	Building Permit PERMIT
This Permit Expires One Year APPLICANT LINDA RODER	ear From the Date of Issue 000024113 PHONE 386.752.2281
ADDRESS 387 SW KEMP CT	LAKE CITY FL 32024
OWNER SPARKS CONTRACTORS,INC.	PHONE 386.623.0575
ADDRESS 145 SW MORNING GLORY DR	LAKE CITY FL 32024
CONTRACTOR JOSH SPARKS	PHONE 386.623.057
LOCATION OF PROPERTY 90-W TO C-341,TL TO HOPE HE	ENRY RD,TR TO MORNING GLORY DR,TR
AND IT'S THE 2ND LOT ON TH	E L.
TYPE DEVELOPMENT SF/UTILITY ES	TIMATED COST OF CONSTRUCTION 109950.00
HEATED FLOOR AREA 2199.00 TOTAL ARE	EA2948.00
FOUNDATION CONC WALLS FRAMED F	ROOF PITCH 8'12 FLOOR CONC
LAND USE & ZONING RSF-2	MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 25.00	REAR 15.00 SIDE 10.00
<del></del>	
NO. EX.D.U. 0 FLOOD ZONE X	DEVELOPMENT PERMIT NO.
PARCEL ID 15-4S-16-03023-502 SUBDIVISIO	N ROLLING MEADOWS
LOT 2 BLOCK PHASE UNIT	TOTAL ACRES 0.54
	- ARNA
000000962 CBC1252260	MARK MARKET
Culvert Permit No. Culvert Waiver Contractor's License Num	
18"X32'MITERED 05-1273-N BLK	g checked by Approved for Issuance New Resident
Driveway Connection Septic Tank Number LU & Zonin	
·	5
COMMENTS: MFE 101.0' PER PLAT. ELEVATION LETTER REQUI	5
·	RED. NOC ON FILE.
COMMENTS: MFE 101.0' PER PLAT. ELEVATION LETTER REQUI	Check # or Cash 3171
COMMENTS: MFE 101.0' PER PLAT. ELEVATION LETTER REQUI	Check # or Cash 3171
COMMENTS: MFE 101.0' PER PLAT. ELEVATION LETTER REQUIREMENTS: FOR BUILDING & ZONIN  Temporary Power Foundation	Check # or Cash  Check # or Cash  G DEPARTMENT ONLY  Monolithic  Monolithic
COMMENTS: MFE 101.0' PER PLAT. ELEVATION LETTER REQUIRED FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by	Check # or Cash 3171  G DEPARTMENT ONLY (footer/Slab)  Monolithic date/app. by date/app. by
FOR BUILDING & ZONIN  Temporary Power Foundation date/app. by  Under slab rough-in plumbing Slab	Check # or Cash  Check # or Cash  G DEPARTMENT ONLY  Monolithic  Monolithic
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab	Check # or Cash 3171  G DEPARTMENT ONLY (footer/Slab)  Monolithic date/app. by Sheathing/Nailing
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab date/app. by  Electrical rough in	Check # or Cash 3171  G DEPARTMENT ONLY (footer/Slab)  Monolithic  date/app. by date/app. by  Sheathing/Nailing  date/app. by
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing abdate/app. by  Electrical rough-in Heat & Air Duct	Check # or Cash 3171  G DEPARTMENT ONLY (footer/Slab)  Monolithic date/app. by date/app. by  Sheathing/Nailing date/app. by  ove slab and below wood floor date/app. by  Peri. beam (Lintel)
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab  date/app. by  Electrical rough-in Heat & Air Duct	Check # or Cash 3171  G DEPARTMENT ONLY (footer/Slab)  Monolithic  date/app. by date/app. by  Sheathing/Nailing  date/app. by  ove slab and below wood floor  date/app. by  Peri. beam (Lintel)  date/app. by
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab date/app. by  Electrical rough-in date/app. by  Electrical rough-in Cate/app. by  Permanent power C.O. Final	Check # or Cash 3171  G DEPARTMENT ONLY (footer/Slab)  Monolithic date/app. by date/app. by  Sheathing/Nailing date/app. by  ove slab and below wood floor date/app. by  Peri. beam (Lintel)
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab  date/app. by  Electrical rough-in Rough-in Heat & Air Duct  date/app. by  Permanent power C.O. Final  M/H tie downs, blocking, electricity and plumbing	Check # or Cash  Check # or Cash  GDEPARTMENT ONLY  Monolithic  date/app. by  Sheathing/Nailing  date/app. by  ove slab and below wood floor  date/app. by  Peri. beam (Lintel)  date/app. by  Culvert  ate/app. by  Pool
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab date/app. by  Electrical rough-in Adate/app. by  Electrical rough-in C.O. Final  date/app. by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole	Check # or Cash  Check # or Cash  GDEPARTMENT ONLY  Monolithic  date/app. by  Sheathing/Nailing  date/app. by  ove slab and below wood floor  date/app. by  Peri. beam (Lintel)  date/app. by  Culvert  ate/app. by  Pool
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab  date/app. by  Electrical rough-in Mate/app. by  Electrical rough-in C.O. Final  date/app. by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole  date/app. by  date/app. by  date/app. by  date/app. by  date/app. by  Description of the control of	Check # or Cash 3171  GDEPARTMENT ONLY (footer/Slab)  Monolithic date/app. by date/app. by  Sheathing/Nailing date/app. by  ove slab and below wood floor  Peri. beam (Lintel)  date/app. by  Culvert  ate/app. by  Pool  by  Utility Pole date/app. by  Utility Pole date/app. by
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab  date/app. by  Electrical rough-in Heat & Air Duct  date/app. by  Permanent power C.O. Final  date/app. by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole  date/app. by  M/H Pole Travel Trailer	Check # or Cash  Check # or Cash  GDEPARTMENT ONLY  Monolithic  date/app. by  Sheathing/Nailing  date/app. by  ove slab and below wood floor  Peri. beam (Lintel)  date/app. by  Culvert  ate/app. by  Pool  Description:  Description:  Adde/app. by  Culvert  date/app. by  Culvert  date/app. by  Culvert  date/app. by  Description:  Description:  Description:  Adde/app. by  Description:  Descript
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab  date/app. by  Electrical rough-in date/app. by  Permanent power C.O. Final  date/app. by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole  date/app. by  M/H Pole Travel Trailer	Check # or Cash 3171  GDEPARTMENT ONLY (footer/Slab)  Monolithic  date/app. by date/app. by  Sheathing/Nailing  date/app. by  Ove slab and below wood floor  Peri. beam (Lintel)  date/app. by  Culvert  ate/app. by  Culvert  ate/app. by  Utility Pole  app. by  Re-roof  date/app. by  date/app. by  Re-roof  date/app. by
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab  date/app. by  Electrical rough-in Heat & Air Duct  date/app. by  Permanent power C.O. Final  date/app. by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole  date/app. by  M/H Pole Travel Trailer  date/app. by  BUILDING PERMIT FEE \$ 550.00 CERTIFICATION FEE	Check # or Cash  Check
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab  date/app. by  Electrical rough-in date/app. by  Permanent power C.O. Final  date/app. by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole  date/app. by  M/H Pole Travel Trailer	Check # or Cash  Check
FOR BUILDING & ZONIN  Temporary Power Foundation  date/app. by  Under slab rough-in plumbing Slab  date/app. by  Framing Rough-in plumbing ab  date/app. by  Electrical rough-in Heat & Air Duct  date/app. by  Permanent power C.O. Final  date/app. by  M/H tie downs, blocking, electricity and plumbing  Reconnection Pump pole  date/app. by  M/H Pole Travel Trailer  date/app. by  BUILDING PERMIT FEE \$ 550.00 CERTIFICATION FEE	Check # or Cash 3171    G DEPARTMENT ONLY

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

ing mendous co	olumbia County Buildin	g Permit Application	Revised 9-23-0
For Office Use Only Applica	ition# 05/2-58 Da	te Received 12-27-05 By LH Pe	ormit # 967/24113
Application Approved by - Ze	oning Official BLK	ate 28.12.05 Plans Examiner Ok	-57H Date 2-5-06
Flood Zone Zone Devi	elopment Permit <u>WA</u> Zo	ningRSF 🔼 Land Use Plan Map	Category RES Low Den
Comments M.F.E. 10	PET PLAT Eleve	Lion letter Regular	
	Cub3171		
Applicants Name Linda	Roder/Welane R	Phone 75	7-7281
Address 387 5.00-10	emp Ct. Lake Cit	yPL 3rozy	
Owners Name Sparks (	Contractors Inc.		73-0S7S
911 Address 145 5.U		Dr. Lake City FC 3	2024
Contractors Name Spark	S Contractors Irc	-Josh Phone 62	3-0575
Address P.D.Box 147		-432056	
Fee Simple Owner Name & Ac			
Bonding Co. Name & Address	HIM		
Architect/Engineer Name & A	ddress Prin Spark	s/Mark Disosway	*
Morigage Lenders Name & Ac		13.30300 1/	
Wes .			
Bronark ID Alumber 15-45	pany - <u>FL POWER &amp; LIGHT</u> -(	Clay Flec Suwannee Valley Flec.  Estimated Cost of Construction	C Progressive Energy
Subdivision Name Rolling	- 16 L 03023-302		
Debates Disasters 20 /2	1 100 241 ( 5	Lot Block	Unit Phase
P DE SUI PROCE	in Clare Do	ters welcome) ? at	Hope Henry,
- NO 3100 0 111011	ing Glory Dr.	tha Cot on L	
Type of ConstructionSFD		Number of Evision Bustiness	
Total Acreage Lot Size	54 Dayou peed a	Number of Existing Dwellings or Culvert Walver	
Actual Distance of Structure tro	m Branerh Lines Brant	Side 23.5 Side 23	Regr 1331
Total Building Height 23'2	Number of Stories		2
Porch 257 GARAGE		Heated Floor Area 2199	Roof Pitch 8-12
Application is hereby made to c		nd installations as indicated. I certif	v that no work or
installation has commenced pri all laws regulating construction	ior to the issuance of a berm	it and that all work be performed to	meet the standards of
compliance with all applicable i	aws and regulating construc	information is accurate and all work	will be done in
WARNING TO OWNER: YOUR F	AILURE TO RECORD A NOT	TICE OF COMMENCMENT MAY RES	III T IN YOU PAYING
MAICE LOK IMPKOAEWEW12 1	O YOUR PROPERTY, IF YOU	I INTEND TO OBTAIN FINANCING. (	CONSULT WITH YOUR
ENDER OR ATTORNEY BEFOR	RE RECORDING YOUR NOTI	CE OF COMMENCEMENT.	3 Kg
Owner Builder or Agent (Includi	ing Contractor) inda P. Po	der Contractor Signature	
		uvi Aal//	ベック エンドウライ
	Commission #DD3(	3275 Colluaytors Licerise Number	CBC 100206
STATE OF FLORIDA COUNTY OF COLUMBIA	Commission #DD3( Expires: Mar 24, Bonded Thru	2008 Competency Card Number NOTARY STAMP/SEAL	CRC 125206
STATE OF FLORIDA	Commission #DD3( Expires: Mar 24, Bonded Thru Atlantic Bonding Co	2008 Competency Card Number NOTARY STAMP/SEAL	1

Personally known or Produced Identification

Notary Signature

Inst:2006002352 Date:02/01/2006 Time:10:46
\_\_\_\_\_DC,P.DeWitt Cason,Columbia County B:1072 P:1679

Permit No. Tax Folio No. 15-4S-16-03023-502 & 15-4S-16-03023-504

#### NOTICE OF COMMENCEMENT

#### STATE OF FLORIDA COUNTY OF COLUMBIA

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

1. Description of property:

Lots 2 and 4, ROLLING MEADOWS, a subdivision according to the plat thereof, as recorded in Plat Book 8, pages 45 and 46, public records of Columbia County, Florida.

- 2. General description of improvements: New Home Construction
- 3. Owner information:
  - a) Name and Address: Sparks Contractors, Inc. P.O.Box 1479 Lake City, FL 32056
  - c) Interest in property: 100%
- 4. Contractor (name and address):
  Sparks Contractors, Inc.
  P.O. Box 1479
  Lake City, FL 32056
  - a) Phone number: 386-755-9314-8 b) Fax number: 386-755-7156-
- 5. Surety Information:
  - a) Name and Address:
  - b) Phone number:
  - c) Amount of bond:
- 6. Lender (name and address):
  Peoples State Bank
  350 8W Main Blvd.
  Lake City, FL 32025
  - a) Phone number: 386-754-0002
  - b) Fax Number 386-754-0031
- Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., <u>Florida Statutes</u>:

William J. Haley, Esquire Brannon, Brown, Haley & Bullock, P.A. P.O. Box 1029 Lake City, FL 32056-1029

- a) Phone number: 386-752-3213
- 8. Expiration date of Notice of Commencement:

\_\_, 200\_\_\_

Sparks Contractors, Inc.

By:

Jacko D. Sparks, President P.O. Box 1479 Lake City, FL 32056

STATE OF FLORIDA COUNTY OF COLUMBIA

Sworn to and subscribed before me this 30fh day of January, 2006, A.D. by Jacob D. Sparks, as President of Sparks Contractors, Inc., a Florida corporation, on behalf of said corporation, who is personally known to me or whom produced FL Oriver Local as identification.

Albhu S. Moere
Notary Public - State of Florida



### **Columbia County Building Department Culvert Permit**

# **Culvert Permit No.** 00000962

DATE $02/00$	6/2006	PARCEL ID#	<u>15-4S-16-03023-502</u>		
APPLICANT	LINDA RODER		PHONE	386.752.2281	
ADDRESS _3	387 SW KEMP CT		LAKE CITY	FL	32024
OWNER SP	ARKS CONTRACTORS INC	) /•	PHONE	386.623.0575	
ADDRESS 14	5 SW MORNING GLOR	Y DRIVE	LAKE CITY	FL	32024
CONTRACTO	R JOSH SPARKS		PHONE	386.623.0575	
LOCATION OF	PROPERTY 90-W TO	C-341-TL TO HO	PE HENRY RD,TR TO MO	RNING GLORY DR.	
2ND LOT ON L.	-				
X	driving surface. Both e thick reinforced concre INSTALLATION NO a) a majority of the c b) the driveway to be Turnouts shall be c	s inches in diame ends will be mite ete slab.  TE: Turnouts with the existing served will be proposed or concrete or paved driveway, which g paved or concrete or the existing paved or concrete or co	ter with a total lenght of red 4 foot with a 4:1 started 4 foot with a 4:1 started 4 foot with a 4:1 started are required as following driveway turnouts a paved or formed with c d a minimum of 12 feet ever is greater. The wide reted turnouts.	slope and poured verse research or; oncrete. wide or the width shall conform and ards.	with a 4 inch
<u> </u>	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

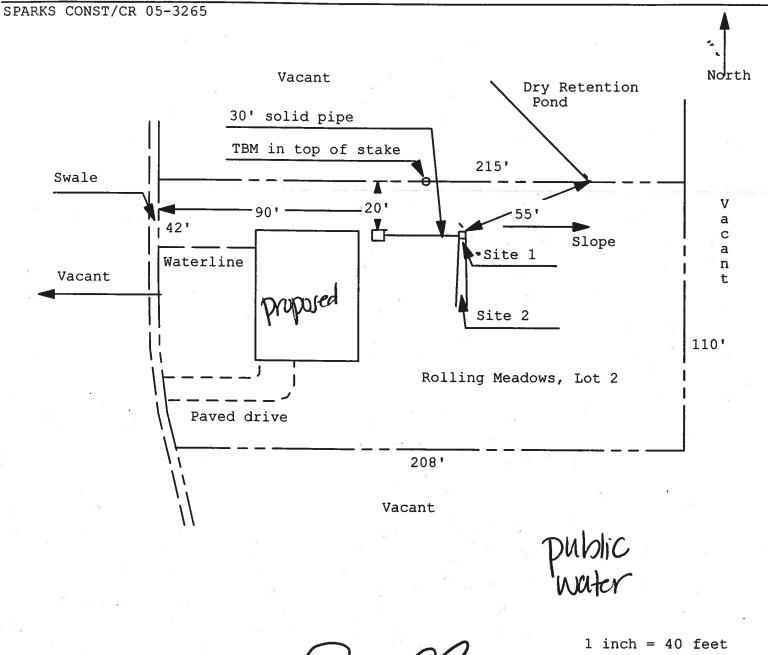
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00



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

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



		1 inch = 40 feet
Site Plan Plan Appro	Submitted By Can Date	Date /2/9/05
Ву	Sallie Graddy. ESI. COUMBIA	СРНИ
Notes:		

This instrument prepared by: William J. Haley, Esquire Brannon, Brown, Haley & Bullock, P. A. P. O. Box 1029 Lake City, FL 32056-1029

> Inst: 2005031970 Date: 12/27/2005 Time: 11:48 390.60

Doc Stamp-Beed:

\_DC,P.DeWitt Cason,Columbia County B: 1069 P:903

### SPECIAL WARRANTY DEED

THIS INDENTURE, made this 22 day of December, 2006, between JERRY COOK, a married man, who does not reside on the property, but who resides at 314 Cannon Creek Drive, Lake City, Florida 32055, hereinafter referred to as Grantor, and SPARKS CONTRACTORS, INC, a Florida corporation, having a mailing address of 162 SW Country Court, Lake City FL 32024, hereinafter referred to as Grantee.

WITNESSETH: That said Grantor, for and in consideration of the sum of \$10.00 and other good and valuable considerations to said Grantor in hand paid by said Grantee, the receipt and sufficiency of which are hereby acknowledged, have granted, bargained and sold to the said Grantee, and Grantee's successors and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lot(s) 2 and 4, ROLLING MEADOWS, a subdivision according to the plat thereof, as recorded in Plat Book 8, pages 45 and 46, public records of Columbia County, Florida.

PARCEL NO. Part of 15-4S-16-03023-005

SUBJECT TO:

Taxes and special assessments for the year 2006 and subsequent years; restrictions, reservations, rights of way for public roads, easements of record, if any; and zoning and any other governmental restrictions regulating the use of the lands.

SUBJECT TO:

That certain Mortgage to Peoples State Bank dated November 16, 2005, recorded November 17, 2005 in Official Records Book 1065, page 1012, public records of Columbia County, Florida

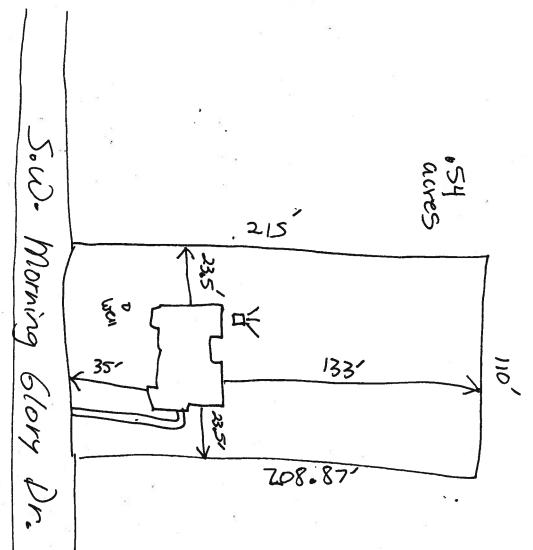
and said Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons claiming by, through or under said Grantor.

IN WITNESS WHEREOF, Grantor has hereunto set its hand and seal the day and year first above written.

Signed, sealed and delivered in the presence of:	Inst:2005031970 Date:12/27/2005 Time:11:48  Doc Stamp-Deed: 390.60 DC,P.DeWitt Cason,Columbia County B:1069 P:904
Print Name: Tosh Spacks	Jerry Cook
Print Name:	
STATE OF FLORIDA	
	owledged before me this day of December, which me or whom produced on.
Linda R. Roder Commission #DD303275 Expires: Mar 24, 2008 Bonded Thru	$\sim 1-1001$
Atlantic Bonding Co., Inc.	Xille 16 Kolo

Notary Public, State of Florida

Site Plan Lot 2 Rolling Meadous



**Project Name:** 

Address:

City Ctata

Josh Sparks

Permitting Office: Counsy

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Builder:

511234SparksConstruction

Lot: 2, Sub: Rolling Meadows, Plat:

Owner:	, r∟ Spec House North		Jurisdiction Number:	221000
New construction or	existing	New _	12. Cooling systems	
2. Single family or mul-	ti-family	Single family	a. Central Unit	Cap: 48.0 kBtu/hr
3. Number of units, if r	nulti-family	1 _		SEER: 12.00
4. Number of Bedroom	s	4 _	b. N/A	_
5. Is this a worst case?		Yes _		
6. Conditioned floor are	, ,	2199 ft <sup>2</sup>	c. N/A	-
<ol> <li>Glass type <sup>1</sup> and area</li> </ol>	: (Label reqd. by 13-1	04.4.5 if not default)		
a. U-factor:	I	Description Area	13. Heating systems	
(or Single or Double b. SHGC:	DEFAULT) 7a. (D	ble Default) 229.0 ft <sup>2</sup>	a. Electric Heat Pump	Cap: 48.0 kBtu/hr HSPF: 7.80
(or Clear or Tint Dl	EFAULT) 7b.	(Clear) 229.0 ft <sup>2</sup>	b. N/A	_
<ol><li>Floor types</li></ol>				_
a. Slab-On-Grade Edge	Insulation	R=0.0, 236.0(p) ft	c. N/A	_
b. N/A		_	¥6	_
c. N/A		_	14. Hot water systems	
<ol><li>Wall types</li></ol>			a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Exteri	ior	R=13.0, 1428.0 ft <sup>2</sup>		EF: 0.92
<ul> <li>b. Frame, Wood, Adjac</li> </ul>	ent	R=13.0, 318.0 ft <sup>2</sup>	b. N/A	_
c. N/A				
d. N/A		_	c. Conservation credits	<u> </u>
e. N/A		_	(HR-Heat recovery, Solar	
<ol><li>Ceiling types</li></ol>		_	DHP-Dedicated heat pump)	
a. Under Attic		R=30.0, 2260.0 ft <sup>2</sup>	15. HVAC credits	_
b. N/A		_	(CF-Ceiling fan, CV-Cross ventilation	i,
c. N/A			HF-Whole house fan,	
11. Ducts			PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Unc.	AH: Garage	Sup. R=6.0, 250.0 ft	MZ-C-Multizone cooling,	
b. N/A		_	MZ-H-Multizone heating)	
		_		
		Total as-built	noints: 32844 —	

Glass/Floor Area: 0.15

Total base points: 32844

**PASS** 

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

PREPARED BY: \( \frac{1}{2} \)

DATE: 12-1-05

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

OWNER/AGENT;

DATE:

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

BUILDING OFFICIAL:

DATE:

## **SUMMER CALCULATIONS**

# Residential Whole Building Performance Method A - Details

BASE	1	2: 17			AS-	BU	ILT				
GLASS TYPES .18 X Conditioned X B Floor Area	SPM =	Points	Type/SC	Ove Ornt	erhang Len	Hgt	Area X	SPI	и×	SOF	= Points
.18 2199.0	20.04	7932.2	Double, Clear	w	1.5	8.0	15.0	38.5	2	0.96	553.6
			Double, Clear	W	1.5	4.0	4.0	38.5	2	0.82	126.0
			Double, Clear	N	99.0	9.5	10.0	19.2	20	0.59	113.9
			Double, Clear	W	13.5	9.5	30.0	38.5	2	0.46	529.2
			Double, Clear	SW	12.0	8.0	14.0	40.1	6	0.42	238.8
			Double, Clear	W	8.8	8.0	28.0	38.5	2	0.51	545.2
			Double, Clear	S	99.0	9.5	20.0	35.8	7	0.43	309.8
Z1			Double, Clear	W	1.5	8.0	36.0	38.5	2	0.96	1328.7
4			Double, Clear	N	1.5	4.5	16.0	19.2	:0	0.90	276.5
			Double, Clear	E	1.5	8.0	56.0	42.0	6	0.96	2255.5
			Double, Clear	Ε	7.5	9.5	20.0	42.0	6	0.58	485.9
			Double, Clear	E	7.5	4.0	12.0	42.0	6	0.40	201.0
			Double, Clear	NE	1.5	5.5	10.0	29.5	6	0.91	267.6
			Double, Clear	E	1.5	5.5	15.0	42.0	6	0.90	565.5
			Double, Clear	SE	1.5	5.5	10.0	42.7	5	0.86	368.1
			Double, Clear	S	1.5	1.5	4.0	35.8	7	0.52	74.7
			Double, Clear	S	1.5	5.5	30.0	35.8	7	0.83	895.4
off.	·		As-Built Total:				330.0				9135.6
WALL TYPES Area X	BSPM	= Points	Туре		R-V	/alue	Area	Х	SPM	=	Points
Adjacent 318.0	0.70	222.6	Frame, Wood, Exterior			13.0	1428.0		1.50	,	2142.0
Exterior 1428.0	1.70	2427.6	Frame, Wood, Adjacent			13.0	318.0		0.60		190.8
Base Total: 1746.0		2650.2	As-Built Total:				1746.0				2332.8
DOOR TYPES Area X	BSPM	= Points	Туре				Area	X	SPM	=	Points
Adjacent 20.0	2.40	48.0	Exterior Insulated				80.0		4.10		328.0
Exterior 80.0	6.10	488.0	Adjacent Insulated				20.0		1.60		32.0
Base Total: 100.0		536.0	As-Built Total:				100.0				360.0
CEILING TYPES Area X	BSPM	= Points	Туре	F	ર-Valuલ	e A	rea X S	PM	x sc	M =	Points
Under Attic 2199.0	1.73	3804.3	Under Attic		;	30.0	2260.0	1.73 X	1.00		3909.8
Base Total: 2199.0		3804.3	As-Built Total:				2260.0				3909.8

## **SUMMER CALCULATIONS**

# Residential Whole Building Performance Method A - Details

	BASE			AS-BUILT							
FLOOR TYPE	S Area X I	BSPM =	Points	s Type R-Value Area X SPM =	Points						
Slab Raised	236.0(p) 0.0	-37.0 0.00	-8732.0 0.0		-9723.2						
Base Total:			-8732.0	As-Built Total: 236.0	-9723.2						
INFILTRATION	N Area X E	BSPM =	Points	Area X SPM =	Points						
	2199.0	10.21	22451.8	3 2199.0 10.21	22451.8						
Summer Ba	se Points:	28642	2.5	Summer As-Built Points: 28	466.8						
Total Summer Points	X System Multiplier		ooling Points	Total X Cap X Duct X System X Credit = Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	Cooling Points						
28642.5	0.4266	12	2218.9		0122.4 <b>122.4</b>						

## WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

BASE				AS-	BU	LT			•	
GLASS TYPES .18 X Conditioned X BWPM : Floor Area	= Points	Type/SC	Ove Ornt	erhang Len	Hgt	Area X	WPM	ΙX	WOI	= = Point
.18 2199.0 12.74	5042.7	Double, Clear	W	1.5	8.0	15.0	20.73	_	1.01	314.4
		Double, Clear	W	1.5	4.0	4.0	20.73		1.05	87.3
		Double, Clear	N	99.0	9.5	10.0	24.58		1.03	252.5
		Double, Clear	W	13.5	9.5	30.0	20.73		1.20	746.2
		Double, Clear	SW	12.0	8.0	14.0	16.74		1.81	424.4
		Double, Clear	W	8.8	8.0	28.0	20.73		1.18	683.8
		Double, Clear	S	99.0	9.5	20.0	13.30	:	3.66	973.4
		Double, Clear	W	1.5	8.0	36.0	20.73		1.01	754.5
-		Double, Clear	N	1.5	4.5	16.0	24.58		1.00	395.1
		Double, Clear	E	1.5	8.0	56.0	18.79		1.02	1073.3
		Double, Clear	Ε	7.5	9.5	20.0	18.79		1.22	460.3
		Double, Clear	E	7.5	4.0	12.0	18.79		1.44	324.7
		Double, Clear	NE	1.5	5.5	10.0	23.57		1.01	237.6
13		Double, Clear	Ε	1.5	5.5	15.0	18.79		1.04	293.5
		Double, Clear	SE	1.5	5.5	10.0	14.71		1.11	163.8
		Double, Clear	S	1.5	1.5	4.0	13.30	:	2.73	145.3
		Double, Clear	S	1.5	5.5	30.0	13.30		1.15	457.6
Ÿ		As-Built Total:				330.0				7787.7
WALL TYPES Area X BWPM	1 = Points	Туре		R-V	/alue	Area	x w	РM	=	Points
Adjacent 318.0 3.60	1144.8	Frame, Wood, Exterior			13.0	1428.0	3	3.40		4855.2
Exterior 1428.0 3.70	5283.6	Frame, Wood, Adjacent			13.0	318.0	3	3.30		1049.4
Base Total: 1746.0	6428.4	As-Built Total:				1746.0				5904.6
DOOR TYPES Area X BWPN	1 = Points	Туре				Area	x w	PΜ	=	Points
Adjacent 20.0 11.50	230.0	Exterior Insulated				80.0	8	3.40		672.0
Exterior 80.0 12.30	984.0	Adjacent Insulated				20.0		.00		160.0
Base Total: 100.0	1214.0	As-Built Total:				100.0				832.0
CEILING TYPES Area X BWPM	l = Points	Туре	R-	-Value	Ar	ea X W	PM X	WCI	<b>v</b> 1 =	Points
Under Attic 2199.0 2.05	4507.9	Under Attic		;	30.0	2260.0	2.05 X 1	.00		4633.0
Base Total: 2199.0	4507.9	As-Built Total:				2260.0				4633.0

## WINTER CALCULATIONS

# Residential Whole Building Performance Method A - Details

	BASE	li .	AS-BUILT							
FLOOR TYPE	S Area X BWI	PM = Points	Type R-Value Area X WPM = Points							
Slab Raised		3.9 2100.4 00 0.0	Slab-On-Grade Edge Insulation 0.0 236.0(p 18.80 4436.8							
Base Total:		2100.4	As-Built Total: 236.0 4436.8							
INFILTRATIO	Vi Area X BWI	PM = Points	Area X WPM = Points							
	2199.0 -0	.59 -1297.4	2199.0 -0.59 -1297.4							
Winter Base	Points:	17996.1	Winter As-Built Points: 22296.7							
Total Winter > Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)							
17996.1	0.6274	11290.7	(sys 1: Electric Heat Pump 48000 btuh ,EFF(7.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 22296.7 1.000 (1.069 x 1.169 x 1.00) 0.437 1.000 12181.3 22296.7 1.00 1.250 0.437 1.000 12181.3							

FORM 600A-2004 EnergyGauge® 4.0

# **WATER HEATING & CODE COMPLIANCE STATUS**

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Rolling Meadows, Plat: , , FL, PERMIT #:

	В	ASE			AS-BUILT							
WATER HEATING  Number of X Multiplier = Total  Bedrooms					Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X	Credit Multipli	= Total er
4		2635.00	1	0540.0	40.0	0.92	4		1.00	2635.00	1.00	10540.0
						As-Built Total:						10540.0

	CODE COMPLIANCE STATUS												
	BAS					Α	S-	BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
12219		11291		10540		34050	10122		12181		10540		32844

**PASS** 



# **Code Compliance Checklist**

# Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 2, Sub: Rolling Meadows, Plat: , , FL, PERMIT #:

### **6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

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

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

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

# **ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**

### ESTIMATED ENERGY PERFORMANCE SCORE\* = 83.3

The higher the score, the more efficient the home.

Spec House, Lot: 2, Sub: Rolling Meadows, Plat: , , FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 48.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	2199 ft²	c. N/A	
7. Glass type 1 and area: (Label reqd. 1	by 13-104.4.5 if not default)		_
a. U-factor:	Description Area	13. Heating systems	· · · · · · · · · · · · · · · · · · ·
(or Single or Double DEFAULT)		a. Electric Heat Pump	Cap: 48.0 kBtu/hr
b. SHGC:	,		HSPF: 7.80
(or Clear or Tint DEFAULT)	7b. (Clear) 229.0 ft <sup>2</sup>	b. N/A	50° - 20° -
8. Floor types	,		
a. Slab-On-Grade Edge Insulation	R=0.0, 236.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types	W 10	a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Exterior	R=13.0, 1428.0 ft <sup>2</sup>		EF: 0.92
b. Frame, Wood, Adjacent	R=13.0, 318.0 ft <sup>2</sup>	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, 2260.0 ft <sup>2</sup>	15. HVAC credits	2012
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: Garage	Sup. R=6.0, 250.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
I certify that this home has compli Construction through the above en			OF THE STATE
in this home before final inspectio			3/300 / 21
based on installed Code compliant		Aug Cara Will 50 00mplotou	E STATE OF THE STA
Builder Signature:	Date	e:	

\*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 EnergyStd<sup>TM</sup> 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.

City/FL Zip:

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCSB v4.0)

Address of New Home:



# **BUILDING INPUT SUMMARY REPORT**

PROJECT	Owner: Spec House New/ # of Units: 1 Bedr Builder Name: Josh Sparks Cond Climate: North Total Permit Office: (blank) Wors	ly Type: Existing: ooms: litioned Area: Stories: st Case: te Angle:	Single Address Type: Lot Information  New Lot #: 2  4 Subdivision: Rolling Meadows  1: 2199 Platbook: (blank)  1 Street: N/A  Yes County: Columbia (blank) City, St, Zip: , FL,
FLOORS	# Floor Type R-Val Area/Perimeter  1 Slab-On-Grade Edge Insulation 0.0 236.0(p) ft	Units 1	# Door Type Orientation Area Units  1 Insulated Exterior 10.0 ft² 8 2 Insulated Adjacent 20.0 ft² 1
CEILINGS	# Ceiling Type R-Val Area Base Are  1 Under Attic 30.0 2260.0 ft² 2199.0 ft²  Credit Multipliers: None	a Units	# System Type Efficiency Capacity  1 Central Unit SEER: 12.00 48.0 kBtu/hr  Credit Multipliers: None
WALLS	# Wall Type Location R-Val Area  1 Frame - Wood Exterior 13.0 1428.0 ft 2 Frame - Wood Adjacent 13.0 318.0 ft		# System Type Efficiency Capacity
	1         Double         Clear         N         15.0 ft²         1.5 ft         8.           2         Double         Clear         N         4.0 ft²         1.5 ft         4.           3         Double         Clear         E         10.0 ft²         99.0 ft         9.           4         Double         Clear         N         10.0 ft²         13.5 ft         9.	ght Units 0 ft 1 0 ft 1 5 ft 1 5 ft 3 0 ft 1	_   1 Official. Official. Garage 0.0 250.0 it
	7         Double         Clear         W         10.0 ft²         99.0 ft         9.           8         Double         Clear         N         18.0 ft²         1.5 ft         8.           9         Double         Clear         E         16.0 ft²         1.5 ft         4.           10         Double         Clear         S         28.0 ft²         1.5 ft         8.           11         Double         Clear         S         10.0 ft²         7.5 ft         9.	0ff 1 5ff 2 0ff 2 5ff 1 0ff 2 5ff 2 0ff 1	# System Type EF Cap. Conservation Type Con. EF
WINDOWS	14 Double         Clear         S         15.0 ft²         1.5 ft         5.           15 Double         Clear         SW         10.0 ft²         1.5 ft         5.           16 Double         Clear         W         4.0 ft²         1.5 ft         1.5 ft	5ft 1 5ft 1 5ft 1 5ft 1 5ft 2	# Use Default? Annual Operating Cost Electric Rate  1 Yes N/A N/A
Λ	A 27		

# Residential System Sizing Calculation

Summary Project Title:

, FL

**Spec House** 

Project Title: 511234SparksConstruction

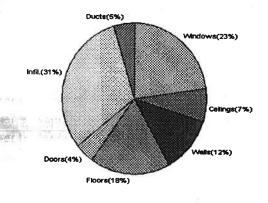
Class 3 Rating Registration No. 0 Climate: North

			12/1/2005	
Location for weather data: Gaines	ville - Defaults: Lati	tude(29) Temp Range(M)		
		77F) Humidity difference(51gr.)		
Winter design temperature	31 F	Summer design temperature	93	F
Winter setpoint	70 F	Summer setpoint	75	F
Winter temperature difference	39 F	Summer temperature difference	18	F
Total heating load calculation	40874 Btuh	Total cooling load calculation	39337	
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	117.4 48000	Sensible (SHR = 0.75)		36000
Heat Pump + Auxiliary(0.0kW)	117.4 48000	Latent	111.6	12000
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total (Electric Heat Pump)	122.0	48000

### **WINTER CALCULATIONS**

Winter Heating Load (for 2199 sqft)

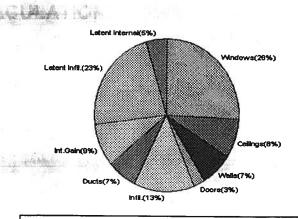
Load component		Load	
Window total 330	) sqft	9339	Btuh
Wall total 1746	sqft	4936	Btuh
Door total 100	) sqft	1654	Btuh
Ceiling total 2260	) sqft	2938	Btuh
Floor total 236	ft	7458	Btuh
Infiltration 294	cfm	12603	Btuh
Subtotal		38928	Btuh
Duct loss		1946	Btuh
TOTAL HEAT LOSS		40874	Btuh



### **SUMMER CALCULATIONS**

Summer Cooling Load (for 2199 sqft)

Load component		1	Load	Se make
Window total	330	sqft	10255	Btuh
Wall total	1746	sqft	2815	Btuh
Door total	100	sqft	1014	Btuh
Ceiling total	2260	sqft	3209	Btuh
Floor total			0	Btuh
Infiltration	257	cfm	5090	Btuh
Internal gain			3600	Btuh
Subtotal(sensible)	in the	Cfm.L	25984	Btuh
Duct gain			2598	Btuh
Total sensible gain			28582	Btuh
Latent gain(infiltration)			8915	Btuh
Latent gain(internal)		- 1	1840	Btuh
Total latent gain			10755	Btuh
TOTAL HEAT GAIN			39337	Btuh



EnergyGauge® System	n Sizing based on ACCA Manual J.
PREPARED BY: 13	n Sizing based on ACCA Manual J.

DATE: 12-1-

# **System Sizing Calculations - Winter**

# Residential Load - Component Details Project Title:

**Spec House** 

511234SparksConstruction

Class 3 Rating Registration No. 0 Climate: North

, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

12/1/2005

Window	Panes/SHGC/Frame/U	Orientation	n Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	15.0	28.3	424 Btul
2	2, Clear, Metal, DEF	N	. 4.0	28.3	113 Btul
3	2, Clear, Metal, DEF	E	10.0	28.3	283 Btul
4	2, Clear, Metal, DEF	N	30.0	28.3	849 Btul
5	2, Clear, Metal, DEF	NW	14.0	28.3	396 Btul
6	2, Clear, Metal, DEF	N	28.0	28.3	792 Btul
7=	2, Clear, Metal, DEF	W	20.0	28.3	566 Btul
8	2, Clear, Metal, DEF	= <b>N</b>	36.0	28.3	1019 Btul
9	2, Clear, Metal, DEF	, E	16.0	28.3	453 Btul
10	2, Clear, Metal, DEF	S	56.0	28.3	1585 Btul
11	2, Clear, Metal, DEF	S	20.0	28.3	566 Btul
12	2, Clear, Metal, DEF	S	12.0	28.3	340 Btul
13	2, Clear, Metal, DEF	SE	10.0	28.3	283 Btul
14	2, Clear, Metal, DEF	S	15.0	28.3	424 Btul
15	2, Clear, Metal, DEF	SW	10.0	28.3	283 Btul
16	2, Clear, Metal, DEF	W	4.0	28.3	113 Btul
17	2, Clear, Metal, DEF	W	30.0	28.3	849 Btul
	Window Total		330		9339 Btul
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1428	3.1	4427 Btul
2	Frame - Adjacent	13.0	318	1.6	509 Btul
	Wall Total	illy tr	1746		4936 Btul
Doors	Туре	(1.140 gr	Area X	HTM=	Load
1	Insulated - Exter	4.4	80	18.3	1466 Btul
2	Insulated - Adjac		20	9.4	188 Btul
	Door Total		100		40E 4D4
Ceilings	Type	R-Value	Area X	HTM=	1654Btul Load
1	Under Attic	30.0	2260	1.3	2938 Btul
	Ceiling Total		2000		
Floors	Type	R-Value	2260 Size V	UTM-	2938Btul
1	Slab-On-Grade Edge Insul	R-value 0	Size X	HTM=	Load
•	Slab-Oil-Glade Edge Ilisul	0,	236.0 ft(p)	31.6	7458 Btul
	Floor Total		236		7458 Btul
Infiltration	Туре		Building Volume	CFM=	Load
	Natural	0.80	21990(sqft)	294	12603 Btul
	Mechanical	13-0		0	0 Btul
	Infiltration Total		5000000	294	12603 Btul

p +5	Subtotal	38928 Btuh
Totals for Heating	Duct Loss(using duct multiplier of 0.05)	1946 Btuh
	Eotigi/@tuheLiusePB	40874 Btuh

# **Manual J Winter Calculations**

Residential Load - Component Details (continued)
Project Title:

**Spec House** 

511234SparksConstruction

Class 3 Rating Registration No. 0 Climate: North

, FL

12/1/2005

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 )

# **System Sizing Calculations - Summer**

# Residential Load - Component Details Project Title: 511234SparksConstruction

**Spec House** 

Class 3 Rating Registration No. 0 Climate: North

, FL

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

12/1/2005

	Туре	Ove	Overhang		dow Are	a(sqft)	Н	TM	Load	
Window	Panes/SHGC/U/InSh/ExSh Ornt	Len	Hgt	Gross		Unshaded	Shaded	Unshaded		
1	2, Clear, DEF, N, N N	1.5	8	15.0	0.0	15.0	22	22	330	Btuh
2	2, Clear, DEF, N, N N	1.5	4	4.0	0.0	4.0	22	22	88	
3	2, Clear, DEF, N, N E	99	9.5	10.0	10.0	0.0	22	72	220	
4	2, Clear, DEF, N, N N	13.5	9.5	30.0	0.0	30.0	22	22	660	
5	2, Clear, DEF, N, N NW	. 12	8	14.0	0.0	14.0	22	50	700	
6	2, Clear, DEF, N, N N	8.83	8	28.0	0.0	28.0	22	22	616	Btuh
7	2, Clear, DEF, N, N W	99	9.5	20.0	20.0	0.0	22	72	440	Btuh
8	2, Clear, DEF, N, N N	1,5	8	36.0	0.0	36.0	22	22	792	
9	2, Clear, DEF, N, N	1.5	4.5	16.0	3.0	13.0	22	72	1003	Btuh
10	2, Clear, DEF, N, N S	1.5	8	56.0	56.0	0.0	22	37	1232	Btuh
11	2, Clear, DEF, N, N S	7.5	9.5	20.0	20.0	0.0	22	37	440	Btuh
12	2, Clear, DEF, N, N S	7.5	4	12.0	12.0	0.0	22	37	264	Btuh
13	2, Clear, DEF, N, N SE	1.5	5.5	10.0	0.6	9.4	22	62	597	Btuh
14	2, Clear, DEF, N, N S	1.5	5.5	15.0	15.0	0.0	22	37	330	Btuh
15	2, Clear, DEF, N, N SW	1.5	5.5	10.0	0.6	9.4	22	62	597	Btuh
16	2, Clear, DEF, N, N W	1.5	1.5	4.0	3.3	0.7	22	72	122	Btuh
17	2, Clear, DEF, N, N W	1.5	5,5	30.0	6.7	23.3	22	72	1825	Btuh
- removes of	FOCAL SEE SECOND	Len	Hat	a.Gmss	The state of the s				1020	Dian
	Window Total	1	WILLIAM T	330		and the second			10255	Btuh
Walls	Туре	R-	Value	Min.	A	rea		нтм	Load	
1 🧃	Frame - Exterior		13.0		14	128.0		1.7	2485	Btuh
2	Frame - Adjacent		13.0		3	18.0		1.0	331	Btuh
	2 4 4 4									
	Wall Total	-			17	46.0		====	2815	Btuh
Doors	Туре		"mis		A	rea		НТМ	Load	
1	Insulated - Exter		201	10.100.3		30.0		10.1	811	Btuh
2	Insulated - Adjac	1.0	45	150	T. Marrietta	20.0		10.1	203	Btuh
		-				Mary Control				
	Door Total	111	19.00		1	0.00			1014	Btuh
Ceilings	Type/Color	R-\	/alue		A	rea		НТМ	Load	
1	Under Attic/Dark		30.0		22	260.0		1.4	3209	Btuh
	Ceiling Total	9-9	wa.		22	60.0			3209	Btuh
Floors	Туре	R-\	/alue		8	ize		HTM	Load	
1	Slab-On-Grade Edge Insulation		0.0		2	36.0 ft(p)		0.0	0	Btuh
		100	, section,	Giberra W	. Asia					
=1)	Floor Total	77.782	A APPLIES	1000	23	36.0			0	Btüh
nfiltration	Туре	Α	СН		Vol	ume		CFM=	Load	
	Natural		0.70		21	1990		257.1	5090	Btuh
	Mechanical							0		Btuh
	Infiltration Total		71					257	5090	Btuh

Internal	Occupants	Btuh/occupant	Appliance	Load
gain	8	X 300 +	1200	3600 Btuh

# **Manual J Summer Calculations**

Residential Load - Component Details (continued)
Project Title: Class

**Spec House** 

, FL

511234SparksConstruction

Class 3 Rating Registration No. 0 Climate: North

12/1/2005

	Subtotal	25984	Btuh
Đ	Duct gain(using duct multiplier of 0.10)	2598	Btuh
n	Total sensible gain	28582	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	8915	Btuh
G 83	Latent occupant gain (8 people @ 230 Btuh per person)	1840	Btuh
	Latent other gain	0	Btuh
3 100 2	TOTAL GAIN	39337	Btuh

Key: Window types (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/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

From: The Columbia County Building Department

**Plans Review** 

135 NE Hernando Av.

P. O Box 1529

Lake City Florida, 32056-1529

Reference to: Build permit application Number: 0512-58

Sparks Construction Owner Sparks Construction lot 2 Rolling Meadows

On the date of December 27, 2005 application 0512-58 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

# Please include application number 0512-58 when making reference to this application.

- Please submit an approved copy of the Columbia County Environmental Health
   Department site plan application for an on site waste water septic system.
- Please submit a recorded (with the Columbia County Clerk Office) a notice of commencement before any inspections can be preformed by the Columbia County Building Department.
- On the dwelling elevation drawing show the height of the chimney flue above the roof peak and the distance from the nearest roof line intersection.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

Project Information for:

L141740

Builder:

SPARKS CONSTRUCTION

11/30/2005

1416

Lot:

LOT 2 ROLLING MEADOWS Start Number:

Subdivision:

County or City:

**COLUMBIA COUNTY** 

Truss Page Count:

38

Truss Design Load Information (UNO) Gravity

Wind

Design Program: MiTek 5.2 / 6.2

FBC2004

Roof (psf):

42

**Building Code:** 

Floor (psf):

Wind Standard:

**ASCE 7-02** 

55 Wind Speed (mph): 110

Note: See individual truss drawings for special loading conditions

#### Building Designer, responsible for Structural Engineering: (See attached)

SPARKS, JOSHUA D. CBC 1252260

Address:

130 S W COUNTRY CT

LIVE OAK FL 32060

Designer:

115

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987

Company:

Structural Engineering and Inspections, Inc. EB 9196

Address

16105 N. Florida Ave, Ste B, Lutz, FL 33549

Notes:

- 1. Truss Design Engineer is responsible for the individual trusses as components only.
- 2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
- 3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
- 4. Trusses designed for veritcal loads only, unless noted otherwise.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
<u> </u>	EJ7	1130051416	11/30/2005				
2	EJ7A	1130051417	11/30/2005				<u> </u>
3	PB01	1130051418	11/30/2005				
4	PB02	1130051419	11/30/2005				
5	PB03	1130051420	11/30/2005			-	
6	PB04	1130051421	11/30/2005				, .
7	PB05	1130051422	11/30/2005				
8	PB06	1130051423	11/30/2005				
9	PB07	1130051424	11/30/2005				ŀ
10	T01	1130051425	11/30/2005				1
11	T01G	1130051426	11/30/2005	·			
12	T02	1130051427	11/30/2005				
13	T03	1130051428	11/30/2005				
14	T03G	1130051429	11/30/2005				
15	T04G	1130051430	11/30/2005				
16	T05	1130051431	11/30/2005				
17	T05A	1130051432	11/30/2005				
18	T05G	1130051433	11/30/2005				
19	T06	1130051434	11/30/2005				1
20	T07	1130051435	11/30/2005				
21	T08	1130051436	11/30/2005				
22	T09	1130051437	11/30/2005				
23	T10	1130051438	11/30/2005				1
24	T11	1130051439	11/30/2005				
25	T12	1130051440	11/30/2005				
26	T13	1130051441	11/30/2005				1
27	T14	1130051442	11/30/2005				
28	T15	1130051443	11/30/2005				1
29	T16	1130051444	11/30/2005				
30	T17	1130051445	11/30/2005		1	* * * * * * * * * * * * * * * * * * * *	1
31	T18	1130051446	11/30/2005				
32	T19	1130051447	11/30/2005				
33	T20	1130051448	11/30/2005				
34	T21	1130051449	11/30/2005				
35	T22	1130051450	11/30/2005	· · ·	1		
36	T23	1130051451	11/30/2005				
37	T24	1130051452	11/30/2005				
38	V01	1130051453	11/30/2005				
	1			-			
	† †					<del></del>	







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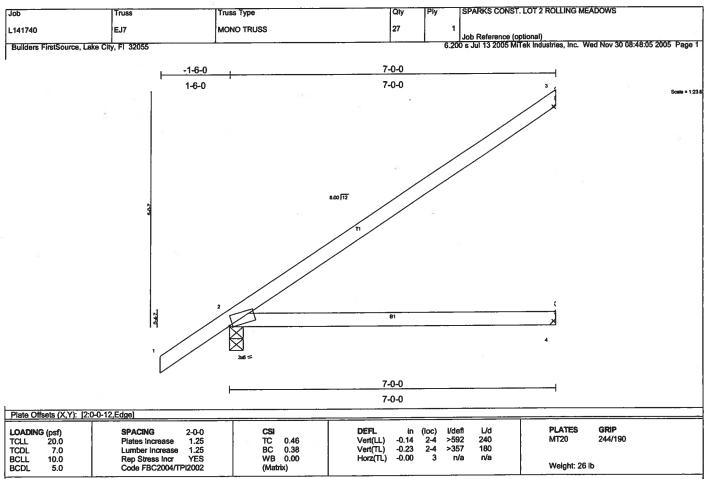


Term Glossary



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LUMBER

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

BRACING TOP CHORD BOT CHORD

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

REACTIONS (lb/size) 3=165/Mechanical, 2=385/0-3-8, 4=110/Mechanical Max Horz 2=277(load case 5)

Max Uplift3=-165(load case 5), 2=-141(load case 5), 4=-1(load case 5)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/44, 2-3=-133/73 BOT CHORD 2-4=0/0

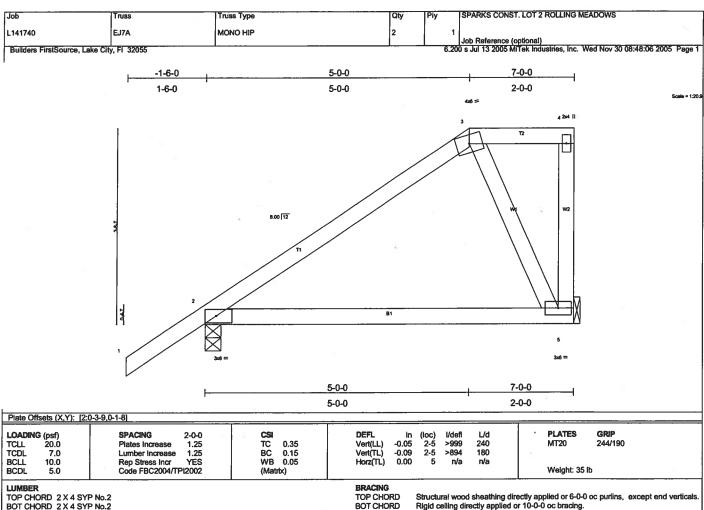
NOTES

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

2) Refer to girder(s) for truss to truss connections.

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 ib uplift at joint 3, 141 lb uplift at joint 2 and 1 ib uplift at joint 3.

LOAD CASE(S) Standard



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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid celling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 5=271/Mechanical, 2=382/0-3-8

Max Horz 2=219(load case 5)
Max Uplift5=-108(load case 5), 2=-171(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/44, 2-3=-200/33, 3-4=-35/0, 4-5=-32/61 BOT CHORD 2-5=-98/123

**WEBS** 3-5=-185/219

NOTES

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

2) Provide adequate drainage to prevent water ponding.

3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 5 and 171 lb uplift at joint 2.

LOAD CASE(S) Standard

SPARKS CONSTITUTE ROLLING MEADOWS russ Type L141740 PB01 HIP PIGGYBACK Job Reference (optional) 6.200 s Jul 13 2005 MTek Industries, Inc. Wed Nov 30 08:50:45 2005 Page 1 Builders FirstSource, Lake City, FI 32055 17-4-1 2-0-0 15-4-1 2-0-0 13-4-1 2-0-0 X  $\aleph$ 4-0-0 8-0-0 13-4-1 17-4-1 4-0-0 4-0-0 4-0-0 4-0-0 1-4-1 LOADING (psf) **PLATES** GRIP SPACING DEFL I/defi L/d TC BC 0.01 -0.01 240 180 TCLL TCDL Plates Increase 1.25 0.15 0.12 Vert(LL) >999 MT20 244/190 1.25 Vert(TL) 9-11 7.0 Lumber Increase >999 10.0 WB Horz(TL) 0.01 10 n/a Weight: 54 lb BCDL Code FBC2004/TPI2002 (Matrix) LUMBER BRACING Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 WEBS 2 X 4 SYP No.3 TOP CHORD BOT CHORD 2 X 4 SYP No.3 OTHERS

REACTIONS (lb/size) 1=134/0-3-8, 13=208/0-3-8, 14=363/0-3-8, 12=208/0-3-8, 11=363/0-3-8, 10=134/0-3-8

Max Horz 1=-44(load case 3)

Max Uplift1=-50(load case 5), 13=-116(load case 3), 14=-172(load case 4), 12=-114(load case 4), 11=-163(load case 3), 10=-52(load case 6)

Max Grav 1=134(load case 1), 13=219(load case 10), 14=368(load case 9), 12=219(load case 9), 11=368(load case 10), 10=134(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD BOT CHORD 1-2=68/40, 2-3=97/54, 3-4=-72/60, 4-5=-72/60, 5-6=-72/60, 6-7=-72/60, 7-8=-72/60, 8-9=-97/54, 9-10=-68/34 2-14=-25/72, 13-14=-25/72, 12-13=-25/72, 11-12=-25/72, 9-11=-25/72

5-13=-143/126, 4-14=-223/184, 6-12=-143/125, 7-11=-223/179

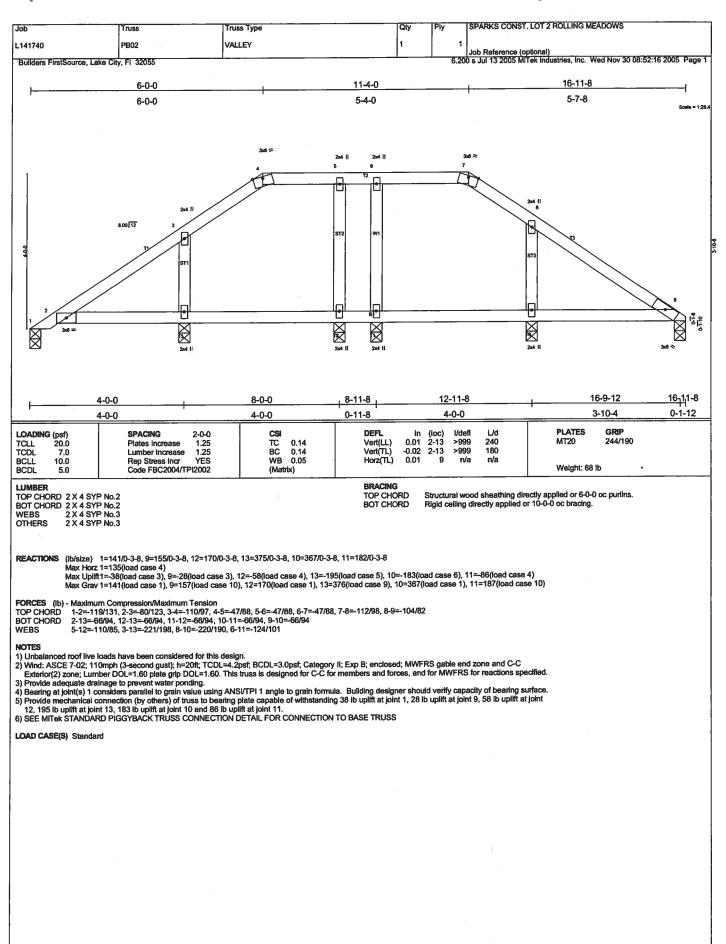
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft, TCDL=4.2psf, BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.

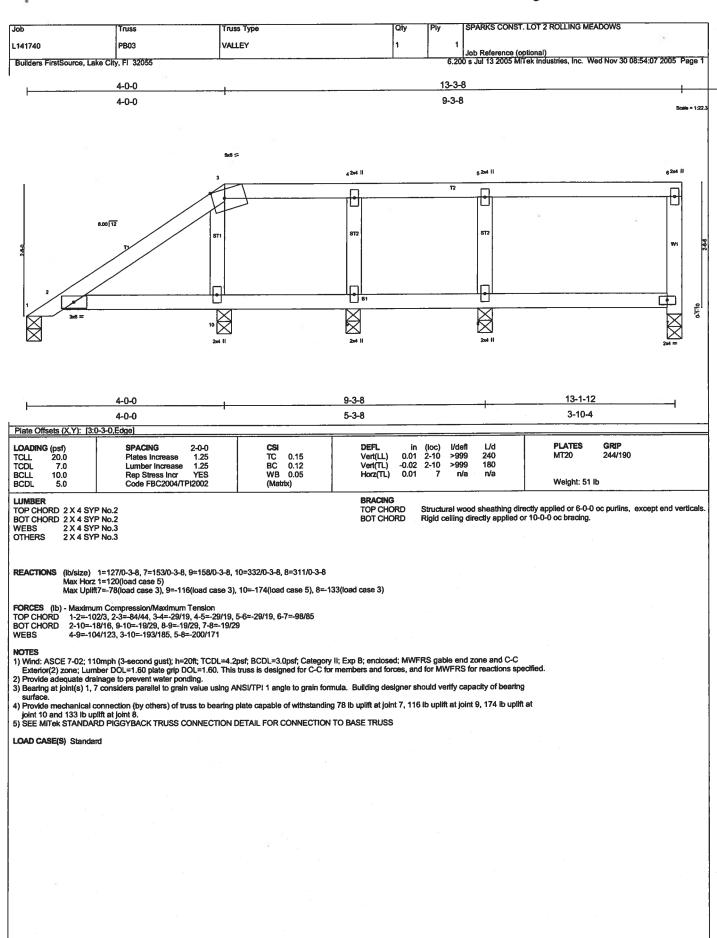
4) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing

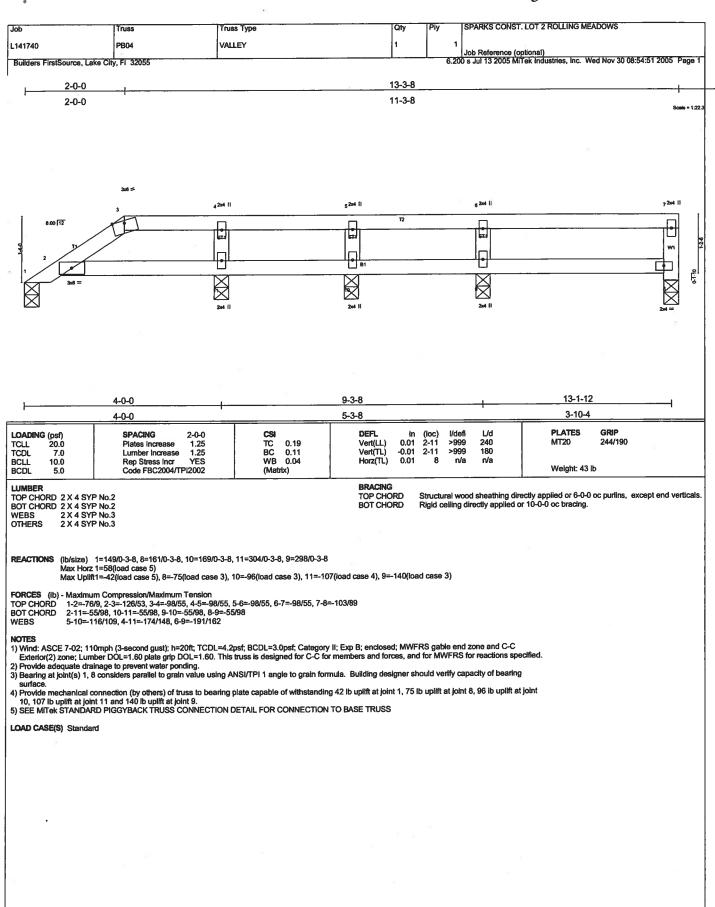
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1, 116 lb uplift at joint 13, 172 lb uplift at joint 14, 114 lb uplift at joint 12, 163 lb uplift at joint 11 and 52 lb uplift at joint 10.

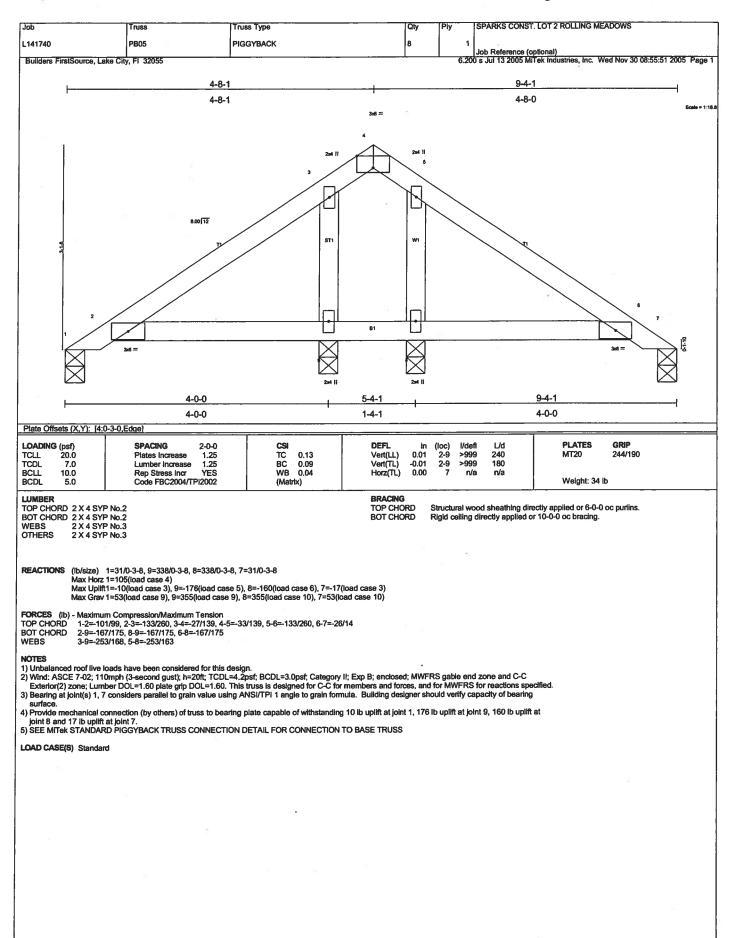
6) SEE MITEK STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

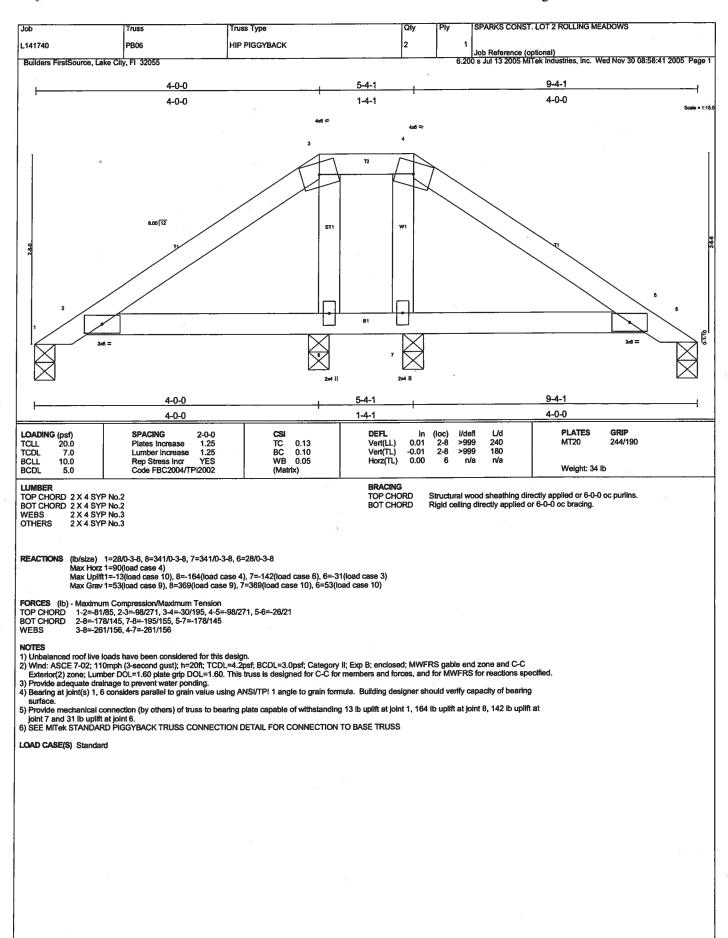
LOAD CASE(S) Standard

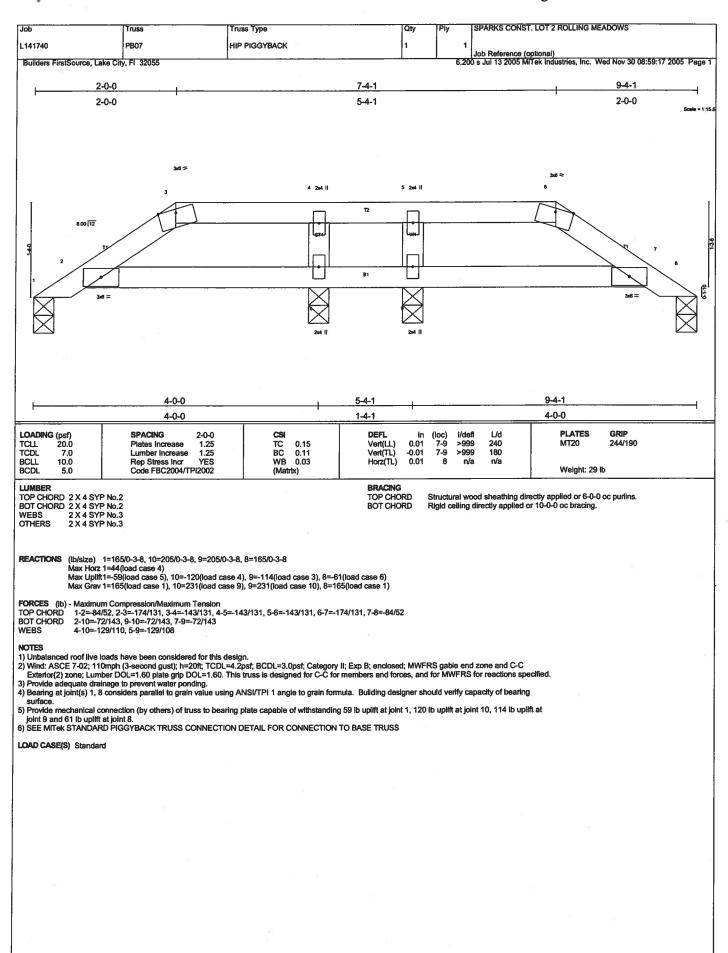


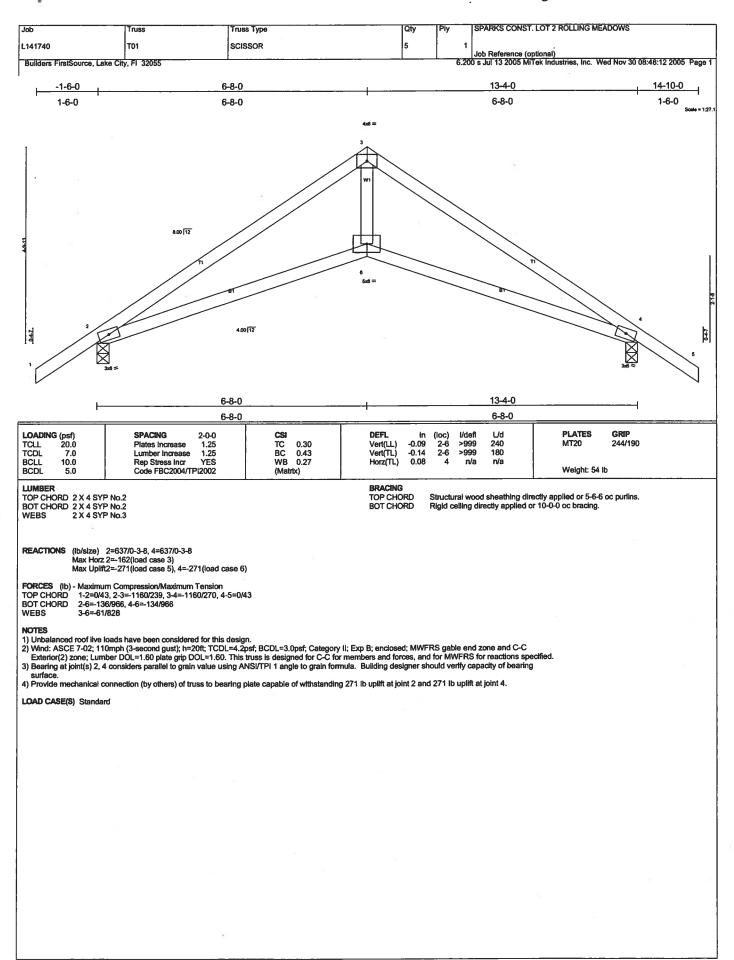


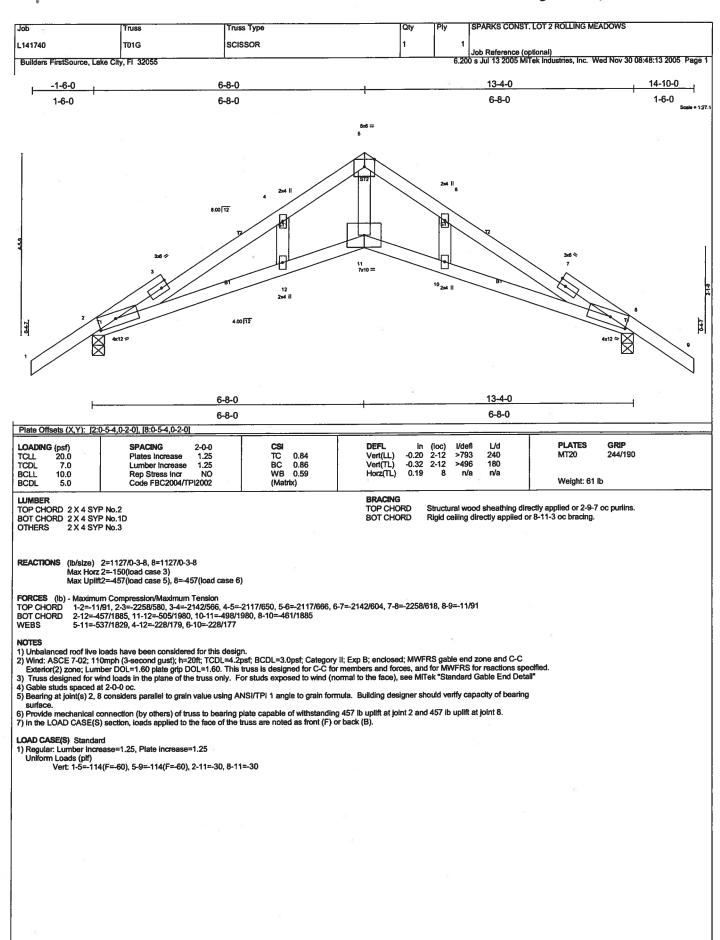


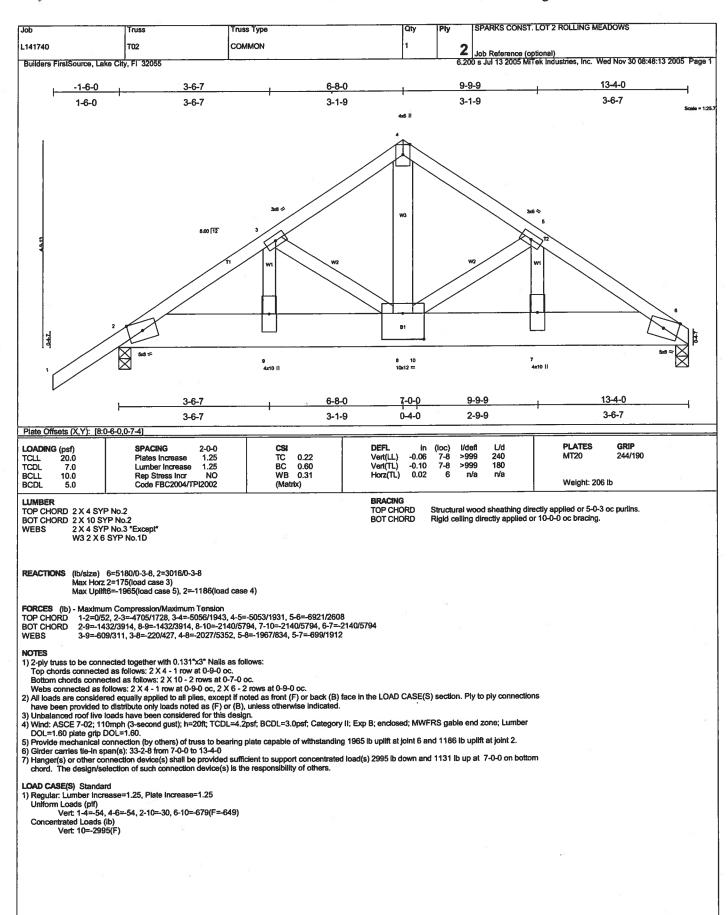


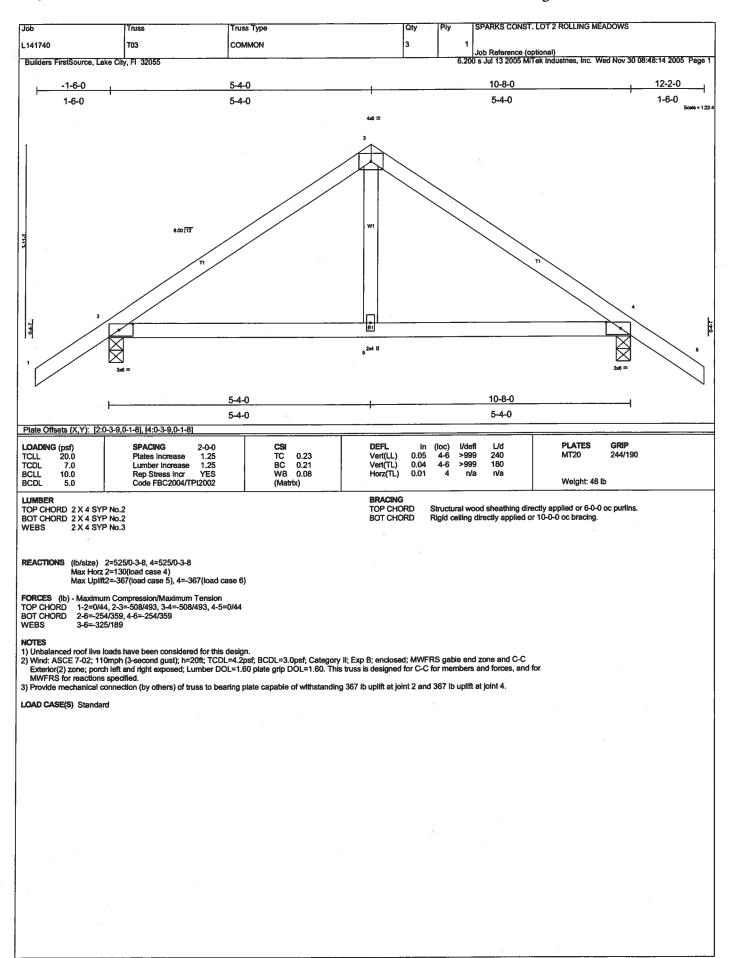


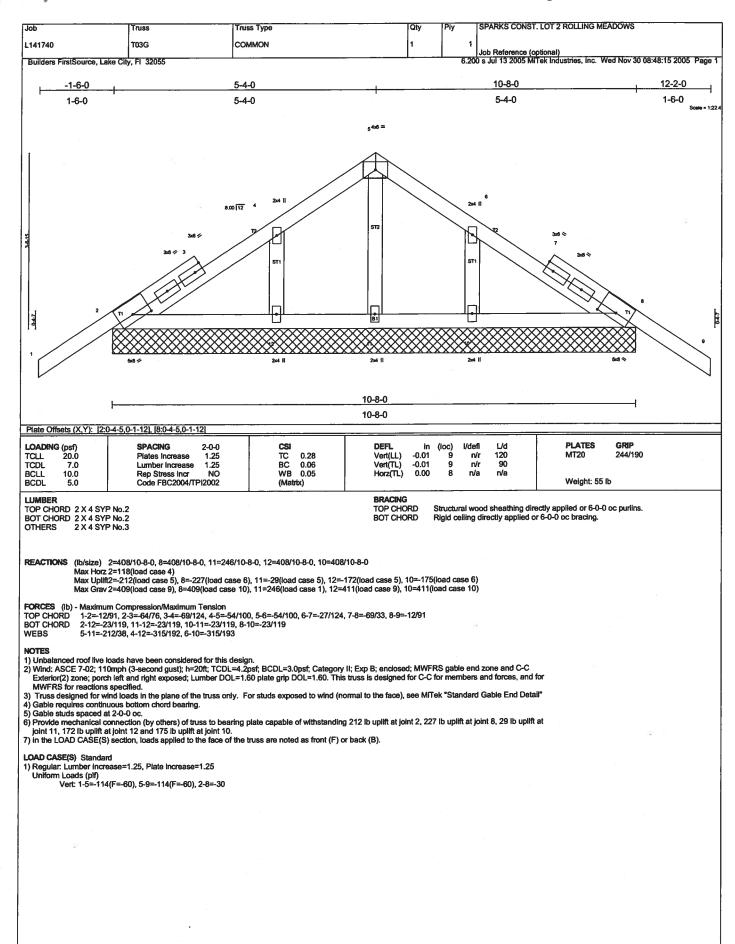


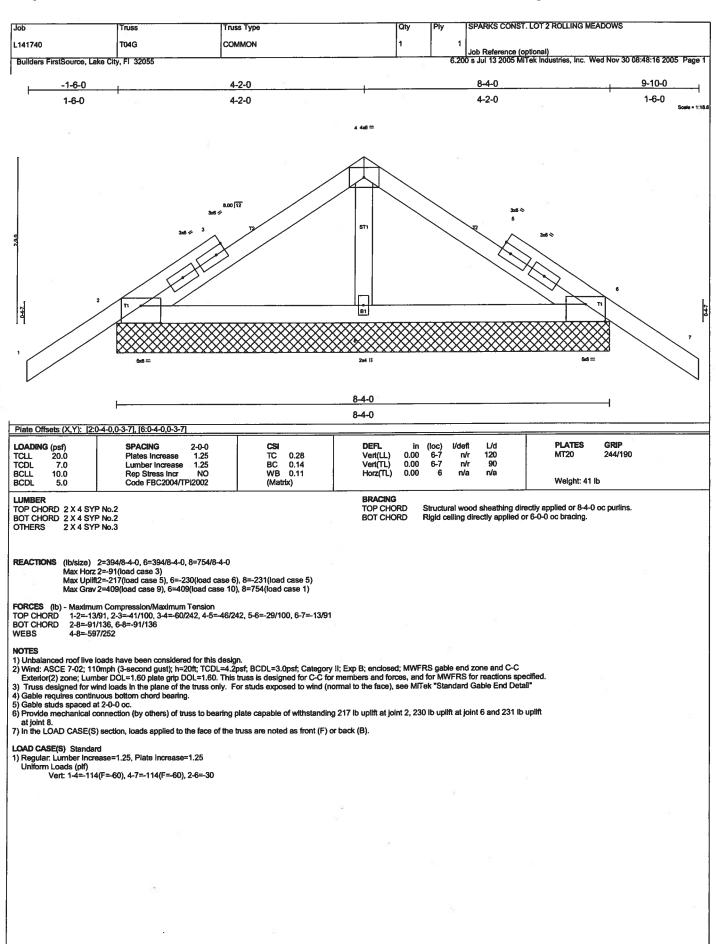


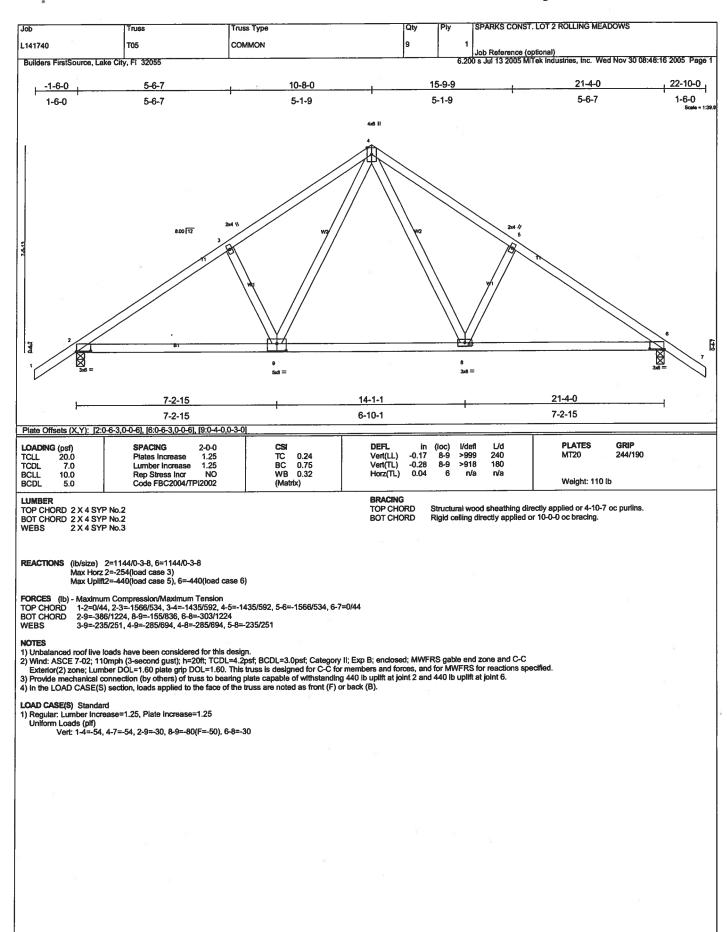


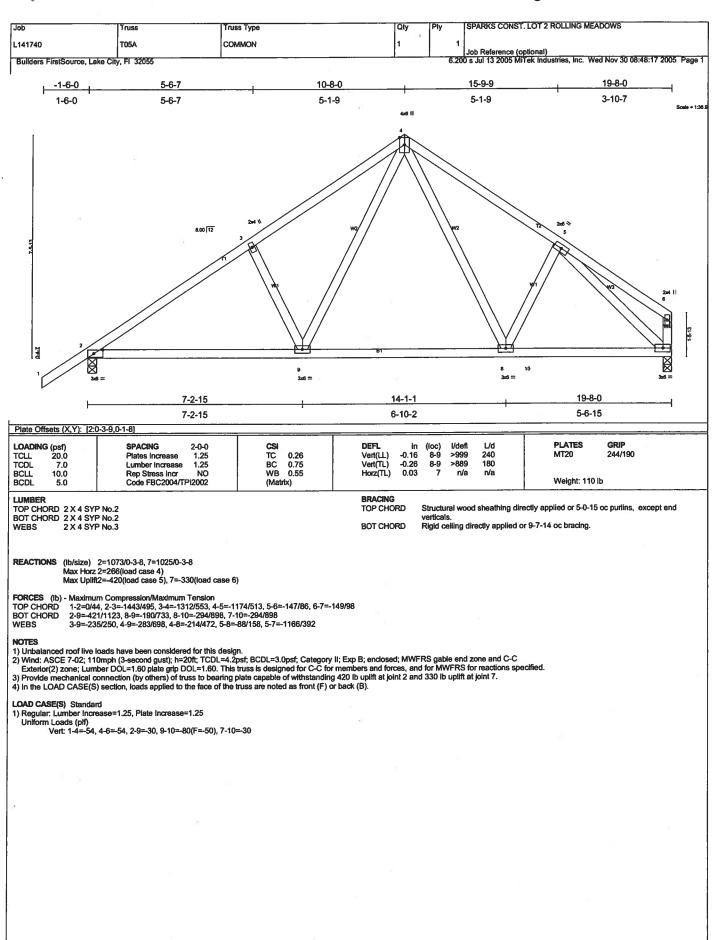


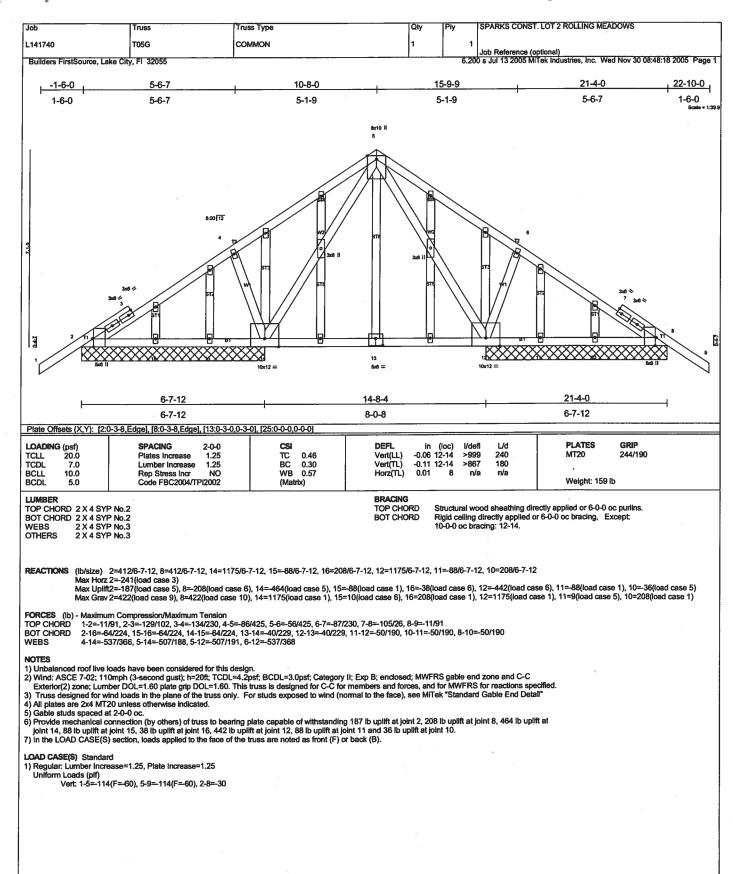


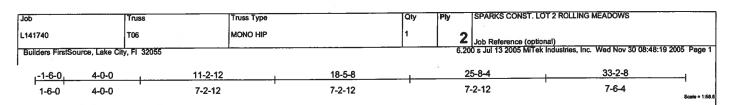


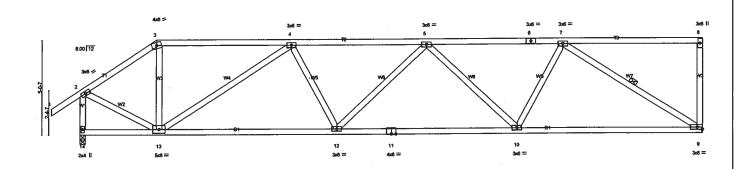












	D-0 9-7-11	+	9-7-11	9-11-3
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 10.0 BCDL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2004/TPl2002	CSI TC 0.78 BC 0.86 WB 0.81 (Matrix)	DEFL in (loc) V/defi L/d Vert(LL) -0.27 10-12 >999 240 Vert(TL) -0.43 10-12 >908 180 Horz(TL) 0.11 9 r/a r/s	PLATES GRIP MT20 244/190 Weight: 369 lb

H	IM	A	E	R

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

## TOP CHORD BOT CHORD

WEBS

2225

Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt

32.2.8

## (lb/size) 9=2995/Mechanical, 14=3111/0-3-8

Max Horz 14=240(load case 4)
Max Uplift9=-1407(load case 2), 14=-1239(load case 2)

FORCES (ib) - Maximum Compression/Maximum Tension
TOP CHORD
TOP CH

## NOTES

1) 2-ply truss to be connected together with 0.131"x3" Nails as follows: Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.

- Bottom chords connected as follows: 2 X 4 1 row at 0-9-0 oc.

  Webs connected as follows: 2 X 4 1 row at 0-9-0 oc.

  2) All loads are considered equally applied to all piles, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

  3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.

  4) Provide adequate drainage to prevent water ponding.

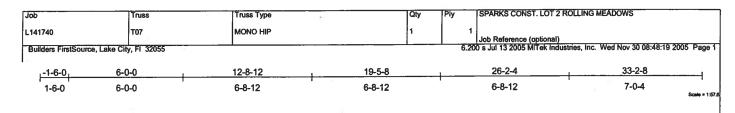
  5) Refer to girder(s) for fruss to truss connections.

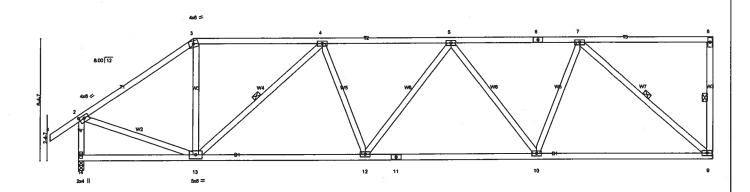
  6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1407 ib uplift at joint 9 and 1239 ib uplift at joint 14.

  7) Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 4-0-0

## LOAD CASE(S) Standard

1) Regular: Lumber increase=1.25, Plate increase=1.25 Uniform Loads (plf) Vert: 1-2=-54, 2-3=-54, 3-8=-117(F=-63), 13-14=-132(F=-102), 9-13=-65(F=-35)





L	6-0-0	14-11-11	23-11-5	33-2-8
1	6-0-0	8-11-11	8-11-11	9-3-3

Plate Offsets (X,Y): [2:	0-3-0,0-1-12]		
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 10.0 BCDL 5.0	SPACING 2-0-0 Plates increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2004/TPI2002	CSI TC 0.57 BC 0.59 WB 0.67 (Matrix)	DEFL   In (loc)   l/defl   L/d   PLATES   GRIP

LUMBER

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

BRACING TOP CHORD

**WEBS** 

**BOT CHORD** 

Structural wood sheathing directly applied or 4-4-15 oc purlins, except end

Rigid ceiling directly applied or 6-11-8 oc bracing.

1 Row at midpt 8-9, 4-13, 7-9

REACTIONS (lb/size) 9=1380/Mechanical, 14=1474/0-3-8

Max Horz 14=302(load case 5)
Max Uplift9=-623(load case 3), 14=-433(load case 5)

FORCES (b) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

BOT CHORD

WEBS

1-2=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

1-2=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

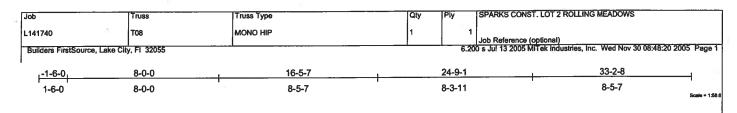
1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

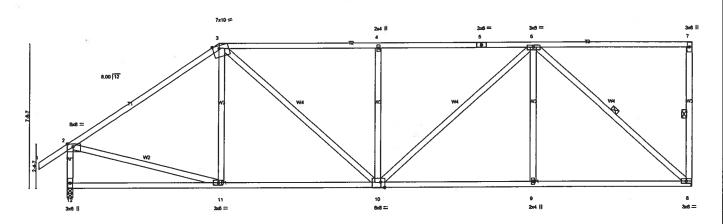
1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 7-8=-49/14, 8-9=-175/141, 2-14=-1398/604

1-3=0/49, 2-3=-1468/577, 3-4=-1159/556, 4-5=-1867/778, 5-6=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-1520/645, 6-7=-15

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

MWFRS for reactions specined.
2) Provide adequate drainage to prevent water ponding.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 623 ib uplift at joint 9 and 433 lb uplift at joint 14.





	8-0-0	16-5-7	24-9-1	33-2-8
	8-0-0	8-5-7	8-3-11	8-5-7
Dieta Officia (V V)	10:0.2.0 Edeal (3:0.4.0 Edeal (4	0:0 2 9 Edge)		

Piate Offsets (X,Y): [2:0-3-8,Edge], [3:0-4-0,Edge], [10:0-2-8,Edge]				
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 10.0 BCDL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2004/TPI2002	CSI TC 0.69 BC 0.44 WB 0.91 (Matrix)	DEFL         in (loc)         l/deft         L/d         PLATES         GRIP           Vert(LL)         -0.13 10-11         >999         240         MT20         244/190           Vert(TL)         -0.22 10-11         >999         180           Horz(TL)         0.05         8         n/a         weight: 209 lb	

LUMBER

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

BRACING TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals Rigid ceiling directly applied or 8-3-10 oc bracing. 1 Row at midpt 7-8, 6-8

REACTIONS (lb/size) 8=1380/Mechanical, 12=1474/0-3-8 Max Horz 12=363(load case 5)

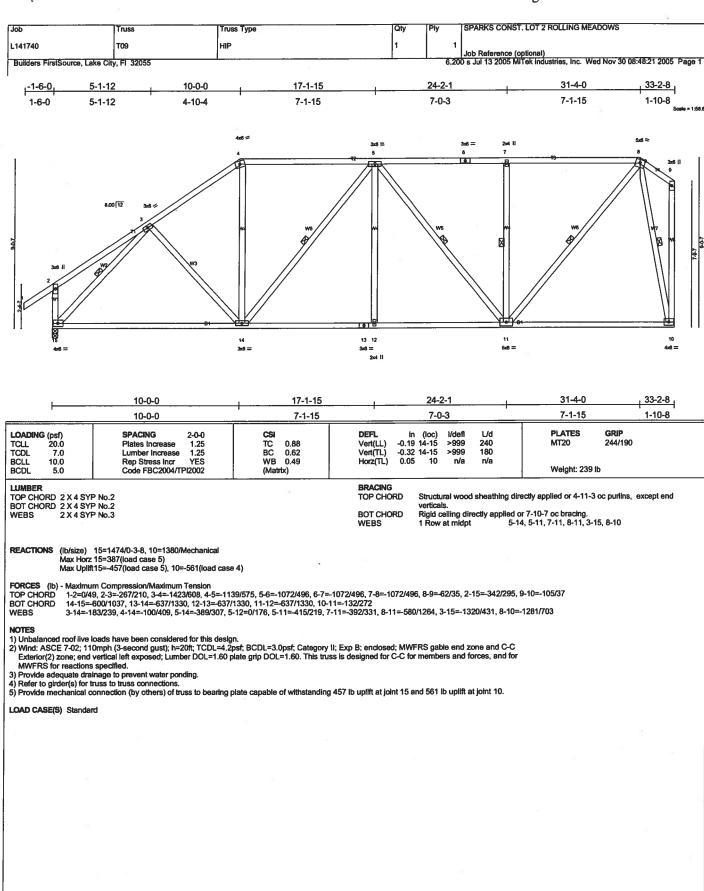
Max Uplift8=-598(load case 3), 12=-443(load case 5)

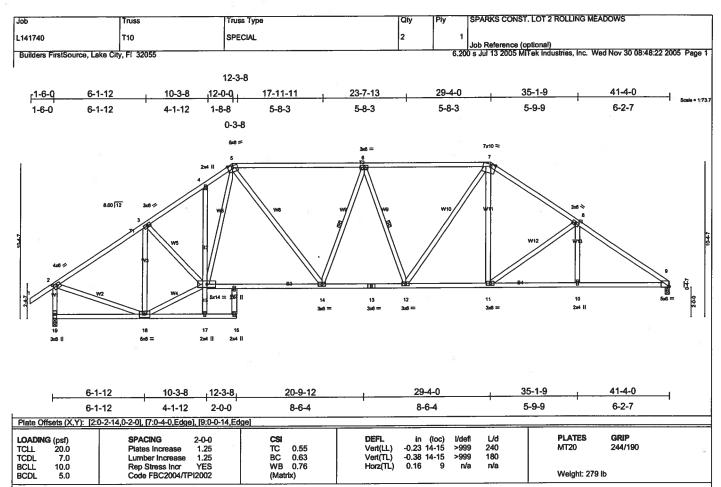
FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-1529/580, 3-4=-1593/698, 4-5=-1593/698, 5-6=-1593/698, 6-7=-43/21, 7-8=-206/172, 2-12=-1355/593
BOT CHORD 11-12=-415/150, 10-11=-581/1176, 9-10=-518/1225, 8-9=-518/1225
WEBS 3-11=-29/170, 3-10=-390/554, 4-10=-445/410, 6-10=-242/493, 6-9=0/255, 6-8=-1584/671, 2-11=-466/1064

## NOTES

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

2) Provide adequate drainage to prevent water ponding.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 598 lb uplift at joint 8 and 443 lb uplift at joint 12.





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

WEBS

B2 2 X 4 SYP No.3 2 X 4 SYP No.3

BRACING TOP CHORD

BOT CHORD WEBS

Structural wood sheathing directly applied or 3-5-1 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 6-14, 6-12

REACTIONS (lb/size) 9=1739/0-3-8, 19=1861/0-3-8

Max Horz 19=362(load case 4)
Max Uplift9=-487(load case 6), 19=-570(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD BOT CHORD

Maximum Compression/Maximum Fersion 1-2=0149, 23=180/1722, 34=2475/979, 4-5=-2336/990, 5-6=-2200/969, 6-7=-2172/969, 7-8=-2314/950, 8-9=-2770/1007, 2-19=-1763/728 18-19=-359/313, 17-18=-54/0, 16-17=0/0, 15-17=0/122, 4-15=-187/140, 14-15=-750/1888, 13-14=-841/2271, 12-13=-841/2271,

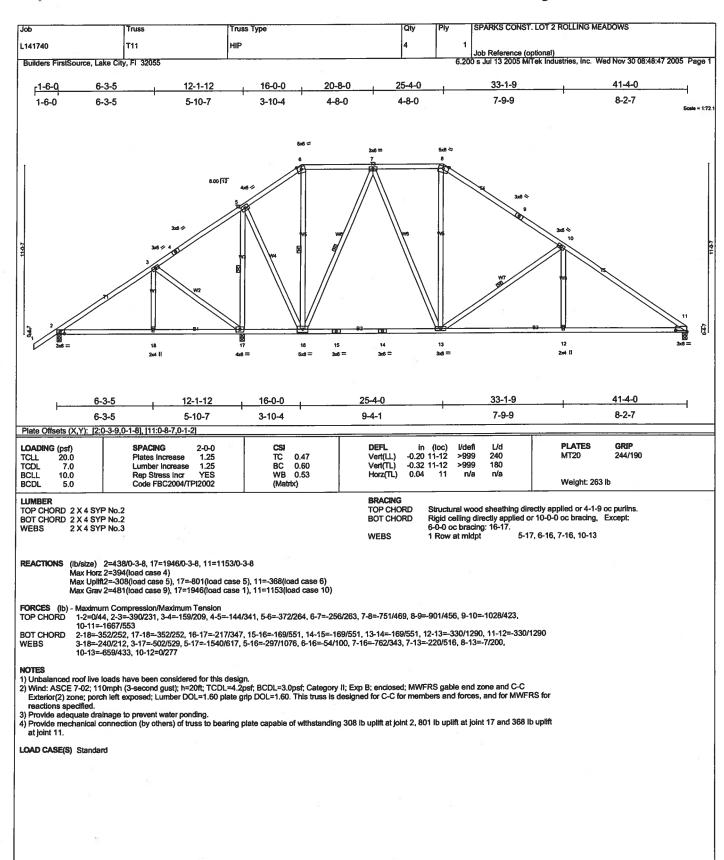
16-13-308/316, 17-10-308/316, 17-10-308/316, 15-17-308/210, 9-10-7308/210, 15-17-308/316, 17-12-526/316, 15-17-308/316, 17-12-353/623, 7-11-135/420, 8-11-433/305, 18-1134/440, 3-15-198/705, 5-14-337/608, 6-14-288/333, 6-12-380/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-113-488/316, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-11-433/305, 18-18-308/341, 7-12-353/623, 7-11-135/420, 8-18-308/341, 7-12-353/623, 7-11-135/420, 8-18-308/341, 7-12-353/623, 7-11-135/420, 8-18-308/341, 7-12-353/623, 8-18-308/341, 7-18-308 WERS

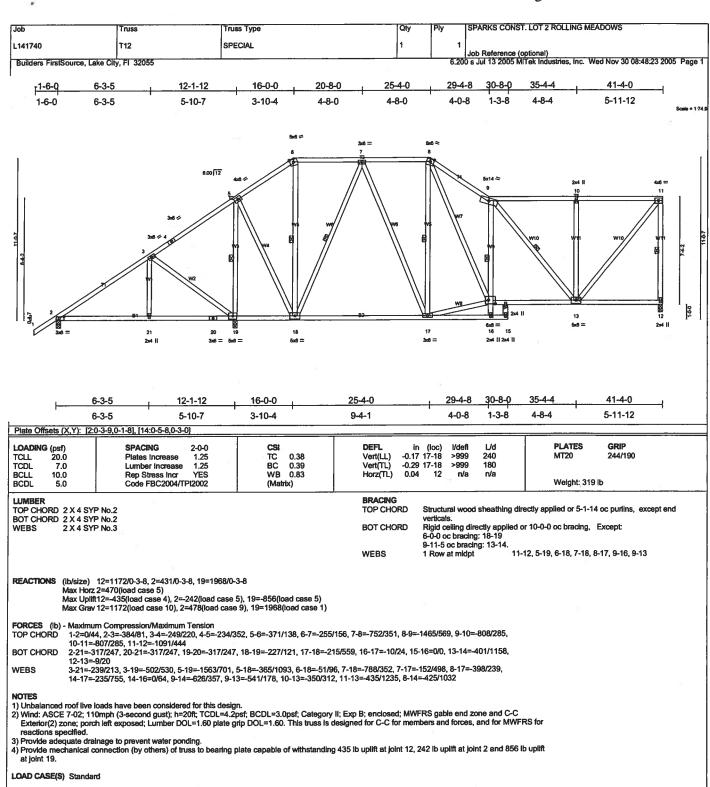
8-10=0/212, 2-18=-389/1492, 15-18=-677/1733, 5-15=-235/484

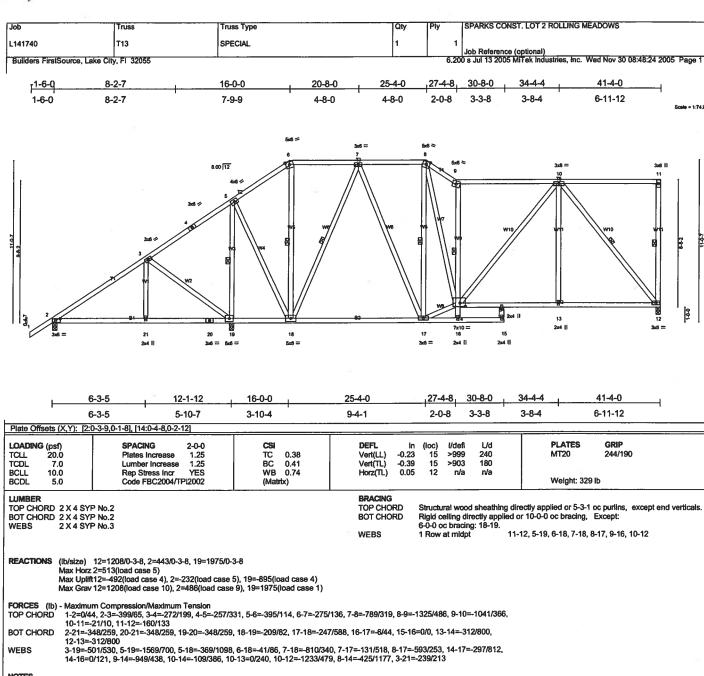
## NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grlp DOL=1.60. This truss is designed for C-C for members and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 487 lb uplift at joint 9 and 570 lb uplift at joint 19.







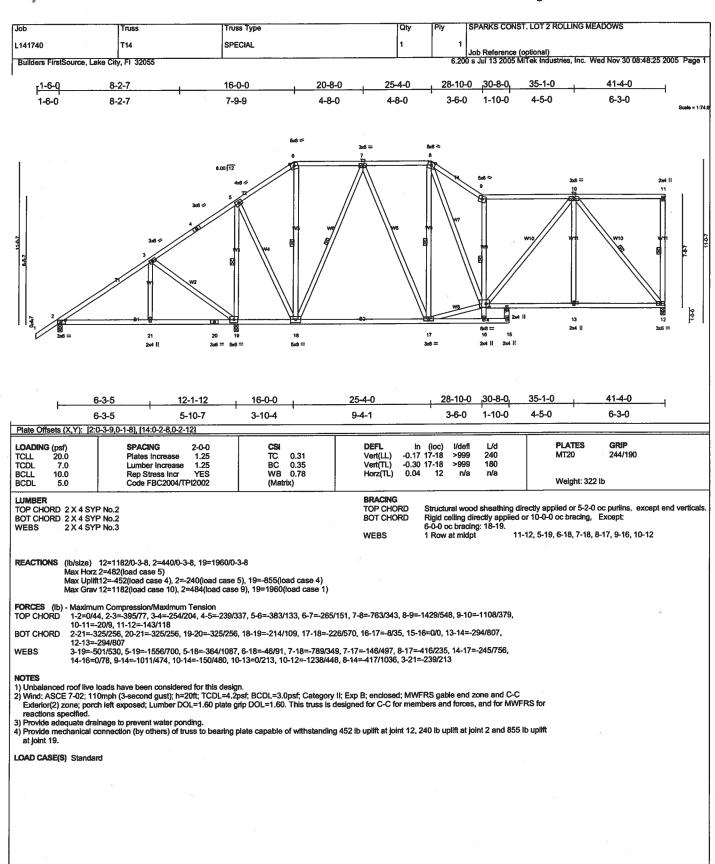
## NOTES

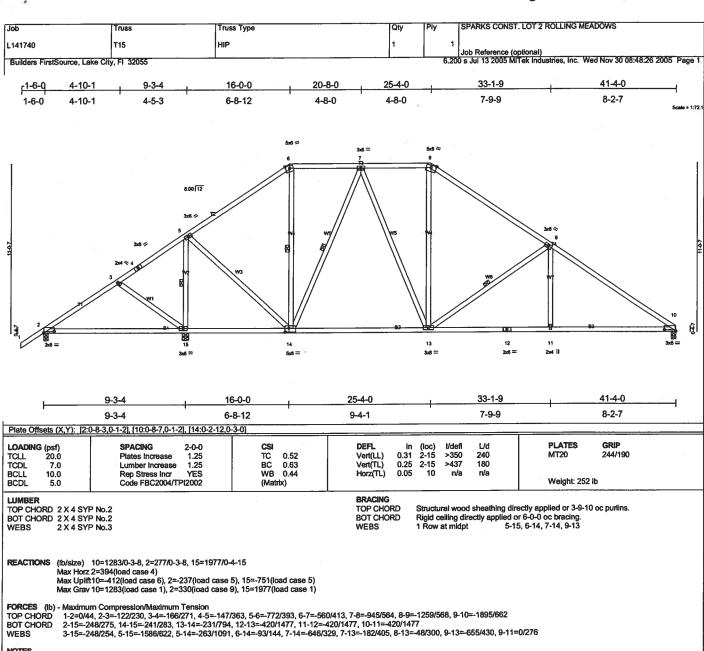
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for

reactions specified.

3) Provide adequate drainage to prevent water ponding.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 492 lb uplift at joint 12, 232 lb uplift at joint 2 and 895 lb uplift. at joint 19.



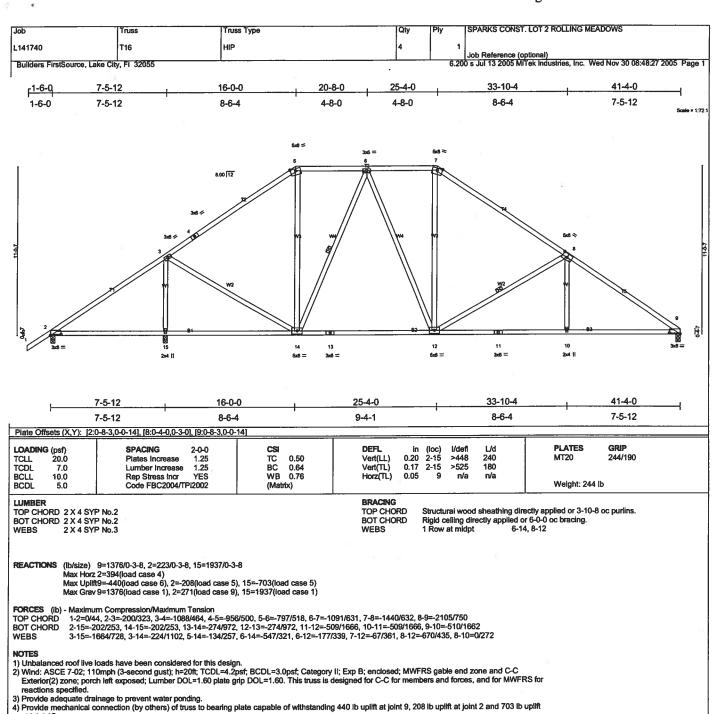


1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for

reactions specified.

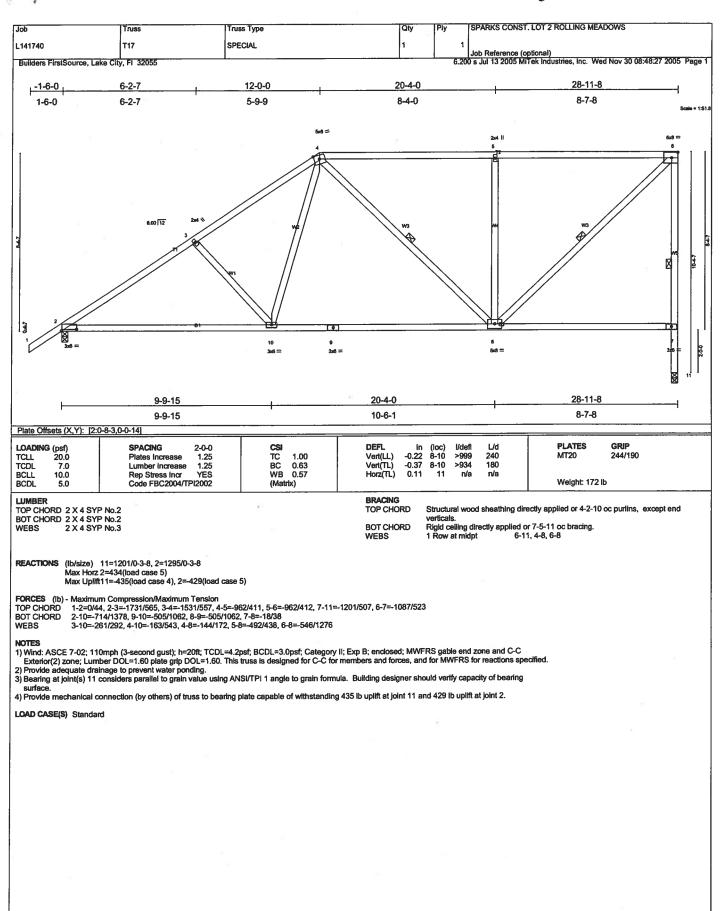
3) Provide adequate drainage to prevent water ponding.

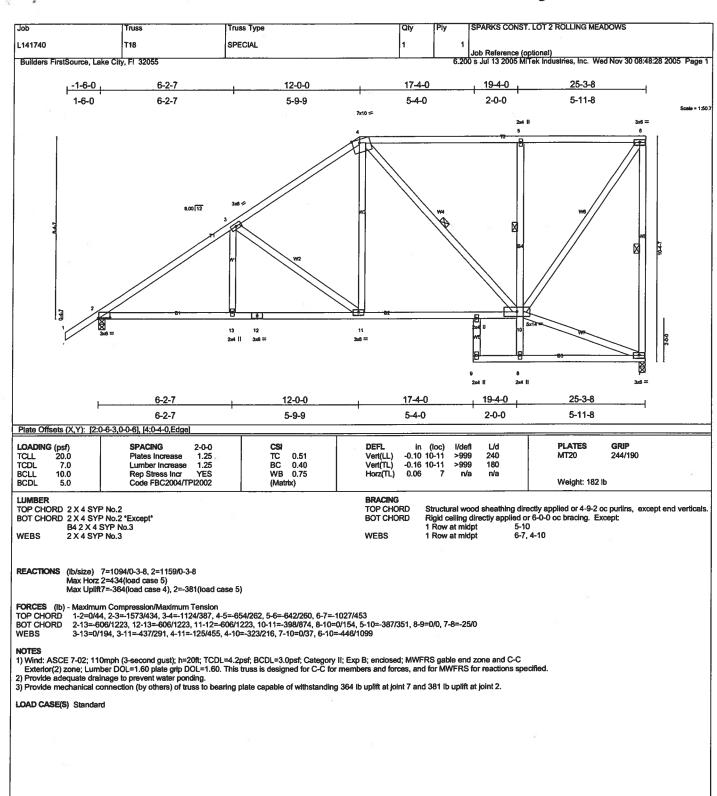
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 412 lb uplift at joint 10, 237 lb uplift at joint 2 and 751 lb uplift. at joint 15.

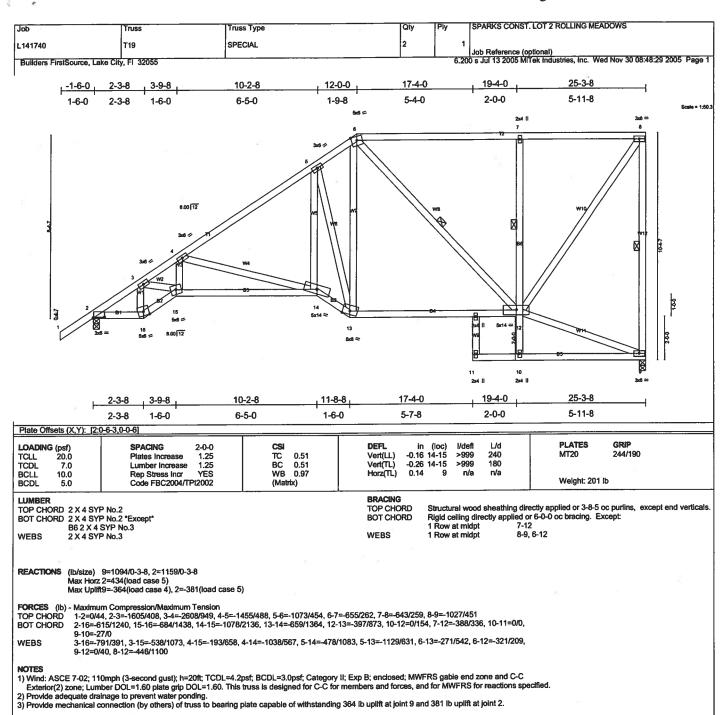


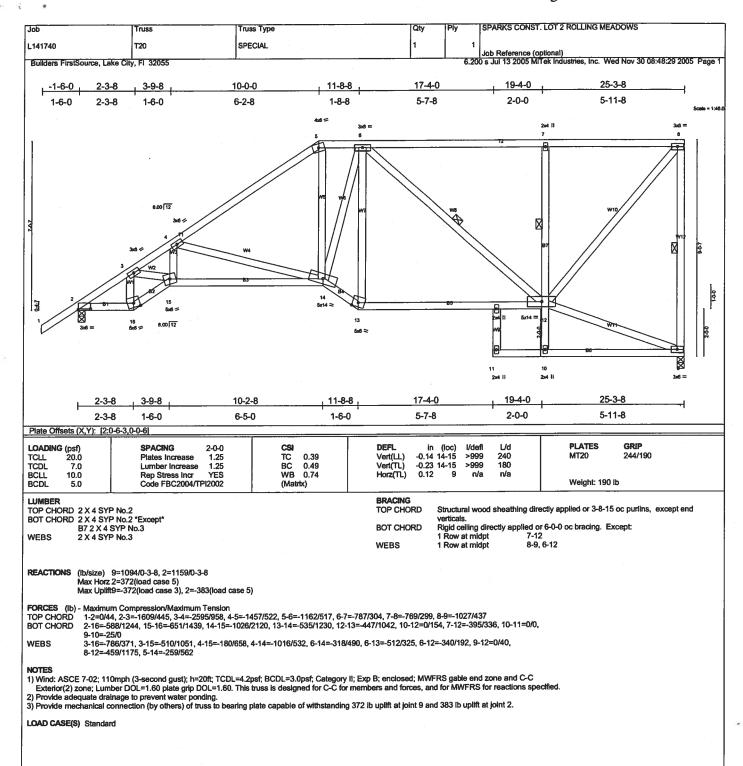
LOAD CASE(S) Standard

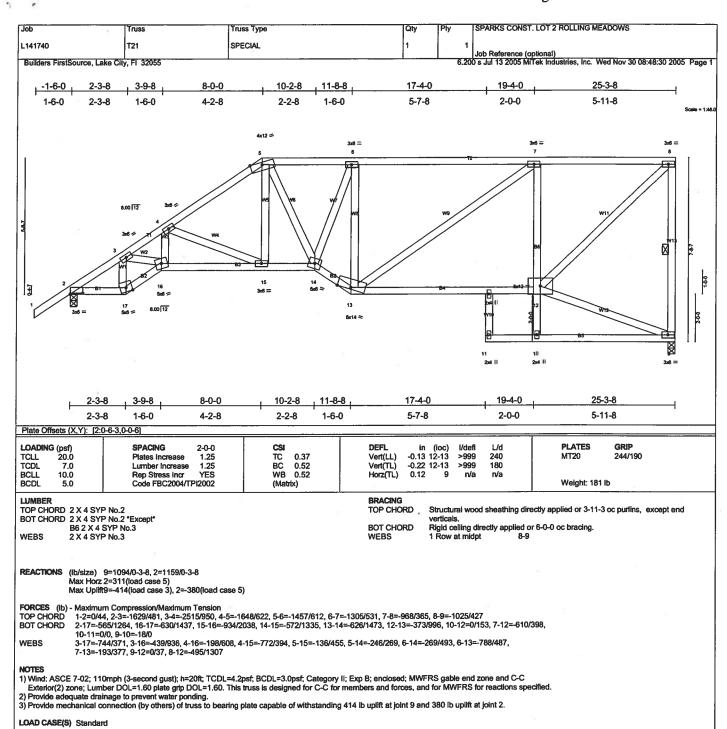
at joint 15.



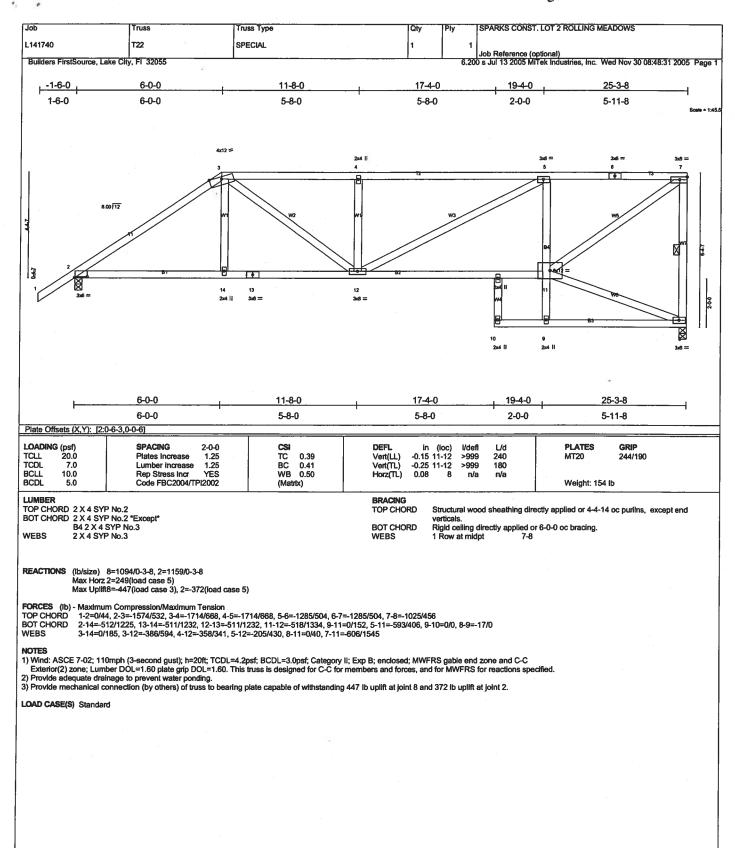


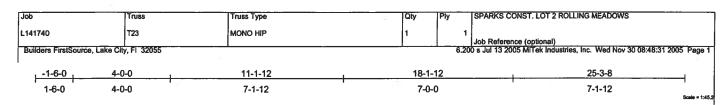


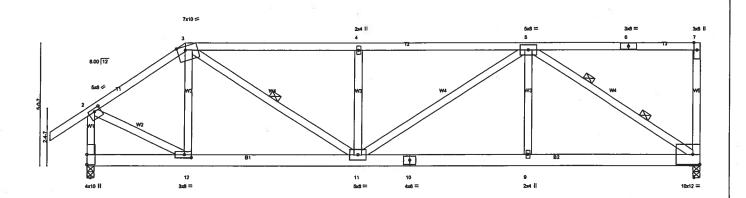




NOVEMBER 30, 2005 TRUSS DESIGN ENGINEER: THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987 STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196 16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549







	4-0-0	11-1-12	18-1-12	25-3-8
	4-0-0	7-1-12	7-0-0	7-1-12
Plate Offsets	(X Y): [2:0-3-0 0-1-8] [3:0-4-0 Edd	nel (12·0-3-8 0-1-8)		

Plate Olisets (A,	12:0-3-0,0-1-8], [3:0-4-0,Edge], [12:0-3-8,0-1	701	
LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) I/defl L/d PLATES GRIP
TCLL 20.0	Plates increase 1.25	TC 0.93	Vert(LL) 0.16 9-11 >999 240 MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.39	Vert(TL) -0.24 9-11 >999 180
BCLL 10.0	Rep Stress Incr NO	WB 0.82	Horz(TL) 0.05 8 n/a n/a
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Weight: 171 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 \*Except\*
W5 2 X 4 SYP No.2

BRACING

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 2-5-1 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

2 Rows at 1/3 pts

5-8

REACTIONS (lb/size) 8=2284/0-3-8, 13=2386/0-3-8 Max Horz 13=240(load case 4) Max Uplift8=-1413(load case 2), 13=-1191(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-2109/1138, 3-4=-3162/1916, 4-5=-3161/1917, 5-6=-122/102, 6-7=-122/102, 7-8=-390/419, 2-13=-2179/1110
BOT CHORD 12-13=-168/75, 11-12=-1007/1733, 10-11=-1607/2623, 9-10=-1607/2623, 8-9=-1607/2623
WEBS 3-12=-355/488, 3-11=-1139/1703, 4-11=-848/936, 5-11=-387/646, 5-9=0/464, 5-8=-3006/1808, 2-12=-1184/1972

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.

2) Provide adequate drainage to prevent water ponding.

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1413 ib uplift at joint 8 and 1191 ib uplift at joint 13.

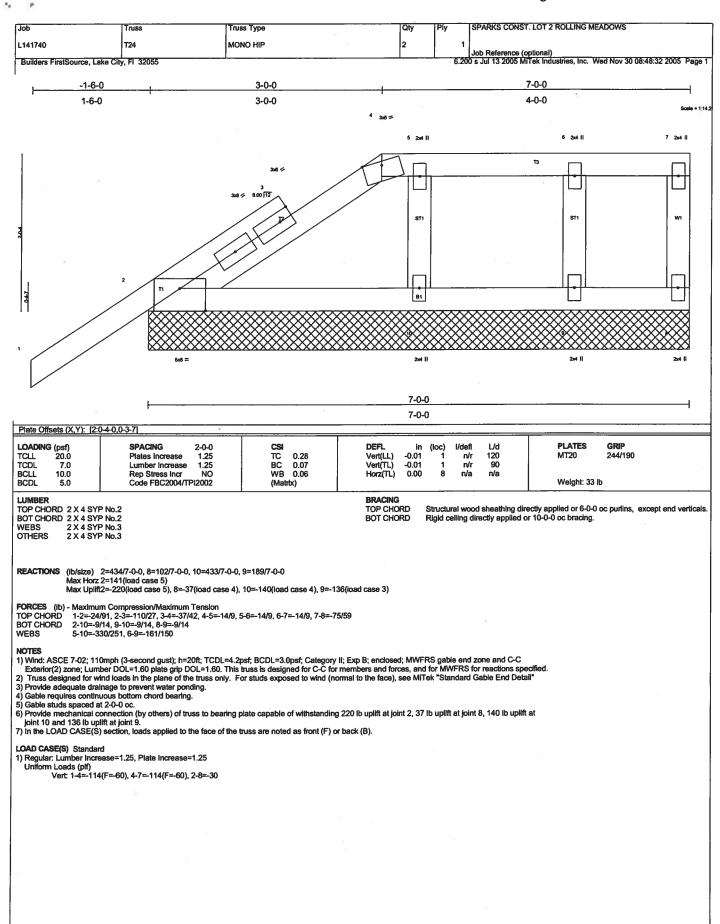
4) Girder carries tie-h span(s): 7-0-0 from 0-0-0 to 4-0-0

5) Girder carries hip end with 0-0-0 right side setback, 4-0-0 left side setback, and 7-0-0 end setback.

6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (pif) Vert: 1-2=-54, 2-3=-54, 3-7=-118(F=-64), 12-13=-129(F=-99), 8-12=-65(F=-35)



SPARKS CONST. LOT 2 ROLLING MEADOWS Truss Type Job Truss VALLEY 1 141740 V01 Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Nov 30 08:48:33 2005 Page Builders FirstSource, Lake City, FI 32055 11-2-0 11-2-0 Scale = 1:32.4 8.00 12 X 11-2-0 11-2-0 LOADING (psf) TCLL 20.0 CSI TC BC WB SPACING DEFL I/defl L/d **PLATES** GRIP 999 244/190 MT20 n/a Plates Increase 1.25 0.23 Vert(LL) n/a TCDL Vert(TL) n/a -0.00 n/a 999 Lumber Increase Rep Stress Incr NO Code FBC2004/TPI2002 0.13 BCLL 10.0 Horz(TL) n/a n/a Weight: 70 lb 5.0 LUMBER BRACING Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

6-7 TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 WEBS 2 X 4 SYP No.3 TOP CHORD BOT CHORD WEBS OTHERS 2 X 4 SYP No.3 REACTIONS (lb/size) 1=207/11-2-0, 7=50/11-2-0, 11=516/11-2-0, 10=196/11-2-0, 9=322/11-2-0, 8=225/11-2-0 Max Horz 1=324(load case 5) Max Uplift?=-31(load case 5), 11=-268(load case 5), 10=-103(load case 5), 9=-168(load case 5), 8=-110(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-341/118, 2-3=-215/38, 3-4=-160/69, 4-5=-77/56, 5-6=-43/21, 6-7=-39/29 1-11=-1/1, 10-11=-1/1, 9-10=-1/1, 8-9=-1/1, 7-8=-1/1 2-11=-373/257, 3-10=-172/127, 4-9=-251/178, 5-8=-179/126

TOP CHORD BOT CHORD

WEBS

NOTES

NOTES

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

2) All plates are 2x4 MT20 unless otherwise indicated.

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 7, 268 lb uplift at joint 11, 103 lb uplift at joint 10, 168 lb uplift at joint 4 joint 10, 168 lb uplift at joint 5, and 110 lb uplift at joint 8.

4) Non Standard bearing condition. Review required.

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

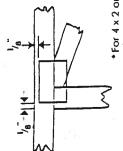
1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (pif) Vert: 1-6=-114(F=-60), 1-7=-30

## Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

## PLATE SIZE

4 × 4

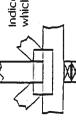
The first dimension is the width perpendicular to stots. Second dimension is the length parallet to stots.

## LATERAL BRACING



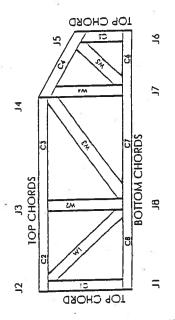
Indicates location of required continuous lateral bracing.

## BEARING



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

## **Numbering System**



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

WEBS ARE NUMBERED FROM LEFT TO RIGHT

## CONNECTOR PLATE CODE APPROVALS

BOCA 96-31, 96-67

ICBO 3907, 4922 SBCCI 9667, 9432A WISC/DILLIR 960022-W. 970036-N

NER

561



TEB-LOK

MiTek Engineering Reference Sheet: MII-7473

## General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Provide copies of this truss design to the building designer, erection supervisor, properly owner and all other interested parties.
- 2. Cut members to bear lightly against each other.
- Place plates on each face of Iruss at each joint and embed fully. Avoid knots and wane at joint locations.
- 4. Unless otherwise noted, locate chard splices at  $\frac{1}{4}$  panel length  $\frac{1}{4}$  &" from adjacent joint.)
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at line of fabrication.
- Unless expressly noted, this design is not applicable for use with tire relardant or preservative treated tumber.
- Camber is a non-structural consideration and is the responsibility of truss tabicator. General practice is to camber to dead load deflection.
- 8. Plate type, size and location dimensions shown indicate minimum plating requirements.
- tumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
- 10. Top chords must be sheathed or putlins provided at spacing shown on design.
- 1. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Anchorage and / or load transferting connections to trusses are the responsibility of others unless shown.
- Do not overload roof or floor trusses with stacks of construction materials.
- 14. Do not cut or atter truss member or plate without prior approval of a professional engineer.
- 15. Care should be exercised in handling. erection and installation of Irusses.
- © 1993 MiTek® Holdings, Inc.

## HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL

PHONE (388) 752-1884 FAX (388) 758-7022 904 NW MAIN BLVD. LAKE CITY, FLORIDA 32044

July 12, 2005

NOTICE TO BUILDING DEPT

For Lot 2 Rolling Meadows

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

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

Thank you

Donald D. Hall

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DDH/rb

Lat & Wedlows

## COLUMBIA COUNTY BUILDING DEPARTMENT

## RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001

ONE (1) AND TWO (2) FAMILY DWELLINGS
ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

- 1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH
- 3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

## APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Applicant  Plans Examiner  All drawings must be clear, concise and drawn to scale ("Optide details that are not used shall be marked void or crossed off). Sincotage of different areas shall be shown on plans.  Designers name and signature on document (FBC 164.2.1). If architect or engineer, official seal shall be affixed.  Site Plan including:  a) Dimensions of lot  b) Dimensions of building set backs  c) Location of all other buildings on lot, well and septic tank applicable, and all utility easements.  d) Provide a full legal description of property.  Wind-lead Engineering Susmany, calculations and any detail plans or specifications must state compliance with FBC Scale and importance factor (I) and building category c. Wind exposure—if more than one wind exposure exposure and applicable wind direction shall be in d. The applicable internal pressure coefficient  c. Components and Cladding. The design wind pressure fulfilms of charling materials not specifally designed by the professional  Elevations including:  a) All sides  b) Roof pitch  c) Overhang dimensions and detail with attic ventilation  d) Location, size and height above roof of chimneys  e) Location and size of skylights  1) Building height	ıg:
Designers name and signature on document (FBC 104.2.1). If architect or engineer, official seal shall be affixed.  Site Plan including:  a) Dimensions of lot  b) Dimensions of building set backs  c) Location of all other buildings on lot, well and septic tank applicable, and all utility easements.  d) Provide a full legal description of property.  Wind-load Engineering Summary, enleuhtions and any det  a) Plans or specifications must state compliance with FBC Se  b) The following information must be shown as per section I  a. Basic wind speed (MPH)  b. Wind importance factor (I) and building category  c. Wind exposure – if more than one wind exposure exposure and applicable wind direction shall be in  d. The applicable internal pressure coefficient  e. Components and Cladding. The design wind press  psf (kN/m²), to be used for the design of exterior of cladding materials not specifially designed by the internal pressure coefficient	otional " ). Square
Site Flan including:  a) Dimensions of lot  b) Dimensions of building set backs  c) Location of all other buildings on lot, well and septic tank applicable, and all utility easements.  d) Provide a full legal description of property.  Wind-lead Engineering Summery, enleulations and any det  a) Plans or specifications must state compliance with FBC Sc  b) The following information must be shown as per section I  a. Basic wind speed (MPH)  b. Wind importance factor (I) and building category  c. Wind exposure – if more than one wind exposure exposure and applicable wind direction shall be in  d. The applicable internal pressure coefficient  e. Components and Cladding. The design wind pressure psf (kN/m²), to be used for the design of exterior of cladding materials not specifally designed by the internal professional	If licensed
d) Provide a full legal description of property.  Wind-lead Engineering Summary, calculations and any det  a) Plans or specifications must state compliance with FBC So  b) The following information must be shown as per section I  a. Basic wind speed (MPH)  b. Wind importance factor (I) and building category  c. Wind exposure — if more than one wind exposure  exposure and applicable wind direction shall be in  d. The applicable internal pressure coefficient  e. Components and Cladding. The design wind press  psf (kN/m²), to be used for the design of exterior of cladding materials not specifally designed by the internal professional.	nk if
b) The following information must be shown as per section I a. Basic wind speed (MPH)  b. Wind importance factor (I) and building category c. Wind exposure – if more than one wind exposure exposure and applicable wind direction shall be in d. The applicable internal pressure coefficient  c. Components and Cladding. The design wind presspective in the design of exterior of cladding materials not specifally designed by the internal professional.	letalls required
d. The applicable internal pressure coefficient  e. Components and Cladding. The design wind pressure (kN/m²), to be used for the design of exterior of cladding materials not specifally designed by the professional	Section 1606 1606.1.7 FBC
Elevations including:  a) All sides  b) Roof pitch  c) Overhang dimensions and detail with attic ventilation  d) Location, size and height above roof of chimneys	essure in terms of
a) All sides b) Roof pitch c) Overhang dimensions and detail with attic ventilation d) Location, size and height above roof of chimneys	
b) Roof pitch c) Overhang dimensions and detail with attic ventilation d) Location, size and height above roof of chimneys	1 558
d) Location, size and height above roof of chimneys	
a) Location, size and height above roof of chimneys	
e) Location and size of skylights f) Building height e) Number of stories	

n/.	0	Floor Plan including: a) Rooms labeled and dimensioned
a		b) Shear walls
ď	0	c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed
, A	TO TA	(egress windows in bedrooms to be shown)
0 V		d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
□ \V		e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
G,	0	f) Must show and identify accessibility requirements (accesssable bathroom)  Foundation Plan including:
2	0	a) Location of all load-bearing wall with required footings indicated as standar Or monolithic and dimensions and reinforcing
1	0	b) All posts and/or column footing including size and reinforcing
a a	o .	c) Any special support required by soil analysis such as piling
	D	d) Location of any vertical steel  Roof System:
<b>D</b>		a) Truss package including:
		<ol> <li>Truss layout and truss details signed and scaled by Fl. Pro. Eng.</li> <li>Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)</li> </ol>
0	0	b) Conventional Framing Layout including:
		1. Rafter size, species and spacing
		2. Attachment to wall and uplift
		3. Ridge beam sized and valley framing and support details
		<ol> <li>Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)</li> </ol>
		Wall Sections including:
0		a) Masonry wall
		1. All materials making up wall
8, 8, 8		2. Block size and mortar type with size and spacing of reinforcement
		J. Linus, 110-Deam Sizes and reinforcement
		4. Gable ends with rake beams showing reinforcement or gable truss
		and wan pracing details
100		5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
		6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements
		and product evaluation with resistance rating)
		7. Fire resistant construction (if required)
		8. Fireproofing requirements
		9. Shoe type of termite treatment (termiticide or alternative method)
		10. State on grade
		a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
		b. Must show control joints, synthetic fiber reinforcement or
		weiged life ladric reinforcement and supports
		11. Indicate where pressure treated wood will be placed
		12. Provide insulation R value for the following:  a. Attic space
		b. Exterior wall cavity
		c. Crawl space (if applicable)
		show (w chhuenta)

All Andread State Inch		
,		
		b) Wood frame wall
B		1. All materials making up wall
		2. Size and species of studs
		3. Sheathing size, type and nailing schedule
		4. Headers sized
		5. Gable end showing balloon framing detail or gable truss and wall
	$\Gamma$	hinge bracing detail  6. All required fasteners for continuous tie from roof to foundation
		(truss anchors, straps, anchor bolts and washers)
		7. Roof assembly shown here or on roof system detail (FBC104.2.1
et a		Roofing system, materials, manufacturer, fastening requirements
		and product evaluation with wind resistance rating)
		8. Fire resistant construction (if applicable)
		9. Fireproofing requirements
		10. Show type of termite treatment (termiticide or alternative method)
		11. Slab on grade a. Vapor retarder (6Mil. Polyethylene with joints lapped 6
		inches and scaled
		b. Must show control joints, synthetic fiber reinforcement or
		welded wire fabric reinforcement and supports
		12. Indicate where pressure treated wood will be placed
		13. Provide insulation R value for the following:
		a. Attic space b. Exterior wall cavity
		c. Crawl space (if applicable)
0		c) Metal frame wall and roof (designed, signed and sealed by Florida Prof.
		Engineer or Architect)
		Floor Framing System:
<b>1</b>	. D vie - '	a) Floor truss package including layout and details, signed and sealed by Florida
1		Registered Professional Engineer
10 p	0	b) Floor joist size and spacing
4/1		c) Girder size and spacing
6	0	d) Attachment of joist to girder e) Wind load requirements where applicable
		Plumbing Fixture layout
		Electrical layout including:
10/	<b>D</b>	s) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
0/	ים י	b) Ceiling fans
13		c) Smoke detectors
10/	0	d) Service panel and sub-panel size and location(s)
<b>B</b> /	0	e) Meter location with type of service entrance (overhead or underground)
<b>A</b>	0	f) Appliances and HVAC equipment
p( )	0	HYAC information  a) Manual J sizing equipment or equivalent computation
N.	0	b) Exhaust fans in bathroom
विषय विषये विषय	D	Energy Calculations (dimensions shall match plans)
0	0	Gas System Type (LP or Natural) Location and BTU demand of equipment
		Disclosure Statement for Owner Builders
		Notice Of Commencement
		Private Potable Water
	og å	a) Size of pump motor
		b) Size of pressure tank
		c) Cycle stop valve if used

## OMB Approval No. 2502-0525

## **New Construction Subterranean Termite Soil Treatment Record**

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

24113 All contracts for services are between the Pest Control Operator and builder, unless stated otherwise. Section 1: General Information (Treating Company Information) Company Name: Aspen Post Control, Inc. Company Address: 301 MW Cole Terraco City Lake City State Company Phone No. \_ Company Business License No. \_\_\_\_\_\_\_\_ FHA/VA Case No. (if any) \_ Section 2: Builder Information Section 3: Property Information Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) Type of Construction (More than one box may be checked) Slab ☐ Crawl Basement Other Type of Fill . Approximate Depth of Footing: Outside \_\_\_\_ Inside Section 4: Treatment Information Date(s) of Treatment(s)\_ Brand Name of Product(s) Used EPA Registration No. Approximate Final Mix Solution % \_\_\_\_ Approximate Size of Treatment Area: Sq. ft. \_\_\_\_\_ Linear ft. of Masonry Voids \_\_\_\_\_ Approximate Total Gallons of Solution Applied Was treatment completed on exterior? Yes □ No ✓ Yes ☐ No Service Agreement Available? Note: Some state laws require service agreements to be issued. This form does not preempt state law. Attachments (List) \_ Comments \_\_\_\_\_ Certification No. (if required by State law) \_ Name of Applicator(s)\_ The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

Authorized Signature

Date \_

## BAILEY BISHOP & LANE, INC.

Engineers

Surveyors

**Planners** 

July 21, 2006

Mr. Anthony & Jessica Smith 145 SW Morning Glory Drive Lake City, FL 32024

**RE: Finish Flood Elevation Letter** 

Dear Mr. Smith:

We have performed a vertical survey on the structure located on Lot 2, Rolling Meadows, Columbia County, Florida and have determined the following:

- That subdivision plat requires that the minimum finish floor elevation be 101.00'.
- That the field located finish floor elevation is 106.3', being 5.3' above the required elevation.

Should you have any questions, please do not hesitate to give me a call.

Sincerely,

Brian Scott Daniel, PSM Director of Surveying

BAILEY, BISHOP & LANE, INC.



## DGGUPANGY

## **COLUMBIA COUNTY, FLORIDA**

# Department of Building and Zoning Inspection This Certificate of Occupancy is issued to the below named permit holder for the building

accordance with the Columbia County Building Code and premises at the below named location, and certifies that the work has been completed in

Parcel Number 15-4S-16-03023-502

Building permit No. 000024113

Fire: 17.76

Use Classification SF/UTILITY

**Permit Holder JOSH SPARKS** 

Owner of Building SPARKS CONTRACTORS, INC

Waste: 36.75

Total: 54.51

54.51

4 GBuilding Inspector

Location: 145 SW MORNING GLORY DR(ROLLING MEADOWS,LOT 2)

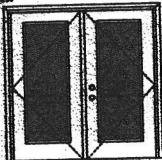
Date: 07/21/2006

POST IN A CONSPICUOUS PLACE (Business Places Only)

XX Glazed Outswing Unit

## WOOD-EDGE STEEL DOORS

## APPROVED ARRANGE



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

Double Door

Hurricane protective system (shutters) is REQUIRED.

## MIN ASSEMBLY DETAIL:

Compliance requires that minimum essembly details have been followed - see MAD-WI-MA0012-02 and MAD-WI-MA0041-02.

## ETALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MADGO2-02.

## APPROVED DOOR STYLES: 14 SLASS:











## 1/2 GLASS:

















"Ride glass lift way also be used in the following door object: 5-panel; 6-panel with excell; Synthetic 6-panel; Electrica 6-panel; with excell





## WOOD-EDGE STEEL DOORS

APPROVED BOOK STYLER:













The state of the s





CERTIFIED TEST REPORTS:

MCTL 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 Humber: Barry D. Portsey, P.E. / 16258.

Unit Tested in Accordance with Mismi-Dade BCCO PA202.

Evaluation report MCYL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel ekins. Both stiles constructed from wood. Top end calls constructed of 0.041" steel. Bottom end raits constructed of 0.021" steel, interior cavity of elab filled with rigid polyurations from 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:

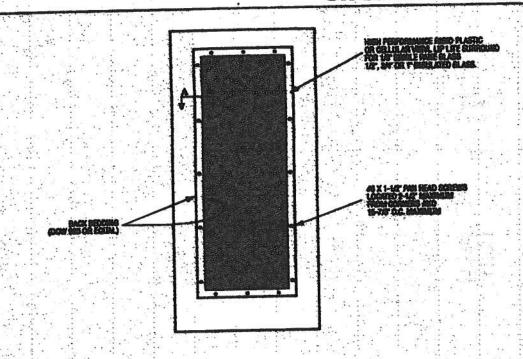
TESTED IN ACCORDANCE WITH AMI-DADE BCCO PAZOZ

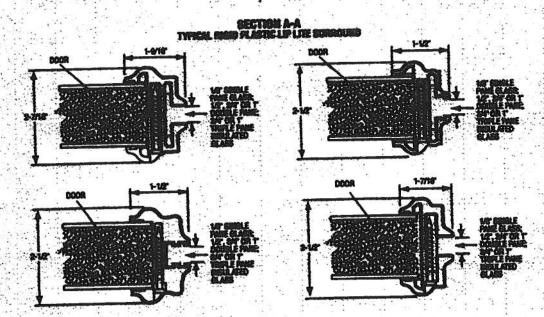
COMPANY STATE

State of Rorida, Professional Engineer Kurt Balthezor, P.E. – License Number 66533



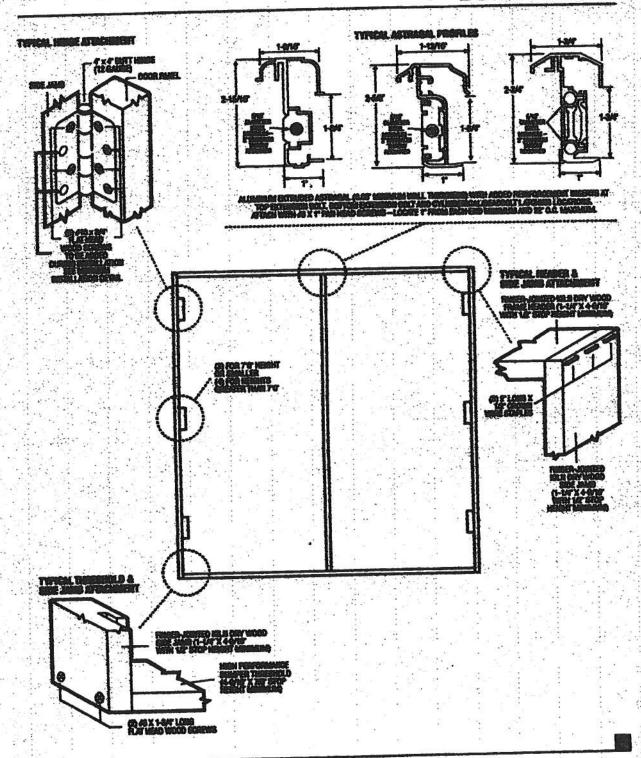
## GLASS INSERT IN DOOR OR SIDELITE PANEL







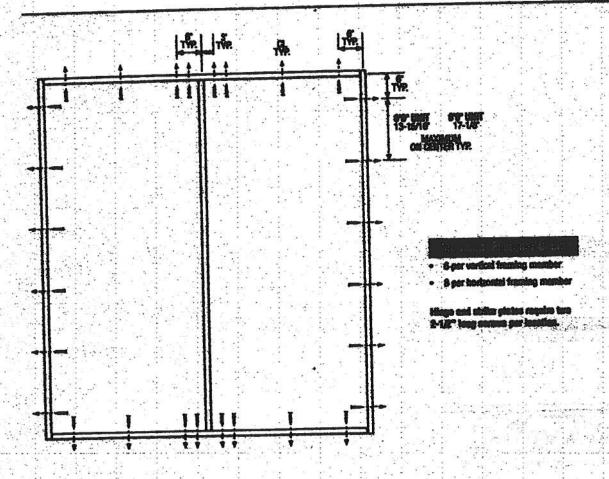
## OUTSWING UNITS WITH DOUBLE DOOR



densis SS, SSSS har publishing program of product buyons and a state operations



## DOUBLE DOOR



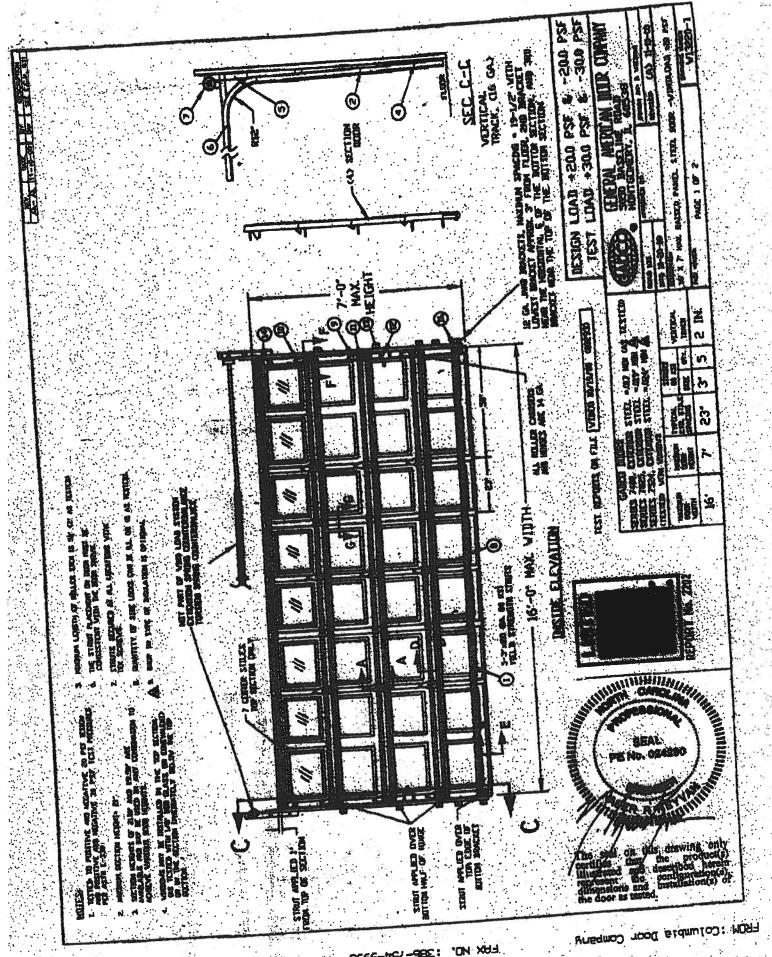
## Latching Hardware:

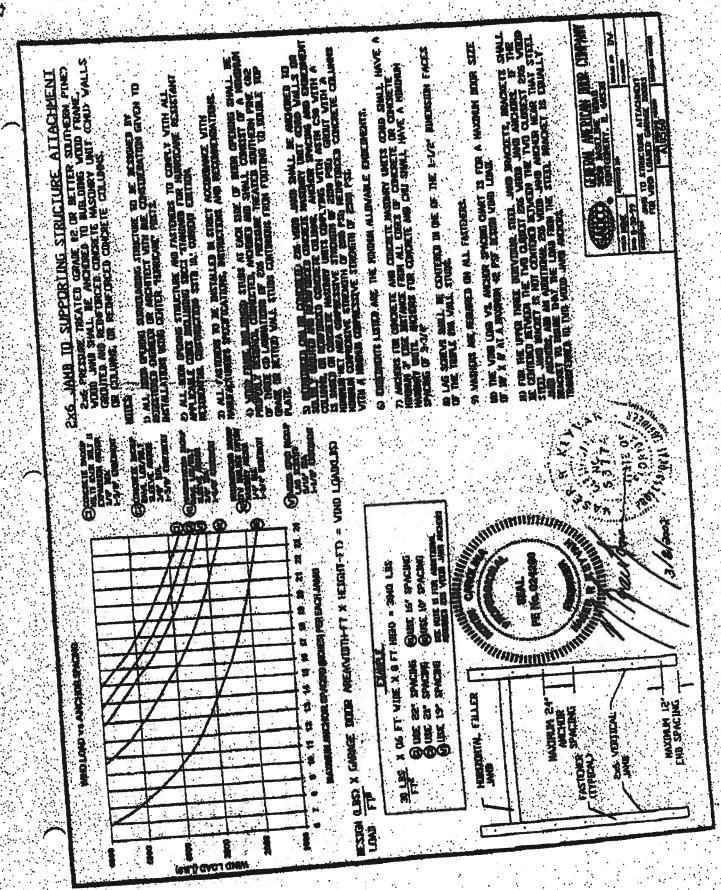
Compliance requires that GRADE 2 or better (ANSI/BHMA A168.2) cylinderical and dandlock hardware be installed.

- 1. Anchor calculations have been carried out with the lowest (least) featurer rating from the different featurers being considered for use. Fasturers analysed for this will include 46 and #10 wood screws or 3/16" Topcons.
- 2. The wood screw dingle sheer design values come from Table 11.3A of ANSI/AF & PA NDS for coultiers pine humber with a side member inickness of 1-1AF and achievement of minimum embedment. The 3/16F Tapcon single sheer 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.

Masonite PREMIOREMA Masonite International Corporation

Jun. 28 2004 07:37AM P1

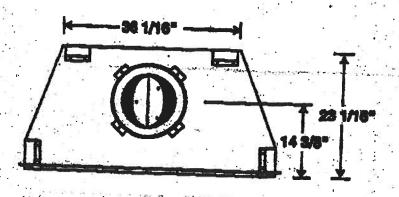


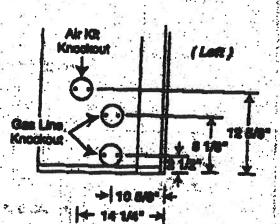


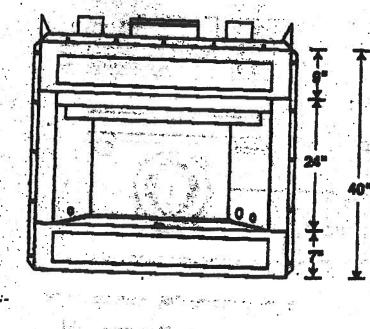
# Craftsman

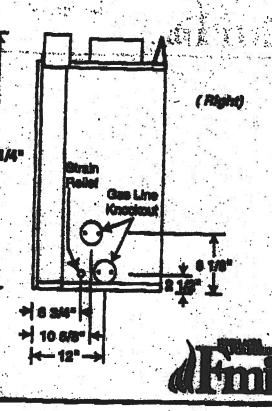
42" Woodburning Fireplace

Vent Pipe Size	10"
Min. Pipe Clearance	10
Min. System Height	14'6"
- w/ Single Offset	14' 6"
- w/ Two Offense	22.0
Max, Dist. Between Elbowa	6,0,
Max. System Height	80'0"











FEB - 4 PETO

January 31, 2002

## TO: OUR FLORIDA CUSTOMERS:

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

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

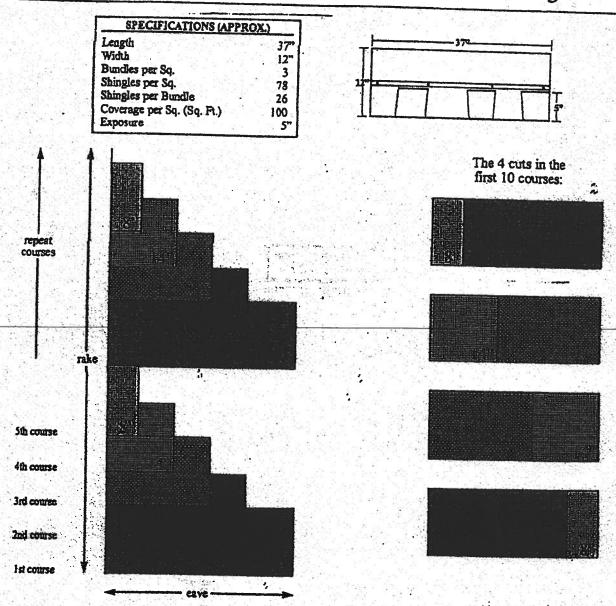
All testing was performed by Florida State certified independent labs.

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

TAMKO Roofing Products, Inc.



# Application Instructions For Heritage® 25 Series Shingles



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

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

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

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



## Application Instructions for

# Glass-Seal · Elite Glass-Seal® AR · Elite Glass-Seal® AR

## Three-tab asphalt shingles

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOF-ING 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.

These shingles are for application to roof dacks 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 RODE 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 Physical Association. Plywood shall be a trinimum of 3/8 in. thickness and applied in accompance with the recommendations of the American Physical Association.

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

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

- 1. Vapor Condensation
- 2. Buckling of shingles due to deck movement.
- 3. Rolling 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

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 bander 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 VEH-TILATION.

## 3. 7ASTEMINE

MARS: TAMKO recommends the use of neils as the preferred method of application.

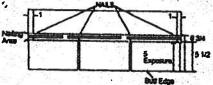
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

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

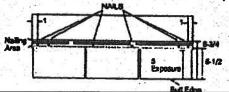
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or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

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nall into the sealant, TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

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



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



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

(Continued)

Visit Our Web Site at www.tamko.com Central District Northeast District Southeast District Southwest District Western District

220 West 4th St., Joplin, MO 64801 4500 Tamko Dr., Frederick, MD 21701 2300 35th St., Tuscaloosa, AL 35401 7910 S. Central Exp., Dallas, TX 75216 5300 East 43rd Ave., Denver, CO 80218 800-641-4691 800-368-2055 800-228-2656 800-443-1834

800-530-8858

07/01



(CONTINUED from Pg. 2)

## Glass-Seal Glass-Seal AR

# · Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

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

## S. BE-ROAFING

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

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

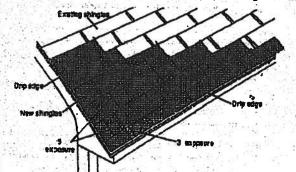
If re-roofing over an existing roof where new flashing is required to protect against ice dams (treeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus! waterproofing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

The resting procedure described below is the preferred method for rerooting over square lab strip shingles with a 5 in. exposure.

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-seeling adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the guiter. Remove 3 in, from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

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

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



12 ...

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

## 9. Valley application

Over the shingle underlayment, center a 36 in, wide sheet of TAMKO -Nail-Fast<sup>a</sup> or a minimum 50 ib; rothroofing in the valley. Nail the fast only where necessary to hold it in place and then only nail the outside edges.

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

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

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

- Extend the end shingle at least 12 in, onto the adjoining roof, Apply succeeding courses in the same mainter, extending them across the valley and onto the adjoining roof.
- Oo not trim if the shingle length exceeds 12 in. Lengths should vary.

  Press the shingles tightly into the valley.
- · Use normal shingle fastening methods.

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

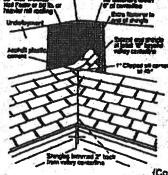
To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in, back from the canterline of the valley.

Note: For a neater installation, snap a challdine over the shingles for guidance.

- Clip the upper comer of each shingle at a 48-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cament. This will prevent water from penetrating between the courses by directing it into
- CAUTION:
   Adhesive must be applied in amouth, thin, even layers.

Excassive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for bilatering.



(Continued)

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220 West 4th St., Joplin, MO 64801 4500 Tamko Dr., Frederick, MD 21701 2300 35th St., Tuscaloosa, AL 35401 7910 S. Central Exp., Dallas, TX 75216 5300 East 43r0 Ave., Denver, CO 80216 800-841-4691 800-368-2055 800-228-2858 800-443-1834 800-530-8888

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(CONTINUED from Pg. 3)

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

Three-tab asphalt shineles

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

## IO. HIP AND RIDGE PASTEMING BETAIL

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material and first transfer in the

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 preveiting winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and f in, up from the edge. On not nail directly into the seatant.

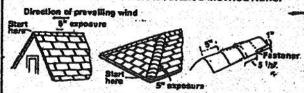
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in, pieces.

MOTE: AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shinoles.

Fasteners should be 1/4 in. longer than the one used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHITEBENDING SHINGLES IN COOL WEATHER.

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUC-TIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAIL-URE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.



THIS PRODUCT IS COVERED BY A LIMITED WARRANTY. THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

## IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and You," refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

Visit Our Web Site at www.tamko.com

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800-530-8868

07/01

4



## AAMA/NWWDA 101/LS.2-97 TEST REPORT SUMMARY

## Rendered to:

## MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin TYPE: Aluminum Single Hung Window

Title of Yest	Results
Rating	H-R40 52 x /2
Overall Design Pressure	+45.0 psr -47.2 psr
Operating Force Air institution	11.lb max. 0.13 cm/ft*
Water Resistance	6.00 per
Structural Test Pressure	+67.5 pef -70.8 pef
Deglazing	Passed
Porced Entry Resistance	Grade 10

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

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technicism

MAHnib



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

## Rendered to

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

Report No: 01-41134.01

Test Date: 03/07/02

Report Date: 03/26/02

Expiration Date: 03/07/06

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

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

## Test Specimen Description:

Series/Model: 650 Pin

Type: Aluminum Single Rung Window

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

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

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

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

Fluish: All aluminum was white.

Glasting Details: The active and fixed lites utilized 5/8" thick, scaled insulating please constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced buyl spacer system. The active such was charmel glazed utilizing a flexible vinyl wrap-stronge gasket. The fixed lite was interior glazed against double-sided adhesive from playing 10, 1732.

130 Derry Court York, PA 17402-9405 phone; 717.764.7700 fest: 717.764.4129 www.archtest.com

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01-41134.01 Page 2 of 5

## Test Specimen Description: (Continued)

## Weatherstripping:

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0.230" high by 0.270" 1 Row Fixed meeting mil	
backed polypile with	
center fin	
0.250" high by 0.187" 2 Rows Active mash stiles	
backed polypile with	
center fin	
1/2" x 1/2" dust plug 4 Pieces Active sash, top and bottom	m në
dile	
1/4" form-filled 1 Row Active such bettern sett	elvel djolik Olikivadisi
1/4" foam-filled 1 Row Active sash, bottom rail vinyi bulb seal	

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

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

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

## Hardware:

Description Quantity	<b>Locality</b>
Metal dam lock with keeper	Midspen, active meeting rail with kneper edjecent on fixed meeting rail
Plantic tilt latch 2	Active sesh, meeting rail ends
Motal tilt pin 2	분위, 이리스터는 교육 소설이 하는 이번 그렇게 하는 이번 사람이 되는 것으로 하셨다.
Balance assembly 2	One in each jamb
Screen plunger 2	4" from rail ends on top rail 40. 1998
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	aun Rus Com



Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a  $2 \times 8$  #2 Spruce-Pine-Pin wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polymethane was used as a scalant under the nail fin and around the exterior purimeter.

## Test Results:

The results are tabulated as follows:

				44		1000	30 30 30	+ 1					
1	Parago			of Test-									
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					A T. A. LANCE MAN		Parcella Some Co.	A				4 4 4	

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

300 500 Water Resistance (ASTM B 547-00) (with and without somen) WTP = 2.86 psf No leakage No leakage 2.1.4.1 Uniform Load Deflection (ASTM B 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) @ 25.9 par (positive) 0.42\*\* 0.26" max. @ 34.7 psf (negative) 0.43\*\* 0.26" max

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

2.1,4,2 Uniform Load Structural (ASTM B 330-97)
(Measurements reported were taken on the meeting rail)
(Loads were held for 10 seconds)

@ 38,9 psf (positive)

@ 52.1 psf (negative)

0.02\*
0.18\* max.

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## Test Specimes Description: (Continued)

Pagestoch	Title of Test - Test Method	Results	Allowed					
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs							
	Meeting rail Bottom rail	0.12*/25% 0.12*/25%	0.50°/100% 0.50°/100%					
	In remaining direction at 50 lbs							
	Left stile Right stile	0.06"/12% 0.06"/12%	0.50°/100% 0.50°/100%					
	Forced Butry Resistance (ASTM F 588-97)							
	Type: A. Grade: 10							
	Lock Manipulation Test	No entry	No entry					
ripi e s	Tests A1 through A5 Test A7	No entry No entry	No entry No entry					
9467 <b>1</b>	Look Manipulation Test	No entry	No entry					
Cottonal Per	(transista <u>s</u>							
43	Water Resistance (ASTM E 54 (with and without screen)	7-00)						
	WTP = 6.00 per	No leakage	No leakage					
	Uniform Load Deflection (ASTM B 330-97) (Measurements reported were taken on the meeting rail)							
	(Loads were held für 33 second @ 45.0 paf (positive) @ 47.2 paf (negative)	0.47** 0.46**	0.26" max. 0.26" max					

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

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

O.18° date: C1Fig.

O.8° date: C



01-41134.01 Page 5 of 5

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

FOR ARCHITECTURAL TESTING, INC:

Mark A. Heas
Technician

MAH:nlb 01-41134.01 Allen N. Reeves, P.B.

Director - Engineering Services

