FORM 600A-97

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Rose Creek Plantations, Lake City, Fl, 32056-** 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 6-12. 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* = 82.2

The higher the score, the more efficient the home.

Curt & Cathy Cady, Rose Creek Plantations, Lake City, Fl, 32056-

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 148.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 11.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	No			
6.	Conditioned floor area (ft²)	3734 ft²		c. N/A	
7.	Glass area & type				
	a. Clear - single pane	0.0 ft²	13.	Heating systems	
	b. Clear - double pane	1048.3 ft²		a. Electric Heat Pump	Cap: 103.0 kBtu/hr
	c. Tint/other SC/SHGC - single pane	0.0 ft²			HSPF: 6.80
	d. Tint/other SC/SHGC - double pane	0.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 365.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 50.0 gallons
	a. Frame, Wood, Exterior	R=11.0, 2580.0 ft²			EF: 0.86
	b. Frame, Wood, Adjacent	R=11.0, 450.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10.	Ceiling types		15.	HVAC credits	MZ-C, PT, CV, MZ-
	a. Under Attic	R=30.0, 3734.0 ft²		(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, RB-Attic radiant barrier, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
	b. N/A				
	c. N/A				
11.	Ducts				
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 300.0 ft			
	b. N/A				

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

Builder Signature: _____ Date: _____

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

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 407/638-1492 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.*

BUILDING INPUT SUMMARY REPORT

PROJECT

Title:	111201 Curt & Cathy Cady	**Family Type:**	Single	**Address Type:**	Street Address
Owner:	Curt & Cathy Cady	**New/Existing:**	New	**Lot #:**	N/A
# of Units:	1	**Bedrooms:**	3	**Subdivision:**	N/A
Builder Name:	Owner	**Conditioned Area:**	3734	**Platbook:**	N/A
Climate:	North	**Total Stories:**	1	**Street:**	Rose Creek Plantations
Permit Office:	(blank)	**Worst Case:**	No	**County:**	Columbia
Jurisdiction #:	(blank)	**Rotate Angle:**	(blank)	**City, St, Zip:**	Lake City, Fl, 32056-

FLOORS

#	Floor Type	R-Val	Area/Perimeter	Units
1	Slab-On-Grade Edge Insulation	0.0	365.0(p) ft	1

CEILINGS

#	Ceiling Type	R-Val	Area	Base Area	Units
1	Under Attic	30.0	3734.0 ft²	3734.0 ft²	1

WALLS

#	Wall Type	Location	R-Val	Area	Units
1	Frame - Wood	Exterior	11.0	2580.0 ft²	1
2	Frame - Wood	Adjacent	11.0	450.0 ft²	1

WINDOWS

#	Panes	Tint	Ornt	Area	OH Length	OH Hght	Units
1	Double	Clear	N	36.0 ft²	1.0 ft	9.0 ft	1
2	Double	Clear	NE	36.0 ft²	1.0 ft	9.0 ft	1
3	Double	Clear	NE	18.0 ft²	1.0 ft	6.0 ft	1
4	Double	Clear	NE	36.0 ft²	1.0 ft	9.0 ft	3
5	Double	Clear	E	36.0 ft²	1.0 ft	9.0 ft	1
6	Double	Clear	E	27.0 ft²	0.0 ft	0.0 ft	1
7	Double	Clear	E	48.0 ft²	1.0 ft	9.0 ft	4
8	Double	Clear	SE	36.0 ft²	1.0 ft	9.0 ft	4
9	Double	Clear	SE	27.0 ft²	1.0 ft	9.0 ft	1
10	Double	Clear	SE	16.3 ft²	5.0 ft	9.0 ft	1
11	Double	Clear	E	27.0 ft²	10.0 ft	9.0 ft	1
12	Double	Clear	E	6.0 ft²	1.0 ft	3.0 ft	1
13	Double	Clear	E	24.0 ft²	1.0 ft	7.0 ft	1
14	Double	Clear	SW	31.5 ft²	1.0 ft	9.0 ft	2
15	Double	Clear	W	27.0 ft²	1.0 ft	9.0 ft	6
16	Double	Clear	W	18.0 ft²	1.0 ft	7.0 ft	7

DOORS

#	Door Type	Orientation	Area	Units
1	Wood	Exterior	6.0 ft²	5
2	Wood	Adjacent	20.0 ft²	1

COOLING

#	System Type	Efficiency	Capacity
1	Central Unit	SEER: 11.00	148.0 kBtu/hr

Credit Multipliers: MZ-C, CrossVent, PT

HEATING

#	System Type	Efficiency	Capacity
1	Electric Heat Pump	HSPF: 6.80	103.0 kBtu/hr

Credit Multipliers: MZ-H, PT

DUCTS

#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length
1	Uncond.	Uncond.	Interior	6.0	300.0 ft

WATER

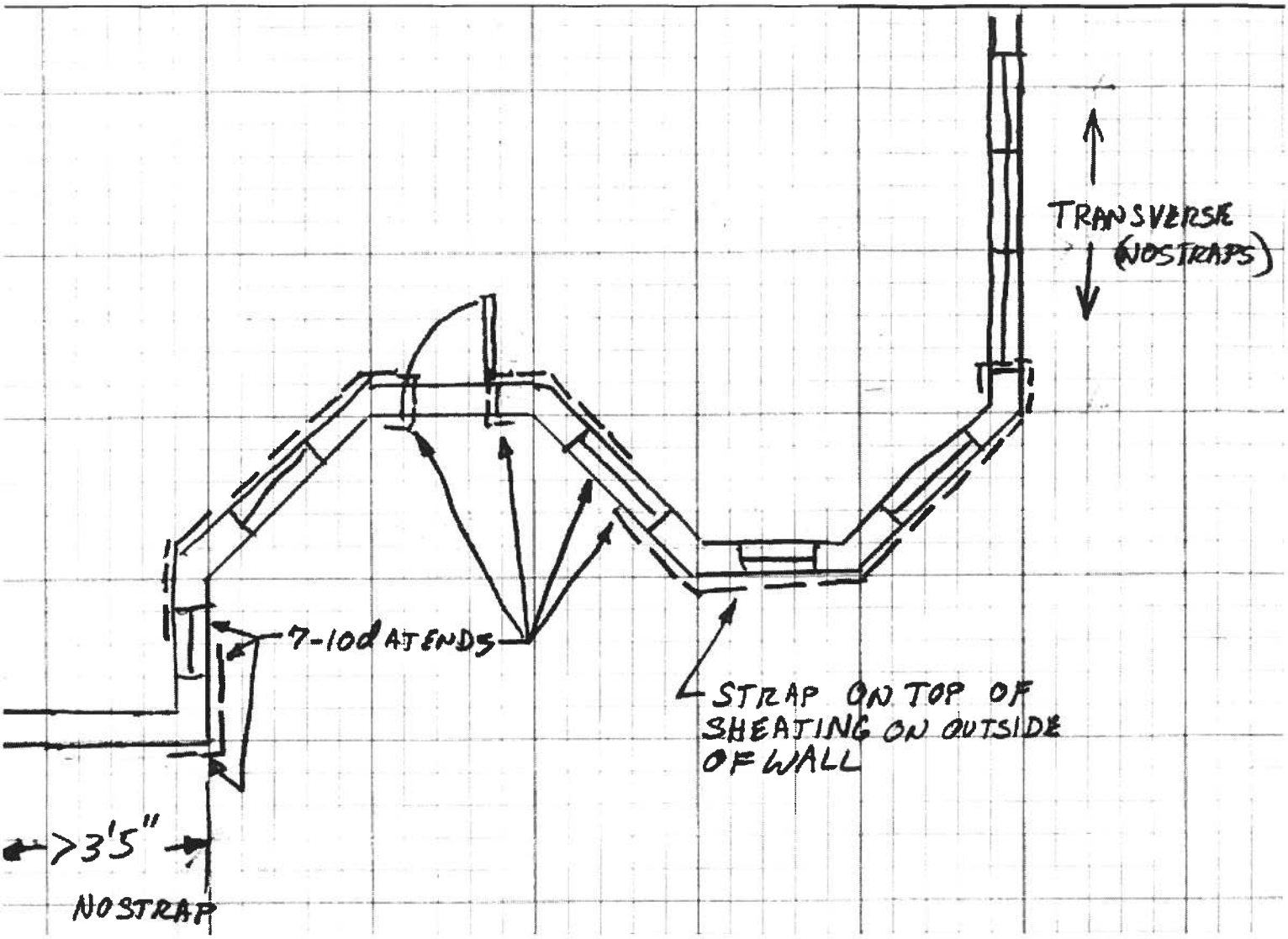
#	System Type	EF	Cap.	Conservation Type	Con. EF
1	Electric Resistance	0.86	50.0	None	0.00

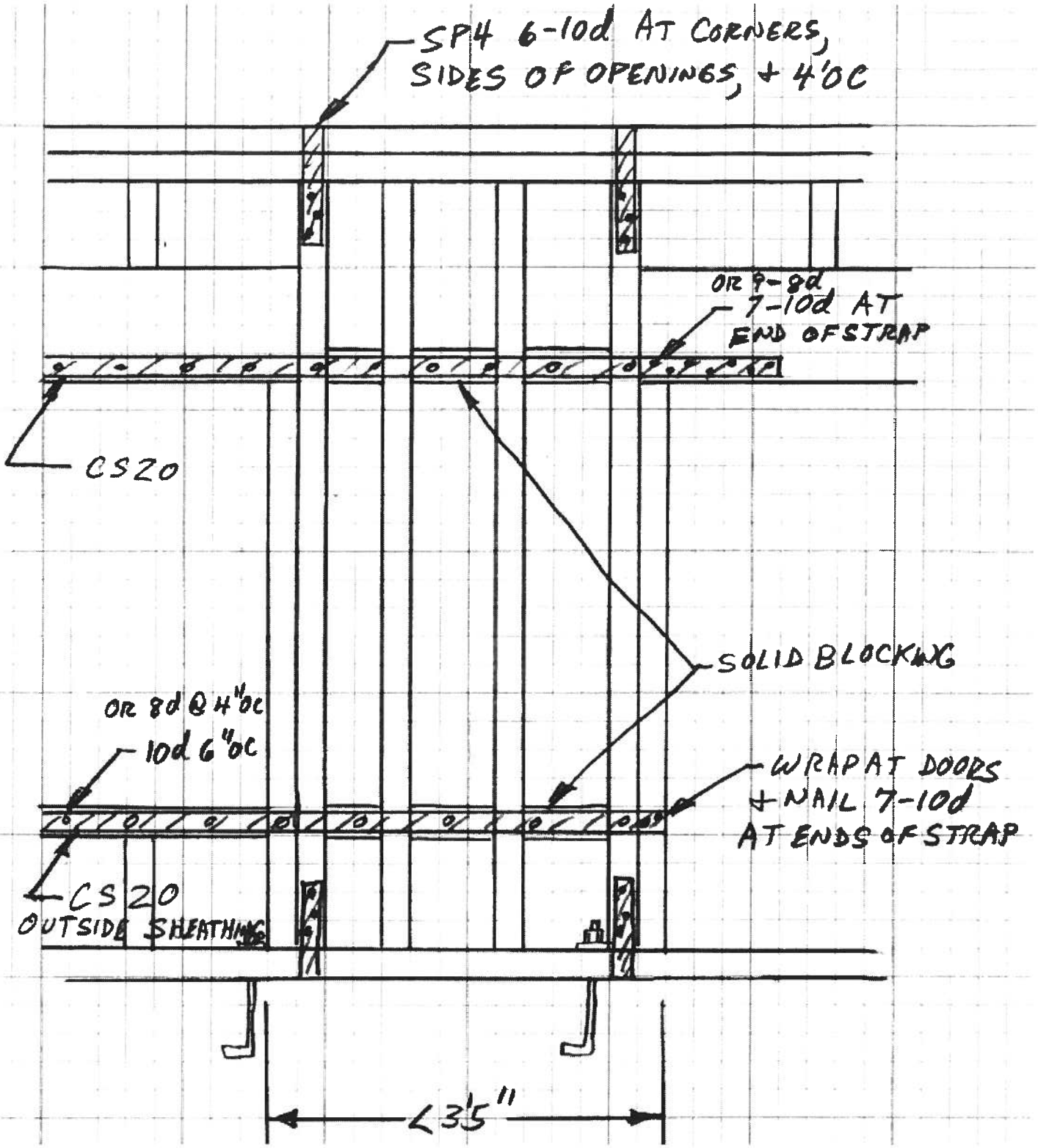
REFR.

#	Use Default?	Annual Operating Cost	Electric Rate
1	Yes	N/A	N/A

MISC

Rater Name:	Mark Disosway, RH	**Class #:**	3	**Pool Size:**	0
Rater Certification #:	467	**Duct Leakage Type:**	N/A	**Pump Size:**	0.00 hp
Area Under Fluorescent:	0.0	**Visible Duct Disconnects:**	N/A	**Dryer Type:**	Electric
Area Under Incandescent:	0.0	**Leak Free Duct System Proposed:**	No	**Stove Type:**	Electric
NOTE: Not all Rating info shown		**HRV/ERV System Present?:**		**Avg Ceil Hgt:**	


TRANSVERSE
(NOSTRAPS)
7-10d AT ENDS
STRAP ON TOP OF
SHEATING ON OUTSIDE
OF WALL
>3'5"
NOSTRAP


SP4 6-10d AT CORNERS, SIDES OF OPENINGS, + 4'OC
OR 9-8d
7-10d AT END OF STRAP
CS20
SOLID BLOCKING
OR 8d @ 4"OC
10d 6"OC
WRAP AT DOORS + NAIL 7-10d AT ENDS OF STRAP
CS20 OUTSIDE SHEATHING
<35'11"

Residential System Sizing Calculation

Summary

Curt & Cathy Cady
Rose Creek Plantations
Lake City, Fl 32056-

Project Title:
111201 Curt & Cathy Cady

Class 3 Rating
Registration No. 0
Climate: North

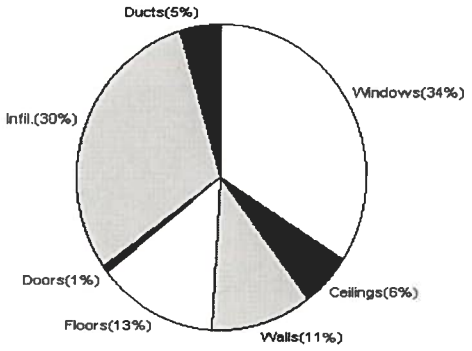
12/2/01

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (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	**86415**	**Btuh**	**Total cooling load calculation**	**123480**	**Btuh**
Submitted heating capacity	103000	Btuh	Submitted cooling capacity	148000	Btuh
Submitted as % of calculated	119.2	%	Submitted as % of calculated	119.9	%

WINTER CALCULATIONS

Winter Heating Load (for 3734 sqft)

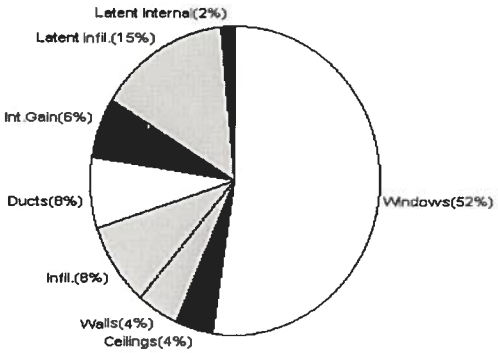
Load component			Load	
Window total	1048	sqft	29668	Btuh
Wall total	3030	sqft	9840	Btuh
Door total	50	sqft	722	Btuh
Ceiling total	3734	sqft	4854	Btuh
Floor total	365	ft	11534	Btuh
Infiltration	599	cfm	25681	Btuh
Subtotal			**82300**	**Btuh**
Duct loss			4115	Btuh
TOTAL HEAT LOSS			**86415**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 3734 sqft)

Load component			Load	
Window total	1048	sqft	64468	Btuh
Wall total	3030	sqft	5518	Btuh
Door total	50	sqft	499	Btuh
Ceiling total	3734	sqft	5302	Btuh
Floor total			0	Btuh
Infiltration	524	cfm	10371	Btuh
Internal gain			7700	Btuh
Subtotal(sensible)			**93859**	**Btuh**
Duct gain			9386	Btuh
Total sensible gain			**1.0324E**	**Btuh**
Latent gain(infiltration)			18166	Btuh
Latent gain(internal)			2070	Btuh
Total latent gain			**20236**	**Btuh**
TOTAL HEAT GAIN			**1.2348E**	**Btuh**



The sizing method used was EnergyGauge® System Sizing.
PREPARED BY: Mark Disosway
DATE: 02 NOV 01

System Sizing Calculations - Winter

Residential Load - Component Details

Curt & Cathy Cady
Rose Creek Plantations
Lake City, Fl 32056-

Project Title:
111201 Curt & Cathy Cady

Class 3 Rating
Registration No. 0
Climate: North

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

12/2/01

Window	Type(Panes/SC/Frame/U)	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	36.0	28.3	1019 Btuh
2	2, Clear, Metal, DEF	NE	36.0	28.3	1019 Btuh
3	2, Clear, Metal, DEF	NE	18.0	28.3	509 Btuh
4	2, Clear, Metal, DEF	NE	108.0	28.3	3056 Btuh
5	2, Clear, Metal, DEF	E	36.0	28.3	1019 Btuh
6	2, Clear, Metal, DEF	E	27.0	28.3	764 Btuh
7	2, Clear, Metal, DEF	E	192.0	28.3	5434 Btuh
8	2, Clear, Metal, DEF	SE	144.0	28.3	4075 Btuh
9	2, Clear, Metal, DEF	SE	27.0	28.3	764 Btuh
10	2, Clear, Metal, DEF	SE	16.3	28.3	462 Btuh
11	2, Clear, Metal, DEF	E	27.0	28.3	764 Btuh
12	2, Clear, Metal, DEF	E	6.0	28.3	170 Btuh
13	2, Clear, Metal, DEF	E	24.0	28.3	679 Btuh
14	2, Clear, Metal, DEF	SW	63.0	28.3	1783 Btuh
15	2, Clear, Metal, DEF	W	162.0	28.3	4585 Btuh
16	2, Clear, Metal, DEF	W	126.0	28.3	3566 Btuh
	Window Total		1048		29668 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	11.0	2580	3.5	9030 Btuh
2	Frame - Adjacent	11.0	450	1.8	810 Btuh
	Wall Total		3030		9840 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		30	17.9	538 Btuh
2	Wood - Adjac		20	9.2	184 Btuh
	Door Total		50		722Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	3734	1.3	4854 Btuh
	Ceiling Total		3734		4854Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	365.0 ft(p)	31.6	11534 Btuh
	Floor Total		365		11534 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.80	44808(sqft)	599	25681 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			599	25681 Btuh

Totals for Heating	**Subtotal**	**82300 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**4115 Btuh**
	Total Btuh Loss	**86415 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Curt & Cathy Cady	Project Title:	Class 3 Rating
Rose Creek Plantations	111201 Curt & Cathy Cady	Registration No. 0
Lake City, Fl 32056-		Climate: North
		12/2/01

Key: Window types (SC - Shading coefficient of glass as SC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Value 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

Curt & Cathy Cady
Rose Creek Plantations
Lake City, Fl 32056-

Project Title:
111201 Curt & Cathy Cady

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F 12/2/01

Window	Type Panes/SC/U/InSh/ExSh	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load	
1	2, Clear, DEF, N, N	N	1	9	36.0	0.0	36.0	22	22	792	Btuh
2	2, Clear, DEF, N, N	NE	1	9	36.0	0.0	36.0	22	50	1800	Btuh
3	2, Clear, DEF, N, N	NE	1	6	18.0	0.0	18.0	22	50	900	Btuh
4	2, Clear, DEF, N, N	NE	1	9	108.0	0.0	108.0	22	50	5400	Btuh
5	2, Clear, DEF, N, N	E	1	9	36.0	3.3	32.7	22	72	2426	Btuh
6	2, Clear, DEF, N, N	E	0	0	27.0	0.0	27.0	22	72	1944	Btuh
7	2, Clear, DEF, N, N	E	1	9	192.0	4.4	187.6	22	72	13603	Btuh
8	2, Clear, DEF, N, N	SE	1	9	144.0	6.7	137.3	22	62	8659	Btuh
9	2, Clear, DEF, N, N	SE	1	9	27.0	5.0	22.0	22	62	1472	Btuh
10	2, Clear, DEF, N, N	SE	5	9	16.3	15.0	1.4	22	62	414	Btuh
11	2, Clear, DEF, N, N	E	10	9	27.0	24.9	2.1	22	72	699	Btuh
12	2, Clear, DEF, N, N	E	1	3	6.0	1.7	4.3	22	72	349	Btuh
13	2, Clear, DEF, N, N	E	1	7	24.0	0.0	24.0	22	72	1728	Btuh
14	2, Clear, DEF, N, N	SW	1	9	63.0	5.9	57.1	22	62	3671	Btuh
15	2, Clear, DEF, N, N	W	1	9	162.0	2.5	159.5	22	72	11540	Btuh
16	2, Clear, DEF, N, N	W	1	7	126.0	0.0	126.0	22	72	9072	Btuh
	Window Total				1048					64468	Btuh

Walls	Type	R-Value	Area	HTM	Load	
1	Frame - Exterior	11.0	2580.0	1.9	5005	Btuh
2	Frame - Adjacent	11.0	450.0	1.1	513	Btuh
	Wall Total		3030.0		5518	Btuh

Doors	Type	Area	HTM	Load	
1	Wood - Exter	30.0	10.0	299	Btuh
2	Wood - Adjac	20.0	10.0	200	Btuh
	Door Total	50.0		499	Btuh

Ceilings	Type/Color	R-Value	Area	HTM	Load	
1	Under Attic/Dark	30.0	3734.0	1.4	5302	Btuh
	Ceiling Total		3734.0		5302	Btuh

Floors	Type	R-Value	Size	HTM	Load	
1	Slab-On-Grade Edge Insulation	0.0	365.0 ft(p)	0.0	0	Btuh
	Floor Total		365.0		0	Btuh

Infiltration	Type	ACH	Volume	CFM=	Load	
	Natural	0.70	44808	523.8	10371	Btuh
	Mechanical			0	0	Btuh
	Infiltration Total			524	10371	Btuh

Internal gain		Occupants		Btuh/occupant		Appliance	Load	
		9	X	300	+	5000	7700	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Curt & Cathy Cady
Rose Creek Plantations
Lake City, Fl 32056-

Project Title:
111201 Curt & Cathy Cady

Class 3 Rating
Registration No. 0
Climate: North

12/2/01

Totals for Cooling	**Subtotal**	**93859**	**Btuh**
	Duct gain(using duct multiplier of 0.10)	**9386**	**Btuh**
	Total sensible gain	**103245**	**Btuh**
	Latent infiltration gain (for 51 gr. humidity difference)	**18166**	**Btuh**
	Latent occupant gain (9 people @ 230 Btuh per person)	**2070**	**Btuh**
	Latent other gain	**0**	**Btuh**
	TOTAL GAIN	**123480**	**Btuh**

Key: Window types (SC - Shading coefficient of glass as SC numerical value or as clear or tint)
(U - Window U-Value 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)

Mark Disosway, P.E.
POB 868, Lake City, FL 32056, Ph 386-754-5419, Fax 386-754-6749

WIND LOAD ENGINEERING - SBC 1997, Section 1606 - 100 MPH Wind Speed – Exposure C - 1.0 Use Factor

CURT & CATHY CADY RESIDENCE - Plantations, Columbia Co., FL

Reference: Carmichael & Dame Designs, Inc., Owner is responsible for revision control .

Component	Description	Anchors, Connectors, Reinforcement *
Footings and Foundations		
Strip footing	24"Wx10"D poured concrete	2-#5 bars, continuous. Footing may be stepped for grade variations.
Concrete block stem wall	8"x8"x16" block, running bond, w/ header block, fully grouted.	#5 vertical dowel at corners and 96"OC max. Dowels w/ std hook in footing and slab. Max 5 courses; min 2 course.
Optional monolithic footing	12"Wx18"D monolithic poured concrete, widen to 24x24 at columns	2-#5 bars, continuous
Interior footing	16"Wx12"D monolithic, thickened slab (for point loads thickened slab column footing area = 2000 psf)	Linear footings, 2-#5 bars, continuous; Column footings, #5 at 10"OC each way. (Check truss engineering for interior bearing walls.)
Floor System	4" concrete, poured monolithic with stem wall grout.	6"x6"-1.4/1.4 welded wire mesh. 1-#5 bar, continuous, in slab edge / stem wall header.
Notes:	3000psi concrete. Grade40 bars 25"lap.	Embedded anchors in poured concrete; see applicable components.
Roof System		
Trusses / Girders	Wood trusses with engineering design provided by truss manufacturer.	Select hurricane clips based on truss engineering uplift reactions. Strap rafters to trusses with min uplift 450lb each end.

Uplift force, lb.	Top connector - Simpson≠			Bottom connector - Simpson≠	
≤ 415	H2.5	10 – 8d	415	No special connector required.	
≤ 750	H16 or HDPT1	6 – 10d, 1½"	750	No special connector required.	
≤ 905	H10	16 – 8d, 1½"	905	No special connector required.	
≤ 1250	H16 or HDPT1	10 – 10d, 1½"	1250	SPH4 w/10 – 10d, 1½"+ ½"AB	970
≤ 1245	HTS20	24 – 10d, 1½"	1245	LTT19 w/8 – 16d + ½"AB	1080
≤ 2490	2 - HTS20	24 – 10d, 1½"	2490	HD2A-2.5", 5/8"AB	2565
Uplift greater than 2500 lb requires engineering approval.					

Roof sheathing diaphragm.	7/16"OSB perpendicular to trusses	Nailed to roof framing with 8d common nails 6"OC edges, 12"OC field, 4"OC gable.
Shear Wall Segments		
Sole plate	2x4 PT pine bearing on foundation wall.	Anchor bolts 1/2"-A307 w/7"embedment, 1st -8"from corner, then 48"OC.

CERTIFICATION:
I hereby certify that the accompanying Wind Load Analysis for CURT & CATHY CADY RESIDENCE - Plantations, Columbia Co., FL demonstrates compliance with SBCCI "Standard Building Code", Section 1606, to the best of my knowledge.

Mark Disosway
27NOV01
Mark D. Disosway III

Component	Description	Anchors, Connectors, Reinforcement *
Studs	SPF No.1&2 at 16"OC (1-2x4 to 10', 2-2x4 to 12.5', 3-2x4 to 16.5'), 1-2x6 to 16', 2-2x6 to 21')	SP4 top and bottom at corners, openings, and 48"OC for Columbia County.
Double top plate	2 - 2x4 SPF No.1&2	Overlap splices 4'; nail splice with 2-16d common nails 12"OC.
Sheathing	7/16"OSB, 48"W placed vertically, continuous from top plate to sole plate.	8d common nails, 4"OC top, 4"OC bot, 4"OC edge, 8"OC field. (OSB must cover top plate or use LSTA9 or SP4 at 32"OC.)
NOTE: Special Type II shear wall in longitudinal direction only.	For longitudinal shear wall, front and rear elevation only, due to large window area and number of corners, there is insufficient shear wall with 3.5:1 aspect ratio. Therefore special blocking and strapping are required for wall segments <3'5" wide.	Provide solid blocking between all studs at window opening sill height and bottom of header height. Strap with CS20 installed on outside of sheathing from the sill of one opening to the sill of the next opening (and header to header). Nail ends of strap to sill (or header or wrap jack studs at door openings) with 7-10d nails and 6"OC along strap. Straps around inside corners should be applied to inside of wall to maintain tension.
Other walls		
Exterior walls	Same as shear walls.	Same as shear walls.
Interior load bearing walls	2x4 SPF No.1&2 at 16"OC, PT pine sole plate.	SP2 top and SP1 bottom of stud 32"OC provides 265 plf uplift of wall (for up to 485 plf apply SP1&2 16"OC). Anchor bolts, 1/2"-A307 w/7"embedment, 6"from ends, then 48"OC.
Headers with uplift Garage header, 3.12x12.375 24F-V3SP for <600 plf truss load.	Header design per SBC. Cd=1.25, Cr=1.1, SYP#2; E=1.6; 2x12, Fb=1340; 2x10 Fb=1440; 2x8 Fb=1650.	Select connectors for top and bottom of header studs based on truss manufacturer's engineered uplift reactions. End nail header to each header stud with 6 – 12d.*
	To determine uplift at each end of header, total uplifts for all trusses bearing on header and divide by 2. * (Example connectors table below.)	Uplift, lb. / Top connector / Bottom connector
		≤ 800 / End nail with 6 – 12d. / SP4, 6 – 10d / 690
		≤ 1500 / LSTA12 / 755 / 2 - SP4, 6–10d-1½",½"AB. / 1380
		≤ 1750 / 1-LSTA18 / 1055 / LTT20B-nail / 1750
		≤ 2500 / 2-LSTA18 / 2110 / HD2A-2.5" / 2565
		Uplift greater than 2500 lb requires engineering approval.
Cripples	2x4 SPF No.1&2 W/ 7/16"OSB	Sheathing nailing alone is adequate for uplift.
Porches		
Porch posts Lanai header, 2-2x12x11' SYP#2 for <460plf.	Typical 12" diameter load bearing column with 10'6" span	Select post anchors and hold down straps based on truss manufacturer's engineered uplift reactions. (Examples table below.)
		Uplift force, lb. / Anchors (for stated load) / Hurricane straps (for stated load)
		1055 / LTT19 / 1205 lb / LSTA18 / 1055 lb
		2110 / ABU44 / 2200 lb / 2xLSTA18 / 2110 lb
Porch beams	Beam design per SBC. 2x12x11' span is OK for <452plf vertical load.	Select connectors based on truss mfg's engineered uplift reactions. Verify truss vertical load on beam.

≠ Manufacturer and product number for connectors, anchors, and reinforcement are listed for example not endorsement. An equivalent device of the same or other manufacturer can be substituted for any devices listed in the example tables as long as it meets the required load capacities. Manufacturer's installation instructions must be followed to achieve rated loads.

* It is the builder's responsibility to provide a continuous load path from trusses to foundation.

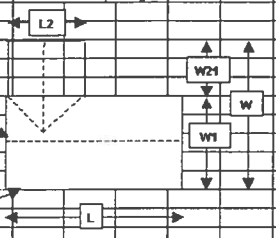
* Since truss engineering was not complete at the time of this analysis, it is the builder's responsibility to select uplift connections based on truss engineering uplift and provide footings for interior bearing walls identified on truss engineering. Builder is to furnish truss engineering to wind load engineer for review of truss reactions on the building structure.

* Since site conditions are not known at the time of this analysis, it is the builder's responsibility to verify soil and clean fill are

compacted to provide 2000 psf minimum bearing capacity.

Note: This report establishes the minimum requirements for wind load stability. It is the owner/builder's responsibility to provide materials and construction techniques, which comply with SBC requirements for the stated wind velocity.

111201			Project number
Curt & Cathy Cady Res			Project name
Curt Cady			Client
Columbia Co			Location
26-Nov-01			Date of data entry
100	mph		Wind Speed
1			Use factor
Enclosed			Degree of enclosure
Permanent			Permanent or relocatable building
New residence			Type of building
1			One or Two story building
L-shaped			General shape of building (show diagram)
Hip			Gable end or Hip
98 1	ft		L, Length, parallel to ridge, along bearing walls out to out of studs
	ft		L2, "L" stem
48 0	ft		W1, Width, perpendicular to ridge, along end walls
30 0	ft		W2, "L" stem
12 0	12		Roof slope
1 5	ft		Roof overhang, end wall
1 5	ft		Roof overhang, long wall
2 0	ft		Normal truss spacing
2 0	ft		Normal gable end rake overhang outlooker spacing
12 0	ft		Normal height of exterior walls
16	in		Normal stud spacing



10 5	ft		Eave height, end wall
10 5	ft		Eave height, long wall
45 0	deg		Roof slope
25 7	ft		Mean roof height 33ft max
23 8	psf		Velocity pressure
4.8	ft		Edge strip width

Wind perpendicular to the ridge shearwall analysis

Wind pressure based on MWFRS coeff, SBC 1999, Fig 1606.2B

	Zone	1E	2E	3E	4E	1	2	3	4	OvrHng
GCp coefficient		0 6	0 1	-0 8	-0.75	0 45	0 05	-0.7	-0 65	-1 5

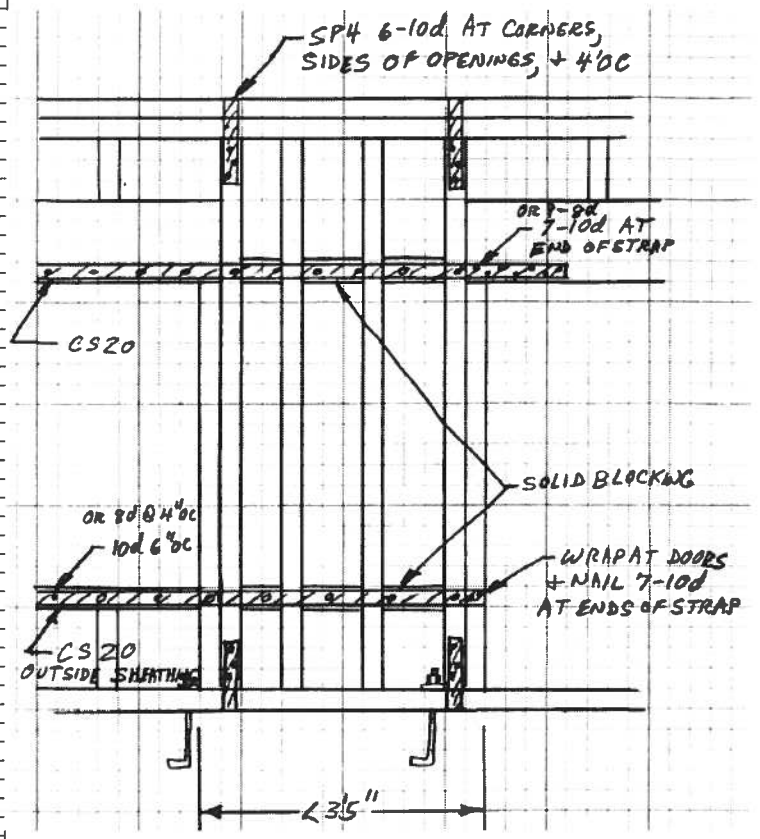
1400	ft2	Vertical projection of roof
38885	**lb**	**Transverse Wind Force at Top of Wall**
16	"OC	Wall studs spacing
SPF No1&2		Wall stud framing lumber
7/16" OSB		Wall shear siding material - All edges nailed
8d Common		Fasteners
4	"OC	Fastener edge spacing
8	"OC	Fastener interior spacing
5d 7"OC edge, 1/2" gyp		5d
590	plf	Allowable unit shear on shearwalls
65.9	**ft**	**MINIMUM REQUIRED TOTAL SHEARWALL LENGTH**
92.8	**ft**	**Actual transverse shearwalls**
317	plf	Allowable unit shear on roof diaphragm
123	ft	Minimum required total dragstrut length
142	ft	Actual endwalls dragstrut
OK	SBC	Code compliance

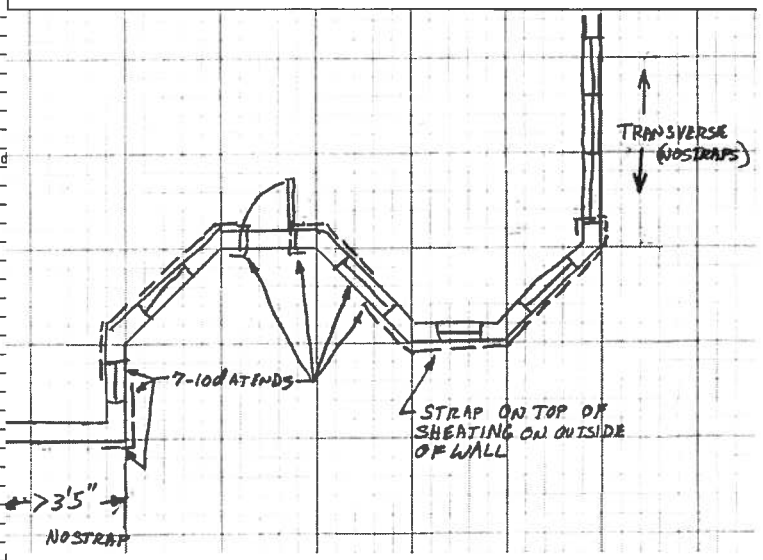
Wind parallel to the ridge shearwall analysis

Wind pressure based on MWFRS coeff, SBC 1999, Table1606.2C

	Zone	2E	3E	5E	6E	2	3	5	6
GCp coefficient			-0.4	0 9	-0 3	-0.6	-0 25	0 65	-0 15

1106	ft2	Vertical projection of roof
26377	**lb**	**Longitudinal Wind Force at Top of Wall**
16	"OC	Wall studs spacing
SPF No1&2		Wall stud framing lumber
7/16" OSB		Wall shear siding material - All edges nailed
8d Common		Fasteners
4	"OC	Fastener edge spacing
8	"OC	Fastener interior spacing
5d 7"OC edge, 1/2" gyp		5d
590	plf	Allowable unit shear on shearwalls
Type II ShearWall **44.7**	**ft**	**MINIMUM REQUIRED TOTAL SHEARWALL LENGTH**
Reduction = 1.8 **54**	**ft**	**Actual longitudinal shearwalls (98' / 1.8 = 54')**
317	plf	Allowable unit shear on roof diaphragm
83	ft	Minimum required total dragstrut length
196 2	ft	Actual sidewalls dragstrut
OK	SBC	Code compliance





DATE 12/10/2001

Columbia County
Building Permit / Application

This Permit Expires One Year From Date of Issue

PERMIT
000019032
New Resident N

Get Plans for Adam Papka 623-2383

APPLICANT CURT CADY PHONE 386-752-8434

ADDRESS POB 123 LAKE CITY FL 32056-0123

OWNER CURT & KATHIE CADY PHONE SAME

ADDRESS SAME SAME FL SAME

CONTRACTOR OWNER BUILDER PHONE SAME

LOCATION OF PROPERTY 47-S TO WALTER LITTLE RD, L, 2 MILES ON THE LEFT
TO S/D.(STAY ON MAIN ROAD @ THE END OF THE CUL-DE-SAC.

TYPE DEVELOPMENT SFD,SEPTIC,UTILITY ESTIMATED COST OF CONSTRUCTION 112020.00

FLOOR AREA 3734.00 TOTAL AREA 4903.00 HEIGHT 33.00 STORIES 1 WALLS FRAMED

FOUNDATION CONC ROOF (Type & Pitch) 7'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

MINIMUM SET BACK: STREET-FRONT / SIDE 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE OUT CERT. DATE DEV. PERMIT

Called 6/23/14, left message

LEGAL DESCRIPTION

PARCEL ID 12-5S-16-03406-117 SUBDIVISION ROSE CREEK PLANTATION

BLOCK LOT 17 UNIT 2

I certify that all work will be performed to meet the standards of all laws regulating construction in this jurisdiciton and that all foregoing information is accurate and all work will be done in compliance with all applicable laws regulating construction and zoning.

18"X32'MITERED		OWNER	Curt D. Cady
Driveway Connection	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor

01-0937-N	JLW	RK
Septic Tank Number	LU & Zoning checked by	Approved for Issuance

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

Under slab rough-in plumbing _____ date/app. by slab _____ date/app. by framing _____ date/app. by

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

Electrical rough-in _____ date/app. by Heat and Air Duct _____ date/app. by Peri. beam _____ date/app. by

Permanent power _____ date/app. by Final _____ date/app. by Pool _____ date/app. by

COMMENTS: CHECK NUMBER 8251

OTHER TYPES OF INSPECTIONS

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

Utility Pole Pump pole Reconnection