

Columbia County Building Permit Application

For Office Use Only Application # 0701-601 Date Received 1/17 By JN Permit # 25467
 Application Approved by - Zoning Official BLK Date 25.01.07 Plans Examiner JKTH Date 1-18-07
 Flood Zone X Development Permit NIA Zoning A-3 Land Use Plan Map Category A-3
 Comments _____

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

Name Authorized Person Signing Permit Bryan Zacher Recky Dugan Fax _____
 Address P.O. Box 815 Lake City, FL 32056 Phone 752-8653

Owners Name Bryan and Melissa Zacher Phone 752-8653
 911 Address 6390 CR 349 Lake City, FL 32024

Contractors Name Bryan Zacher Phone 752-8653
 Address P.O. Box 815 Lake City, FL 32056

Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____

Architect/Engineer Name & Address Teena Russo / Mark Disasway
 Mortgage Lenders Name & Address _____

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 27-55-17-09411-104 Estimated Cost of Construction 180,000.

Subdivision Name Sweet Gum Estates Lot 4:5 Block _____ Unit _____ Phase _____
 Driving Directions CR 441 South to CR 349. Turn Right and driveway to job site is about 1/2 mile on Right.

Type of Construction 1 Frame/Addition Number of Existing Dwellings on Property 1
 Total Acreage 802 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 600' ✓ Side 160' ✓ Side 130' ✓ Rear 100' ✓
 Total Building Height 21' Number of Stories 1 Heated Floor Area 2827 Roof Pitch 7/12

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

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

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

Owner Builder or Authorized Person by Notarized Letter _____

STATE OF FLORIDA
 COUNTY OF COLUMBIA

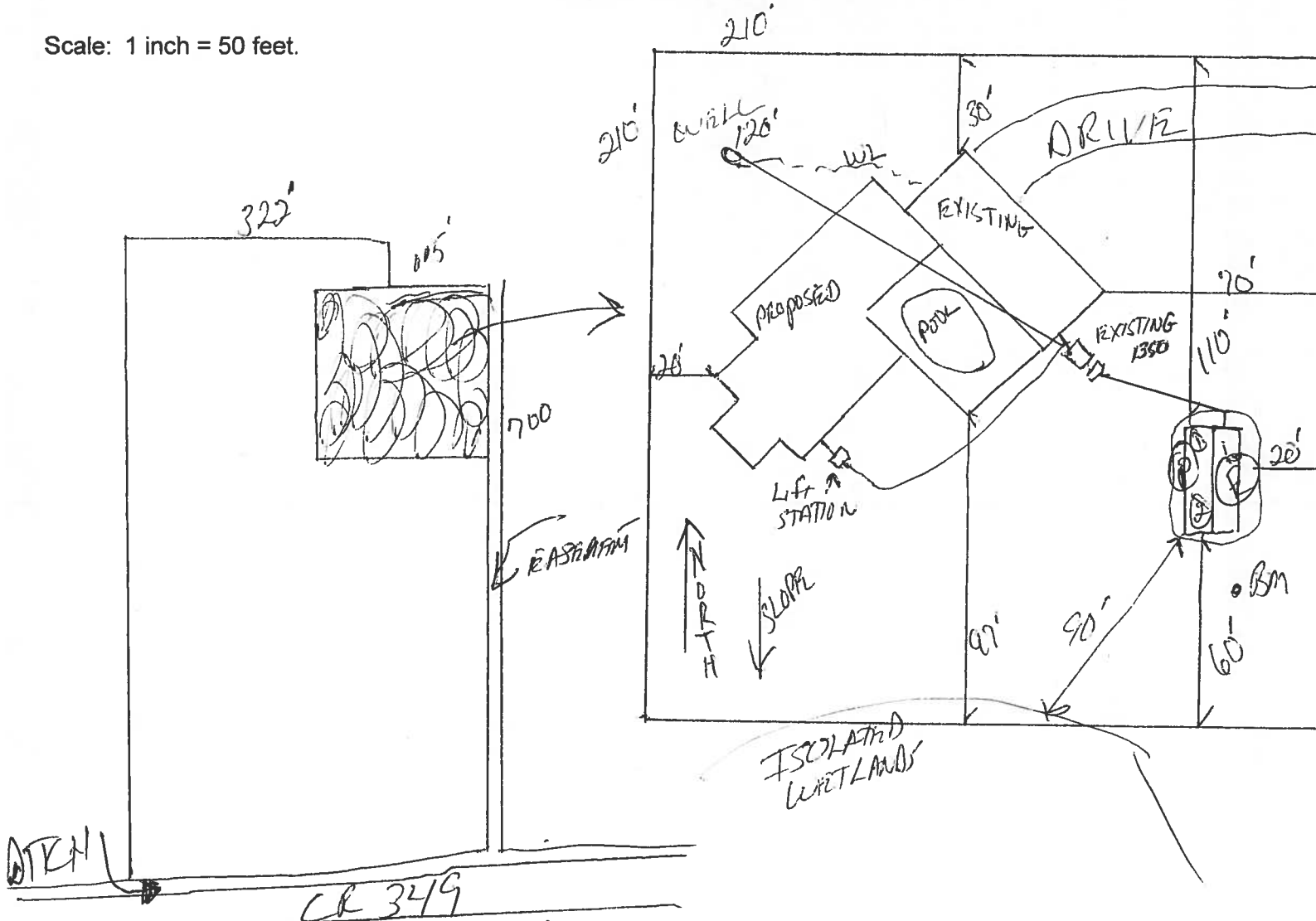
Sworn to (or affirmed) and subscribed before me
 this 16th day of January 20 07.

Personally known ✓ or Produced Identification _____

Contractor Signature _____
 Contractors License Number _____
 Competency Card Number _____
 NOTARY STAMP/SEAL
 REBECCA DUGAN
 MY COMMISSION #DD452939
 EXPIRES: JUL 20, 2009
 Bonded through 1st State Insurance
 Notary Signature _____
 (Revised Sept. 2006)

Permit Application Number 07-00057N

Scale: 1 inch = 50 feet.



Notes: 1 Acre of 7 Acres

Site Plan submitted by: John A. Ford

Plan Approved ☒

Not Approved_____

By 17th St Columbia

MASTER CONTRACTOR

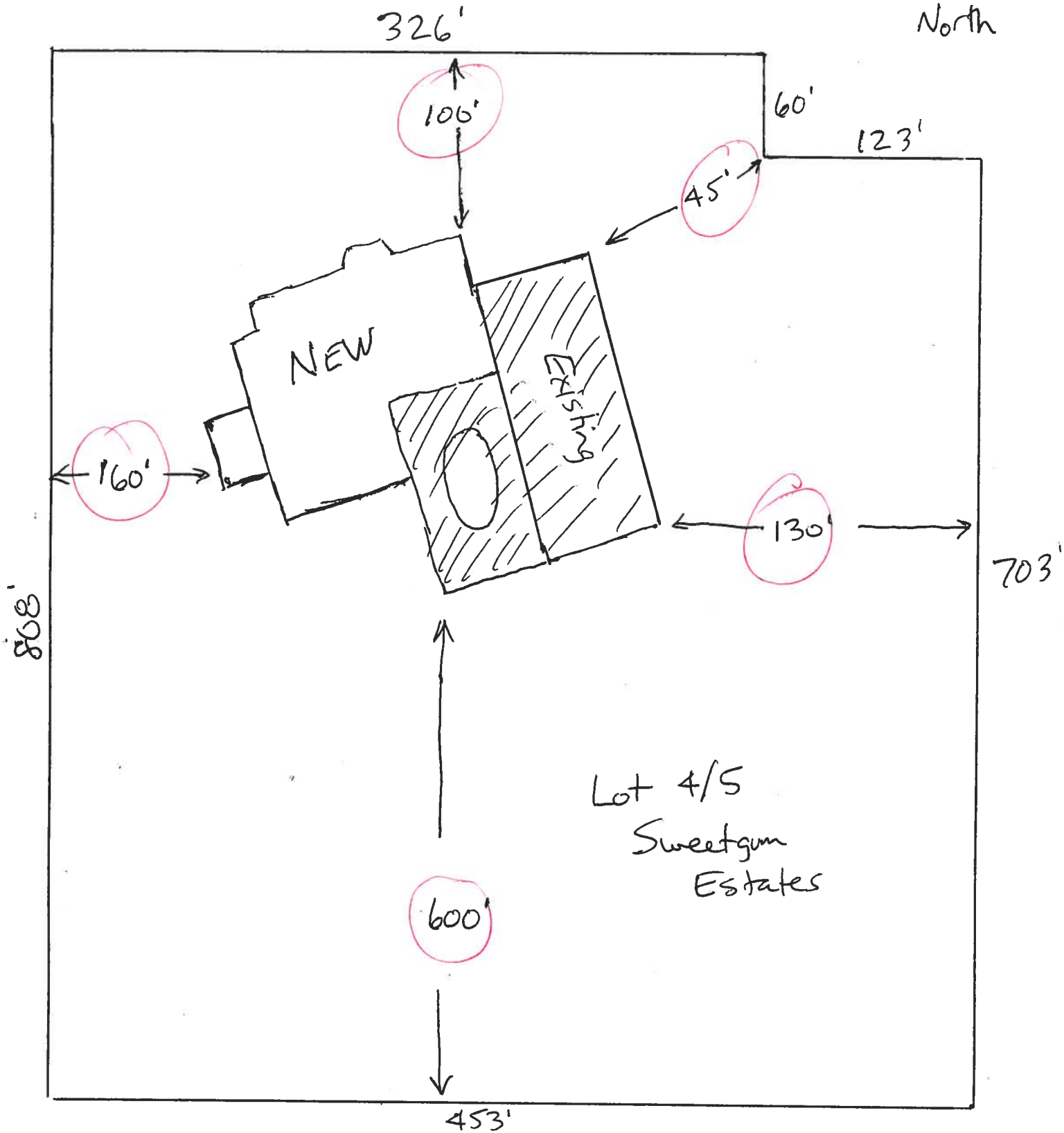
Date 1-14-07

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

Proposed Plot Plan -
Bryan Zecher

North



FILE COPY County Road 349

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No 2502-0525

(exp. 10/31/2005)

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.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

Section 1: General information (Treating Company information)

Company Name: Florida Pest Control & Co.

Company Address: 536 SE Baya Dr City: Lake City State: FL Zip 32025

Company Business License No. 3460

Company Phone No. 386-752-1703

FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name _____ Phone No. _____

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 ☐ Basement ☐ Crawl ☐ Other _____

Approximate Depth of Footing: Outside _____ Inside _____ Type of Fill _____

Section 4: Treatment Information

Date(s) of Treatment _____

Brand Name of Product(s) Used Bora-Care

EPA Registration No. 64405-1

Approximate Final Mix Solution % 1.0

Approximate Size of Treatment Area: Sq. ft. _____ Linear ft. _____ Linear ft. of Masonry Voids _____

Approximate Total Gallons of Solution Applied _____

Was treatment completed on exterior? ☐ Yes ☐ No

Service Agreement Available? ☐ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) _____

Certification No. (if required by State law) _____

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.

Authorized Signature _____ Date _____

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

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)

FILE COPY

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up	N/A		
5. Automatic	N/A		
6. Other	—		
B. WINDOWS			
1. Single hung	Capital/Jordan		FL 675 / FL 1318-X
2. Horizontal Slider	" "		FL 685 / FL 1384-X
3. Casement	—		
4. Double Hung	—		
5. Fixed	C/J		FL 681 / FL 1383-X
6. Awning	—		
7. Pass-through	—		
8. Projected	—		
9. Mullion	—		
10. Wind Breaker	—		
11. Dual Action	—		
12. Other			
C. PANEL WALL			
1. Siding	Hardy Plank		FL 889-R1
2. Soffits	Ashley Aluminum		FL 4168
3. EIFS	—		
4. Storefronts	—		
5. Curtain walls	—		
6. Wall louver	—		
7. Glass block	—		
8. Membrane	—		
9. Greenhouse	—		
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	EIK/Certainteed		FL 728-R1 / FL 250-R1
2. Underlayments	Felt		FL 1814
3. Roofing Fasteners	Nails		ROM 3378
4. Non-structural Metal Rf	—		
5. Built-Up Roofing	—		
6. Modified Bitumen	—		
7. Single Ply Roofing Sys	—		
8. Roofing Tiles	—		
9. Roofing Insulation	—		
10. Waterproofing	—		
11. Wood shingles /shakes	—		
12. Roofing Slate	—		

FILE COPY

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	701032Zecher,Bryan&Missy	Builder:	
Address:	639 SW County Rd 349	Permitting Office:	COLUMBIA
City, State:	, FL	Permit Number:	25467
Owner:	Zecher, Bryan & Missy	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 69.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 14.00
4. Number of Bedrooms	1	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2827 ft²	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 69.0 kBtu/hr
a. U-factor:	Description Area		HSPF: 8.20
(or Single or Double DEFAULT) 7a. (Dble Default) 693.5 ft²		b. N/A	
b. SHGC:	7b. (Clear) 693.5 ft²	c. N/A	
(or Clear or Tint DEFAULT)		14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 40.0 gallons
a. Slab-On-Grade Edge Insulation	R=0.0, 277.0(p) ft		EF: 0.93
b. N/A		b. N/A	
c. N/A		c. Conservation credits	
9. Wall types		(HR-Heat recovery, Solar	
a. Frame, Wood, Exterior	R=13.0, 2056.5 ft²	DHP-Dedicated heat pump)	
b. N/A		15. HVAC credits	
c. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		HF-Whole house fan,	
e. N/A		PT-Programmable Thermostat,	
10. Ceiling types		MZ-C-Multizone cooling,	
a. Under Attic	R=30.0, 2967.0 ft²	MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 147.0 ft		
b. N/A			

Glass/Floor Area: 0.25

Total as-built points: 31720

Total base points: 32157

PASS

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

PREPARED BY: [Signature]

DATE: 1-15-07

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

OWNER/AGENT: [Signature]

DATE: 1/16/07

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

BUILDING OFFICIAL: _____

DATE: _____



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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 639 SW County Rd 349, , FL,

PERMIT #:

BASE				AS-BUILT											
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area															
				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points							
.18	2827.0	20.04	10197.6	Double, Clear	E	1.5	4.0	8.0	42.06	0.82	274.5				
				Double, Clear	S	1.5	3.5	7.5	35.87	0.70	189.3				
				Double, Clear	W	1.5	5.5	18.0	38.52	0.90	621.9				
				Double, Clear	S	8.0	7.0	60.0	35.87	0.50	1076.4				
				Double, Clear	S	8.0	7.0	72.0	35.87	0.50	1291.6				
				Double, Clear	SE	8.0	7.0	24.0	42.75	0.47	480.2				
				Double, Clear	S	21.0	7.0	38.0	35.87	0.43	588.7				
				Double, Clear	E	10.0	7.0	30.0	42.06	0.44	557.2				
				Double, Clear	E	10.0	7.0	72.0	42.06	0.44	1337.3				
				Double, Clear	S	1.5	7.0	72.0	35.87	0.89	2310.0				
				Double, Clear	W	1.5	7.0	72.0	38.52	0.94	2604.3				
				Double, Clear	W	14.0	8.0	72.0	38.52	0.42	1167.7				
				Double, Clear	N	1.5	8.0	42.0	19.20	0.97	780.0				
				Double, Clear	N	1.5	5.0	12.0	19.20	0.92	210.9				
				Double, Clear	NW	1.5	3.0	6.0	25.97	0.78	122.2				
				Double, Clear	N	1.5	3.0	6.0	19.20	0.83	95.8				
				Double, Clear	NE	1.5	3.0	6.0	29.56	0.76	134.6				
				Double, Clear	N	1.5	7.0	44.0	19.20	0.96	806.8				
				Double, Clear	W	14.0	1.5	16.0	38.52	0.37	230.9				
				Double, Clear	W	1.5	1.5	16.0	38.52	0.53	326.9				
								As-Built Total:			693.5			15207.1	
				WALL TYPES Area X BSPM = Points				Type		R-Value		Area X SPM = Points			
				Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior		13.0		2056.5	1.50		3084.8
Exterior	2056.5	1.70	3496.1												
Base Total:		2056.5	3496.1	As-Built Total:		2056.5		3084.8							
DOOR TYPES Area X BSPM = Points				Type				Area X SPM = Points							
Adjacent	20.0	1.60	32.0	Exterior Insulated		80.0		4.10		328.0					
Exterior	80.0	4.10	328.0	Adjacent Insulated		20.0		1.60		32.0					
Base Total:		100.0	360.0	As-Built Total:		100.0		360.0							
CEILING TYPES Area X BSPM = Points				Type		R-Value		Area X SPM X SCM = Points							
Under Attic	2827.0	1.73	4890.7	Under Attic		30.0		2967.0	1.73 X 1.00		5132.9				
Base Total:		2827.0	4890.7	As-Built Total:		2967.0		5132.9							

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 639 SW County Rd 349, , FL,

PERMIT #:

BASE				AS-BUILT			
FLOOR TYPES Area X BSPM = Points				Type	R-Value	Area X SPM = Points	
Slab	277.0(p)	-37.0	-10249.0	Slab-On-Grade Edge Insulation	0.0	277.0(p)	-41.20
Raised	0.0	0.00	0.0				
Base Total: -10249.0				As-Built Total: 277.0 -11412.4			
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
	2827.0	10.21	28863.7			2827.0	10.21
Summer Base Points: 37559.0				Summer As-Built Points: 41236.0			
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier
							X Credit Multiplier
37559.0	0.4266	16022.7		41236.0	1.00	1.138	0.244
							1.000
							11437.1

(sys 1: Central Unit 69000 btuh ,SEER/EFF(14.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)

41236 1.00 (1.09 x 1.147 x 0.91) 0.244 1.000 11437.1

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 639 SW County Rd 349, , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	2827.0	12.74	6482.9	Double, Clear	E	1.5	4.0	8.0	18.79	1.07	161.5
				Double, Clear	S	1.5	3.5	7.5	13.30	1.47	146.3
				Double, Clear	W	1.5	5.5	18.0	20.73	1.03	383.6
				Double, Clear	S	8.0	7.0	60.0	13.30	2.96	2365.1
				Double, Clear	S	8.0	7.0	72.0	13.30	2.96	2838.1
				Double, Clear	SE	8.0	7.0	24.0	14.71	2.07	730.1
				Double, Clear	S	21.0	7.0	38.0	13.30	3.66	1849.4
				Double, Clear	E	10.0	7.0	30.0	18.79	1.38	776.8
				Double, Clear	E	10.0	7.0	72.0	18.79	1.38	1864.4
				Double, Clear	S	1.5	7.0	72.0	13.30	1.07	1028.1
				Double, Clear	W	1.5	7.0	72.0	20.73	1.02	1516.9
				Double, Clear	W	14.0	8.0	72.0	20.73	1.22	1816.4
				Double, Clear	N	1.5	8.0	42.0	24.58	1.00	1033.2
				Double, Clear	N	1.5	5.0	12.0	24.58	1.00	296.0
				Double, Clear	NW	1.5	3.0	6.0	24.30	1.01	147.7
				Double, Clear	N	1.5	3.0	6.0	24.58	1.01	148.8
				Double, Clear	NE	1.5	3.0	6.0	23.57	1.02	144.9
				Double, Clear	N	1.5	7.0	44.0	24.58	1.00	1083.1
				Double, Clear	W	14.0	1.5	16.0	20.73	1.24	410.5
				Double, Clear	W	1.5	1.5	16.0	20.73	1.17	387.0
				As-Built Total: 693.5 19127.8							
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		2056.5	3.40		6992.1	
Exterior	2056.5	3.70	7609.1								
Base Total: 2056.5 7609.1				As-Built Total: 2056.5 6992.1							
DOOR TYPES Area X BWPM = Points				Type			Area X WPM = Points				
Adjacent	20.0	8.00	160.0	Exterior Insulated			80.0	8.40		672.0	
Exterior	80.0	8.40	672.0	Adjacent Insulated			20.0	8.00		160.0	
Base Total: 100.0 832.0				As-Built Total: 100.0 832.0							
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	2827.0	2.05	5795.4	Under Attic	30.0		2967.0	2.05 X 1.00		6082.4	
Base Total: 2827.0 5795.4				As-Built Total: 2967.0 6082.4							

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 639 SW County Rd 349, , FL,

PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X	WPM	= Points
Slab	277.0(p)	8.9	2465.3	Slab-On-Grade Edge Insulation	0.0	277.0(p)	18.80	5207.6
Raised	0.0	0.00	0.0					
Base Total:			2465.3	As-Built Total:			277.0	5207.6
INFILTRATION Area X BWPM = Points				Area X WPM = Points				
2827.0 -0.59 -1667.9				2827.0 -0.59 -1667.9				
Winter Base Points:			21516.6	Winter As-Built Points:			36574.0	
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier = Heating Points
21516.6	0.6274	13499.5	(sys 1: Electric Heat Pump 69000 btuh ,EFF(8.2) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			36574.0	1.000	(1.069 x 1.169 x 0.93)	0.416	1.000	17676.2
			36574.0	1.00	1.162	0.416	1.000	17676.2

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: 639 SW County Rd 349, , FL,

PERMIT #:

BASE					AS-BUILT					
WATER HEATING					Tank	EF	Number of	X	Tank	X
Number of	X	Multiplier	=	Total	Volume		Bedrooms		Ratio	Multiplier
Bedrooms										Credit = Total
										Multiplier
1		2635.00		2635.0	40.0	0.93	1		1.00	2606.67
										1.00
										2606.7
					As-Built Total:					2606.7

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling	+	Heating	+	Hot Water	=	Total	Cooling	+	Heating
Points		Points		Points		Points	Points		Points
16023		13500		2635		32157	11437		17676
									2607
									31720

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 639 SW County Rd 349, , 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* = 83.9

The higher the score, the more efficient the home.

Zecher, Bryan & Missy, 639 SW County Rd 349, , FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 69.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 14.00
4. Number of Bedrooms	1	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	2827 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 69.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 693.5 ft ²		HSPF: 8.20
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 693.5 ft ²	c. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 277.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 40.0 gallons
c. N/A			EF: 0.93
9. Wall types		b. N/A	
a. Frame, Wood, Exterior	R=13.0, 2056.5 ft ²	c. Conservation credits	
b. N/A		(HR-Heat recovery, Solar	
c. N/A		DHP-Dedicated heat pump)	
d. N/A		15. HVAC credits	
e. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		HF-Whole house fan,	
a. Under Attic	R=30.0, 2967.0 ft ²	PT-Programmable Thermostat,	
b. N/A		MZ-C-Multizone cooling,	
c. N/A		MZ-H-Multizone heating)	
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 147.0 ft		
b. N/A			

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

Builder Signature: [Signature]

Date: 1/16/06

Address of New Home: 639 CR 349

City/FL Zip: LC, FL 32056



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

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

Residential System Sizing Calculation

Summary

Zecher, Bryan & Missy
639 SW County Rd 349
, FL

Project Title:
701032Zecher,Bryan&Missy

Class 3 Rating
Registration No. 0
Climate: North

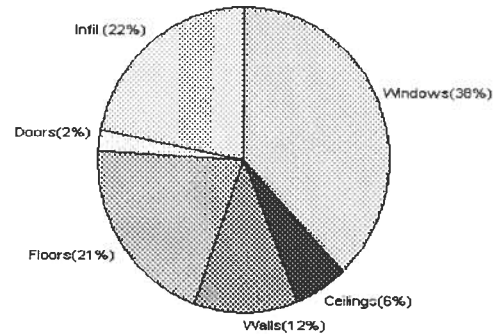
1/15/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	58559 Btuh	Total cooling load calculation	56008 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	117.8 69000	Sensible (SHR = 0.75)	104.0 51750
Heat Pump + Auxiliary(0.0kW)	117.8 69000	Latent	275.8 17250
		Total (Electric Heat Pump)	123.2 69000

WINTER CALCULATIONS

Winter Heating Load (for 2827 sqft)

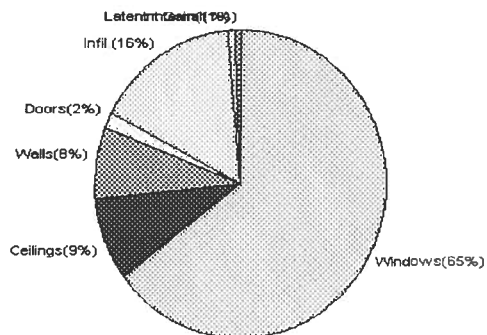
Load component			Load	
Window total	694	sqft	22324	Btuh
Wall total	2057	sqft	6754	Btuh
Door total	100	sqft	1295	Btuh
Ceiling total	2967	sqft	3496	Btuh
Floor total	277	sqft	12094	Btuh
Infiltration	311	cfm	12596	Btuh
Duct loss			0	Btuh
Subtotal			58559	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			58559	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2827 sqft)

Load component			Load	
Window total	694	sqft	36129	Btuh
Wall total	2057	sqft	4289	Btuh
Door total	100	sqft	980	Btuh
Ceiling total	2967	sqft	4914	Btuh
Floor total			0	Btuh
Infiltration	160	cfm	2981	Btuh
Internal gain			460	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			49753	Btuh
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			5854	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			400	Btuh
Total latent gain			6254	Btuh
TOTAL HEAT GAIN			56008	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 1-15-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Zecher, Bryan & Missy
639 SW County Rd 349
, FL

Project Title:
701032Zecher,Bryan&Missy

Class 3 Rating
Registration No. 0
Climate: North

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

1/15/2007

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	8.0		32.2	258 Btuh
2	2, Clear, Metal, 0.87	NE	7.5		32.2	241 Btuh
3	2, Clear, Metal, 0.87	SE	18.0		32.2	579 Btuh
4	2, Clear, Metal, 0.87	NE	60.0		32.2	1931 Btuh
5	2, Clear, Metal, 0.87	NE	72.0		32.2	2318 Btuh
6	2, Clear, Metal, 0.87	N	24.0		32.2	773 Btuh
7	2, Clear, Metal, 0.87	NE	38.0		32.2	1223 Btuh
8	2, Clear, Metal, 0.87	NW	30.0		32.2	966 Btuh
9	2, Clear, Metal, 0.87	NW	72.0		32.2	2318 Btuh
10	2, Clear, Metal, 0.87	NE	72.0		32.2	2318 Btuh
11	2, Clear, Metal, 0.87	SE	72.0		32.2	2318 Btuh
12	2, Clear, Metal, 0.87	SE	72.0		32.2	2318 Btuh
13	2, Clear, Metal, 0.87	SW	42.0		32.2	1352 Btuh
14	2, Clear, Metal, 0.87	SW	12.0		32.2	386 Btuh
15	2, Clear, Metal, 0.87	S	6.0		32.2	193 Btuh
16	2, Clear, Metal, 0.87	SW	6.0		32.2	193 Btuh
17	2, Clear, Metal, 0.87	W	6.0		32.2	193 Btuh
18	2, Clear, Metal, 0.87	SW	44.0		32.2	1416 Btuh
19	2, Clear, Metal, 0.87	SE	16.0		32.2	515 Btuh
20	2, Clear, Metal, 0.87	SE	16.0		32.2	515 Btuh
Window Total			694(sqft)			22324 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2057		3.3	6754 Btuh
Wall Total			2057			6754 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		80		12.9	1036 Btuh
Door Total			100			1295Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2967		1.2	3496 Btuh
Ceiling Total			2967			3496Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	277.0 ft(p)		43.7	12094 Btuh
Floor Total			277			12094 Btuh
Zone Envelope Subtotal:						45962 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	
	Natural	0.66	28270		311.0	12596 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Zeher, Bryan & Missy
639 SW County Rd 349
, FL

Project Title:
701032Zeher,Bryan&Missy

Class 3 Rating
Registration No. 0
Climate: North

1/15/2007

Zone #1	Sensible Zone Subtotal	58559 Btuh
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WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	58559 Btuh 0 Btuh 58559 Btuh
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Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Zecher, Bryan & Missy
639 SW County Rd 349
, FL

Project Title:
701032Zecher,Bryan&Missy

Class 3 Rating
Registration No. 0
Climate: North

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

1/15/2007

Component Loads for Zone #1: Main					
Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	8.0	32.2	258 Btuh
2	2, Clear, Metal, 0.87	NE	7.5	32.2	241 Btuh
3	2, Clear, Metal, 0.87	SE	18.0	32.2	579 Btuh
4	2, Clear, Metal, 0.87	NE	60.0	32.2	1931 Btuh
5	2, Clear, Metal, 0.87	NE	72.0	32.2	2318 Btuh
6	2, Clear, Metal, 0.87	N	24.0	32.2	773 Btuh
7	2, Clear, Metal, 0.87	NE	38.0	32.2	1223 Btuh
8	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
9	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
10	2, Clear, Metal, 0.87	NE	72.0	32.2	2318 Btuh
11	2, Clear, Metal, 0.87	SE	72.0	32.2	2318 Btuh
12	2, Clear, Metal, 0.87	SE	72.0	32.2	2318 Btuh
13	2, Clear, Metal, 0.87	SW	42.0	32.2	1352 Btuh
14	2, Clear, Metal, 0.87	SW	12.0	32.2	386 Btuh
15	2, Clear, Metal, 0.87	S	6.0	32.2	193 Btuh
16	2, Clear, Metal, 0.87	SW	6.0	32.2	193 Btuh
17	2, Clear, Metal, 0.87	W	6.0	32.2	193 Btuh
18	2, Clear, Metal, 0.87	SW	44.0	32.2	1416 Btuh
19	2, Clear, Metal, 0.87	SE	16.0	32.2	515 Btuh
20	2, Clear, Metal, 0.87	SE	16.0	32.2	515 Btuh
	Window Total		694(sqft)		22324 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2057	3.3	6754 Btuh
	Wall Total		2057		6754 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		80	12.9	1036 Btuh
	Door Total		100		1295Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2967	1.2	3496 Btuh
	Ceiling Total		2967		3496Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	277.0 ft(p)	43.7	12094 Btuh
	Floor Total		277		12094 Btuh
	Zone Envelope Subtotal:				45962 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.66	28270	311.0	12596 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Zeher, Bryan & Missy
639 SW County Rd 349
, FL

Project Title:
701032Zeher,Bryan&Missy

Class 3 Rating
Registration No. 0
Climate: North

1/15/2007

Zone #1	Sensible Zone Subtotal	58559 Btuh
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WHOLE HOUSE TOTALS

	Subtotal Sensible	58559 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	58559 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Zecher, Bryan & Missy
639 SW County Rd 349
, FL

Project Title:
701032Zecher,Bryan&Missy

Class 3 Rating
Registration No. 0
Climate: North

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

1/15/2007

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	4ft.	8.0	0.0	8.0	29	60	480 Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	7.5	0.0	7.5	29	60	450 Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	18.0	9.1	8.9	29	63	821 Btuh
4	2, Clear, 0.87, None,N,N	NE	8ft.	7ft.	60.0	0.0	60.0	29	60	3602 Btuh
5	2, Clear, 0.87, None,N,N	NE	8ft.	7ft.	72.0	0.0	72.0	29	60	4323 Btuh
6	2, Clear, 0.87, None,N,N	N	8ft.	7ft.	24.0	0.0	24.0	29	29	695 Btuh
7	2, Clear, 0.87, None,N,N	NE	21ft.	7ft.	38.0	0.0	38.0	29	60	2281 Btuh
8	2, Clear, 0.87, None,N,N	NW	10ft.	7ft.	30.0	0.0	30.0	29	60	1801 Btuh
9	2, Clear, 0.87, None,N,N	NW	10ft.	7ft.	72.0	0.0	72.0	29	60	4323 Btuh
10	2, Clear, 0.87, None,N,N	NE	1.5ft.	7ft.	72.0	0.0	72.0	29	60	4323 Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft.	7ft.	72.0	18.3	53.7	29	63	3889 Btuh
12	2, Clear, 0.87, None,N,N	SE	14ft.	8ft.	72.0	72.0	0.0	29	63	2085 Btuh
13	2, Clear, 0.87, None,N,N	SW	1.5ft.	8ft.	42.0	9.1	32.9	29	63	2320 Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft.	5ft.	12.0	4.6	7.4	29	63	597 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft.	3ft.	6.0	6.0	0.0	29	34	174 Btuh
16	2, Clear, 0.87, None,N,N	SW	1.5ft.	3ft.	6.0	4.6	1.4	29	63	222 Btuh
17	2, Clear, 0.87, None,N,N	W	1.5ft.	3ft.	6.0	0.7	5.3	29	80	440 Btuh
18	2, Clear, 0.87, None,N,N	SW	1.5ft.	7ft.	44.0	11.2	32.8	29	63	2376 Btuh
19	2, Clear, 0.87, None,N,N	SE	14ft.	1.5ft.	16.0	16.0	0.0	29	63	463 Btuh
20	2, Clear, 0.87, None,N,N	SE	1.5ft.	1.5ft.	16.0	16.0	0.0	29	63	463 Btuh
	Window Total				694 (sqft)					36129 Btuh
Walls 1	Type	R-Value/U-Value		Area(sqft)			HTM		Load	
	Frame - Wood - Ext	13.0/0.09		2056.5			2.1		4289 Btuh	
	Wall Total			2057 (sqft)					4289 Btuh	
Doors 1 2	Type			Area (sqft)			HTM		Load	
	Insulated - Adjacent			20.0			9.8		196 Btuh	
	Insulated - Exterior			80.0			9.8		784 Btuh	
	Door Total			100 (sqft)					980 Btuh	
Ceilings 1	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load	
	Vented Attic/DarkShingle	30.0		2967.0			1.7		4914 Btuh	
	Ceiling Total			2967 (sqft)					4914 Btuh	
Floors 1	Type	R-Value		Size			HTM		Load	
	Slab On Grade	0.0		277 (ft(p))			0.0		0 Btuh	
	Floor Total			277.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:								46312 Btuh	
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load	
	SensibleNatural	0.34		28270			160.2		2981 Btuh	
Internal gain	Occupants		Btuh/occupant			Appliance		Load		
	2		X	230	+	0		460 Btuh		
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
	Sensible Zone Load								49753 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Zecher, Bryan & Missy
639 SW County Rd 349
, FL

Project Title:
701032Zecher,Bryan&Missy

Class 3 Rating
Registration No. 0
Climate: North

1/15/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	49753 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	49753 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	49753 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	5854 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6254 Btuh
	TOTAL GAIN	56008 Btuh

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

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

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

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

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

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

(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Zecher, Bryan & Missy
639 SW County Rd 349
, FL

Project Title:
701032Zecher,Bryan&Missy

Class 3 Rating
Registration No. 0
Climate: North

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

1/15/2007

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	4ft.	8.0	0.0	8.0	29	60	480	Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	7.5	0.0	7.5	29	60	450	Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	18.0	9.1	8.9	29	63	821	Btuh
4	2, Clear, 0.87, None,N,N	NE	8ft.	7ft.	60.0	0.0	60.0	29	60	3602	Btuh
5	2, Clear, 0.87, None,N,N	NE	8ft.	7ft.	72.0	0.0	72.0	29	60	4323	Btuh
6	2, Clear, 0.87, None,N,N	N	8ft.	7ft.	24.0	0.0	24.0	29	29	695	Btuh
7	2, Clear, 0.87, None,N,N	NE	21ft.	7ft.	38.0	0.0	38.0	29	60	2281	Btuh
8	2, Clear, 0.87, None,N,N	NW	10ft.	7ft.	30.0	0.0	30.0	29	60	1801	Btuh
9	2, Clear, 0.87, None,N,N	NW	10ft.	7ft.	72.0	0.0	72.0	29	60	4323	Btuh
10	2, Clear, 0.87, None,N,N	NE	1.5ft.	7ft.	72.0	0.0	72.0	29	60	4323	Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft.	7ft.	72.0	18.3	53.7	29	63	3889	Btuh
12	2, Clear, 0.87, None,N,N	SE	14ft.	8ft.	72.0	72.0	0.0	29	63	2085	Btuh
13	2, Clear, 0.87, None,N,N	SW	1.5ft.	8ft.	42.0	9.1	32.9	29	63	2320	Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft.	5ft.	12.0	4.6	7.4	29	63	597	Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft.	3ft.	6.0	6.0	0.0	29	34	174	Btuh
16	2, Clear, 0.87, None,N,N	SW	1.5ft.	3ft.	6.0	4.6	1.4	29	63	222	Btuh
17	2, Clear, 0.87, None,N,N	W	1.5ft.	3ft.	6.0	0.7	5.3	29	80	440	Btuh
18	2, Clear, 0.87, None,N,N	SW	1.5ft.	7ft.	44.0	11.2	32.8	29	63	2376	Btuh
19	2, Clear, 0.87, None,N,N	SE	14ft.	1.5ft.	16.0	16.0	0.0	29	63	463	Btuh
20	2, Clear, 0.87, None,N,N	SE	1.5ft.	1.5ft.	16.0	16.0	0.0	29	63	463	Btuh
	Window Total				694 (sqft)					36129 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load			
1	Frame - Wood - Ext	13.0/0.09		2056.5		2.1		4289 Btuh			
	Wall Total		2057 (sqft)				4289 Btuh				
Doors	Type			Area (sqft)		HTM		Load			
1	Insulated - Adjacent			20.0		9.8		196 Btuh			
2	Insulated - Exterior			80.0		9.8		784 Btuh			
	Door Total		100 (sqft)				980 Btuh				
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load			
1	Vented Attic/DarkShingle	30.0		2967.0		1.7		4914 Btuh			
	Ceiling Total		2967 (sqft)				4914 Btuh				
Floors	Type	R-Value		Size		HTM		Load			
1	Slab On Grade	0.0		277 (ft(p))		0.0		0 Btuh			
	Floor Total		277.0 (sqft)				0 Btuh				
	Zone Envelope Subtotal:								46312 Btuh		
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load			
	SensibleNatural	0.34		28270		160.2		2981 Btuh			
Internal gain	Occupants		Btuh/occupant		Appliance		Load				
	2		X 230 +		0		460 Btuh				
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic) DGM = 0.00							0.0 Btuh			
	Sensible Zone Load								49753 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Zecher, Bryan & Missy
639 SW County Rd 349
, FL

Project Title:
701032Zecher,Bryan&Missy

Class 3 Rating
Registration No. 0
Climate: North

1/15/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	49753 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	49753 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	49753 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	5854 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6254 Btuh
	TOTAL GAIN	56008 Btuh

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Zecher, Bryan & Missy
639 SW County Rd 349
, FL

Project Title:
701032Zecher,Bryan&Missy

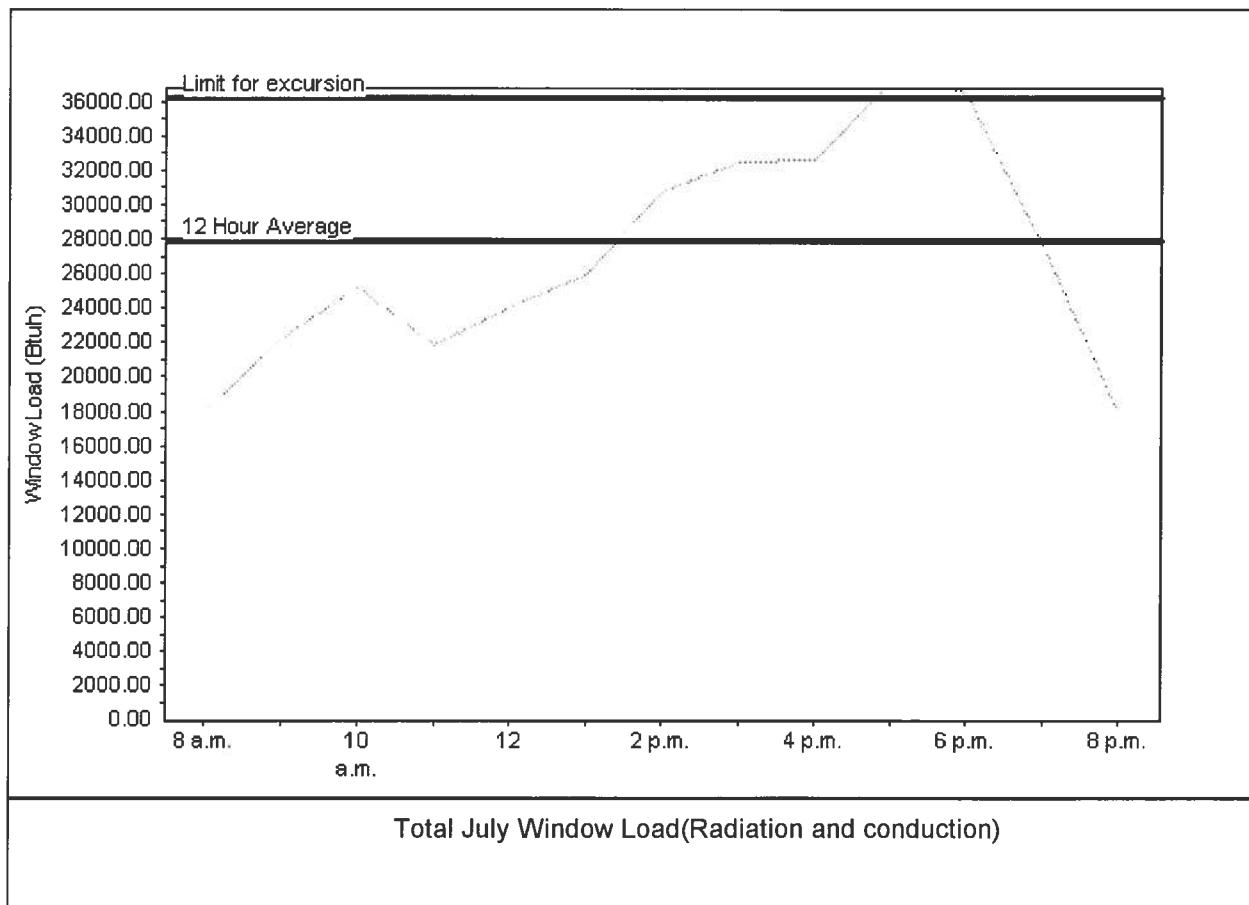
Class 3 Rating
Registration No. 0
Climate: North

1/15/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	27846 Btu
Summer setpoint	75 F	Peak window load for July	37255 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	36200 Btu
Latitude	29 North	Window excursion (July)	1056 Btuh

WINDOW Average and Peak Loads



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

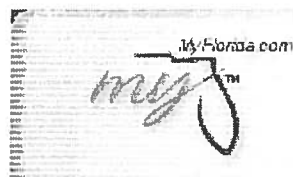
EnergyGauge® System Sizing for Florida residences only

PREPARED BY: Bryan Zecher

DATE: 1-15-07

EnergyGauge® FLR2PB v4.1



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Name: **ZECHER, BRYAN CHRISTIAN (Primary Name)**
BRYAN ZECHER CONSTRUCTION INC (DBA Name)
Main Address: **P O BOX 815**
LAKE CITY Florida 32056
County: **COLUMBIA**

License Mailing:

License Location: **465 NW ORANGE ST**
LAKE CITY FL 32055
County: **COLUMBIA**

License Information

License Type: **Certified Building Contractor**
Rank: **Cert Building**
License Number: **CBC054575**
Status: **Current, Active**
License Date: **12/05/1991**
Expires: **08/31/2008**

Special Qualifications	Qualification Effective
Bldg Code Core Course Credit	
Qualified Business License Required	04/13/2004

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CHRYSTIANE CALDWAY

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 27-5S-17-09411-104

Building permit No. 000025467

Use Classification ADDITION/SFD

Fire: 0.00

Permit Holder OWNER BUILDER

Waste:

Owner of Building BRYAN ZECHER

Total: 0.00

Location: 639 SW CR 349, LAKE CITY, FL

Date: 09/26/2007

Tony Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
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