20  3.0x 4.0 Ctr Ctr 0.70
F  MT20  3.0x 4.0 Ctr Ctr 0.46
E  MT20  5.0x 7.0 1.0-0.5 0.69
D  MT20  2.0x 4.0 Ctr Ctr 0.38

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
Max comp. force     1125 Lbs
Max tens. force      943 Lbs
Quality Control Factor 1.25
```


Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***C3***	1	HHIP	210000	8	1- 6- 0	0	*T2850082*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 187.9 LBS

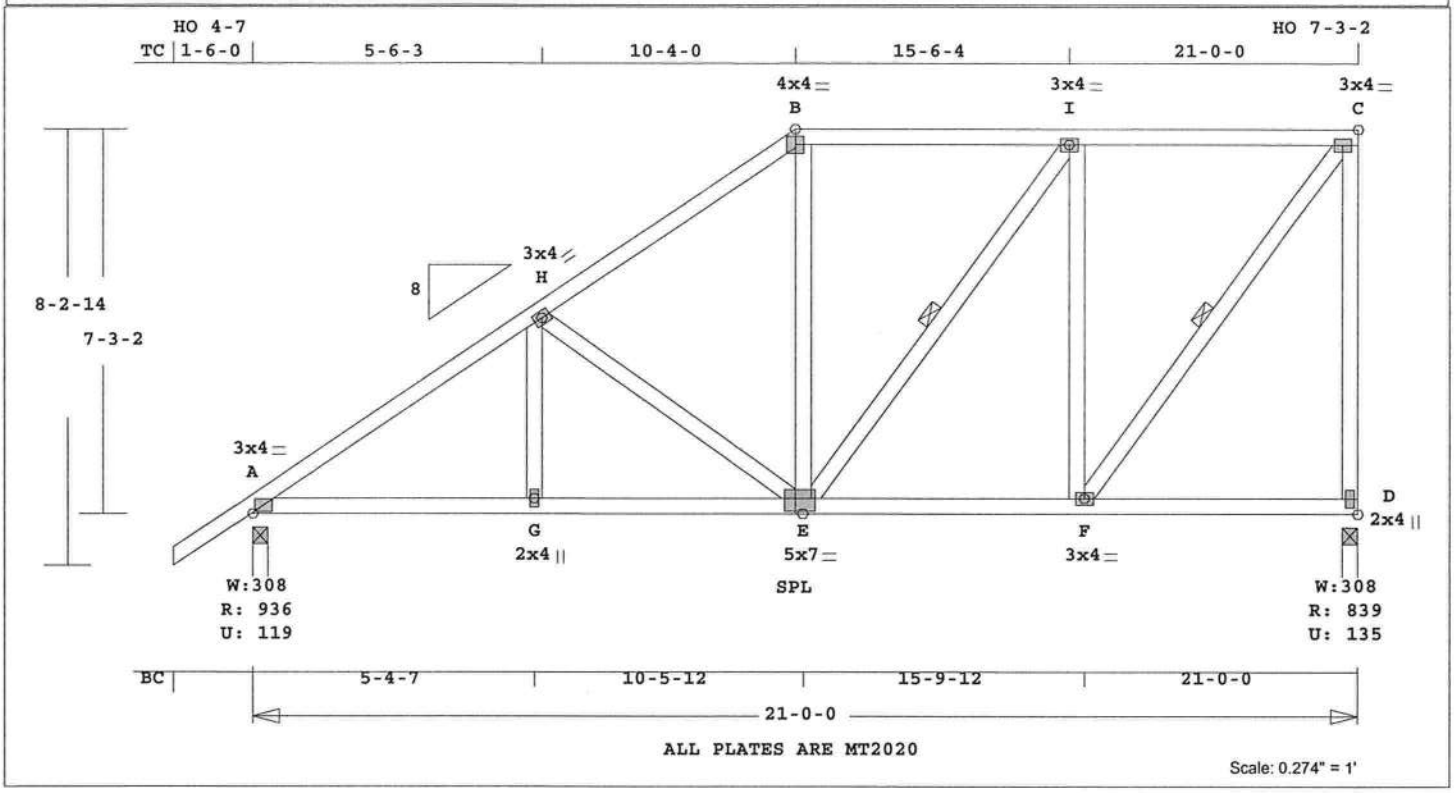
```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.38  2x 4  SP-#2
BC  0.31  2x 4  SP-#2
WB  0.34  2x 4  SP-#2

Brace truss as follows:
      O.C.     From       To
 TC  Cont.    0- 0- 0 21- 0- 0
 BC  Cont.    0- 0- 0 21- 0- 0
One Continuous Lateral Brace
  E -B   B -F   F -I   F -C
  D -C
Attach CLB with (2)-10d nails
  at each web.

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    936   115 U   155 R
D    840   148 U   295 R

Jt   Brg Size   Required
A       3.5"       1.5"
D       3.5"       1.5"

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -H  0.38  1086 C  0.00  0.38
H -B  0.38   629 C  0.00  0.38
B -I  0.19   349 C  0.00  0.19
I -C  0.19   349 C  0.00  0.19
--------Bottom Chords---------
A -G  0.31   912 T  0.09  0.22
G -E  0.31   912 T  0.09  0.22
E -F  0.19   509 T  0.05  0.14
F -D  0.09   232 T  0.00  0.09
-------------Webs-------------
G -H  0.04   264 T
H -E  0.33   481 C
E -B  0.06   407 T        1 Br
B -F  0.10   355 C        1 Br
F -I  0.06   289 C        1 Br
F -C  0.14   775 T        1 Br
D -C  0.34   801 C WindLd 1 Br

TL Defl  -0.08" in G -E  L/999
LL Defl  -0.03" in G -E  L/999
Shear // Grain  in A -H   0.21

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  3.0x 4.0 Ctr Ctr 0.74
H  MT20  5.0x 5.0-0.3 0.5 0.57
B  MT20  4.0x 8.0 Ctr Ctr 0.87
I  MT20  2.0x 4.0 Ctr Ctr 0.38
C  MT20  3.0x 4.0 Ctr Ctr 0.70
G  MT20  2.0x 4.0 Ctr Ctr 0.38
E  MT20  5.0x 5.0 Ctr-0.5 0.58
F  MT20  3.0x 7.0 Ctr Ctr 0.58
D  MT20  2.0x 4.0 Ctr Ctr 0.38

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
Max comp. force     1086 Lbs
Max tens. force      912 Lbs
Quality Control Factor 1.25
```

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***C4***	1	HHIP	210000	8	1- 6- 0	0	*T2850083*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 173.7 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.32	2x 4	SP-#2
BC	0.22	2x 4	SP-#2
WB	0.48	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	21- 0- 0
BC	Cont.	0- 0- 0	21- 0- 0

One Continuous Lateral Brace
E -I F -C
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	936	119 U	130 R
D	840	136 U	247 R

Jt	Brg Size	Required
A	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -H	0.24	1124 C	0.00 0.24
H -B	0.24	764 C	0.00 0.24
B -I	0.32	629 C	0.00 0.32
I -C	0.32	495 C	0.00 0.32
Bottom Chords			
A -G	0.22	939 T	0.15 0.07
G -E	0.22	939 T	0.15 0.07
E -F	0.22	495 T	0.05 0.17
F -D	0.17	194 T	0.00 0.17
Webs			
G -H	0.03	209 T	
H -E	0.18	379 C	
E -B	0.03	220 T	
E -I	0.04	225 T	1 Br
F -I	0.33	548 C	
F -C	0.15	829 T	1 Br
D -C	0.48	795 C	WindLd

TL Defl -0.05" in G -E L/999
LL Defl -0.02" in F -D L/999
Shear // Grain in I -C 0.24

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.74
H	MT20	3.0x 4.0	Ctr	Ctr	0.63
B	MT20	4.0x 4.0	Ctr	Ctr	0.87
I	MT20	3.0x 4.0	Ctr	Ctr	0.52
C	MT20	3.0x 4.0	Ctr	Ctr	0.70
G	MT20	2.0x 4.0	Ctr	Ctr	0.38
E	MT20	5.0x 7.0	1.0-0.5		0.58
F	MT20	3.0x 4.0	Ctr	Ctr	0.52
D	MT20	2.0x 4.0	Ctr	Ctr	0.38

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.

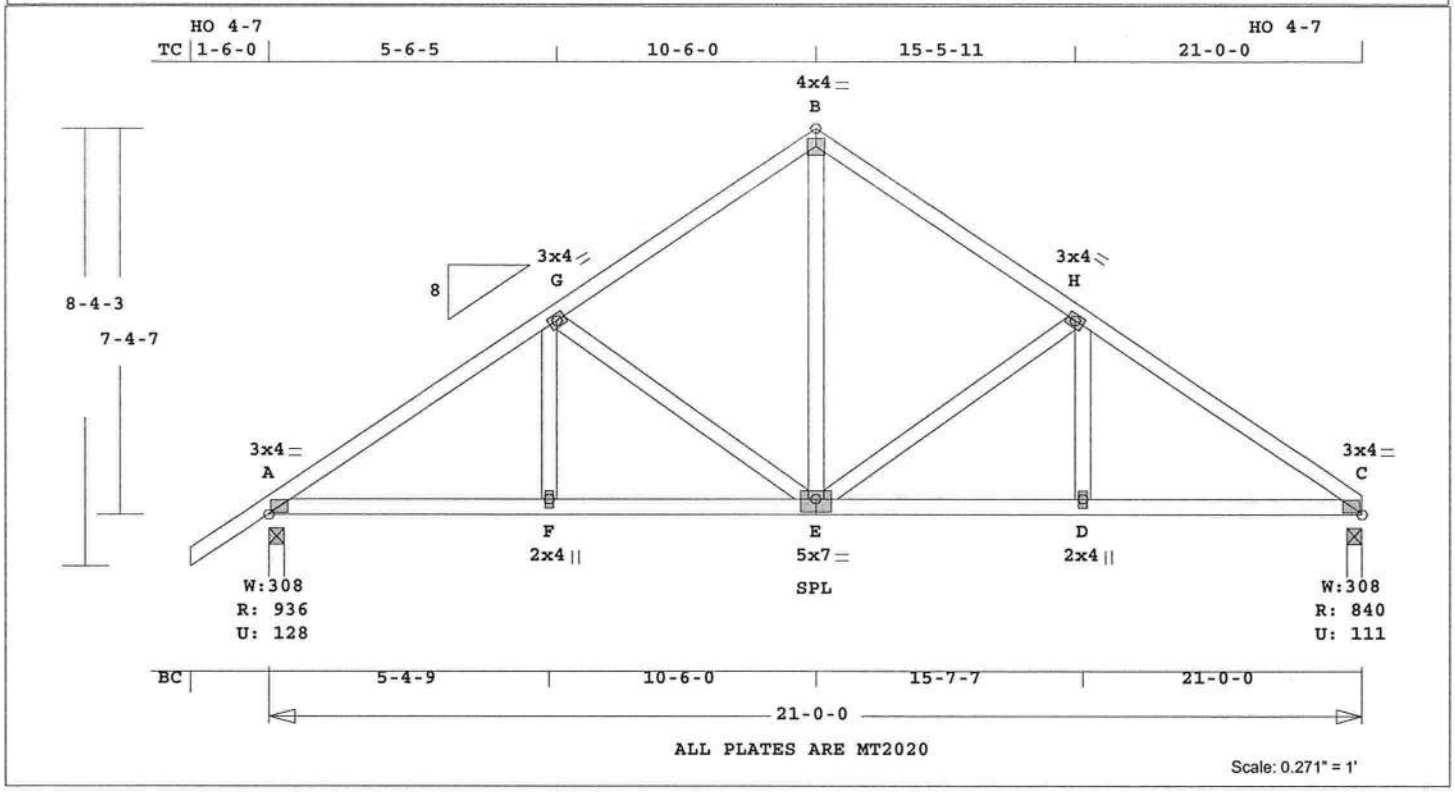
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1124 Lbs
Max tens. force 939 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***C5***	4	TR	210000	8	1- 6- 0	0	*T2850084*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 139.4 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.24	2x 4	SP-#2
BC	0.23	2x 4	SP-#2
WB	0.18	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	21- 0- 0
BC	Cont.	0- 0- 0	21- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	936	129 U	149 R
C	840	112 U	149 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -G	0.24	1123 C	0.00 0.24
G -B	0.24	761 C	0.00 0.24
B -H	0.24	761 C	0.00 0.24
H -C	0.24	1123 C	0.00 0.24
--------Bottom Chords---------			
A -F	0.22	939 T	0.15 0.07
F -E	0.23	939 T	0.15 0.08
E -D	0.23	939 T	0.15 0.08
D -C	0.22	939 T	0.15 0.07
----------Webs----------			
F -G	0.03	208 T	
G -E	0.18	382 C	
E -B	0.12	546 T	
E -H	0.18	382 C	
D -H	0.03	208 T	

TL Defl -0.06" in E -D L/999
LL Defl -0.03" in F -E L/999
Shear // Grain in A -G 0.17

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.74
G	MT20	3.0x 4.0	Ctr	Ctr	0.63
B	MT20	4.0x 4.0	Ctr	Ctr	0.63
H	MT20	3.0x 4.0	Ctr	Ctr	0.63
C	MT20	3.0x 4.0	Ctr	Ctr	0.74
F	MT20	2.0x 4.0	Ctr	Ctr	0.38
E	MT20	5.0x 7.0	Ctr	-0.5	0.58
D	MT20	2.0x 4.0	Ctr	Ctr	0.38

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

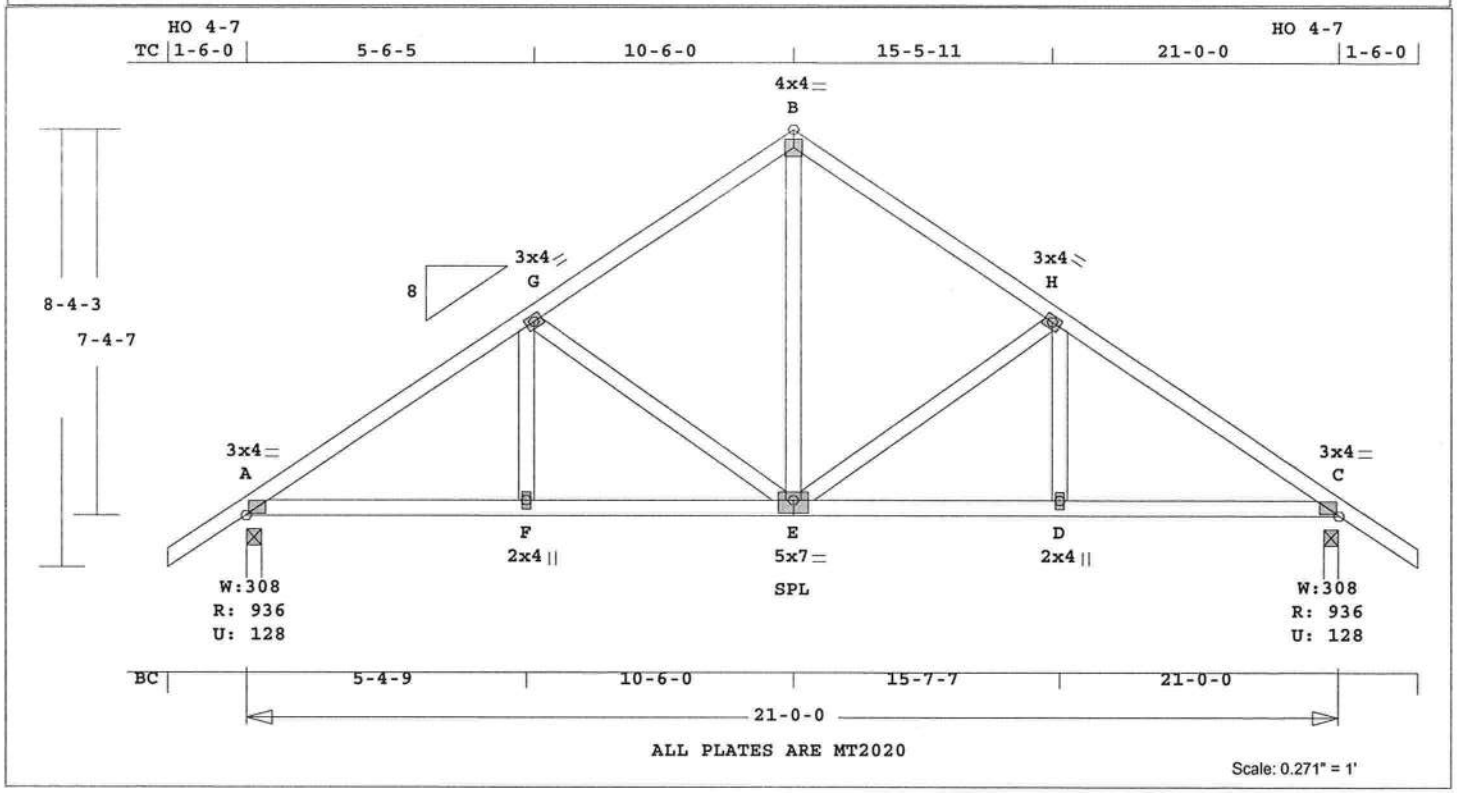
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1123 Lbs
Max tens. force 939 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*C6*	2	TR	210000	8	1- 6- 0	1- 6- 0	*T2850085*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 142.8 LBS

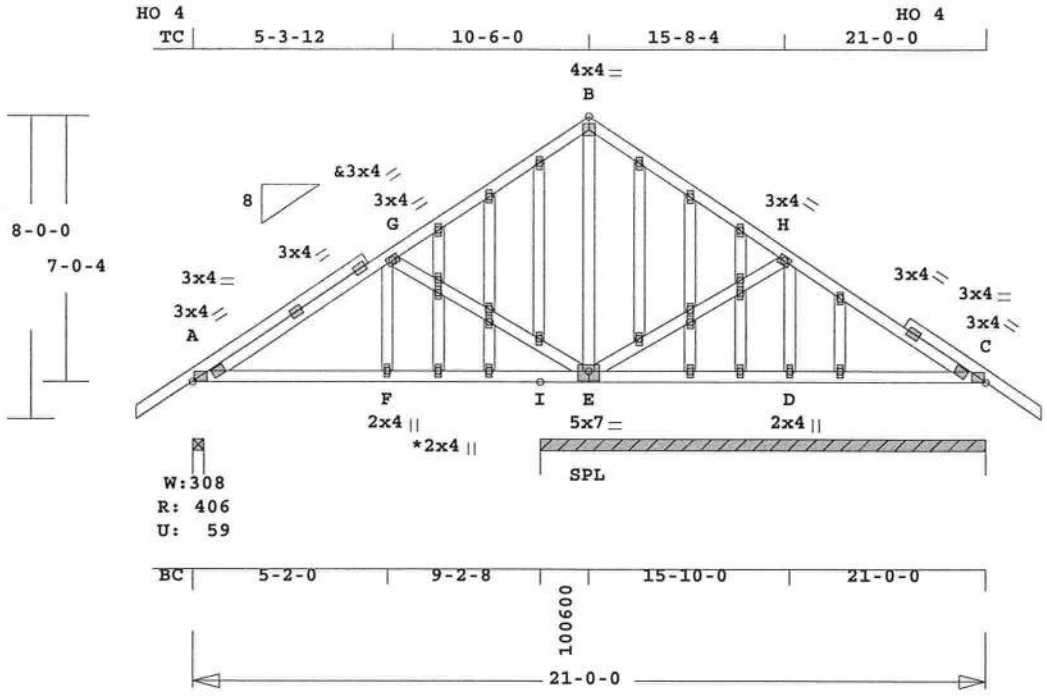
```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.24  2x 4  SP-#2
BC  0.23  2x 4  SP-#2
WB  0.18  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0 21- 0- 0
 BC  Cont.    0- 0- 0 21- 0- 0

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    936   129 U   149 R
C    936   129 U   149 R

Jt   Brg Size   Required
A       3.5"       1.5"
C       3.5"       1.5"

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -G  0.24  1123 C  0.00  0.24
G -B  0.24   761 C  0.00  0.24
B -H  0.24   761 C  0.00  0.24
H -C  0.24  1123 C  0.00  0.24
--------Bottom Chords---------
A -F  0.22   939 T  0.15  0.07
F -E  0.23   939 T  0.15  0.08
E -D  0.23   939 T  0.15  0.08
D -C  0.22   939 T  0.15  0.07
------------Webs-------------
F -G  0.03   208 T
G -E  0.18   382 C
E -B  0.12   546 T
E -H  0.18   382 C
D -H  0.03   208 T

TL Defl  -0.06" in E -D  L/999
LL Defl  -0.03" in F -E  L/999
Shear // Grain  in A -G   0.17

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  3.0x 4.0 Ctr Ctr 0.74
G  MT20  3.0x 4.0 Ctr Ctr 0.63
B  MT20  4.0x 4.0 Ctr Ctr 0.63
H  MT20  3.0x 4.0 Ctr Ctr 0.63
C  MT20  3.0x 4.0 Ctr Ctr 0.74
F  MT20  2.0x 4.0 Ctr Ctr 0.38
E  MT20  5.0x 7.0 Ctr-0.5 0.58
D  MT20  2.0x 4.0 Ctr Ctr 0.38

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
Max comp. force     1123 Lbs
Max tens. force      939 Lbs
Quality Control Factor 1.25
```


Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	*C7*	1	TR	210000	8	0	0	*T2850086*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020, # = PLATE SELECTED IN PLATE MONITOR

See * For Typical Gable Plate Size and Placement

Scale: 0.196" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 205.8 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.27	2x 4	SP-#2
BC	0.17	2x 4	SP-#2
WB	0.20	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	21- 0- 0
BC	Cont.	0- 0- 0	21- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	406	60 U	141 R
I	1274	164 U	141 R

Jt	Brg Size	Required
A	3.5"	1.5"
I	141.5"	111"-to- 252"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -G	0.27	413 C	0.00	0.27
G -B	0.27	95 T	0.00	0.27
B -H	0.27	95 T	0.00	0.27
H -C	0.27	159 C	0.00	0.27
--------Bottom Chords---------				
A -F	0.15	371 T	0.06	0.09
F -I	0.15	371 T	0.03	0.12
I -E	0.14	371 T	0.03	0.11
E -D	0.17	151 T	0.01	0.16
D -C	0.17	151 T	0.01	0.16

----------Webs----------		
F -G	0.03	195 T
G -E	0.20	436 C
E -B	0.16	304 C
E -H	0.10	232 C
D -H	0.02	148 C

TL Defl -0.03" in A -F L/999
LL Defl -0.01" in A -F L/999
Shear // Grain in A -G 0.18

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.74
G	MT20	3.0x 4.0	Ctr	Ctr	0.63
B	MT20	4.0x 4.0	Ctr	Ctr	0.63
H	MT20	3.0x 4.0	Ctr	Ctr	0.63
C	MT20	3.0x 4.0	Ctr	Ctr	0.74
F	MT20	2.0x 4.0	Ctr	Ctr	0.38
E	MT20	5.0x 7.0	Ctr	-0.5	0.58
D	MT20	2.0x 4.0	Ctr	Ctr	0.38

11 Gable studs to be attached with 2.0x4.0 plates each end.
REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.

Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 436 Lbs
Max tens. force 371 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
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6904 Parke East Blvd
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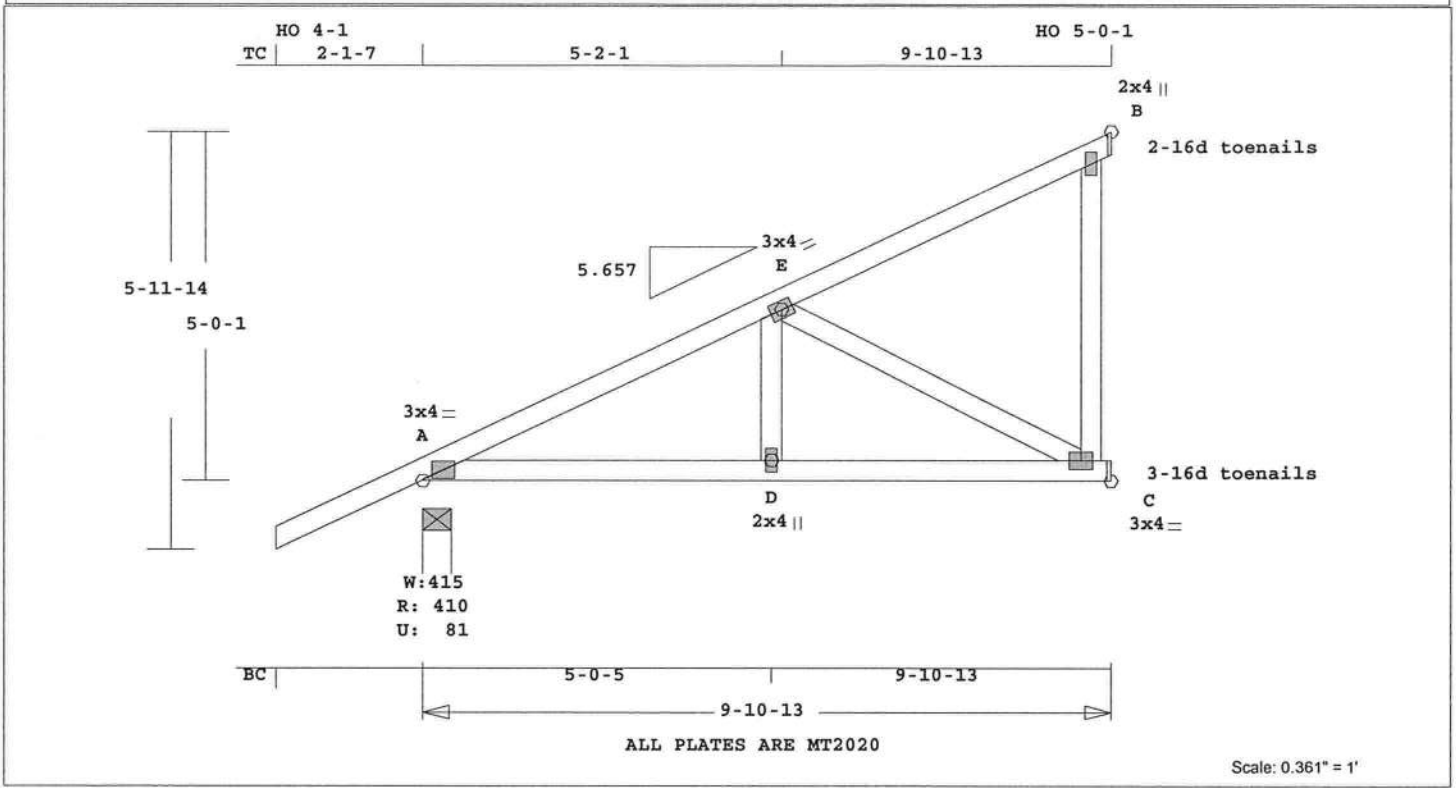
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*CJ1*	2	MONO.DD	91013'	5.657	2- 1- 7	0	*T2850087*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 65.4 LBS

```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.43  2x 4  SP-#2
BC  0.25  2x 4  SP-#2
WB  0.17  2x 4  SP-#2

Brace truss as follows:
      O.C.     From      To
 TC  Cont.    0- 0- 0  9-10-13
 BC  Cont.    0- 0- 0  9-10-13

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.00  Fc=1.00  Ft=1.00
BC Fb=1.00  Fc=1.00  Ft=1.00

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    411    82 U   119 R
C    348    16 U
B    243    87 U   170 R

Jt   Brg Size   Required
A       4.9"       1.5"
C       1.5"       1.5"
B       1.5"       1.5"

LC#  1  Girder Loading
Dur Fctrs - Lbr 1.25  Plt 1.25
plf - Dead  Live* From    To
TC V    20    40   0.0'   9.9'
BC V    20     0   0.0'   9.9'
TC V   -20   -40   0.0'
        22    45          9.9'
BC V   -20     0   0.0'
        22     0          9.9'

Plus  7 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)
```

```
Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -E  0.35   500 C  0.02  0.33
E -B  0.43   107 T  0.00  0.43
--------Bottom Chords---------
A -D  0.22   472 T  0.05  0.17
D -C  0.25   472 T  0.05  0.20
-------------Webs-------------
D -E  0.03   236 T
E -C  0.17   533 C
C -B  0.10     0 T WindLd

TL Defl  -0.05" in D -C  L/999
LL Defl  -0.02" in D -C  L/999
Shear // Grain  in E -B   0.28

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  3.0x 4.0 Ctr Ctr 0.61
E  MT20  3.0x 4.0 Ctr Ctr 0.45
B  MT20  2.0x 4.0 Ctr Ctr 0.38
D  MT20  2.0x 4.0 Ctr Ctr 0.38
C  MT20  3.0x 4.0 Ctr Ctr 0.54

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

For proper installation of
toe-nails, refer to the 2001
National Design Specification
(NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
Girder    King Jack
  Loading TC and BC
  Setback  7- 0- 0
```

```
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Use properly rated hangers for
  loads framing into girder
  truss.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:         5.0 psf
  BC Dead Load:         5.0 psf
Max comp. force      533 Lbs
Max tens. force      472 Lbs
Quality Control Factor 1.25
```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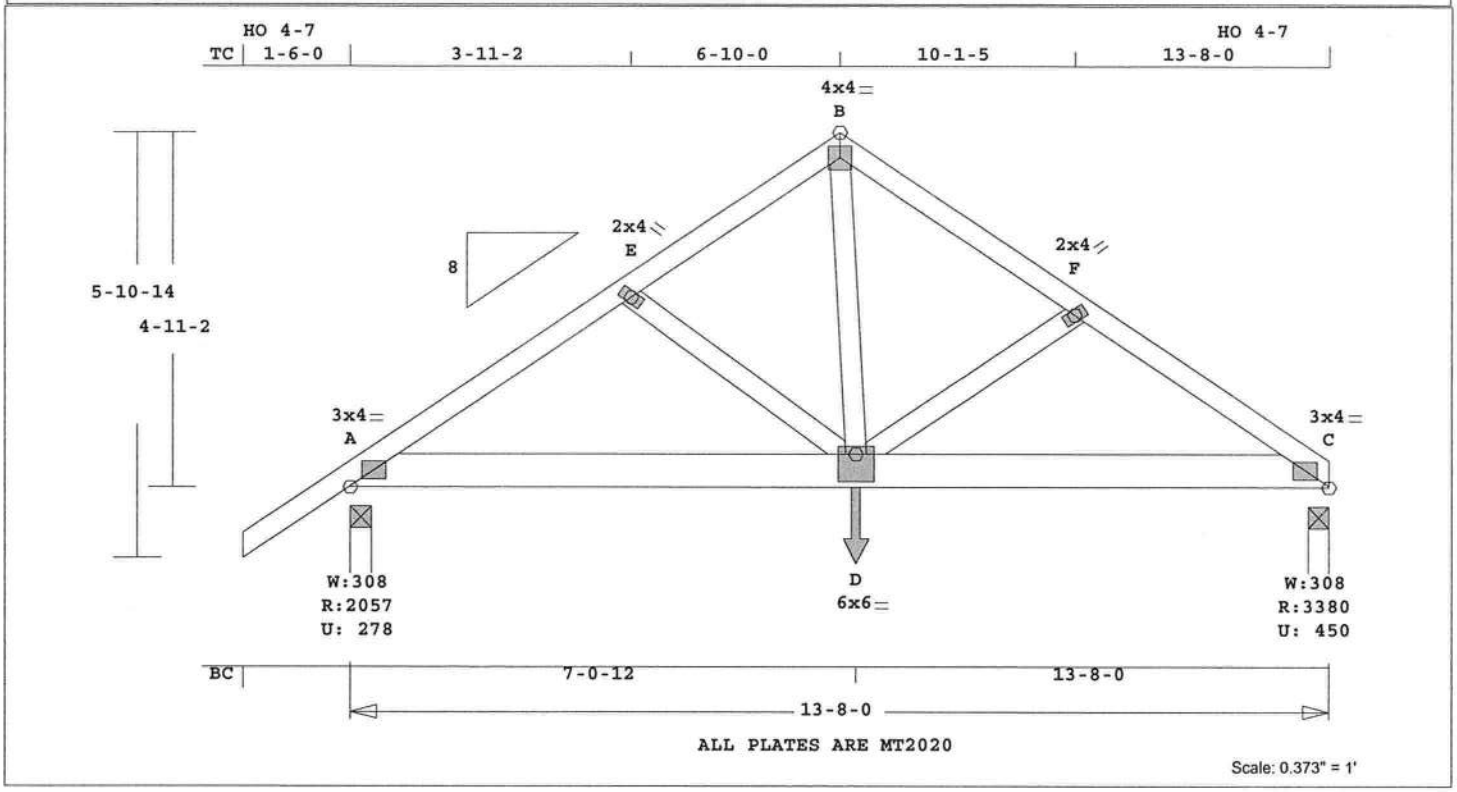
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	D1	1*2P	TR	130800	8	1- 6- 0	0	T2850088

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 95.5 LBS

```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08
***************
* 2-Ply Truss *
***************

     CSI -Size- ----Lumber----
TC  0.46  2x 4  SP-#2
BC  0.89  2x 6  SP-#2
WB  0.31  2x 4  SP-#2

Brace truss as follows:
      O.C.     From       To
 TC  Cont.    0- 0- 0 13- 8- 0
 BC  Cont.    0- 0- 0 13- 8- 0

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.00  Fc=1.00  Ft=1.00
BC Fb=1.00  Fc=1.00  Ft=1.00

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A   2057   278 U    90 R
C   3381   450 U    91 R

Jt   Brg Size   Required
A       3.5"       1.5"
C       3.5"       2.0"

LC#  1  Standard Loading
Dur Fctrs - Lbr 1.25  Plt 1.25
plf - Dead  Live* From    To
TC V    20    40   0.0'  13.7'
BC V    20     0   0.0'  13.7'
BC V   200   200   8.0'  13.7'
BC V   994   994   7.1'  CL-LB

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -E  0.15  3298 C  0.02  0.13
E -B  0.09  3169 C  0.02  0.07
B -F  0.16  3407 C  0.02  0.14
F -C  0.46  3646 C  0.03  0.43
--------Bottom Chords---------
A -D  0.54  2715 T  0.18  0.36
D -C  0.89  3135 T  0.20  0.69
------------Webs-------------
E -D  0.00   127 T
B -D  0.31  3461 T
D -F  0.01   379 C

TL Defl  -0.15" in D -C  L/999
LL Defl  -0.07" in D -C  L/999
Shear // Grain  in D -C   0.47

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  3.0x 4.0 Ctr Ctr 0.76
E  MT20  2.0x 4.0 Ctr Ctr 0.37
B  MT20  4.0x 4.0 Ctr Ctr 0.72
F  MT20  2.0x 4.0 Ctr Ctr 0.37
C  MT20  3.0x 4.0 Ctr Ctr 0.84
D  MT20  6.0x 6.0 Ctr-1.5 0.70

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
2 COMPLETE TRUSSES REQUIRED.
Fasten together in staggered
  pattern.  (1/2" bolts -OR-
  SDS3   screws -OR- 10d nails
  as each layer is applied.)
          ----Spacing (In)----
    Rows  Nails  Screws  Bolts
  TC  1    12     24       0
  BC  2    12     24       0
  WB  1     8      8
Plus clusters of nails where
  shown.
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
Max comp. force     3646 Lbs
Max tens. force     3461 Lbs
Quality Control Factor 1.25
```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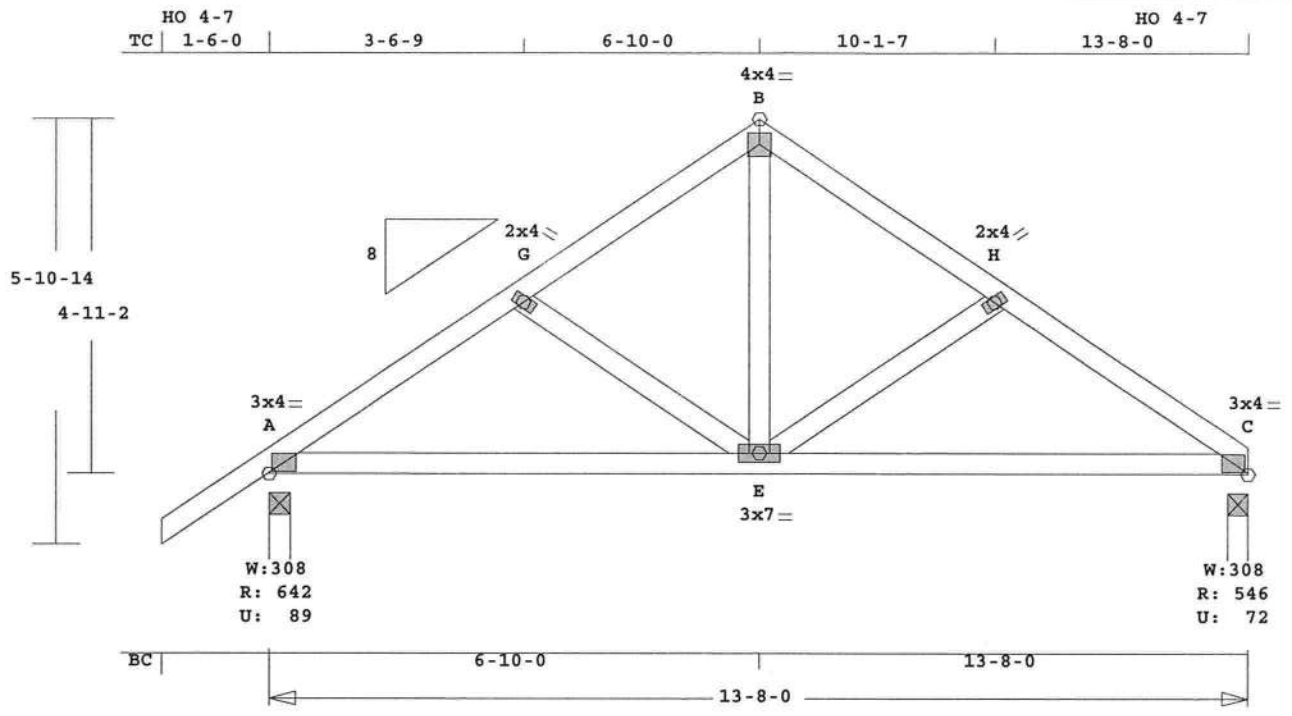
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***D2***	1	TR	130800	8	1- 6- 0	0	*T2850089*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 83.5 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.10	2x 4	SP-#2
BC	0.30	2x 4	SP-#2
WB	0.06	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	13- 8- 0
BC	Cont.	0- 0- 0	13- 8- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	643	90 U	91 R
C	547	73 U	91 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -G	0.10	679 C	0.00		0.10
G -B	0.10	502 C	0.00		0.10
B -H	0.10	502 C	0.00		0.10
H -C	0.10	679 C	0.00		0.10
Bottom Chords					
A -E	0.30	572 T	0.05		0.25
E -C	0.30	572 T	0.05		0.25
Webs					
G -E	0.04	201 C			
E -B	0.06	380 T			
E -H	0.04	201 C			

TL Defl -0.06" in E -C L/999
LL Defl -0.03" in E -C L/999
Shear // Grain in A -E 0.15

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.63
G	MT20	2.0x 4.0	Ctr	Ctr	0.38
B	MT20	4.0x 4.0	Ctr	Ctr	0.53
H	MT20	2.0x 4.0	Ctr	Ctr	0.37
C	MT20	3.0x 4.0	Ctr	Ctr	0.63
E	MT20	3.0x 7.0	Ctr	Ctr	0.40

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph

Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 679 Lbs
Max tens. force 572 Lbs
Quality Control Factor 1.25

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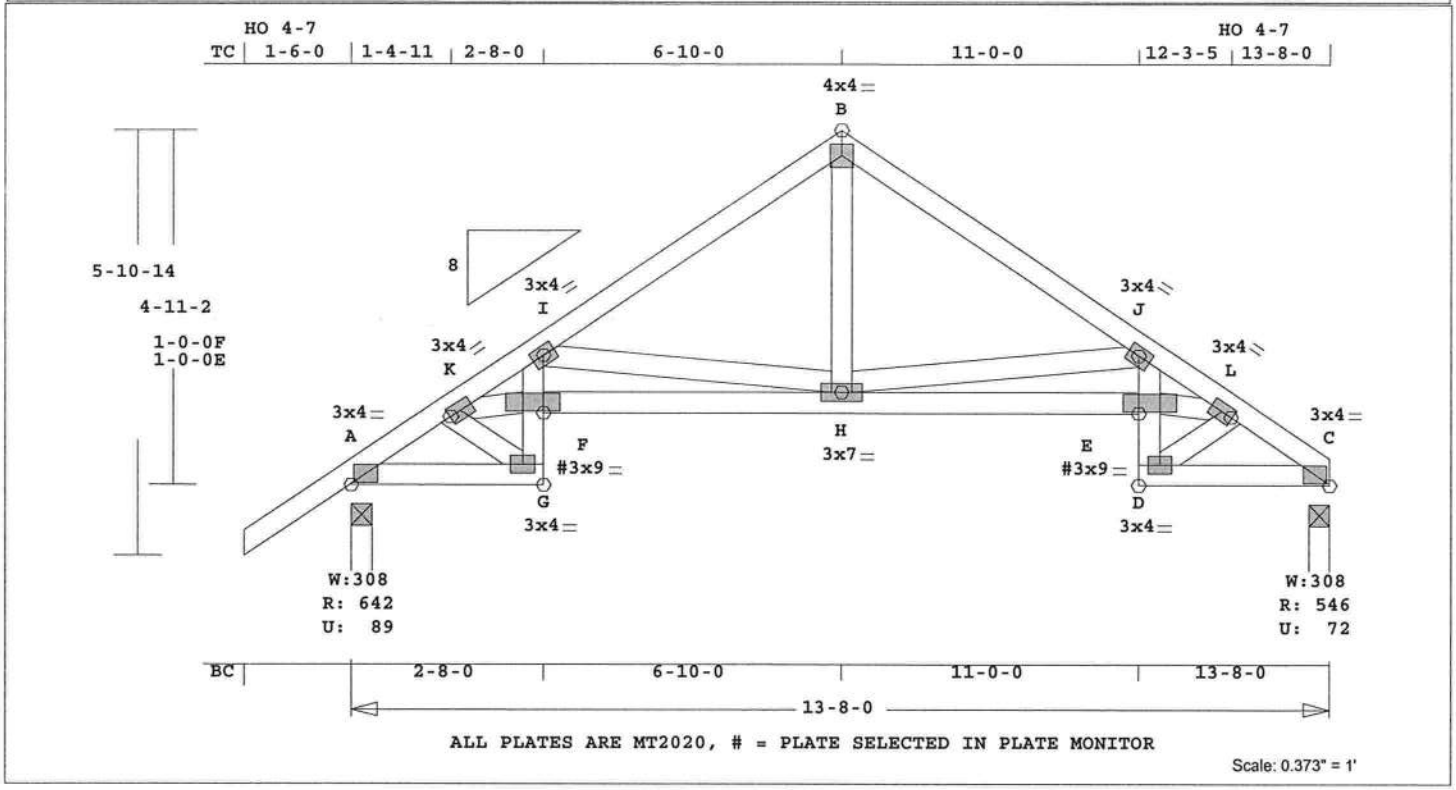
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***D3***	2	SP	130800	8	1- 6- 0	0	*T2850090*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020, # = PLATE SELECTED IN PLATE MONITOR

Scale: 0.373" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 96.2 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.16	2x 4	SP-#2
BC	0.36	2x 4	SP-#2
CW	0.27	2x 4	SP-#2
WB	0.22	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	13- 8- 0
BC	Cont.	0- 0- 0	13- 8- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	643	90 U	91 R
C	547	73 U	91 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -K	0.06	730 C	0.00 0.06
K -I	0.13	1555 C	0.06 0.07
I -B	0.16	643 C	0.00 0.16
B -J	0.16	643 C	0.00 0.16
J -L	0.13	1555 C	0.06 0.07
L -C	0.06	730 C	0.00 0.06
--------Bottom Chords---------			
A -G	0.10	568 T	0.09 0.01
F -H	0.36	1366 T	0.22 0.14
H -E	0.36	1366 T	0.22 0.14
D -C	0.10	568 T	0.09 0.01
----------Chord-Webs----------			
G -F	0.27	343 T	0.06 0.21
F -I	0.16	461 T	0.08 0.08
D -E	0.27	343 T	0.06 0.21
E -J	0.16	461 T	0.08 0.08
------------Webs------------			
K -G	0.05	569 C	
K -F	0.22	1215 T	
I -H	0.20	836 C	
H -B	0.07	431 T	
H -J	0.20	836 C	
E -L	0.22	1215 T	
D -L	0.05	569 C	

TL Defl -0.09" in F -H L/999
LL Defl -0.04" in F -H L/999
Shear // Grain in I -B 0.15

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.63
K	MT20	3.0x 4.0	Ctr	Ctr	0.84
I	MT20	3.0x 4.0	Ctr	Ctr	0.39
B	MT20	4.0x 4.0	Ctr	Ctr	0.53
J	MT20	3.0x 4.0	Ctr	Ctr	0.39
L	MT20	3.0x 4.0	Ctr	Ctr	0.84
C	MT20	3.0x 4.0	Ctr	Ctr	0.63
G	MT20	3.0x 4.0	Ctr	Ctr	0.77
F#	MT20	3.0x 9.0	Ctr	Ctr	0.49
H	MT20	3.0x 7.0	Ctr	Ctr	0.59
E#	MT20	3.0x 9.0	Ctr	Ctr	0.49
D	MT20	3.0x 4.0	Ctr	Ctr	0.77

= Plate Monitor used
REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.

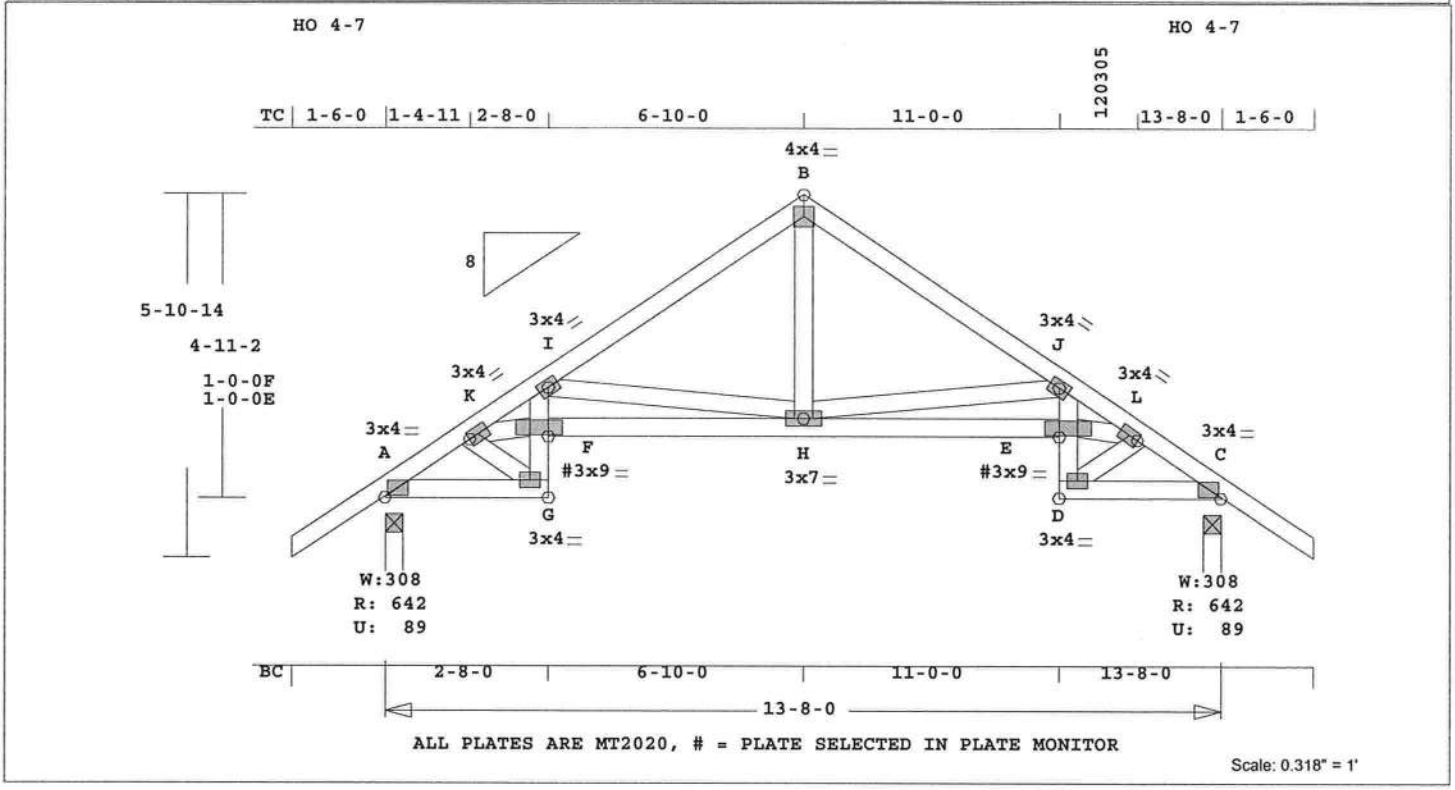
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1555 Lbs
Max tens. force 1366 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*D4*	1	SP	130800	8	1- 6- 0	1- 6- 0	*T2850091*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020, # = PLATE SELECTED IN PLATE MONITOR

Scale: 0.318" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 99.6 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.16	2x 4	SP-#2
BC	0.36	2x 4	SP-#2
CW	0.27	2x 4	SP-#2
WB	0.22	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	13- 8- 0
BC	Cont.	0- 0- 0	13- 8- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	643	90 U	91 R
C	643	90 U	91 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -K	0.06	730 C	0.00 0.06
K -I	0.13	1555 C	0.06 0.07
I -B	0.16	643 C	0.00 0.16
B -J	0.16	643 C	0.00 0.16
J -L	0.13	1555 C	0.06 0.07
L -C	0.06	730 C	0.00 0.06
--------Bottom Chords---------			
A -G	0.10	568 T	0.09 0.01
F -H	0.36	1366 T	0.22 0.14
H -E	0.36	1366 T	0.22 0.14
D -C	0.10	568 T	0.09 0.01
----------Chord-Webs----------			
G -F	0.27	343 T	0.06 0.21
F -I	0.16	461 T	0.08 0.08
D -E	0.27	343 T	0.06 0.21
E -J	0.16	461 T	0.08 0.08
------------Webs------------			
K -G	0.05	569 C	
K -F	0.22	1215 T	
I -H	0.20	836 C	
H -B	0.07	431 T	
H -J	0.20	836 C	
E -L	0.22	1215 T	
D -L	0.05	569 C	

TL Defl -0.09" in F -H L/999
LL Defl -0.04" in F -H L/999
Shear // Grain in I -B 0.15

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.63
K	MT20	3.0x 4.0	Ctr	Ctr	0.84
I	MT20	3.0x 4.0	Ctr	Ctr	0.39
B	MT20	4.0x 4.0	Ctr	Ctr	0.53
J	MT20	3.0x 4.0	Ctr	Ctr	0.39
L	MT20	3.0x 4.0	Ctr	Ctr	0.84
C	MT20	3.0x 4.0	Ctr	Ctr	0.63
G	MT20	3.0x 4.0	Ctr	Ctr	0.77
F#	MT20	3.0x 9.0	Ctr	Ctr	0.49
H	MT20	3.0x 7.0	Ctr	Ctr	0.59
E#	MT20	3.0x 9.0	Ctr	Ctr	0.49
D	MT20	3.0x 4.0	Ctr	Ctr	0.77

= Plate Monitor used
REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.

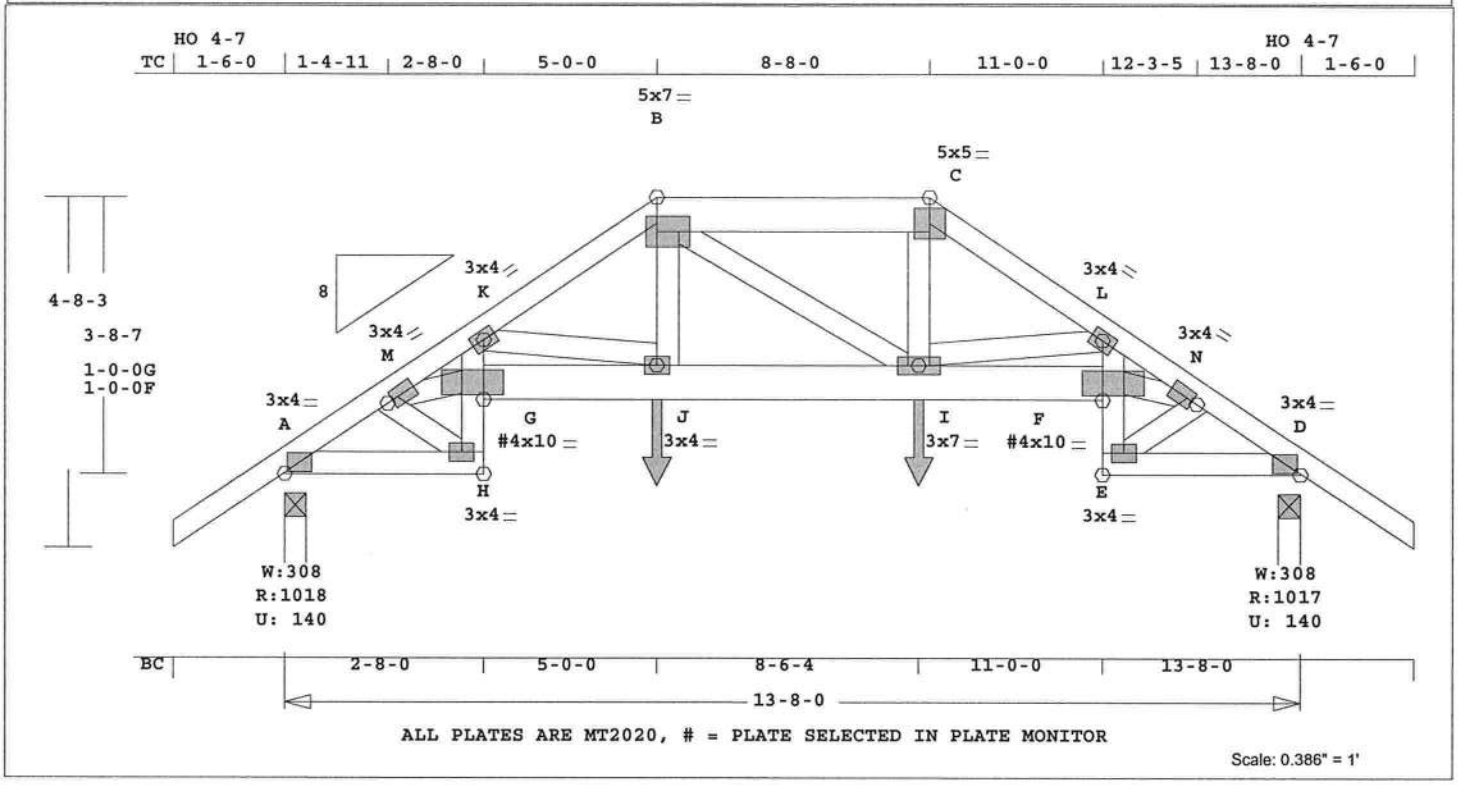
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1555 Lbs
Max tens. force 1366 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*D5*	1	SP	130800	8	1- 6- 0	1- 6- 0	*T2850092*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020, # = PLATE SELECTED IN PLATE MONITOR

Scale: 0.386" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 110.5 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.33	2x 4	SP-#2
--	0.22	2x 6	SP-#2
	B -C		
BC	0.59	2x 6	SP-#2
--	0.23	2x 4	SP-#2
	A -H	E -D	
CW	0.65	2x 4	SP-#2
WB	0.40	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	13- 8- 0
BC	Cont.	0- 0- 0	13- 8- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.00 Fc=1.00 Ft=1.00
BC Fb=1.00 Fc=1.00 Ft=1.00

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1018	140 U	66 R
D	1018	141 U	66 R

Jt	Brg Size	Required
A	3.5"	1.5"
D	3.5"	1.5"

LC# 1 Girder Loading
Dur Fctrs - Lbr 1.25 Plt 1.25

plf -	Dead	Live*	From	To
TC V	20	40	0.0'	13.7'
BC V	20	0	0.0'	13.7'
TC V	15	30	5.0'	8.7'
BC V	15	0	5.0'	8.5'
BC V	133	133	5.0'	CL-LB
BC V	133	133	8.5'	CL-LB

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -M	0.14	1321 C	0.01 0.13
M -K	0.33	2918 C	0.06 0.27
K -B	0.32	1772 C	0.02 0.30
B -C	0.22	1583 C	0.00 0.22
C -L	0.29	1844 C	0.02 0.27
L -N	0.30	2921 C	0.07 0.23
N -D	0.14	1318 C	0.01 0.13
--------Bottom Chords---------			
A -H	0.23	1031 T	0.19 0.04
G -J	0.57	2407 T	0.32 0.25
J -I	0.29	1496 T	0.20 0.09
I -F	0.59	2399 T	0.32 0.27
E -D	0.22	1029 T	0.19 0.03
----------Chord-Webs----------			
H -G	0.63	570 T	0.10 0.53
G -K	0.17	869 T	0.16 0.01
E -F	0.65	563 T	0.10 0.55
F -L	0.15	798 T	0.14 0.01
------------Webs------------			
M -H	0.09	973 C	
M -G	0.40	2188 T	
K -J	0.10	904 C	
J -B	0.10	588 T	
B -I	0.01	102 T	
I -C	0.12	669 T	
I -L	0.10	839 C	
F -N	0.40	2189 T	
E -N	0.09	960 C	

TL Defl -0.15" in J -I L/999
LL Defl -0.07" in G -J L/999
Shear // Grain in E -F 0.31

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.63
M	MT20	3.0x 4.0	0.8	0.6	0.97
K	MT20	3.0x 4.0	Ctr	Ctr	0.74
B	MT20	5.0x 7.0	Ctr	Ctr	0.75
C	MT20	5.0x 5.0	Ctr	Ctr	0.48
L	MT20	3.0x 4.0	Ctr	Ctr	0.68
N	MT20	3.0x 4.0-0.8	0.6		0.96
D	MT20	3.0x 4.0	Ctr	Ctr	0.63
H	MT20	3.0x 4.0	Ctr	Ctr	0.77
G#	MT20	4.0x10.0	Ctr	Ctr	0.58
J	MT20	3.0x 4.0	Ctr	Ctr	0.59
I	MT20	3.0x 7.0	Ctr	Ctr	0.59
F#	MT20	4.0x10.0	Ctr	Ctr	0.58
E	MT20	3.0x 4.0	Ctr	Ctr	0.77

= Plate Monitor used
REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.

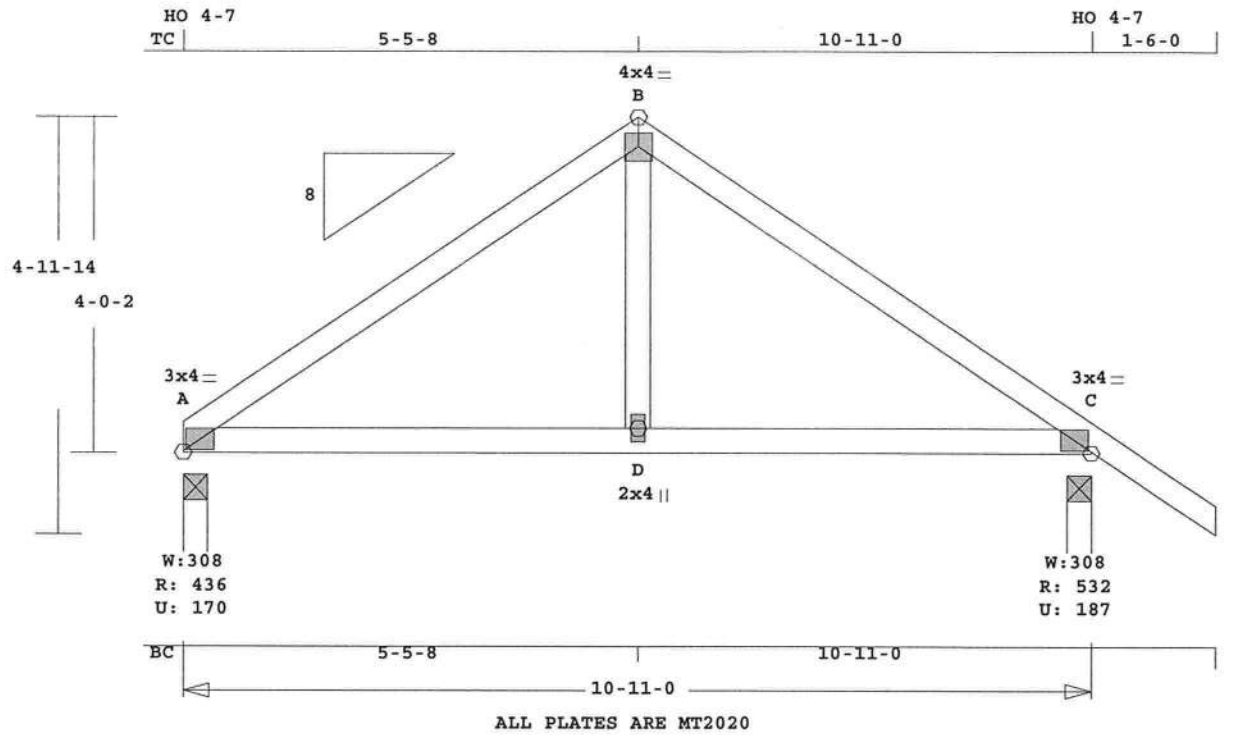
Analysis Conforms To:
FBC2004
Girder Step Down Hip
Framing King Jacks
Jack Open Faced
Setback 5- 0- 0
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 2921 Lbs
Max tens. force 2407 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*E1*	2	TR	101100	8	0	1- 6- 0	*T2850093*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 55.9 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	Size	Lumber
TC	0.22	2x 4	SP-#2
BC	0.25	2x 4	SP-#2
WB	0.05	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	10-11- 0
BC	Cont.	0- 0- 0	10-11- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	437	171 U	72 R
C	533	187 U	72 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -B	0.22	486 T	0.06 0.16
B -C	0.22	486 T	0.06 0.16
Bottom Chords			
A -D	0.25	360 T	0.00 0.25
D -C	0.25	360 T	0.00 0.25
Webs			
D -B	0.05	330 C	

TL Defl -0.03" in D -C L/999
LL Defl -0.01" in D -C L/999
Shear // Grain in A -B 0.16

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.58
B	MT20	4.0x 4.0	Ctr	Ctr	0.50
C	MT20	3.0x 4.0	Ctr	Ctr	0.58
D	MT20	2.0x 4.0	Ctr	Ctr	0.38

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf

User-defined wind-exposed BC regions

--From--	---To---
0- 0- 0	10-11- 0

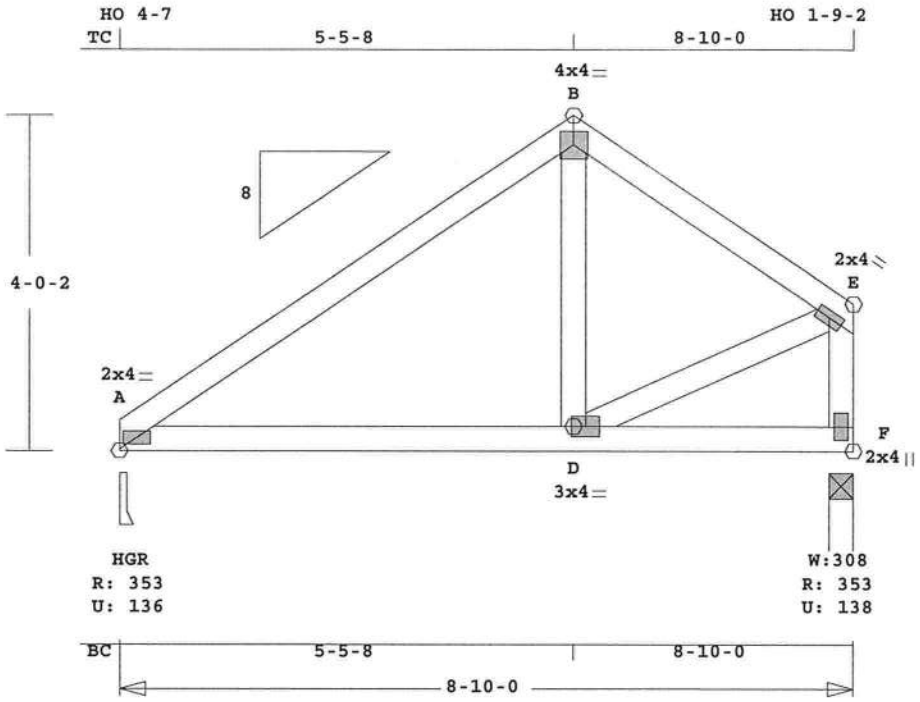
Max comp. force 430 Lbs
Max tens. force 486 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***E2***	2	TR	81000	8	0	0	*T2850094*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020

Scale: 0.432" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 52.4 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.24	2x 4	SP-#2
BC	0.24	2x 4	SP-#2
WB	0.05	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	8-10- 0
BC	Cont.	0- 0- 0	8-10- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	353	137 U	69 R
F	353	139 U	95 R

Jt	Brg Size	Required
A	3.5"	1.5"
F	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.24	364 T	0.04 0.20
B -E	0.16	393 T	0.05 0.11
--------Bottom Chords---------			
A -D	0.24	227 T	0.00 0.24
D -F	0.24	74 T	0.00 0.24
------------Webs------------			
D -B	0.04	241 C	
D -E	0.04	278 C	
F -E	0.05	383 T	WindLd

TL Defl -0.04" in A -D L/999
LL Defl -0.02" in A -D L/999
Shear // Grain in A -D 0.20

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.67
B	MT20	4.0x 4.0	Ctr	Ctr	0.47
E	MT20	2.0x 4.0	Ctr	Ctr	0.78
D	MT20	3.0x 4.0	Ctr	Ctr	0.39
F	MT20	2.0x 4.0	Ctr	Ctr	0.38

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

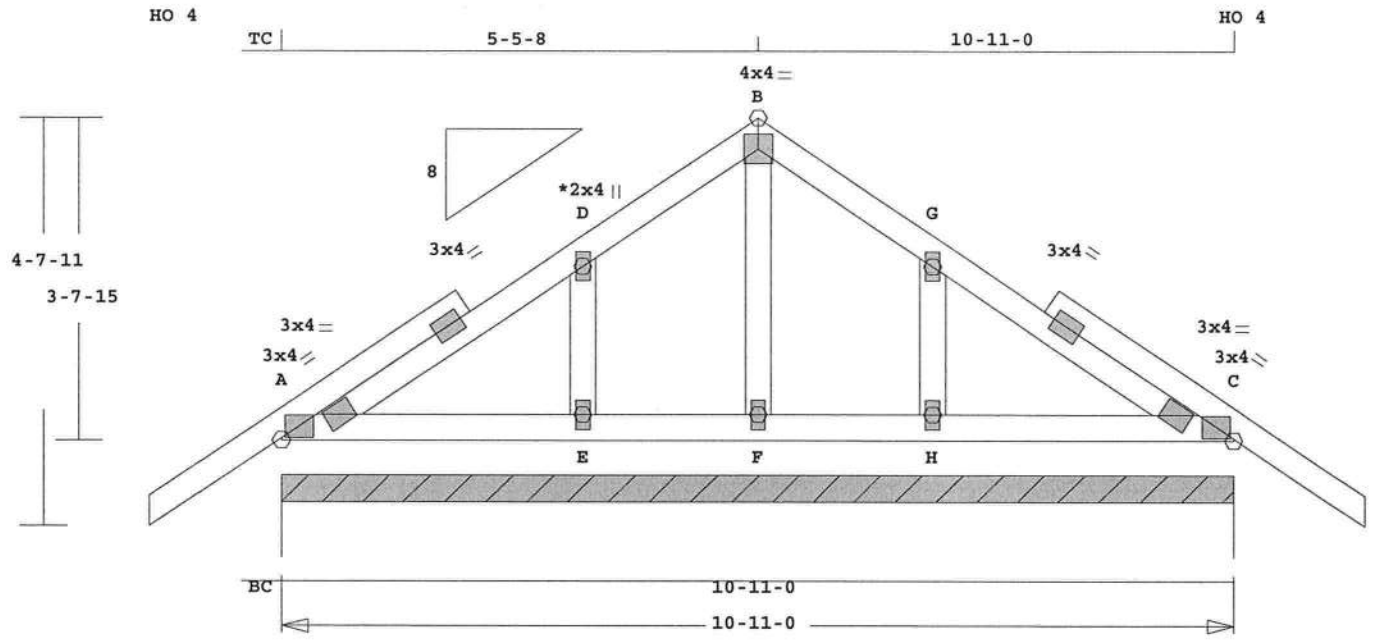
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
0- 0- 0 8-10- 0
Max comp. force 339 Lbs
Max tens. force 393 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*E3*	1	TR	101100	8	0	0	*T2850095*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 72.6 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.07	2x 4	SP-#2
BC	0.06	2x 4	SP-#2
GW	0.02	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	10-11- 0
BC	Cont.	0- 0- 0	10-11- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	873	116 U	65 R

Jt	Brg Size	Required
A	131.0"	0"-to- 131"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -D	0.07	116 C	0.00 0.07
D -B	0.07	162 C	0.00 0.07
B -G	0.07	162 C	0.00 0.07
G -C	0.07	116 C	0.00 0.07
--------Bottom Chords---------			
A -E	0.06	4 T	0.00 0.06
E -F	0.04	0 T	0.00 0.04
F -H	0.04	0 T	0.00 0.04
H -C	0.06	4 T	0.00 0.06

----------Gable Webs----------

E -D	0.02	186 C
F -B	0.01	103 T
H -G	0.02	186 C

TL Defl 0.00" in H -C L/999
LL Defl 0.00" in H -C L/999
Shear // Grain in A -D 0.11

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.58
D	MT20	2.0x 4.0	Ctr	Ctr	0.00
B	MT20	4.0x 4.0	Ctr	Ctr	0.50
G	MT20	2.0x 4.0	Ctr	Ctr	0.00
C	MT20	3.0x 4.0	Ctr	Ctr	0.58
E	MT20	2.0x 4.0	Ctr	Ctr	0.00
F	MT20	2.0x 4.0	Ctr	Ctr	0.00
H	MT20	2.0x 4.0	Ctr	Ctr	0.00

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-02

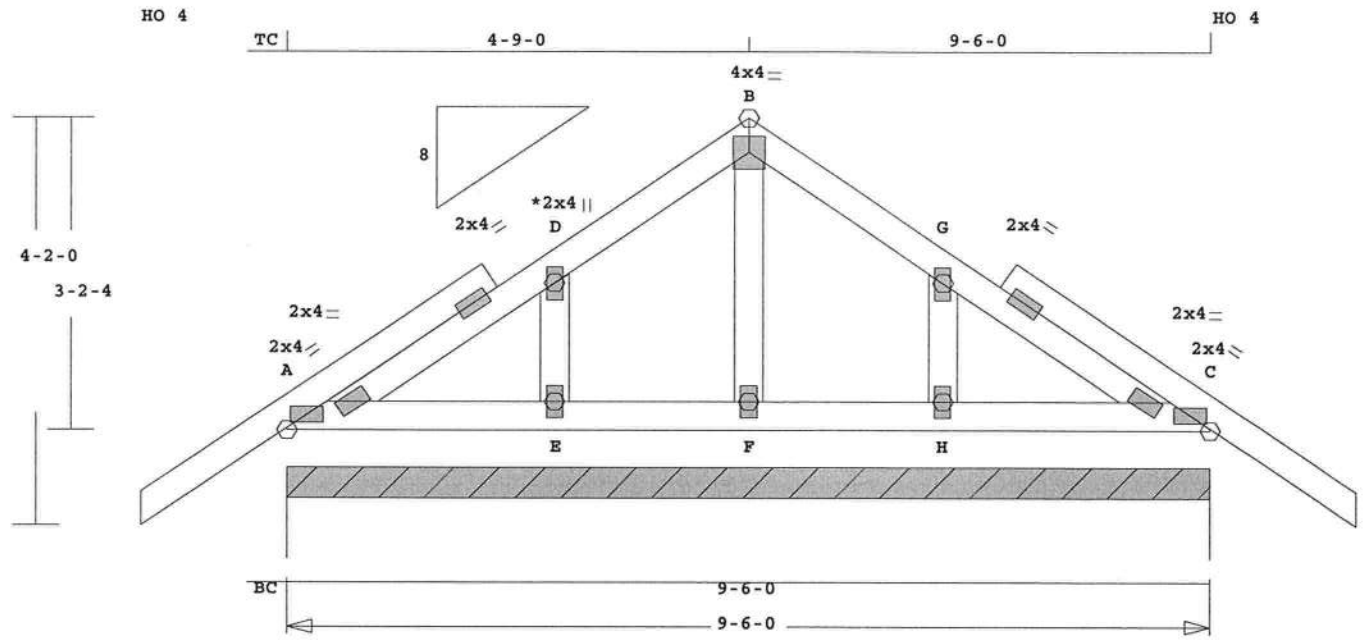
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 186 Lbs
Max tens. force 153 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
SPARKS-LOT97	*F1*	1	TR	90600	8	0	0	*T2850096*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020

See Joint D For Typical Gable Plate Size and Placement

Scale: 0.506" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 64.0 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.04	2x 4	SP-#2
BC	0.03	2x 4	SP-#2
GW	0.01	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	9- 6- 0
BC	Cont.	0- 0- 0	9- 6- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	760	101 U	55 R

Jt	Brg Size	Required
A	114.0"	0"-to- 114"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -D	0.04	77 C	0.00 0.04
D -B	0.04	113 C	0.00 0.04
B -G	0.04	113 C	0.00 0.04
G -C	0.04	77 C	0.00 0.04
Bottom Chords			
A -E	0.03	5 T	0.00 0.03
E -F	0.03	0 T	0.00 0.03
F -H	0.03	0 T	0.00 0.03
H -C	0.03	5 T	0.00 0.03

Gable Webs

E -D	0.01	156 C
F -B	0.00	37 T
H -G	0.01	156 C

TL Defl 0.00" in H -C L/999
LL Defl 0.00" in H -C L/999
Shear // Grain in A -D 0.08

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.68
D	MT20	2.0x 4.0	Ctr	Ctr	0.00
B	MT20	4.0x 4.0	Ctr	Ctr	0.48
G	MT20	2.0x 4.0	Ctr	Ctr	0.00
C	MT20	2.0x 4.0	Ctr	Ctr	0.68
E	MT20	2.0x 4.0	Ctr	Ctr	0.00
F	MT20	2.0x 4.0	Ctr	Ctr	0.00
H	MT20	2.0x 4.0	Ctr	Ctr	0.00

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-02

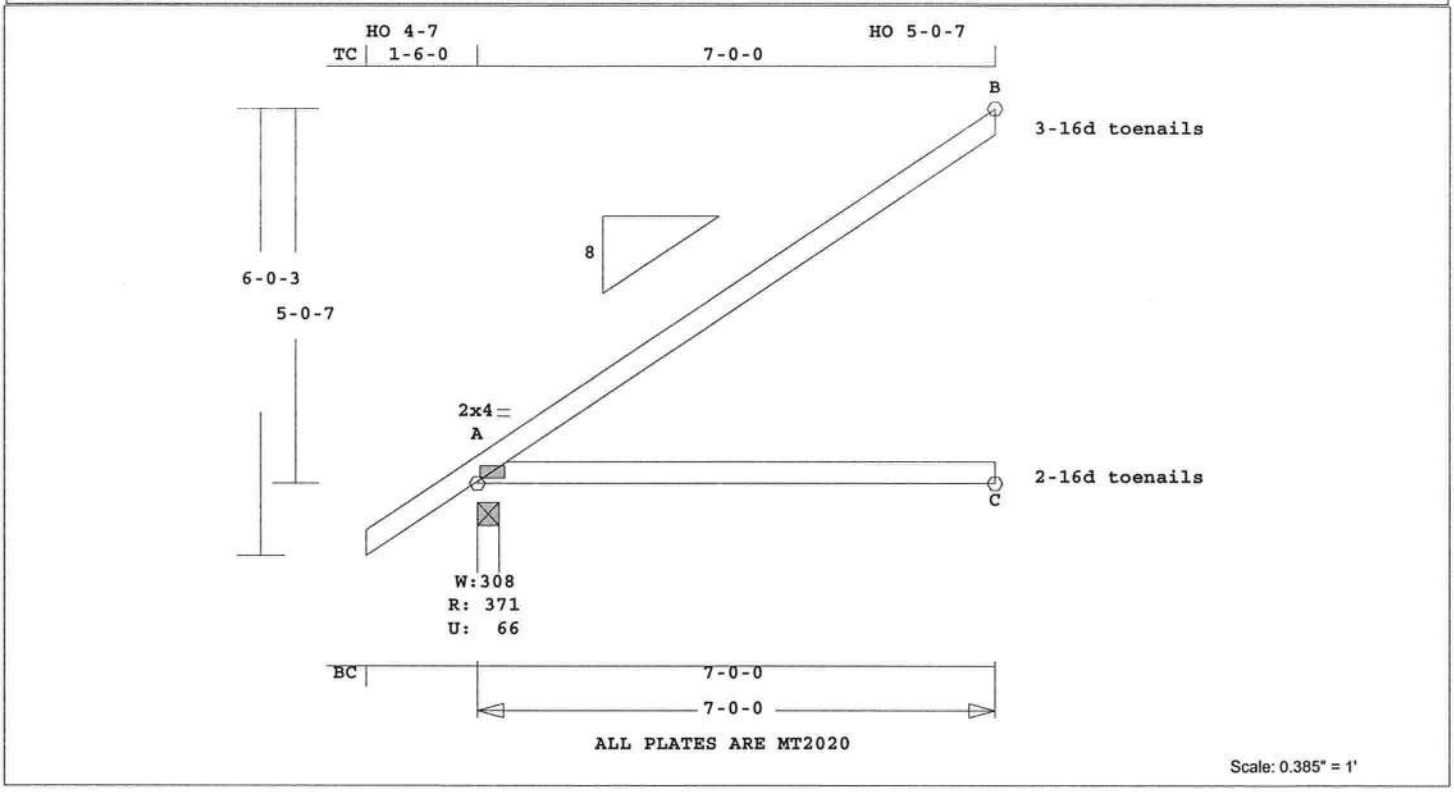
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 156 Lbs
Max tens. force 130 Lbs
Quality Control Factor 1.25

Philip J. O'Regan, FL Lic. #58126
Robbins Engineering
6904 Parke East Blvd
Tampa, FL, 33610
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*J1*	18	JCA2	70000	8	1- 6- 0	0	*T2850097*

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 32.9 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.47	2x 4	SP-#2
BC	0.35	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	7- 0- 0
BC	Cont.	0- 0- 0	7- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	372	67 U	228 R
C	133		
B	213	104 U	97 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"
B	3.5"	1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.47	124 C	0.00 0.47
B -B	0.00	4 C	
--------Bottom Chords---------			
A -C	0.35	0 T	0.00 0.35

TL Defl -0.19" in A -C L/415
LL Defl -0.08" in A -C L/999
Shear // Grain in A -B 0.22

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.64

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf

Max comp. force 124 Lbs
Max tens. force 98 Lbs
Quality Control Factor 1.25

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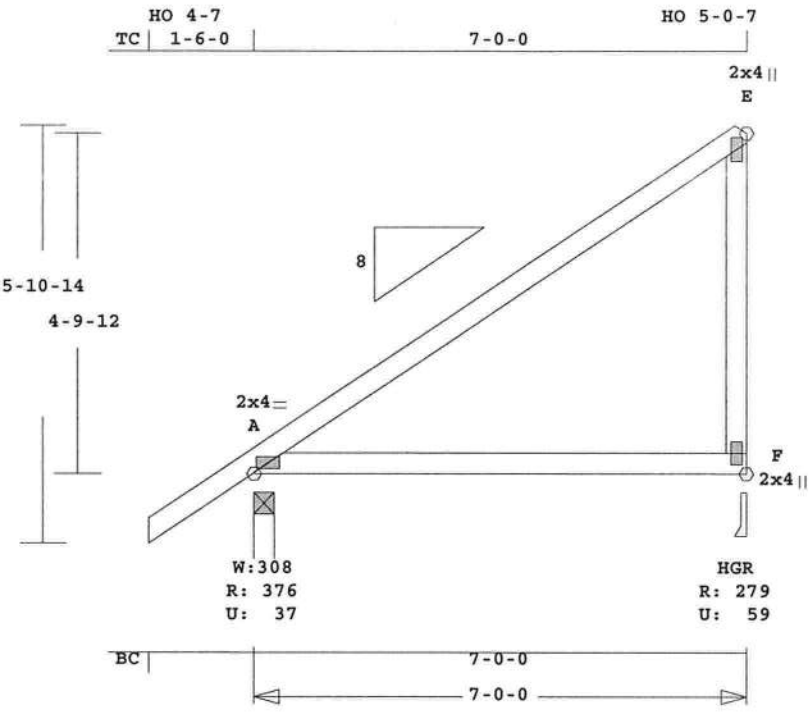
January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	*J1A*	3	TR	70000	8	1- 6- 0	0	*T2850098*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020

Scale: 0.366" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 41.0 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.49	2x 4	SP-#2
BC	0.36	2x 4	SP-#2
WB	0.11	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	7- 0- 0
BC	Cont.	0- 0- 0	7- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	376	38 U	82 R
F	280	60 U	164 R

Jt	Brg Size	Required
A	3.5"	1.5"
F	3.5"	1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -E	0.49	90 C	0.00 0.49
--------Bottom Chords---------			
A -F	0.36	128 T	0.00 0.36
------------Webs------------			
F -E	0.11	189 C	WindLd

TL Defl -0.19" in A -F L/409
LL Defl -0.08" in A -F L/999
Shear // Grain in A -E 0.22

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.64
E	MT20	2.0x 4.0	Ctr	Ctr	0.38
F	MT20	2.0x 4.0	Ctr	Ctr	0.38

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 189 Lbs
Max tens. force 128 Lbs
Quality Control Factor 1.25

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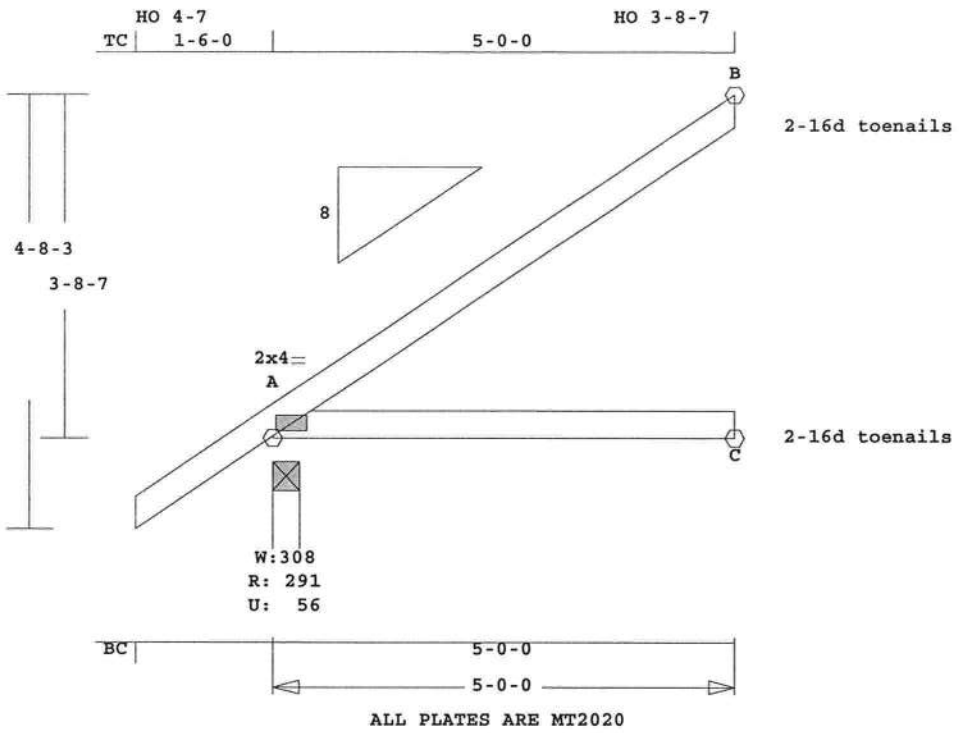
January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	*J2*	4	JCA2	50000	8	1- 6- 0	0	*T2850099*

SPARKS CONSTRUCTION



Scale: 0.479" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 24.6 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.22	2x 4	SP-#2
BC	0.16	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	5- 0- 0
BC	Cont.	0- 0- 0	5- 0- 0

psf-Ld	Dead	Live	
TC	10.0	20.0	
BC	10.0	0.0	
TC+BC	20.0	20.0	
Total	40.0	Spacing	24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	292	57 U	168 R
C	95		
B	158	76 U	69 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"
B	3.5"	1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.22	93 C	0.00 0.22
B -B	0.00	4 C	
--------Bottom Chords---------			
A -C	0.16	0 T	0.00 0.16

TL Defl -0.04" in A -C L/999
LL Defl -0.02" in A -C L/999
Shear // Grain in A -B 0.14

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.60

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf

Max comp. force 93 Lbs
Max tens. force 73 Lbs
Quality Control Factor 1.25

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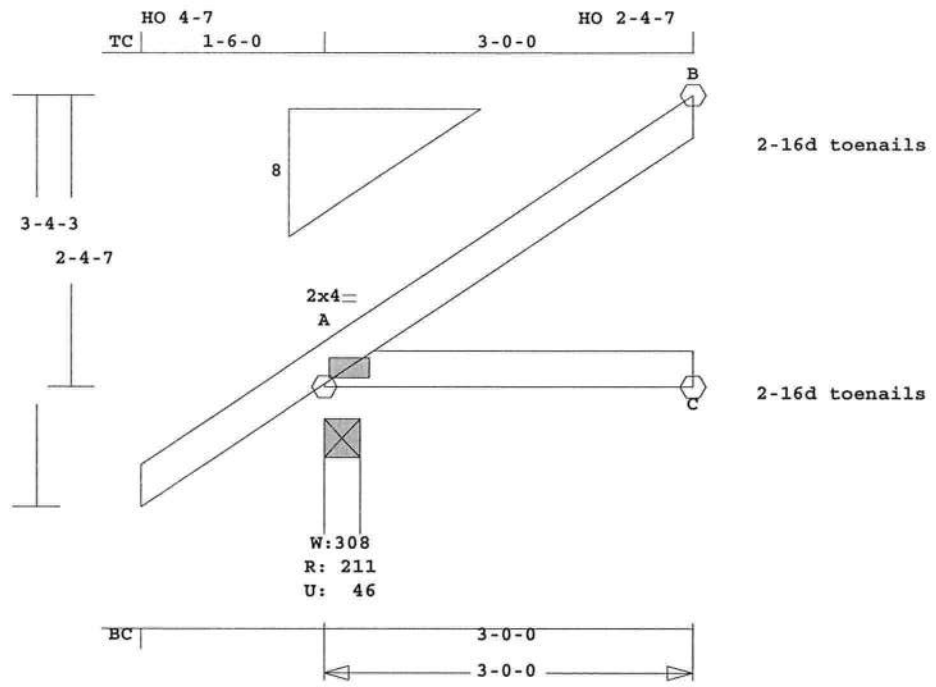
FL Cert.#5555

January 10,2008

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
SPARKS-LOT97	*J3*	4	JCA2	30000	8	1- 6- 0	0	*T2850100*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020

Scale: 0.637" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 16.3 LBS

```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.06  2x 4  SP-#2
BC  0.05  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.     0- 0- 0  3- 0- 0
 BC  Cont.     0- 0- 0  3- 0- 0

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    211    46 U   100 R
C     57
B     99    48 U    41 R

Jt   Brg Size   Required
A       3.5"       1.5"
C       3.5"       1.5"
B       3.5"       1.5"

Plus  8 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -B  0.06    58 C  0.00  0.06
B -B  0.00     4 C
--------Bottom Chords---------
A -C  0.05     0 T  0.00  0.05
```

```
TL Defl   0.00" in A -C  L/999
LL Defl   0.00" in A -C  L/999
Shear // Grain  in A -B   0.07

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  2.0x 4.0 Ctr Ctr 0.59

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

For proper installation of
toe-nails, refer to the 2001
National Design Specification
(NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
```

```
Max comp. force       58 Lbs
Max tens. force       46 Lbs
Quality Control Factor 1.25
```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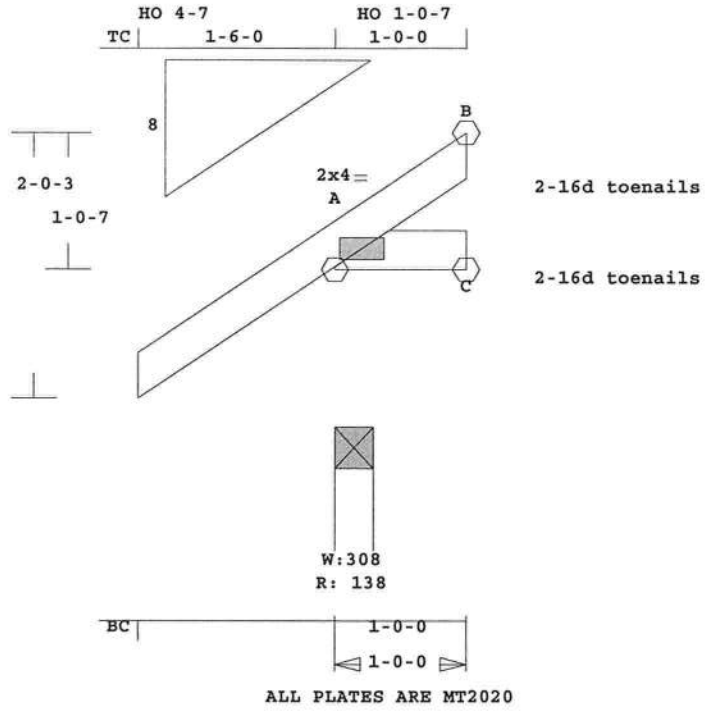
January 10,2008

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
SPARKS-LOT97	*J4*	8	JCA2	10000	8	1- 6- 0	0	*T2850101*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020

Scale: 0.682" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 7.9 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.00	2x 4	SP-#2
BC	0.00	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	1- 0- 0
BC	Cont.	0- 0- 0	1- 0- 0

psf-Ld	Dead	Live	
TC	10.0	20.0	
BC	10.0	0.0	
TC+BC	20.0	20.0	
Total	40.0	Spacing	24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	138		32 R
B	33	16 U	
C	17		13 R

Jt	Brg Size	Required
A	3.5"	1.5"
B	1.5"	1.5"
C	1.5"	1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.00	18 C	
--------Bottom Chords---------			
A -C	0.00	13 T	

TL Defl 0.00" in A -C L/999
LL Defl 0.00" in A -C L/999
Shear // Grain in A -B 0.02

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.59

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 18 Lbs
Max tens. force 15 Lbs
Quality Control Factor 1.25

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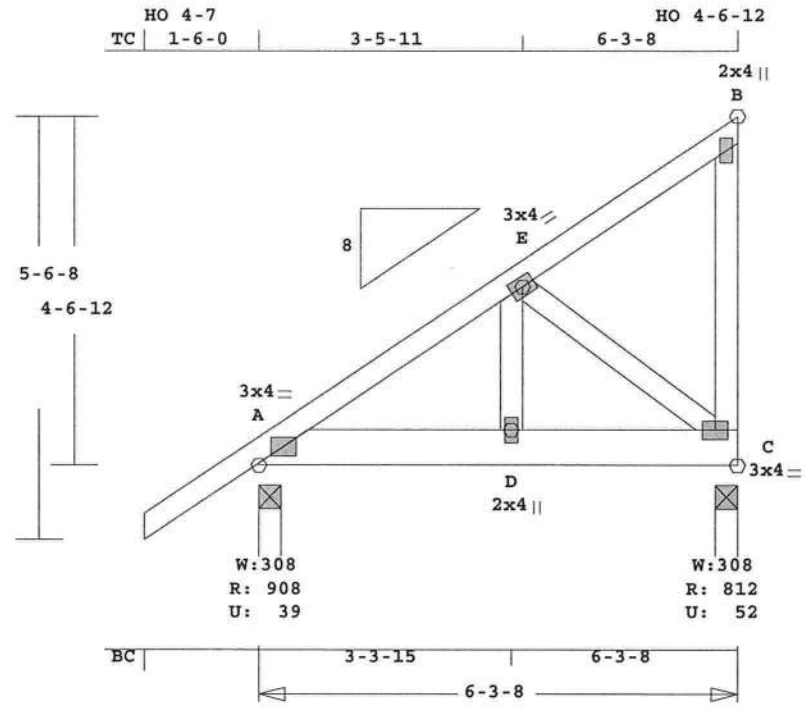
January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	MG1	1	SP	60308	8	1- 6- 0	0	T2850102

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020

Scale: 0.395" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 52.5 LBS

```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.17  2x 4  SP-#2
BC  0.25  2x 6  SP-#2
WB  0.12  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0   6- 3- 8
 BC  Cont.    0- 0- 0   6- 3- 8

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.00  Fc=1.00  Ft=1.00
BC Fb=1.00  Fc=1.00  Ft=1.00

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    909    40 U    69 R
C    813    52 U   145 R

Jt   Brg Size   Required
A       3.5"       1.5"
C       3.5"       1.5"

LC#  1  Girder Loading
Dur Fctrs - Lbr 1.25  Plt 1.25
plf - Dead  Live* From    To
TC V    20    40   0.0'   6.3'
BC V   109    89   0.0'   6.3'

Plus  8 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -E  0.17   722 C  0.08  0.09
E -B  0.11    75 T  0.00  0.11
--------Bottom Chords---------
A -D  0.25   614 T  0.08  0.17
D -C  0.21   614 T  0.08  0.13
------------Webs-------------
D -E  0.12   672 T
E -C  0.12   777 C
C -B  0.08    74 C WindLd

TL Defl  -0.01" in A -D  L/999
LL Defl  -0.01" in A -D  L/999
Shear // Grain  in A -D   0.28

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  3.0x 4.0 Ctr Ctr 0.64
E  MT20  3.0x 4.0 Ctr Ctr 0.57
B  MT20  2.0x 4.0 Ctr Ctr 0.38
D  MT20  2.0x 4.0 Ctr Ctr 0.44
C  MT20  3.0x 4.0 Ctr Ctr 0.62

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
Girder    Common
  Loading BC
  Span    10-11- 0
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Use properly rated hangers for
  loads framing into girder
  truss.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
User-defined wind-exposed BC
  regions  --From--   ---To---
           0- 0- 0    6- 3- 8
Max comp. force      777 Lbs
Max tens. force      672 Lbs
Quality Control Factor 1.25
```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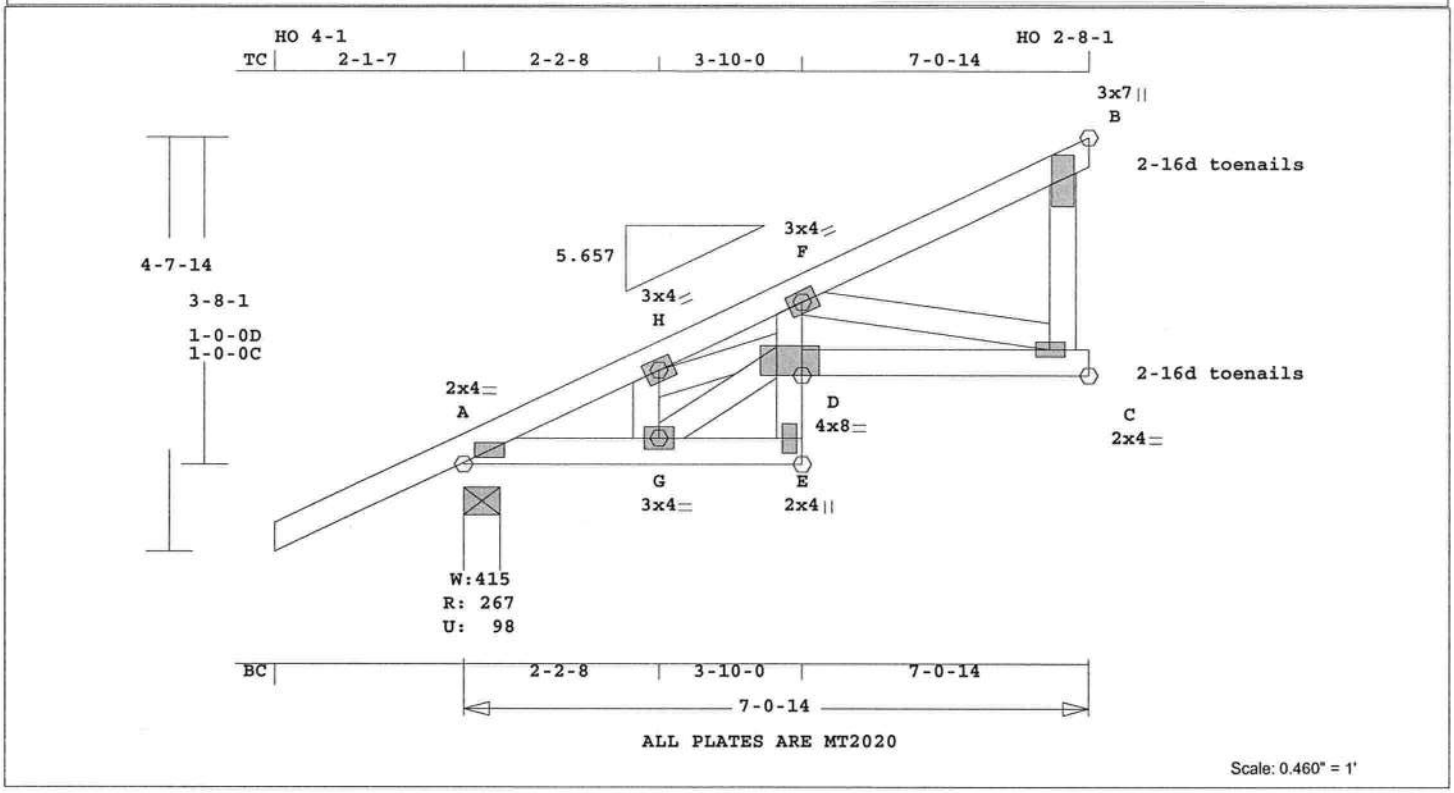
January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SPARKS-LOT97	VCJ1	2	SP	70014	5.657	2- 1- 7	0	T2850103

SPARKS CONSTRUCTION



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 52.3 LBS

```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.17  2x 4  SP-#2
BC  0.12  2x 4  SP-#2
CW  0.06  2x 4  SP-#2
WB  0.06  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0  7- 0-14
 BC  Cont.    0- 0- 0  7- 0-14

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.00  Fc=1.00  Ft=1.00
BC Fb=1.00  Fc=1.00  Ft=1.00

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    267     99 U    77 R
C    166      9 U
B    123     41 U    80 R

Jt   Brg Size   Required
A       4.9"       1.5"
C       1.5"       1.5"
B       1.5"       1.5"

LC#  1  Standard Loading
Dur Fctrs - Lbr 1.25  Plt 1.25
plf - Dead  Live* From    To
TC V    20    40   0.0'   7.1'
BC V    20     0   0.0'   7.1'
TC V   -20   -40   0.0'
         8    17          7.1'
BC V   -20     0   0.0'
         8     0          7.1'

Plus  7 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI   P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -H  0.02    228 C  0.01  0.01
H -F  0.15    444 C  0.04  0.11
F -B  0.17     51 T  0.00  0.17
--------Bottom Chords---------
A -G  0.03    204 T  0.03  0.00
G -E  0.01     28 C  0.00  0.01
D -C  0.12    429 T  0.07  0.05
----------Chord-Webs----------
E -D  0.04     25 T  0.00  0.04
D -F  0.06    204 T  0.03  0.03
-------------Webs-------------
G -H  0.01    107 C
G -D  0.04    218 T
H -D  0.03    220 C
F -C  0.06    447 T
C -B  0.02      0 T WindLd

TL Defl  -0.02" in D -C  L/999
LL Defl  -0.01" in D -C  L/999
Shear // Grain  in F -B   0.16

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  2.0x 4.0 Ctr Ctr 0.70
H  MT20  3.0x 4.0 Ctr Ctr 0.47
F  MT20  3.0x 4.0 Ctr Ctr 0.27
B  MT20  3.0x 7.0 Ctr-0.3 0.36
G  MT20  3.0x 4.0 Ctr Ctr 0.38
E  MT20  2.0x 4.0 Ctr Ctr 0.58
D  MT20  4.0x 8.0 Ctr 0.2 0.75
C  MT20  2.0x 4.0 Ctr Ctr 0.76

REVIEWED BY:
 Robbins Engineering, Inc.
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 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

For proper installation of
toe-nails, refer to the 2001
National Design Specification
(NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.

Analysis Conforms To:
  FBC2004
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Max gap between edge of brg
  and end vertical or
  diagonal web is 1/2".
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
Max comp. force      444 Lbs
Max tens. force      447 Lbs
Quality Control Factor 1.25
```


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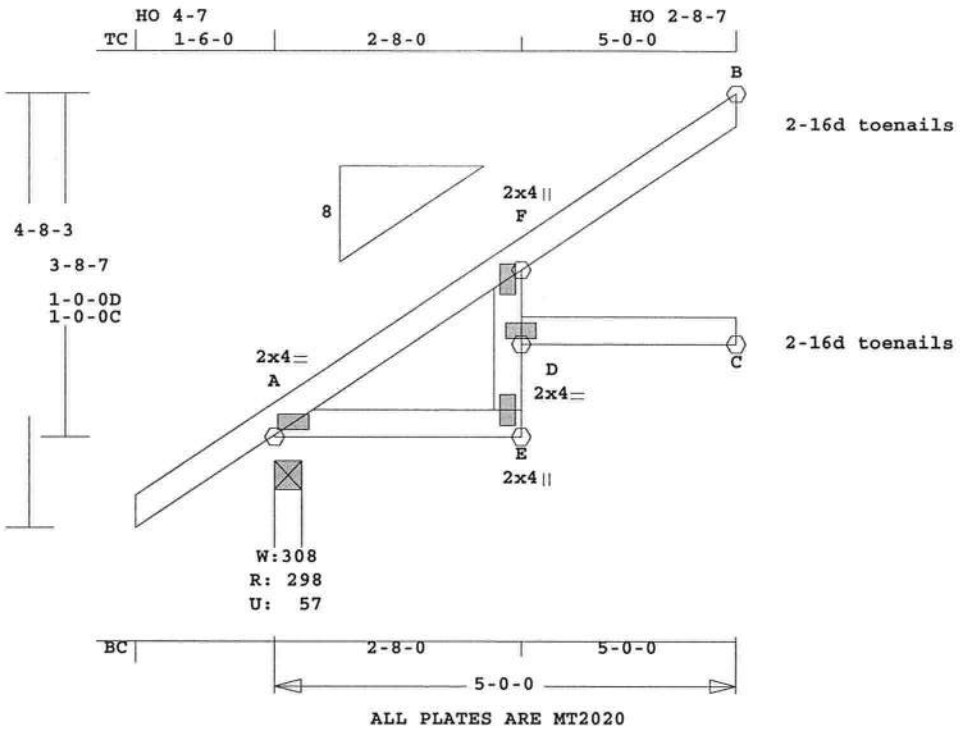
January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	***VJ1***	3	SP	50000	8	1- 6- 0	0	*T2850104*

SPARKS CONSTRUCTION



ALL PLATES ARE MT2020

Scale: 0.479" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 27.4 LBS

```
Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

     CSI -Size- ----Lumber----
TC  0.14  2x 4  SP-#2
BC  0.31  2x 4  SP-#2
CW  0.15  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0  5- 0- 0
 BC  Cont.    0- 0- 0  5- 0- 0

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    298    58 U   168 R
C     97    14 U
B    112    49 U    69 R

Jt   Brg Size   Required
A       3.5"       1.5"
C       1.5"       1.5"
B       1.5"       1.5"

Plus  8 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -F  0.12   144 C  0.00  0.12
F -B  0.14    60 T  0.00  0.14
--------Bottom Chords---------
A -E  0.06   107 T  0.01  0.05
E -D  0.08    28 T  0.00  0.08
D -C  0.31     0 T  0.00  0.31
----------Chord-Webs----------
E -D  0.09    28 T  0.00  0.09
D -F  0.15    59 T  0.00  0.15

TL Defl  -0.05" in D -C  L/999
LL Defl  -0.02" in D -C  L/999
Shear // Grain  in D -C   0.12

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  MT20  2.0x 4.0 Ctr Ctr 0.60
F  MT20  2.0x 4.0 Ctr Ctr 0.13
E  MT20  2.0x 4.0 Ctr Ctr 0.58
D  MT20  2.0x 4.0 Ctr Ctr 0.58

REVIEWED BY:
 Robbins Engineering, Inc.
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 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

For proper installation of
toe-nails, refer to the 2001
National Design Specification
(NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2004
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
Max comp. force      144 Lbs
Max tens. force      107 Lbs
Quality Control Factor 1.25
```


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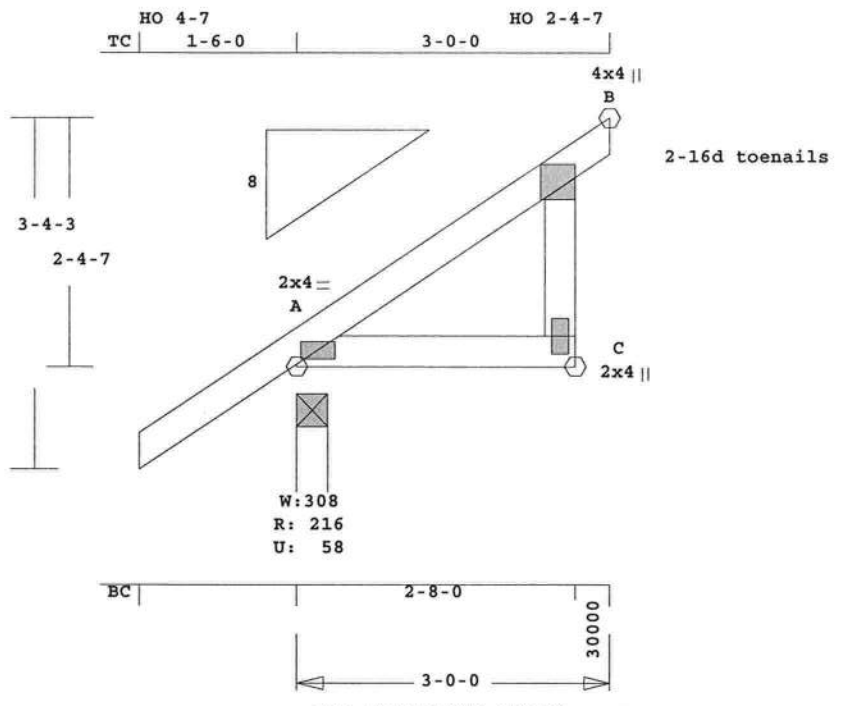
January 10,2008

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SPARKS-LOT97	*VJ2*	4	SP	30000	8	1- 6- 0	0	*T2850105*

SPARKS CONSTRUCTION



Scale: 0.542" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 18.5 LBS

Online Plus -- Version 21.5.041
RUN DATE: 10-JAN-08

	CSI	-Size-	----Lumber----
TC	0.09	2x 4	SP-#2
BC	0.05	2x 4	SP-#2
WB	0.01	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	3- 0- 0
BC	Cont.	0- 0- 0	3- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	217	58 U	32 R
B	113	32 U	64 R

Jt	Brg Size	Required
A	3.5"	1.5"
B	1.5"	1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.09	42 T	0.00 0.09
B -B	0.05	62 T	0.00 0.05
--------Bottom Chords---------			
A -C	0.05	49 T	0.00 0.05
-------------Webs-------------			
C -B	0.01	53 T	WindLd

TL Defl -0.01" in A -C L/999
LL Defl 0.00" in A -C L/999
Shear // Grain in B -B 0.11

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.59
B	MT20	4.0x 4.0-0.2	0.7	0.27	
C	MT20	2.0x 4.0	Ctr	Ctr	0.38

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00

Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 37 Lbs
Max tens. force 62 Lbs
Quality Control Factor 1.25

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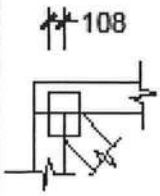
January 10,2008

ROBBINS ENG. GENERAL NOTES & SYMBOLS

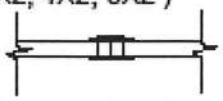
PLATE LOCATION



Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

FLOOR TRUSS SPLICE

(3X2, 4X2, 6X2)



(W) = Wide Face Plate
(N) = Narrow Face Plate

LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

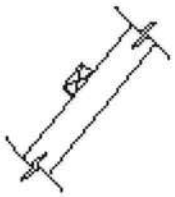
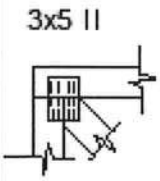


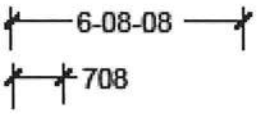
PLATE SIZE AND ORIENTATION

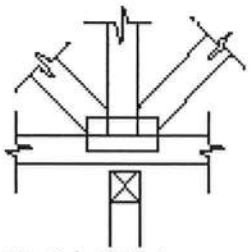


The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6' 8 1/2" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).





W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before erecting this truss. If necessary, shim bearings to assure solid contact with truss.

ROBBINS connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on truss design drawings refer to common wire nails, except as noted.
The attached design drawings were prepared in accordance with " National Design Specifications for Wood Construction" (AF & PA)," National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Robbins Eng. Co. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to BCSI 1-03 as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and " dominoing ". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS FABRICATOR.

Robbins Engineering, Inc.

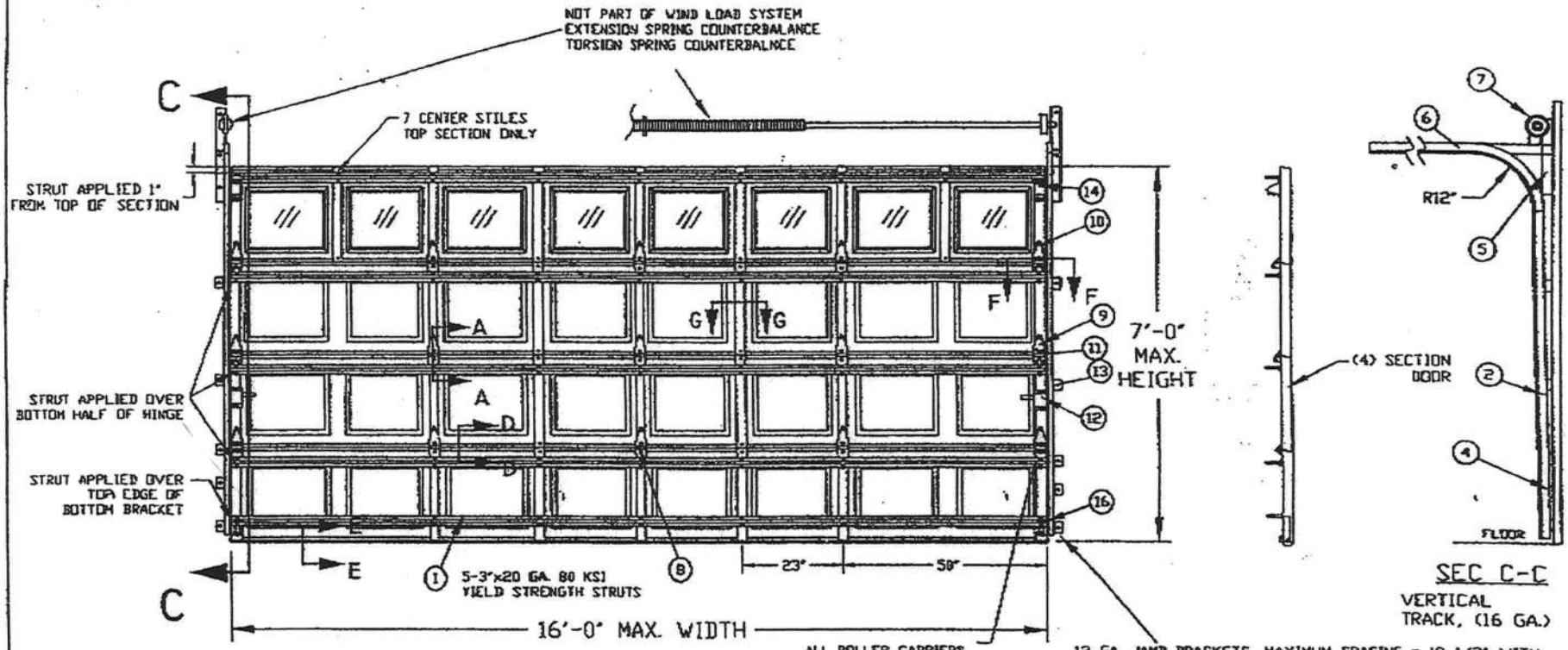
6904 Parke East Blvd.
Tampa, Fl 33610-4115
Tel: 813-972-1135 Fax: 813-971-6117

www.robbinseng.com

REV.	DATE	BY	DESCRIPTION
A-A	11-10-00	DW	SEE E.C.N. 831

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5½" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. ▲A DROP IN TYPE OF INSULATION IS OPTIONAL



INSIDE ELEVATION

SEC C-C
VERTICAL TRACK, (16 GA.)

The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s) and dimensions and installation(s) of the door as tested.

ALEXANDER R. TEYAN ENGINEER
SEAL
PE No. 024280
NORTH CAROLINA PROFESSIONAL

LISTED SBCCI PST & ESI
REPORT No. 2202

TEST REPORTS ON FILE: VIDEO 10/19/00 (00293)

DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN ▲A
SERIES 7524, EXTERIOR STEEL =.024" MIN ▲A
(TESTED) WITH WINDOWS

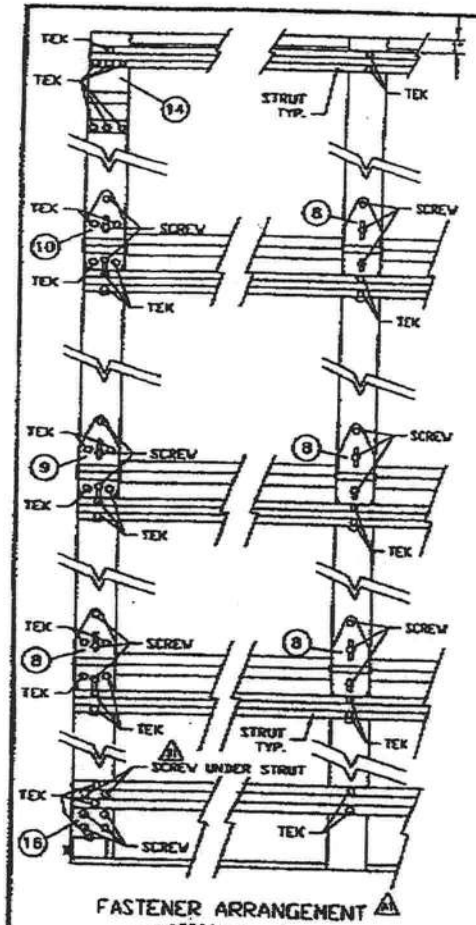
MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

GADCO
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: 1/25	APPROVED BY:	DRAWN BY: D. WIEDMAN
DATE: 10-20-00		REVISED: (A) 11-10-00

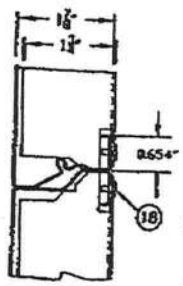
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF

PART NUMBER: PAGE 1 OF 2 — DRAWING NUMBER: W13220-1

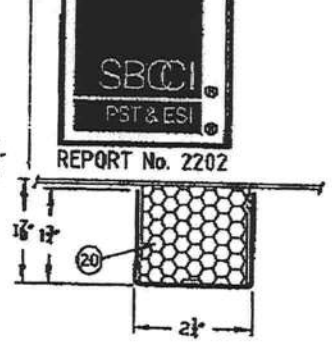


FASTENER ARRANGEMENT

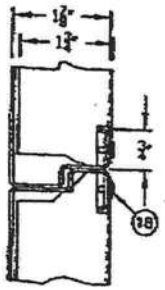
LISTED
SBCCI PST & ESI
REPORT No. 2202



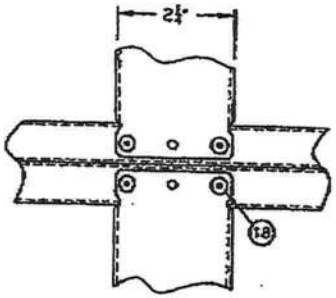
SEC D-D
PAN ATTACHMENT TO STILE (OPTIONAL)



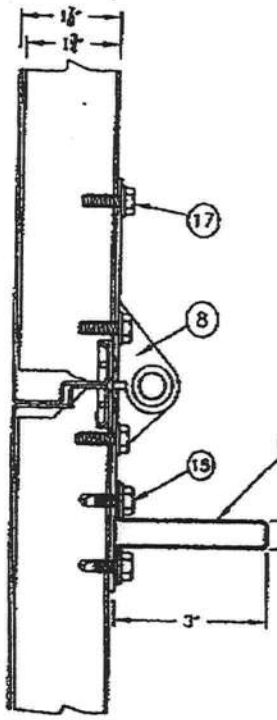
SEC G-G
CENTER STILE
20 GA. GALVANIZED



SEC D-D
PAN ATTACHMENT TO STILE (AS TESTED)

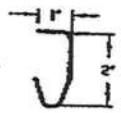


PAN ATTACHMENT TO STILE

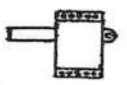


SEC A-A

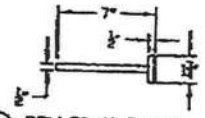
REV.	DATE	BY	DESCRIPTION
A	11-27-00	DW	SEE ECN 836
B	12-1-00	DW	SEE ECN 838



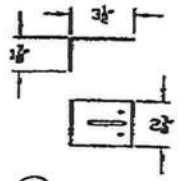
TRACK
16 GA. C055 MIN.)



(12) SIDE LOCK



(11) ROLLER 10 BALLS

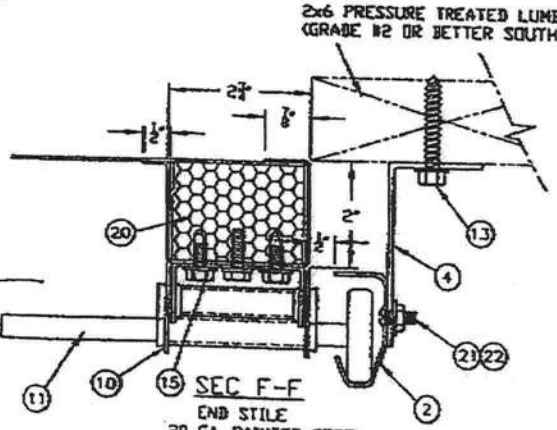


(4) #6 JAMB BRACKET

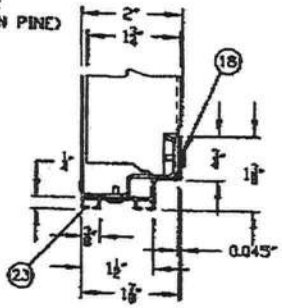
(1) 5-3"x20 GA. 80 KSI YIELD STRENGTH HEMMED STRUT APPLIED WITH 2 TEK SCREWS PER HINGE OR STILE LOCATION (14 PER STRUT, MINIMUM)

(17) 1/4-20 x 3/4 HEX WASHERHEAD SCREW

(15) 1/4-20 x 3/4 HWH TEK SCREW WITH #2 REDUCED POINT



SEC F-F
END STILE
20 GA. PAINTED STEEL



SEC E-E

ITEM	PART NO.	DESCRIPTION
23	3485	BOTTOM RAIL, 6063 T6 ALUM EXT.
22	1391	1/4"-20 X 5/8" RIBBED NECK SCREW
21	4044	1/4"-20 SERRATED FLANGE NUT
20		L.D. DENSITY FILLER BLOCK EPS
19		
18	4385	POP RIVET, 5/32" STEEL
17	4229	HEX WASHERHEAD SCREW 1/4"-20 X 3/4"
16	1399LLR	BOTTOM ROLLER BRACKET
15	0138	HWH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
14	3875	TOP SUPPORT BRACKET
13	4043	5/16" X 1-5/8" LAG SCREW
12	4718	SIDE LOCK
11	4306	LONG STEM ROLLER 2"
10	4203	ROLLER CARRIER HINGE #3 (14 GA)
9	4202	ROLLER CARRIER HINGE #2 (14 GA)
8	4201	ROLLER CARRIER HINGE #1 (14 GA)
7		COUNTER BALANCE (TORSION BAR & SPRINGS)
6		HORIZONTAL TRACK & ANGLE (16 GA)
5		VERTICAL FLAG ANGLE
4	4585-6	TRACK BRACKET #6 (12 GA)
3		
2		VERTICAL TRACK (16 GA)
1		3" HEMMED STRUT(20 GA) MIN. YIELD STR. 80KSI

NORTH CAROLINA PROFESSIONAL SEAL PE No. 024280 ENGINEER

The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation(s) of the door as tested.

GADCO

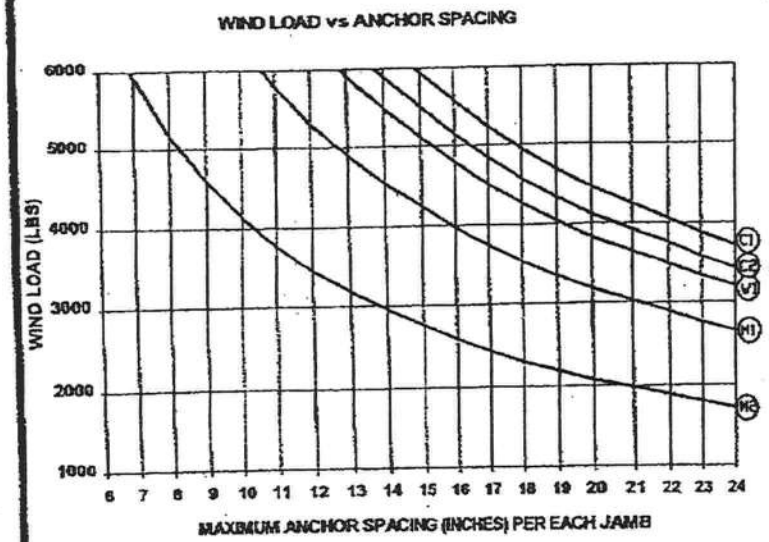
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE
DATE: 11-7-00
APPROVED BY:
DRAWN BY: D. VICKMAN
REVISED: (B) 12-1-00

DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR-WINDLOAD ±28 PSF

PAGE 2 OF 2

DRAWING NUMBER: W13220-2



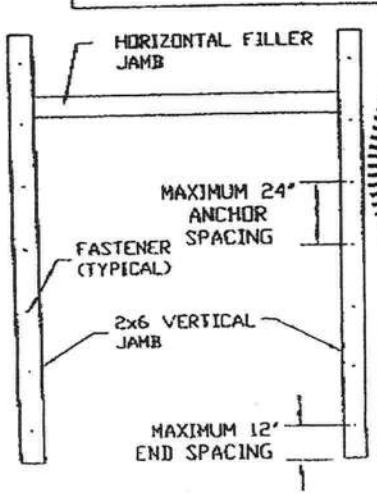
DESIGN LOAD (LBS) / FT² X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

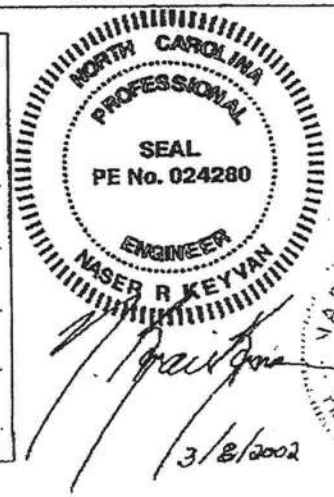
EXAMPLE

30 LBS / FT² X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

- C1 USE 22" SPACING
- C2 USE 21" SPACING
- W1 USE 19" SPACING
- M1 USE 16" SPACING
- M2 USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS





2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION" SSTD 10," CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI. GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI; REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4"

8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

GADCO®

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: DW
DATE: 8-30-99		REVISED:

DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

MASTER DRAWING NUMBER: A10560 | DRAWING NUMBER:

FLORIDA DEPARTMENT OF Community Affairs

Community Affairs

Product Approval
USER: Public User

FL #	FL5108
Application Type	New
Code Version	2004
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	MI Windows and Doors
Address/Phone/Email	650 W Market St Gratz, PA 17030 (717) 365-3300 ext 2101 surich@miwd.com
Authorized Signature	Steven Urich surich@miwd.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	

W indow

A·L·I
(Validator / Operations Administrator)

AAMA
CERTIFICATION PROGRAM

AUTHORIZATION FOR PRODUCT CERTIFICATION

MI Windows & Doors, Inc.
P.O. Box 370
Gratz, PA 17030-0370

Attn: Bill Emley

The product described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. The approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, accompanied by related drawings, by an AAMA Accredited Laboratory.

1. The listing below will be added to the next published AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED				LABEL ORDER NO.
AAMA/NWWDA 101/I.S. 2-97 H-R55*-36x62					
COMPANY AND PLANT LOCATION	CODE NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED		
			FRAME	SASH	
MI Windows & Doors, Inc. (Oldsmar, FL) MI Windows & Doors, Inc. (Smyrna, TN)	MTL-8 MTL-9	185/3185 SH (Fin) (AL)(O/X)(OG) (ASTM)	3'0" x 5'2"	2'10" x 2'7"	By Request

2. This Certification will expire May 14, 2008 and requires validation until then by continued listing in the current AAMA Certified Products Directory.

3. Product Tested and Reported by: Architectural Testing, Inc.

   Report No.: 01-50360.02

   Date of Report: June 14, 2004

NOTE: PLEASE REVIEW, AND ADVISE ALI IMMEDIATELY IF DATA, AS SHOWN, NEEDS CORRECTION.

Date: August 1, 2005

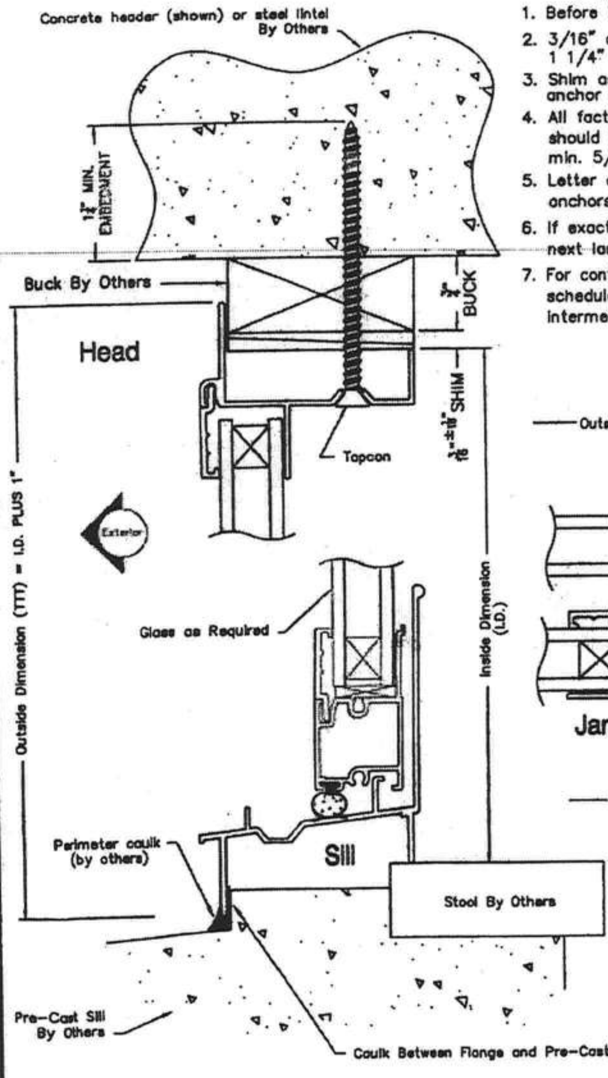
Validated for Certification:

Associated Laboratories, Inc.

Authorized for Certification:

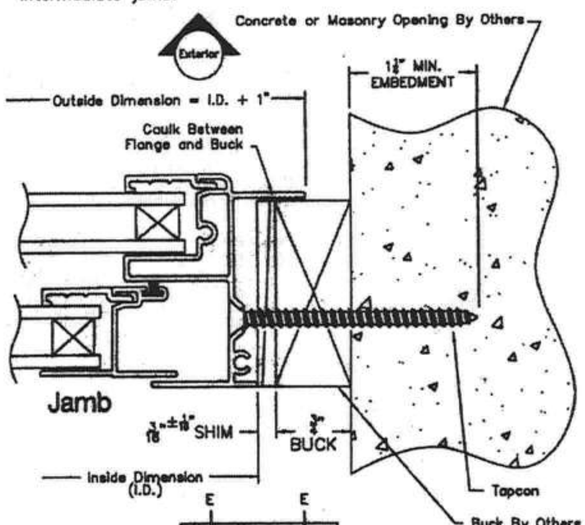
American Architectural Manufacturers Association

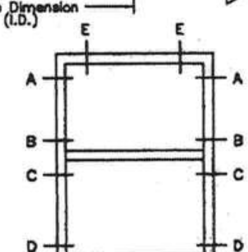
cc: AAMA
JGS/df
ACP-04 (Rev. 5/03)



"ONE BY" (3/4") BUCKS (SHOWN)

1. Before installation, caulk back of flange, or face of buck.
2. 3/16" dia. masonry Topcon must be of a length to have 1 1/4" embedment into masonry or concrete.
3. Shim as required with load bearing shims at each installation anchor as shown.
4. All factory applied holes not designated for Tapcon anchor should be filled with #10 screws of sufficient length to provide min. 5/8" embedment into wood buck.
5. Letter designations on the Tapcon location chart indicate where anchors are to be installed using the elevation as a key.
6. If exact window size is not given, use anchor quantity for next larger window in chart.
7. For continuous head and sill twins & triples, use the same fastener schedule for each unit in the main frame except ignore the intermediate jamb.





*"TAPCON" TYPE HARDENED MASONRY SCREWS INCLUDE TAPCON, RAWL, & SIMPSON

"TWO BY" (1 1/2") BUCKS

"TWO BY" bucks are engineered and fastened to the masonry opening BY OTHERS.

Follow the same instructions and fastener requirements for "one by" bucks except use #10 screws of sufficient length for 1 1/4" minimum embedment into buck.

MI HOME PRODUCTS BetterBilt / Capitol

* TAPCON LOCATION CHART

CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS		
		UP TO DP35	DP35.1 TO DP55	DP55.1 TO DP69.3
12	18 1/8 x 25	A, D & E	A, D & E	A, D & E
13	18 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
14	18 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
15	18 1/8 x 62	A, D & E	A, D & E	A, D & E
16	18 1/8 x 71	A, D & E	A, D & E	A, D & E
17	18 1/8 x 83	A, D & E	A, D & E	A, D & E
1/2 32	25 1/2 x 25	A, D & E	A, D & E	A, D & E
1/2 33	25 1/2 x 37 3/8	A, D & E	A, D & E	A, D & E
1/2 34	25 1/2 x 49 5/8	A, D & E	A, D & E	A, D & E
1/2 35	25 1/2 x 62	A, D & E	A, D & E	A, D & E
1/2 36	25 1/2 x 71	A, D & E	A, D & E	A, D & E
1/2 37	25 1/2 x 83	A, D & E	A, D & E	A, C, D & E
22	36 x 25	A, D & E	A, D & E	A, D & E
23	36 x 37 3/8	A, D & E	A, D & E	A, D & E
24	36 x 49 5/8	A, D & E	A, D & E	A, D & E
25	36 x 62	A, D & E	A, D & E	A, D & E
26	36 x 71	A, D & E	A, D & E	A, C, D & E
27	36 x 83	A, D & E	A, C, D & E	A, C, D & E
32	52 1/8 x 25	A, D & E	A, D & E	A, D & E
33	52 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
34	52 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
35	52 1/8 x 62	A, D & E	A, C, D & E	A, C, D & E
36	52 1/8 x 71	A, D & E	A, C, D & E	A, B, C, D & E
37	52 1/8 x 83	A, D & E	A, C, D & E	A, B, C, D & E
2040	23 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
2050	23 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
2060	23 3/8 x 71 5/8	A, D & E	A, D & E	A, D & E
2070	23 3/8 x 83 5/8	A, D & E	A, D & E	A, D & E
3040	35 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
3050	35 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
3060	35 3/8 x 71 5/8	A, D & E	A, D & E	A, C, D & E
3070	35 3/8 x 83 5/8	A, D & E	A, C, D & E	A, C, D & E
4040	47 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
4050	47 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4060	47 3/8 x 71 5/8	A, D & E	A, C, D & E	A, C, D & E
4070	47 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4450	51 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4460	51. 3/8 x 71 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4470	51 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E

SYM	REVISION	DATE	BY
A	REMOVED SILL INSTALLATION ANCHOR SCREWS	7/16/04	

Product Technology Corporation
1730 Lakemont Ave., Suite 6
Winter Park, Florida 32789

MI HOME PRODUCTS
GRATZ, PA

TITLE: 185/3185 SINGLE HUNG FLANGE FRAME INSTALLATION DETAILS & FASTENER SCHEDULE

PREPARED BY: PTC Product Technology Corporation
Phone 407.622.6334 Fax 407.622.6335

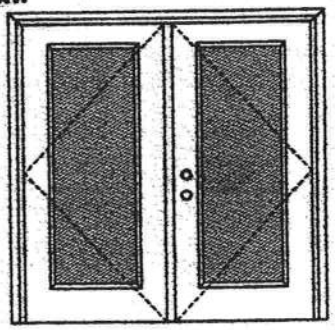
DWN: DRL | DATE: 06/15/04
SCALE: N.T.S. | DWG. NO: MIHP0059
REV. LETTER: A | SHEET: 1 OF 1

XX
Glazed Outswing Unit

COP-WL-JH4162-02

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 6'8".

Double Door
Maximum unit size = 6'0" x 6'8"

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 resistant 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


133, 135 Series


136 Series


680 Series


822 Series

1/2 GLASS:

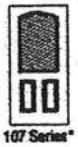

105 Series*


106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 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.

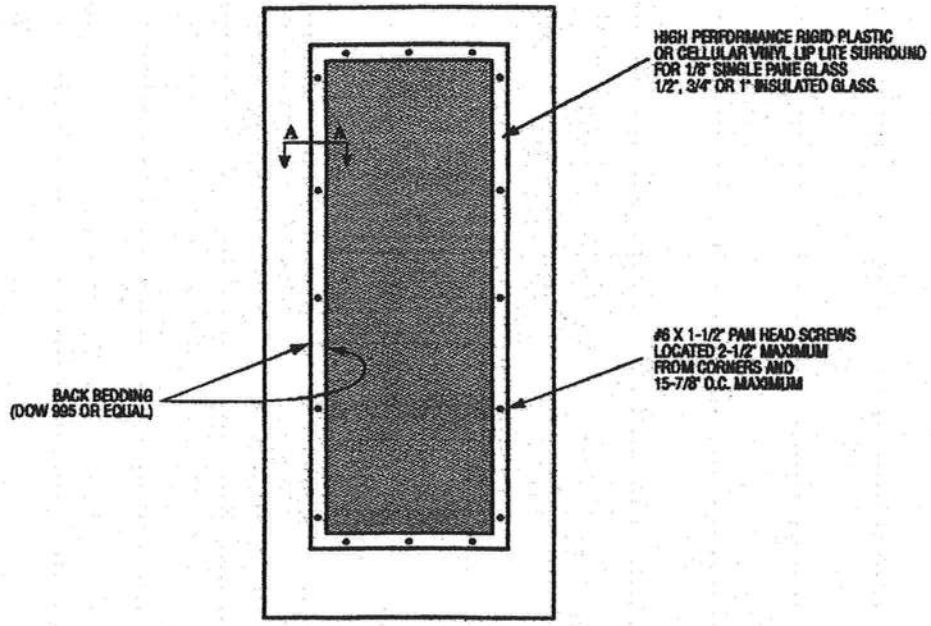
Johnson EntrySystems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

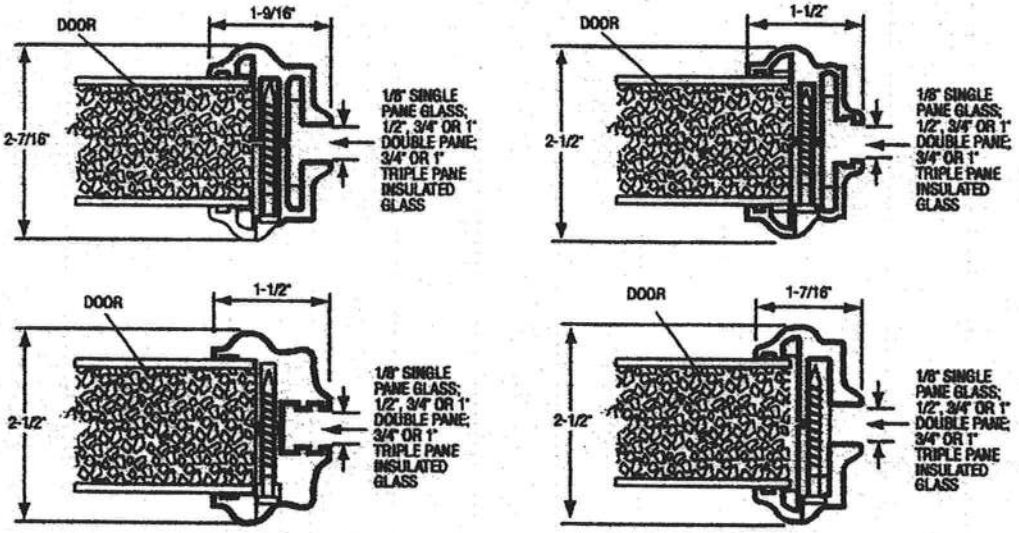
PREMDOR Collection Premium Quality Doors

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

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

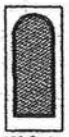
3/4 GLASS:

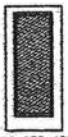

404 Series

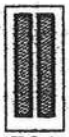

416 Series

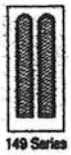

450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 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 end 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 lite 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 56533

Johnson EntrySystems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors

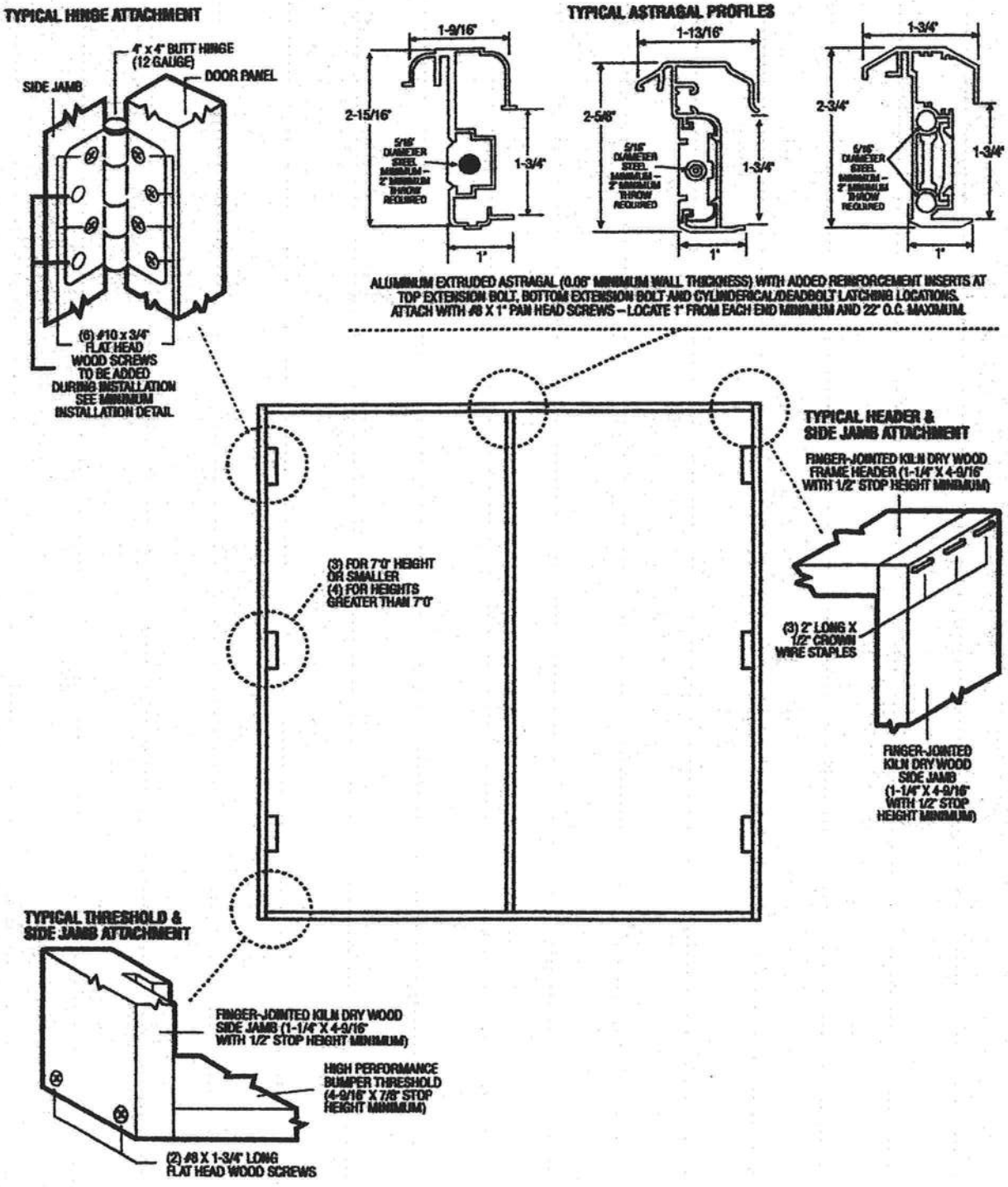
Exclusively from Masonite

Masonite International Corporation

XX
Unit

MAD-WL-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR



March 29, 2002

PREMDOR Collection Premium Quality Doors

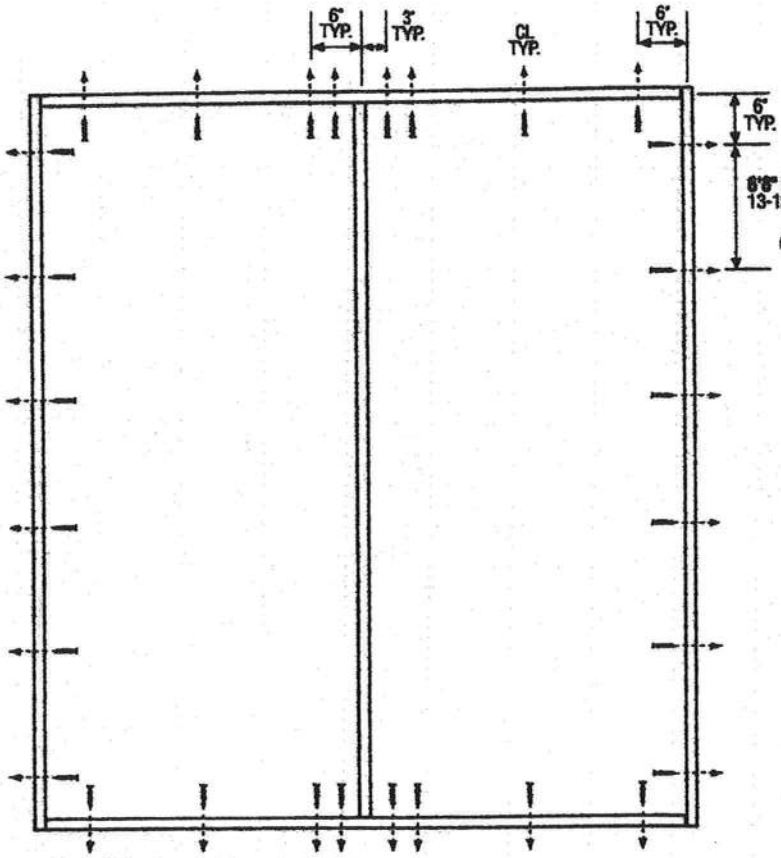
Exclusively from Masonite®

Masonite International Corporation

XX
Unit

MID-WL-MA0002-02

DOUBLE DOOR



Minimum Fastener Count

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

Hinge and strike plates require two 2-1/2" long screws per location.

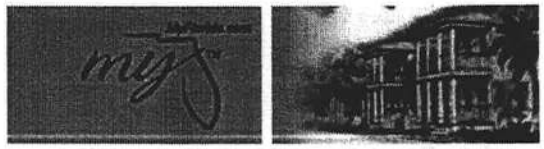
Latching Hardware:

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

Notes:

1. Anchor calculations have been carried out with the lowest (least) 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/AF & PA 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 Dade 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.

FLORIDA DEPARTMENT OF
Community Affairs



Community Affairs

- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

Product Approval
USER: Public User

Product Approval Menu > Product or Application Search > Application List > **Application Detail**

FL #	FL1956-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	

Product Manufacturer	TAMKO Building Products, Inc.
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 ext 2394 fred_oconnor@tamko.com
Authorized Signature	Frederick O'Connor fred_oconnor@tamko.com
Technical Representative	Frederick J. O'Connor
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 fred_oconnor@tamko.com

Quality Assurance Representative Address/Phone/Email		
Category	Roofing	
Subcategory	Asphalt Shingles	
Compliance Method	Certification Mark or Listing	
Certification Agency	Underwriters Laboratories Inc.	
Referenced Standard and Year (of Standard)	**Standard**	**Year**
	ASTM D 3462	2001
Equivalence of Product Standards Certified By		
Product Approval Method	Method 1 Option A	
Date Submitted	06/09/2005	
Date Validated	06/20/2005	
Date Pending FBC Approval	06/25/2005	
Date Approved	06/29/2005	

Summary of Products

FL #	Model, Number or Name	Description

3

slopes of 2:12 or greater. Not approved for use in HVHZ.	

Back Next

DCA Administration
Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

4

Underwriters Laboratories Inc.®

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800

June 17, 2005

Tamko Roofing Products
Ms. Kerri Eden
P.O. Box 1404
220 W. 4th Street
Joplin, MO 64802-1404

Our Reference: R2919

This is to confirm that "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage 50 AR", "Glass-Seal AR" manufactured at Tuscaloosa, AL and "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage XL AR", "Heritage 50 AR" manufactured at Frederick, MD and "Heritage 30 AR", "Heritage XL AR", and "Heritage 50 AR" manufactured in Dallas, TX are UL Listed asphalt glass mat shingles and have been evaluated in accordance with ANSI/UL 790, Class A (ASTM E108), ASTM D3462, ASTM D3161 or UL 997 modified to 110 mph when secured with four nails.

Let me know if you have any further questions.

Very truly yours,

Alpesh Patel (Ext. 42522)
Engineer Project
Fire Protection Division

Reviewed by,

R. K. Laymon

Randall K. Laymon (Ext. 42687)
Engineer Sr Staff
Fire Protection Division

4

TAMKO BUILDING PRODUCTS

Application Instructions for

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS

LAMINATED ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING 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.

I. 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 rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness 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 a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

TAMKO does not recommend re-roofing over existing roof.

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. FASTENERS

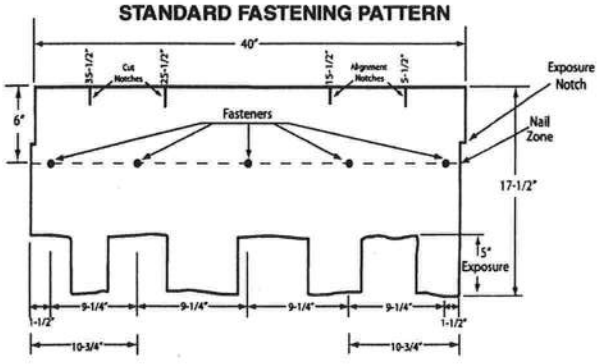
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede 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 diagram and described below, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).

STANDARD FASTENING PATTERN



2) Mansard or Steep Slope Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.

(Continued)

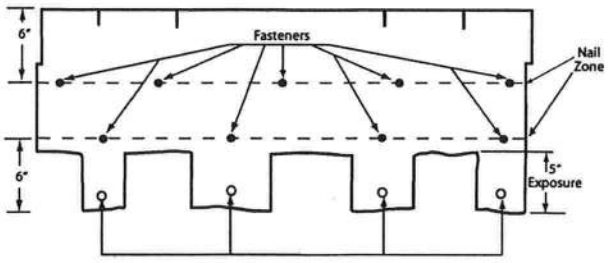
TAMKO BUILDING PRODUCTS

(CONTINUED from Pg. 1)

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

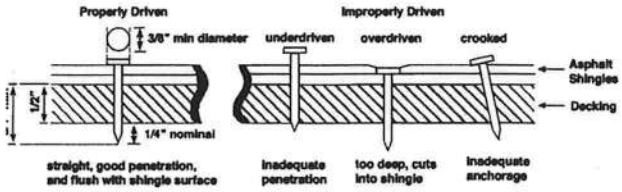
Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.

MANSARD FASTENING PATTERN



Apply under each tab 1" diameter asphalt adhesive cement.

NAILS: 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. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

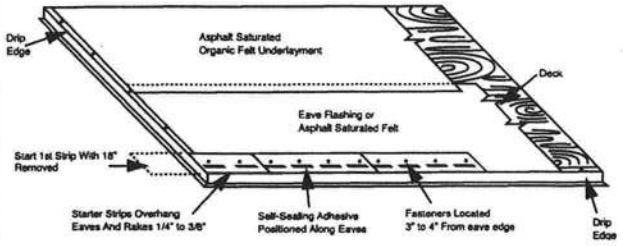
Products which are acceptable for use as underlayment are:

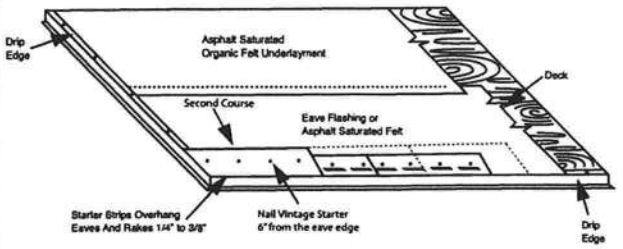
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation maybe required. Contact TAMKO's technical services department for more information)

In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information. TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles.
The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.





Note: Do not allow Vintage Starter AR joints to be visible between shingle tabs. Cutting of the starter may be required.

HERITAGE VINTAGE STARTER AR
12 1/2" x 36" 20 PIECES PER BUNDLE
60 LINEAL FT. PER BUNDLE

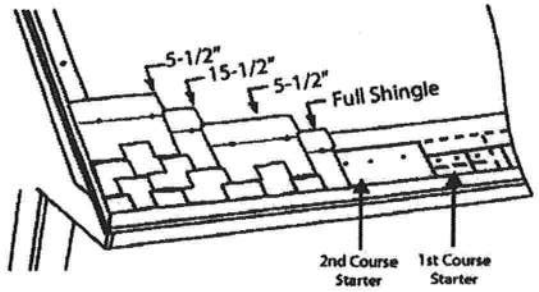
(Continued)

(CONTINUED from Pg. 2)

TAMKO BUILDING PRODUCTS

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the shingle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION

TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

Following valley metal application; a 9" to 12" wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6" onto metal valley flashing) and on top of the valley underlayment. The valley will be completed with shingle application.

SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)

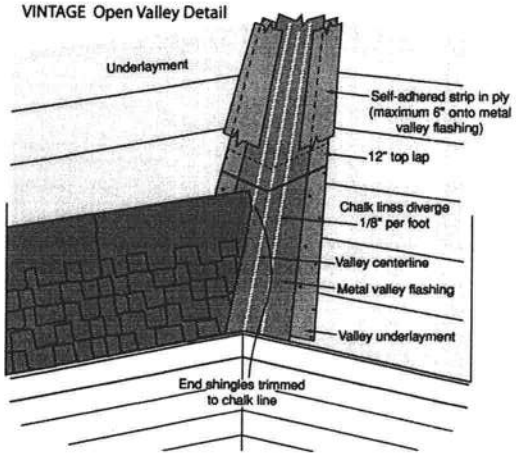
- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1/8" per foot. Thus, for an 8' long valley, the chalk lines should be 7" either side of the centerline at the eaves and for a 16' valley 8".

As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12" in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a longer portion to be used.

- Clip 1" from the upper corner of each shingle on a 45° angle to direct water into the valley and prevent it from penetrating between the courses.

- Form a tight seal by cementing the shingle to the valley lining with a 3" width of asphalt plastic cement (conforming to ASTM D 4586).

VINTAGE Open Valley Detail



• **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)

(CONTINUED from Pg. 3)

TAMKO BUILDING PRODUCTS

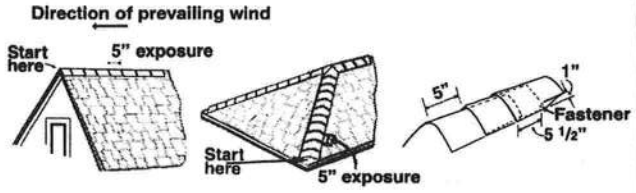
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

8. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

Fasteners should be 1/4 in. longer than the ones used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLE IN COLD WEATHER.



THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

Residential System Sizing Calculation

Summary

Spec House
, FL

Project Title:
801081SparksConstruction Inc

Class 3 Rating
Registration No. 0
Climate: North

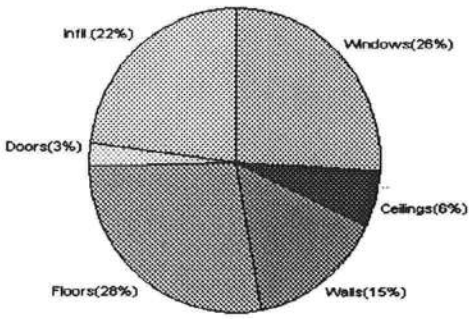
1/11/2008

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	**30900**	**Btuh**	**Total cooling load calculation**	**26403**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.5	36000	Sensible (SHR = 0.50)	82.1	18000
Heat Pump + Auxiliary(0.0kW)	116.5	36000	Latent	400.8	18000
			Total (Electric Heat Pump)	136.3	36000

WINTER CALCULATIONS

Winter Heating Load (for 1608 sqft)

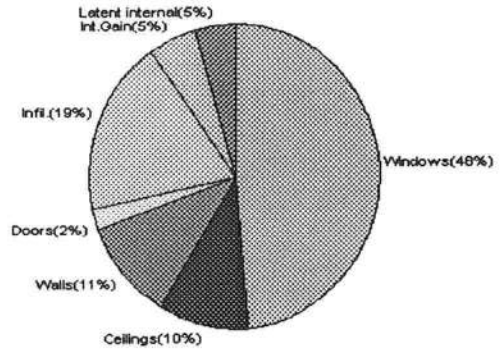
Load component			Load	
Window total	252	sqft	8096	Btuh
Wall total	1409	sqft	4627	Btuh
Door total	60	sqft	777	Btuh
Ceiling total	1608	sqft	1895	Btuh
Floor total	196	sqft	8557	Btuh
Infiltration	172	cfm	6948	Btuh
Duct loss			0	Btuh
Subtotal			**30900**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**30900**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1608 sqft)

Load component			Load	
Window total	252	sqft	12798	Btuh
Wall total	1409	sqft	2807	Btuh
Door total	60	sqft	588	Btuh
Ceiling total	1608	sqft	2663	Btuh
Floor total			0	Btuh
Infiltration	90	cfm	1676	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**21912**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3291	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**4491**	**Btuh**
TOTAL HEAT GAIN			**26403**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 1-11-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House
, FL

Project Title:
801081SparksConstruction Inc

Class 3 Rating
Registration No. 0
Climate: North

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

1/11/2008

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
3	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
4	2, Clear, Metal, 0.87	NW	37.5	32.2	1207 Btuh
5	2, Clear, Metal, 0.87	NE	16.0	32.2	515 Btuh
6	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh
8	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
9	2, Clear, Metal, 0.87	SW	2.7	32.2	87 Btuh
10	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
11	2, Clear, Metal, 0.87	SE	12.0	32.2	386 Btuh
	Window Total		252(sqft)		8096 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1181	3.3	3878 Btuh
2	Frame - Wood - Adj(0.09)	13.0	228	3.3	749 Btuh
	Wall Total		1409		4627 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1608	1.2	1895 Btuh
	Ceiling Total		1608		1895Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	196.0 ft(p)	43.7	8557 Btuh
	Floor Total		196		8557 Btuh
			Zone Envelope Subtotal:		23952 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	12864	171.5	6948 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**30900 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

, FL

Project Title:
801081SparksConstruction Inc

Class 3 Rating
Registration No. 0
Climate: North

1/11/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	30900 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	30900 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
, FL

Project Title:
801081SparksConstruction Inc

Class 3 Rating
Registration No. 0
Climate: North

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

1/11/2008

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
3	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
4	2, Clear, Metal, 0.87	NW	37.5	32.2	1207 Btuh
5	2, Clear, Metal, 0.87	NE	16.0	32.2	515 Btuh
6	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh
8	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
9	2, Clear, Metal, 0.87	SW	2.7	32.2	87 Btuh
10	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
11	2, Clear, Metal, 0.87	SE	12.0	32.2	386 Btuh
	Window Total		252(sqft)		8096 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1181	3.3	3878 Btuh
2	Frame - Wood - Adj(0.09)	13.0	228	3.3	749 Btuh
	Wall Total		1409		4627 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1608	1.2	1895 Btuh
	Ceiling Total		1608		1895Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	196.0 ft(p)	43.7	8557 Btuh
	Floor Total		196		8557 Btuh
			Zone Envelope Subtotal:		23952 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	12864	171.5	6948 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**30900 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
801081SparksConstruction Inc

Class 3 Rating
Registration No. 0
Climate: North

1/11/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	30900 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	30900 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
, FL

Project Title:
801081SparksConstruction Inc

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/11/2008

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

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	NW	7.66	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
3	2, Clear, 0.87, None,N,N	NW	7.66	5.5ft.	20.0	0.0	20.0	29	60	1201 Btuh
4	2, Clear, 0.87, None,N,N	NW	1.5ft.	7.5ft.	37.5	0.0	37.5	29	60	2251 Btuh
5	2, Clear, 0.87, None,N,N	NE	1.5ft.	4.5ft.	16.0	0.0	16.0	29	60	961 Btuh
6	2, Clear, 0.87, None,N,N	SE	6ft.	5.5ft.	30.0	30.0	0.0	29	63	869 Btuh
7	2, Clear, 0.87, None,N,N	SE	8ft.	7.16	13.3	13.3	0.0	29	63	385 Btuh
8	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468 Btuh
9	2, Clear, 0.87, None,N,N	SW	1.5ft.	1.25f	2.7	2.7	0.0	29	63	78 Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734 Btuh
11	2, Clear, 0.87, None,N,N	SE	6ft.	2.5ft.	12.0	12.0	0.0	29	63	348 Btuh
	Window Total				252 (sqft)					12798 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1181.0	2.1	2463 Btuh
2	Frame - Wood - Adj	13.0/0.09	228.0	1.5	344 Btuh
	Wall Total		1409 (sqft)		2807 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
3	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	60 (sqft)		588 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1608.0	1.7	2663 Btuh
	Ceiling Total		1608 (sqft)		2663 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	196 (ft(p))	0.0	0 Btuh
	Floor Total		196.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		18856 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.42	12864	90.0	1676 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		6	X 230 +	0	1380 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**21912 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
801081SparksConstruction Inc

Class 3 Rating
Registration No. 0
Climate: North

1/11/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**21912 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**21912 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**21912 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3291 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4491 Btuh**
	TOTAL GAIN	**26403 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House
, FL

Project Title:
801081SparksConstruction Inc

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/11/2008

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

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	NW	7.66	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
3	2, Clear, 0.87, None,N,N	NW	7.66	5.5ft.	20.0	0.0	20.0	29	60	1201 Btuh
4	2, Clear, 0.87, None,N,N	NW	1.5ft.	7.5ft.	37.5	0.0	37.5	29	60	2251 Btuh
5	2, Clear, 0.87, None,N,N	NE	1.5ft.	4.5ft.	16.0	0.0	16.0	29	60	961 Btuh
6	2, Clear, 0.87, None,N,N	SE	6ft.	5.5ft.	30.0	30.0	0.0	29	63	869 Btuh
7	2, Clear, 0.87, None,N,N	SE	8ft.	7.16	13.3	13.3	0.0	29	63	385 Btuh
8	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468 Btuh
9	2, Clear, 0.87, None,N,N	SW	1.5ft.	1.25f	2.7	2.7	0.0	29	63	78 Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734 Btuh
11	2, Clear, 0.87, None,N,N	SE	6ft.	2.5ft.	12.0	12.0	0.0	29	63	348 Btuh
	Window Total				252 (sqft)					12798 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1181.0	2.1	2463 Btuh
2	Frame - Wood - Adj	13.0/0.09	228.0	1.5	344 Btuh
	Wall Total		1409 (sqft)		2807 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
3	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	60 (sqft)		588 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1608.0	1.7	2663 Btuh
	Ceiling Total		1608 (sqft)		2663 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	196 (ft(p))	0.0	0 Btuh
	Floor Total		196.0 (sqft)		0 Btuh

	Zone Envelope Subtotal:	18856 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.42	12864	90.0	1676 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	X 230 +	0	1380 Btuh

Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic) DGM = 0.00	0.0 Btuh
	Sensible Zone Load	**21912 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
801081SparksConstruction Inc

Class 3 Rating
Registration No. 0
Climate: North

1/11/2008

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**21912 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**21912 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**21912 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3291 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4491 Btuh**
	TOTAL GAIN	**26403 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

Residential Window Diversity

MidSummer

Spec House

, FL

Project Title:
801081SparksConstruction Inc

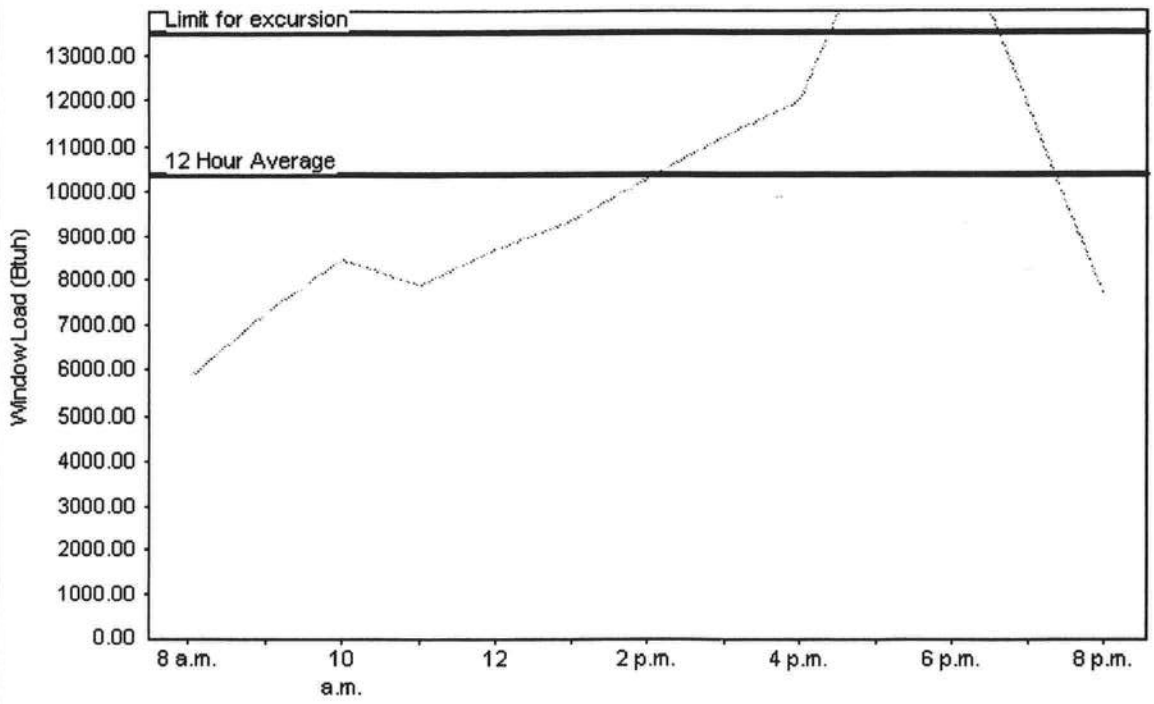
Class 3 Rating
Registration No. 0
Climate: North

1/11/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	10389 Btu
Summer setpoint	75 F	Peak window load for July	15974 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	13505 Btu
Latitude	29 North	Window excursion (July)	2469 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 1-11-07