

# Residential System Sizing Calculation

## Summary

Decker, Dan & Jeanne

Project Title:  
1104033

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

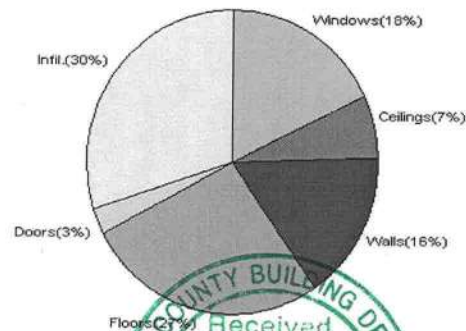
4/26/2011

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
<b>Total heating load calculation</b>	<b>27377</b>	<b>Btuh</b>	<b>Total cooling load calculation</b>	<b>21901</b>	<b>Btuh</b>
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.9	32000	Sensible (SHR = 0.75)	142.1	24000
Heat Pump + Auxiliary(0.0kW)	116.9	32000	Latent	159.5	8000
			Total (Electric Heat Pump)	146.1	32000

## WINTER CALCULATIONS

Winter Heating Load (for 1420 sqft)

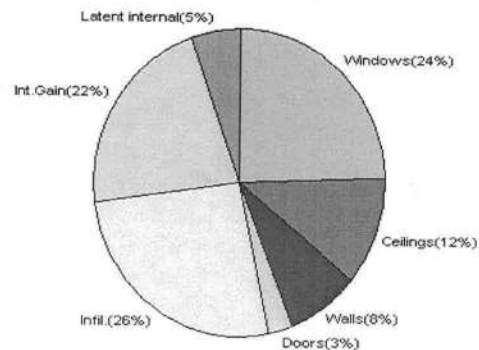
Load component		Load	
Window total	154 sqft	4941	Btuh
Wall total	1317 sqft	4323	Btuh
Door total	60 sqft	777	Btuh
Ceiling total	1530 sqft	1803	Btuh
Floor total	170 sqft	7422	Btuh
Infiltration	200 cfm	8110	Btuh
Duct loss		0	Btuh
<b>Subtotal</b>		<b>27377</b>	<b>Btuh</b>
Ventilation	0 cfm	0	Btuh
<b>TOTAL HEAT LOSS</b>		<b>27377</b>	<b>Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 1420 sqft)

Load component		Load	
Window total	154 sqft	5355	Btuh
Wall total	1317 sqft	1687	Btuh
Door total	60 sqft	588	Btuh
Ceiling total	1530 sqft	2534	Btuh
Floor total		0	Btuh
Infiltration	104 cfm	1942	Btuh
Internal gain		4780	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
<b>Total sensible gain</b>		<b>16886</b>	<b>Btuh</b>
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		3814	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
<b>Total latent gain</b>		<b>5014</b>	<b>Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>21901</b>	<b>Btuh</b>



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: \_\_\_\_\_

DATE: 4/26/11



# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Decker, Dan & Jeanne

Project Title:  
1104033

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

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

4/26/2011

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, SHGC=0.3, Metal, 0.87	NW	75.0		32.2	2414 Btuh
2	2, SHGC=0.3, Metal, 0.87	NW	20.0		32.2	644 Btuh
3	2, SHGC=0.3, Metal, 0.87	NE	15.0		32.2	483 Btuh
4	2, SHGC=0.3, Metal, 0.87	NE	6.0		32.2	193 Btuh
5	2, SHGC=0.3, Metal, 0.87	SE	30.0		32.2	966 Btuh
6	2, SHGC=0.3, Metal, 0.87	SW	7.5		32.2	241 Btuh
Window Total			154(sqft)			4941 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Face Brick - Wood - Ext(0.09)	13.0	1125		3.3	3693 Btuh
2	Frame - Wood - Adj(0.09)	13.0	192		3.3	631 Btuh
Wall Total			1317			4323 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
3	Insulated - Exterior		20		12.9	259 Btuh
Door Total			60			777Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1530		1.2	1803 Btuh
Ceiling Total			1530			1803Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	170.0 ft(p)		43.7	7422 Btuh
Floor Total			170			7422 Btuh
Zone Envelope Subtotal:						19267 Btuh
Infiltration	Type	ACH	Zone Volume		CFM=	Load
	Natural	0.94	12780		200.2	8110 Btuh
Ductload	Partially sealed, R6.0, Supply(Attic), Return(NoDucts) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					27377 Btuh

### WHOLE HOUSE TOTALS

	Subtotal Sensible	27377 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27377 Btuh





# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Decker, Dan & Jeanne

Project Title:  
1104033

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear ( )  
(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 )



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# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

Decker, Dan & Jeanne

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Lake City, FL

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

4/26/2011

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

### Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, SHGC=0.3, Metal, 0.87	NW	75.0	32.2	2414 Btuh
2	2, SHGC=0.3, Metal, 0.87	NW	20.0	32.2	644 Btuh
3	2, SHGC=0.3, Metal, 0.87	NE	15.0	32.2	483 Btuh
4	2, SHGC=0.3, Metal, 0.87	NE	6.0	32.2	193 Btuh
5	2, SHGC=0.3, Metal, 0.87	SE	30.0	32.2	966 Btuh
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1	Face Brick - Wood - Ext(0.09)	13.0	1125	3.3	3693 Btuh
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Wall Total			1317		4323 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
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Door Total			60		777 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1530	1.2	1803 Btuh
Ceiling Total			1530		1803 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	170.0 ft(p)	43.7	7422 Btuh
Floor Total			170		7422 Btuh
Zone Envelope Subtotal:					19267 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.94	12780	200.2	8110 Btuh
Ductload	Partially sealed, R6.0, Supply(Attic), Return(NoDucts) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				27377 Btuh

### WHOLE HOUSE TOTALS

	Subtotal Sensible	27377 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27377 Btuh



# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Decker, Dan & Jeanne

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Lake City, FL

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear ( )  
(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 )



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# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Decker, Dan & Jeanne

Project Title:  
1104033

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

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

4/26/2011

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

### 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, SHGC=0.3, 0.87, None,N,N	NW	1.5ft	7ft.	75.0	0.0	75.0	21	35	2629	Btuh
2	2, SHGC=0.3, 0.87, None,N,N	NW	11.5f	8ft.	20.0	0.0	20.0	21	35	701	Btuh
3	2, SHGC=0.3, 0.87, None,N,N	NE	1.5ft	7ft.	15.0	0.0	15.0	21	35	526	Btuh
4	2, SHGC=0.3, 0.87, None,N,N	NE	1.5ft	5ft.	6.0	0.0	6.0	21	35	210	Btuh
5	2, SHGC=0.3, 0.87, None,N,N	SE	1.5ft	7ft.	30.0	3.1	26.9	21	36	1038	Btuh
6	2, SHGC=0.3, 0.87, None,N,N	SW	1.5ft	5ft.	7.5	1.3	6.2	21	36	252	Btuh
Window Total					154 (sqft)					5355 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Face Brick - Wood - Ext	13.0/0.09			1124.5			1.2		1397 Btuh	
2	Frame - Wood - Adj	13.0/0.09			192.0			1.5		290 Btuh	
Wall Total						1317 (sqft)					1687 Btuh
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
3	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total						60 (sqft)					588 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1530.0			1.7		2534 Btuh	
Ceiling Total						1530 (sqft)					2534 Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			170 (ft(p))			0.0		0 Btuh	
Floor Total						170.0 (sqft)					0 Btuh
Zone Envelope Subtotal:										10164 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.49			12780			104.4		1942 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			3400		4780 Btuh		
Duct load	Partially sealed, R6.0, Supply(Attic), Return(NoDucts)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										16886 Btuh	





# Manual J Summer Calculations

## Residential Load - Component Details (continued)

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Project Title:  
1104033

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

4/26/2011

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>16886 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>16886 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>16886 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	3814 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>5014 Btuh</b>
	<b>TOTAL GAIN</b>	<b>21901 Btuh</b>

\*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)



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# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

Decker, Dan & Jeanne

Project Title:  
1104033

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

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

4/26/2011

### 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, SHGC=0.3, 0.87, None,N,N	NW	1.5ft	7ft.	75.0	0.0	75.0	21	35	2629	Btuh
2	2, SHGC=0.3, 0.87, None,N,N	NW	11.5f	8ft.	20.0	0.0	20.0	21	35	701	Btuh
3	2, SHGC=0.3, 0.87, None,N,N	NE	1.5ft	7ft.	15.0	0.0	15.0	21	35	526	Btuh
4	2, SHGC=0.3, 0.87, None,N,N	NE	1.5ft	5ft.	6.0	0.0	6.0	21	35	210	Btuh
5	2, SHGC=0.3, 0.87, None,N,N	SE	1.5ft	7ft.	30.0	3.1	26.9	21	36	1038	Btuh
6	2, SHGC=0.3, 0.87, None,N,N	SW	1.5ft	5ft.	7.5	1.3	6.2	21	36	252	Btuh
Window Total					154 (sqft)					5355 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Face Brick - Wood - Ext	13.0/0.09			1124.5			1.2		1397 Btuh	
2	Frame - Wood - Adj	13.0/0.09			192.0			1.5		290 Btuh	
Wall Total						1317 (sqft)					1687 Btuh
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
3	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total						60 (sqft)					588 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1530.0			1.7		2534 Btuh	
Ceiling Total						1530 (sqft)					2534 Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			170 (ft(p))			0.0		0 Btuh	
Floor Total						170.0 (sqft)					0 Btuh
	Zone Envelope Subtotal:									10164 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.49			12780			104.4		1942 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			3400		4780 Btuh		
Duct load	Partially sealed, R6.0, Supply(Attic), Return(NoDucts)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									16886 Btuh	



# Manual J Summer Calculations

## Residential Load - Component Details (continued)

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Project Title:  
1104033

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

4/26/2011

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>16886 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>16886 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>16886 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	3814 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>5014 Btuh</b>
	<b>TOTAL GAIN</b>	<b>21901 Btuh</b>

\*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)



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# Residential Window Diversity

## MidSummer

Decker, Dan & Jeanne

Project Title:  
1104033

Lake City, FL

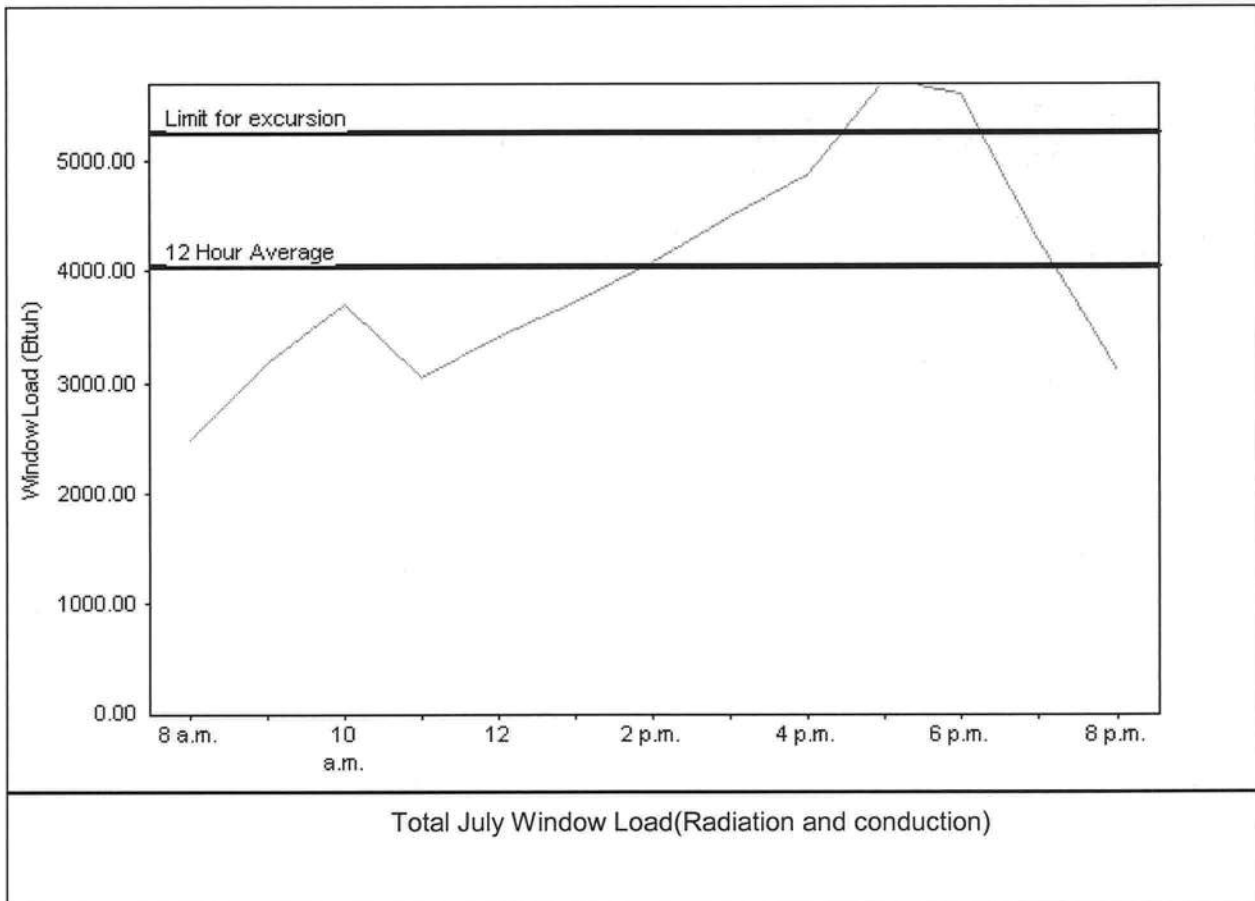
Class 3 Rating  
Registration No. 0  
Climate: North

4/26/2011

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	4045 Btuh
Summer setpoint	75 F	Peak window load for July	5730 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	5259 Btuh
Latitude	29 North	Window excursion (July)	471 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: \_\_\_\_\_

DATE: 4/26/11

EnergyGauge® FLR2PB v4.1





PROJECT NAME: AND ADDRESS:	1104033	BUILDER: BRYAN ZECHER CONSTRUCTION
	LOT #9 BROTHERS WELLS, LAKE CITY, FL	PERMITTING OFFICE:
OWNER: DELKER	PERMIT NO.: [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	CLIMATE ZONE: 1 [ ] 2 [ ] 3 [ ]
		JURISDICTION NO.: [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Please Type

CK

- New construction or addition
- Single-family detached or Multiple-family attached
- If Multiple-family-No. of units covered by this submission
- Is this a worst case? (yes/no)
- Conditioned floor area (sq. ft.)
- Predominant eave overhang (ft.)
- Glass type<sup>1</sup> and area: (Label required by 13-104.4.5 if not default)
  - U-factor: (or Single- or Double-Pane DEFAULT)
  - SHGC: (or Clear or Tint DEFAULT)
- Floor type and insulation:
  - Slab-on-grade (R-value + perimeter)
  - Wood, raised (R-value + sq. ft.)
  - Concrete, raised (R-value)
- Net wall type, area and insulation:
  - Exterior:
    - Concrete block (Insulation R-value)
    - Wood frame (Insulation R-value)
    - Steel frame (Insulation R-value)
    - Log (Insulation R-value)
    - Other: WOOD BRICK FACE
  - Adjacent:
    - Concrete block (Insulation R-value)
    - Wood frame (Insulation R-value)
    - Steel frame (Insulation R-value)
    - Log (Insulation R-value)
- Ceiling type, area and insulation:
  - Under attic (Insulation R-value)
  - Single assembly (Insulation R-value)
  - Radiant barrier, IRCC or white roof installed?
- Air distribution system:
  - Ducts (Insulation + Location)
  - Air Handler (Location)
- Cooling system:  
(Types: central-split, central-single pkg., room unit, PTAC, gas, none)
- Heating system:  
(Types: heat pump, elec. strip, nat. gas, LP gas, gas h.p., room or PTAC, none)
- Hot water system:  
(Types: elec., natural gas, solar, LP gas, none)
- Hot water credits
  - Heat Recovery (HR)
  - Dedicated Heat Pump (DHP)
  - Solar
- HVAC Credits  
(Use: CF-ceiling fan, CV-cross vent, PT-programmable thermostat, HF-whole house fan, MZ-Multizone)
- COMPLIANCE STATUS: (PASS if As-Built Pts. are less than Base Pts.)
  - Total As-Built points
  - Total Base points



- NEW
- SINGLE
- 
- YES
- 1420 sq. ft.
- 1.5 ft.
- DOUBLE-0.9 75 sq. ft.
- SHGC = .3 1535 sq. ft.
- R = , 170 l. ft.
- R = , sq. ft.
- R = , sq. ft.
- 9a-1 R = 13 , 1125 sq. ft.
- 9a-2 R = , sq. ft.
- 9a-3 R = , sq. ft.
- 9a-4 R = , sq. ft.
- 9b-1 R = , sq. ft.
- 9b-2 R = 13 , 192 sq. ft.
- 9b-3 R = , sq. ft.
- 9b-4 R = , sq. ft.
- 10a. R = 30 , 1530 sq. ft.
- 10b. , sq. ft.
- 10c. ,
- 11a. R = 6 , ATTIC (cond./uncond.)
- 11b. R = , INT. (cond./uncond.)
- 12a. Type: CENTRAL
- 12b. SEER/EER/COP: 13
- 12c. Capacity: 32 KBTHU
- 13a. Type: HEAT PUMP
- 13b. HSPF/COP/AFUE: 7.9
- 13c. Capacity: 32 KBTHU
- 14a. Type: ELEC
- 14b. EF: 94
- 15a. ,
- 15b. ,
- 15c. ,
16. PT
- PASS
- 17a. 17938 17b. 17934

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

PREPARED BY: EVAN DEANSLEY DATE: 7/26/11

I hereby certify that this building is in compliance with the Florida Energy Code:

OWNER AGENT: DATE:

Review of 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 in accordance with Section 553.908, F.S.

BUILDING OFFICIAL:

DATE:

<sup>1</sup> Predominant glass type. For actual glass type and areas, see summer and winter glass output on Pages 2 and 4.









**6A-1 SUMMER OVERHANG FACTORS (SOF) FOR SINGLE-AND DOUBLE-PANE GLASS**

SELECT BY OR	OH Ratio	.00-.11	.12-.17	.18-.26	.27-.35	.36-.46	.47-.57	.58-.70	.71-.83	.84-1.18	1.19-1.72	1.73-2.73	2.74 & up
	North	1.00	0.993	0.971	0.930	0.888	0.842	0.803	0.766	0.736	0.681	0.634	0.593
	Northeast	1.00	0.996	0.967	0.907	0.845	0.775	0.717	0.662	0.619	0.545	0.487	0.441
	East	1.00	0.994	0.963	0.898	0.827	0.745	0.675	0.609	0.558	0.470	0.405	0.357
	Southeast	1.00	0.998	0.952	0.864	0.777	0.689	0.623	0.566	0.525	0.459	0.413	0.379
	South	1.00	0.989	0.931	0.835	0.751	0.675	0.620	0.575	0.543	0.493	0.458	0.432
	Southwest	1.00	0.998	0.953	0.866	0.779	0.691	0.623	0.565	0.522	0.453	0.404	0.368
	West	1.00	0.994	0.963	0.899	0.828	0.748	0.681	0.617	0.569	0.485	0.422	0.375
	Northwest	1.00	0.996	0.968	0.913	0.858	0.797	0.748	0.702	0.667	0.605	0.556	0.516
	OH Length	0.0'	1.0'	1.5'	2.0'	3.0'	3.5'	4.5'	5.5'	6.5'	9.5'	14.0'	20.0'

**6A-2 WALL SUMMER POINT MULTIPLIERS (SPM)**

FRAME					CONCRETE BLOCK (NORMAL WT)				FACE BRICK				LOG		
					INTERIOR INSULATION			EXT. INSUL.	R-VALUE	WOOD FR	R-VALUE	BLOCK			
R-VALUE	EXT	ADJ	EXT	ADJ	R-VALUE	EXT	ADJ	EXT	0-6.9	2.4	0-2.9	1.0	R-VALUE	EXT	EXT
0-6.9	5.5	2.2	7.6	2.8	0-2.9	2.2	1.1	2.2	7-10.9	.6	3-6.9	.6	0-2.9	1.5	1.0
7-10.9	2.1	.8	3.5	1.3	3-4.9	1.3	.8	.8	11-18.9	.4	7-9.9	.4	3-6.9	1.0	.7
11-12.9	1.7	.7	2.7	1.0	5-6.9	1.0	.7	.5	19-25.9	.2	10 & UP	.2	7 & UP	.8	.8
13-18.9	1.5	.6	2.5	0.9	7-10.9	.7	.5	.3	26 & UP	.1					
19-25.9	.9	.4	2.2	0.8	11-18.9	.4	.4	0							
26 & UP	.6	.2	1.2	0.4	19-25.9	.2	.2								
					26 & UP	.1	.1								

**6A-3 DOOR SUMMER POINT MULTIPLIERS (SPM)**

DOOR TYPE	EXTERIOR	ADJACENT
WOOD	6.1	2.4
INSULATED	4.1	1.6

**6A-4 CEILING SUMMER POINT MULTIPLIERS (SPM)**

UNDER ATTIC		SINGLE ASSEMBLY		CONCRETE DECK ROOF		
R-VALUE	SPM	R-VALUE	SPM	CEILING TYPE		
19-21.9	2.34	10-10.9	8.49	R-VALUE	EXPOSED	DROPPED
22-25.9	2.11	11-12.9	7.97	10-13.9	9.13	8.47
26-29.9	1.89	13-18.9	7.14	14-20.9	6.80	6.45
30-37.9	1.73	19-25.9	5.64	21 & UP	4.92	4.63
38 & UP	1.52	26-29.9	4.75			
RBS Credit	0.700	30 & UP	4.40			
IRCC Credit	0.849					
White Roof Credit	0.550					

**6A-5 FLOOR SUMMER POINT MULTIPLIERS (SPM)**

SLAB-ON-GRADE EDGE INSULATION		RAISED CONCRETE		RAISED WOOD			
R-VALUE	SPM	R-VALUE	SPM	POST OR PIER CONSTRUCTION	STEM WALL w/UNDER FLOOR INSULATION	ADJACENT	
0-2.9	-41.2	0-2.9	-.8	0-6.9	2.80	-4.7	2.2
3-4.9	-37.2	3-4.9	-1.3	7-10.9	1.34	-2.3	.8
5-6.9	-36.2	5-6.9	-1.3	11-18.9	1.06	-1.9	.7
7 & UP	-35.7	7 & UP	-1.3	19 & UP	.77	-1.5	.4

**6A-6 INFILTRATION & INTERNAL GAINS (SPM)**

Air Infiltration	3.44
Internal Gains	+6.77
Infiltration/Internal Gains (Combined)	10.21

**6A-7 AIR HANDLER MULTIPLIERS (SPM)**

Located in garage	1.00
Located in conditioned area	0.91
Located on exterior of building	1.02
Located in attic	1.11

**6A-8 DUCT MULTIPLIERS (DM)**

SUPPLY DUCTS IN:	DUCT R-VALUE	RETURN DUCTS IN:				
		Unconditioned space	Attic/ RBS	Attic/ IRCC	Attic/ Cool roof	Conditioned space
Unconditioned Space	4.2	1.118	1.111	1.112	1.089	1.107
	6.0	1.090	1.084	1.085	1.066	1.081
	8.0	1.071	1.066	1.067	1.051	1.064
Attic/Radiant Barrier (RBS)	4.2	1.072	1.066	—	—	1.061
	6.0	1.056	1.051	—	—	1.047
	8.0	1.045	1.041	—	—	1.037
Attic/Interior Radiation Control Coatings (IRCC)	4.2	1.099	—	1.092	—	1.084
	6.0	1.076	—	1.071	—	1.065
	8.0	1.061	—	1.057	—	1.052
Attic/Cool Roof	4.2	1.068	—	—	1.096	1.057
	6.0	1.051	—	—	1.071	1.043
	8.0	1.040	—	—	1.055	1.034
Conditioned Space	4.2	1.006	1.005	1.007	1.008	1.000
	6.0	1.005	1.004	1.005	1.006	1.000
	8.0	1.004	1.003	1.004	1.005	1.000

**6A-9 COOLING SYSTEM MULTIPLIERS (CSM)**

SYSTEM TYPE		COOLING SYSTEM MULTIPLIERS (CSM)									
Central Units (SEER)	Rating		7.5-7.9	8.0-8.4	8.5-8.8	8.9-9.4	9.5-9.9	10.0-10.4	10.5-10.9	11.0-11.4	11.5-11.9
	CSM		.45	.43	.40	.38	.36	.34	.32	.31	.30
PTAC & Room Units (EER)	Rating	12.5-12.9	13.0-13.4	13.5-13.9	14.0-14.4	14.5-14.9	15.0-15.4	15.5-15.9	16.0-16.4	16.5-16.9	17.0-17.4
	CSM	.27	.26	.25	.24	.24	.23	.22	.21	.21	.20









**6A-10 WINTER OVERHANG FACTORS (WOF)**

SELECT BY OR	OH Ratio	.00-.11	.12-.17	.18-.26	.27-.35	.36-.46	.47-.57	.58-.70	.71-.83	.84-1.18	1.19-1.72	1.73-2.73	2.74 & up
	North	1.00	1.000	1.001	1.003	1.005	1.009	1.011	1.014	1.016	1.021	1.024	1.027
	Northeast	1.00	0.996	1.001	1.008	1.015	1.023	1.029	1.035	1.040	1.049	1.056	1.061
	East	1.00	1.007	1.018	1.040	1.069	1.109	1.150	1.198	1.242	1.338	1.429	1.507
	Southeast	1.00	1.014	1.043	1.111	1.202	1.332	1.472	1.635	1.787	2.113	2.412	2.650
	South	1.00	0.994	1.032	1.142	1.308	1.563	1.845	2.175	2.471	3.042	3.450	3.681
	Southwest	1.00	1.006	1.025	1.070	1.131	1.217	1.308	1.413	1.508	1.708	1.888	2.031
	West	1.00	1.002	1.010	1.027	1.049	1.077	1.102	1.128	1.149	1.187	1.217	1.238
	Northwest	1.00	0.999	1.000	1.004	1.008	1.012	1.016	1.019	1.022	1.028	1.032	1.036
	OH Length	0.0'	1.0'	1.5'	2.0'	3.0'	3.5'	4.5'	5.5'	6.5'	9.5'	14.0'	20.0'

**6A-11 WALL WINTER POINT MULTIPLIERS (WPM)**

FRAME					CONCRETE BLOCK (NORMAL WT)				FACE BRICK				LOG		
									R-VALUE	WOOD FR	R-VALUE	BLOCK			
WOOD		STEEL			INTERIOR INSULATION			EXT. INSUL.	0-6.9	12.6	0-2.9	7.9	6 INCH	8 INCH	
R-VALUE	EXT	ADJ	EXT	ADJ	R-VALUE	EXT	ADJ	EXT	7-10.9	4.2	3-6.9	5.7	R-VALUE	EXT	EXT
0-6.9	11.1	10.4	15.1	13.1	0-2.9	11.2	6.8	11.2	11-18.9	3.5	7-9.9	3.8	0-2.9	4.5	3.0
7-10.9	4.4	4.4	7.3	6.6	3-4.9	7.3	5.1	5.6	19-25.9	2.2	10 & UP	3.0	3-6.9	2.8	2.2
11-12.9	3.7	3.6	5.7	5.2	5-6.9	5.7	4.2	4.3	26 & UP	1.4			7 & UP	2.1	1.7
13-18.9	3.4	3.3	5.2	4.9	7-10.9	4.6	3.5	3.3							
19-25.9	2.2	2.2	4.6	4.4	11-18.9	3.0	2.6	2.2							
26 & Up	1.5	1.5	2.7	2.6	19-25.9	1.9	1.7								
					26 & UP	1.3	1.2								



**6A-19 COOLING CREDIT MULTIPLIERS**

SYSTEM TYPE	Cooling credit multipliers (CCM)
Ceiling Fans	.95*
Cross Ventilation	.95*
Whole House Fan	.95*
Multizone	.95
Programmable Thermostat	.95

\*Credit may be taken for only one system type concurrently.

**6A-20 AIR DISTRIBUTION SYSTEM CREDIT MULTIPLIERS**

TYPE CREDIT	Prescriptive requirements	Multiplier
Air-tight Duct Credit <sup>1</sup>	Appx G-C5.2.2.1.1	1.00
Factory-sealed AHU Credit <sup>2</sup>	Appx G-C5.2.2.1.2	0.95

<sup>1</sup>Duct Sealing Multiplier (DSM) shall be 1.15 (summer) or 1.17 (winter) unless Air-tight Duct Credit is demonstrated by test report.

<sup>2</sup>Multiply Factory-sealed AHU credit by summer (Table 6A-7) or winter (Table 6A-16) AHU multiplier. Insert total in the "As-Built AHU" box on page 2 or 4.

**6A-21 HEATING CREDIT MULTIPLIERS (HCM)**

SYSTEM TYPE	HEATING CREDIT MULTIPLIERS (HCM)	
Programmable Thermostat	HCM	.95
Multizone	HCM	.95

**6A-22 HOT WATER MULTIPLIERS (HWM)**

SYSTEM TYPE									
Electric Resistance	EF	.80-.81	.82-.83	.84-.85	.86-.87	.88-.90	.91-.93	.94-.96	.97 & Up
	HWM	3020	2946	2876	2809	2746	2655	2571	2491
Gas Water Heating	EF	.54	.55	.56	.57	.58	.59	.60	.61
	HWM	3020	2946	2876	2809	2746	2655	2571	2491
	EF	.62-.63	.64-.65	.66-.70	.71-.75	.76-.80	.81-.83	.84-.86	.87 & Up
	HWM	2346	2217	2101	1738	1456	1196	1055	933

**6A-23 HOT WATER CREDIT MULTIPLIERS (HWCM)**

SYSTEM TYPE		HOT WATER CREDIT MULTIPLIERS (HWCM)			
Heat Recovery Unit	With	Air Conditioner		Heat Pump	
	HWCM	.84		.78	
Add-on Dedicated Heat Pump (without tank)	EF	2.0-2.49	2.5-2.99	3.0-3.49	3.5 & Up
	HWCM	.44	.35	.29	.25
Add-on Solar Water Heater (without tank)	EF	1.0-1.9	2.0-2.9	3.0-3.9	4.0-4.9
	HWCM	.84	.42	.28	.21

NOTE: An HWM must be used in conjunction with all HWCM. See Table 6A-22. EF Means Energy Factor.

**6A-24 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Max: 3 cfm/sq. ft. window area; .5cfm/sq. ft. door area.	
Exterior & Adjacent Walls	N1106.AB.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; CFM utility penetrations; between wall panels & top/bottom plates; between walls & 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	N1106.AB.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joist members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	N1106.AB.1.2.3	Seal: 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	N1106.AB.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.	
Multiple Story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors; dampers; combustion space heaters comply with NFPA, have combustion air.	

**6A-25 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)**

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N1112.AB.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required for vertical pipe risers.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Noncommercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower Heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 psig.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section N1110. Ducts in unconditioned attics: R-6 minimum insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings—Min. R-19. Common walls—Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	





Double Pane: Default U-factor = 0.87									
Solar Heat Gain Coefficient	0.50-0.46	0.45-0.41	0.40-0.36	0.35-0.31	0.30-0.26	0.25-0.21	0.20-0.16	0.15-0	
Summer:									
N	12.854	10.866	8.906	6.923	4.942	2.988	1.036	-0.965	
NE	20.713	17.944	15.214	12.451	9.690	6.969	4.251	1.464	
E	30.171	26.442	22.764	19.039	15.315	11.643	7.971	4.206	
SE	30.708	26.929	23.201	19.425	15.650	11.926	8.202	4.381	
S	25.488	22.234	19.025	15.776	12.528	9.324	6.123	2.839	
SW	28.732	25.150	21.616	18.038	14.461	10.933	7.406	3.789	
W	27.481	24.019	20.605	17.147	13.692	10.283	6.876	3.382	
NW	17.981	15.477	13.007	10.506	8.007	5.543	3.081	0.556	
H	52.565	45.607	38.743	31.794	24.851	18.002	11.158	4.138	
Winter:									
N	25.735	26.095	26.448	26.805	27.160	27.508	27.856	28.210	
NE	24.963	25.398	25.825	26.257	26.688	27.112	27.534	27.966	
E	21.287	22.070	22.843	23.625	24.408	25.180	25.953	26.746	
SE	18.143	19.228	20.301	21.391	22.483	23.564	24.647	25.762	
S	17.052	18.238	19.413	20.607	21.805	22.991	24.180	25.405	
SW	19.729	20.674	21.608	22.557	23.509	24.451	25.394	26.366	
W	22.801	23.449	24.089	24.735	25.381	26.018	26.654	27.306	
NW	25.522	25.903	26.278	26.656	27.033	27.403	27.771	28.148	
H	23.141	24.181	25.213	26.263	27.319	28.365	29.416	30.499	



**ESTIMATED ENERGY PERFORMANCE INDEX\***  
The lower the Energy Performance Index, the more efficient the home.

1. New Home or addition	NEW	11. Ducts, Location & Insulation Level	
2. Single family or multiple family	SINGLE	a. Supply ducts: ATTIC	R- 6
3. Number of units, (if multi-family)		b. Return ducts: COND	R- 6
4. Number of bedrooms	3	12. Cooling systems	Capacity: 32 KBTU
5. Is this a worst case? (yes or no)	YES	a. Split system	SEER: 13
6. Conditioned floor area	1420 sq. ft.	b. Single package	SEER: 15
7. Glass type & area		c. Ground/water source	COP: _____
a. U-Factor: .14	75 sq. ft.	d. Room unit	EER: _____
(Or single or double Default)	153.5 sq. ft.	e. PTAC	EER: _____
b. SHGC: .3	sq. ft.	f. Gas-driven	COP: _____
(Or clear or tint Default)	sq. ft.	13. Heating Systems	Capacity: 32 KBTU
8. Floor types, Insulation level		a. Split system heat pump	HSPE: 7.9
a. Slab-on-grade, edge insulation	R- 0	b. Single package heat pump	HSPE: _____
b. Wood, raised	R- _____	c. Electric resistance	COP: _____
c. Concrete, raised	R- _____	d. Gas furnace, natural gas	AFUE: _____
9. Wall types, Insulation level		e. Gas furnace, LPG	AFUE: _____
Exterior		f. Gas-driven heat pump	Recov. EFF.: _____
a. Wood frame	R- _____	14. Water heating systems	
b. Metal frame	R- _____	a. Electric resistance	EF: .94
c. Concrete block	R- _____	b. Gas fired, natural gas	EF: _____
d. Log	R- _____	c. Gas fired, LPG	EF: _____
e. Other BRICKFACE WOOD	R- 13	d. Solar System with tank	EF: _____
Adjacent		e. Dedicated heat pump with tank	EF: _____
a. Wood frame	R- 13	f. Heat recovery unit	HeatRec% _____
b. Metal frame	R- _____	g. Other: _____	
c. Concrete block	R- _____	15. HVAC credits claimed (Alternate	
d. Log	R- _____	Point System Method only)	
e. Other	R- _____	a. Ceiling fans	
10. Ceiling types, Insulation level		b. Cross ventilation	
a. Under attic	R- 30	c. Whole house fan	
b. Single assembly	R- _____	d. Multizone cooling credit	
c. Knee walls/skylight walls	R- _____	e. Multizone heating credit	
d. Radiant barrier installed	R- _____	f. Programmable thermostat	✓

I certify that this home has complied with the Florida Energy Efficiency Code For Building 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:

Address of New Home:

Date: 8/9/11

City/FL Zip

1907 SW Sisters Welborn Rd

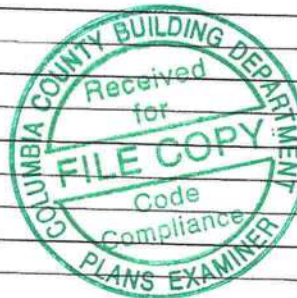
LC, FL 32085



# **PRODUCT APPROVAL SPECIFICATION SHEET**

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products.

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>1. EXTERIOR DOORS</b>			
A. SWINGING	MASONIC FIBERGLASS	THERMATRU	FL 4668.1/88.38
B. SLIDING			
C. SECTIONAL			
D. ROLL UP			
E. AUTOMATIC			
F. OTHER			
<b>2. WINDOWS</b>			
A. SINGLE HUNG	VISION/VEATIRA	PG-T	SH FL 13.78.3
B. HORIZONTAL SLIDER	VISION/VEATIRA	PG-T	PW FL 1385.3
C. CASEMENT			
D. DOUBLE HUNG			
E. FIXED	C/I		FL 681/FL 1385-R
F. AWNING			
G. PASS THROUGH			
H. PROJECTED			
I. MULLION			
J. WIND BREAKER			
K. DUAL ACTION			
L. OTHER			
<b>3. PANEL WALL</b>			
A. SIDING	HARDIPLANK		
B. SOFFITS	ASHLEY ALUMINUM		
C. EIFS			
D. STOREFRONTS			
E. CURTAIN WALLS			
F. WALL LOUVER			
G. GLASS BLOCK			
H. MEMBRANE			
I. GREENHOUSE			
J. OTHER			
<b>4. ROOFING PRODUCTS</b>			
A. ASPHALT SHINGLES			
B. UNDERLAYMENTS	FELT		FL 1814
C. ROOFING FASTENERS	NAILS		RDM 3378
D. NON-STRUCTURAL METAL ROOFING			
E. WOOD SHINGLES AND SHAKES			
F. ROOFING TILES			
G. ROOFING INSULATION			
H. WATERPROOFING			
I. BUILT UP ROOFING ROOF SYSTEMS			
J. MODIFIED BITUMEN			
K. SINGLE PLY ROOF			





SYSTEMS		
L. ROOFING SLATE		
M. CEMENTS-ADHESIVES COATINGS		

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
N. LIQUID APPLIED ROOF SYSTEMS			
O. ROOF TILE ADHESIVE			
P. SPRAY APPLIED POLYURETHANE ROOF			
Q. OTHER			
5. SHUTTERS	N/A		
A. ACCORDION			
B. BAHAMA			
C. STORM PANELS			
D. COLONIAL			
E. ROLL-UP			
F. EQUIPMENT			
G. OTHERS			
6. SKYLIGHTS	N/A		
A. SKYLIGHT			
B. OTHER			
7. STRUCTURAL COMPONENTS	N/A		
A. WOOD CONNECTORS/ ANCHORS			
B. TRUSS PLATES			
C. ENGINEERED LUMBER			
D. RAILING			
E. COOLERS-FREEZERS			
F. CONCRETE ADMIXTURES			
G. MATERIAL			
H. INSULATION FORMS			
I. PLASTICS			
J. DECK-ROOF			
K. WALL			
L. SHEDS			
M. OTHER			
8. NEW EXTERIOR ENVELOPE PRODUCTS	N/A		
A.			
B.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.





## Notice of Treatment

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**

Address: 53056 BAYVIEW AVE  
City: Lake City Phone: 752 1703

Site Location: Subdivision Cannon Creek Air Park  
Lot # 9 Block#            Permit # 29478 + 29477  
Address 1907 SW SIS WEL RD

<u>Product used</u>	<u>Active Ingredient</u>	<u>% Concentration</u>
<input checked="" type="checkbox"/> Premise	Imidacloprid	0.1%
<input type="checkbox"/> Termidor	Fipronil	0.12%
<input type="checkbox"/> Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment:

☒ Soil

☐ Wood

<u>Area Treated</u>	<u>Square feet</u>	<u>Linear feet</u>	<u>Gallons Applied</u>
<u>Dwelling</u>	<u>2207</u>	<u>230</u>	<u>180</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line

7/5/11  
Date

0800  
Time

James Parker (F254)  
Print Technician's Name

Remarks: Hanger to be done later

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05







**COLUMBIA COUNTY BUILDING DEPARTMENT  
RESIDENTIAL CHECK LIST REQUIREMENTS**

6-25-09

**MINIMUM PLAN REQUIREMENTS FOR THE  
FLORIDA BUILDING CODE RESIDENTIAL 2007 EFFECTIVE 1 MARCH 2009 & 2009  
SUPPLEMENTS EFFECTIVE 1 MARCH 2009, ONE (1) AND TWO (2) FAMILY DWELLINGS  
with Supplements and Revision, OF THE NATIONAL ELECTRICAL 2008**

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

**ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007  
FLORIDA BUILDING CODES RESIDENTIAL EFFECTIVE 1 MARCH 2009 & 2009  
SUPPLEMENTS EFFECTIVE 1 MARCH 2009. ALL PLANS OR DRAWINGS SHALL  
PROVIDE 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 SPEEDS ARE PER  
FIGURE R301.2(4) of the FLORIDA BUILDING CODES RESIDENTIAL (Florida Wind  
speed map) SHALL BE USED.**

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

ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH  
ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE -----110 MPH  
NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
---	--	--	--	--

		Yes	No	N/A
1	Two (2) complete sets of plans containing the following:	<input checked="" type="checkbox"/>		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	<input checked="" type="checkbox"/>		
3	Condition space (Sq. Ft.) <u>1420</u>			
	Total (Sq. Ft.) <u>2207</u> under roof			

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

**Site Plan information including:**

4	Dimensions of lot or parcel of land	<input checked="" type="checkbox"/>		
5	Dimensions of all building set backs	<input checked="" type="checkbox"/>		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	<input checked="" type="checkbox"/>		
7	Provide a full legal description of property.	<input checked="" type="checkbox"/>		





## **Wind-load Engineering Summary, calculations and any details required**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	IIIIII	IIIIII	IIIIII
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	✓		
11	Wind importance factor and nature of occupancy	✓		
12	The applicable internal pressure coefficient, Components and Cladding	✓		
13	The design wind pressure in terms of psf (kN/m <sup>2</sup> ), to be used for the design of exterior component, cladding materials not specifically designed by the registered design professional.	✓		

## **Elevations Drawing including:**

14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys	✓		
18	Location and size of skylights with Florida Product Approval	✓		
18	Number of stories	✓		
20A	Building height from the established grade to the roofs highest peak	✓		

## **Floor Plan including:**

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	✓		
21	Raised floor surfaces located more than 30 inches above the floor or grade	✓		
22	All exterior and interior shear walls indicated	✓		
23	Shear wall opening shown (Windows, Doors and Garage doors)	✓		
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBCR 613.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	✓		
25	Safety glazing of glass where needed	✓		
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FBCR)	N/A		
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	N/A		
28	Identify accessibility of bathroom (see FBCR SECTION 322)	✓		



**All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
---	--	--	--	--

**FBCR 403: Foundation Plans**

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30	All posts and/or column footing including size and reinforcing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	Any special support required by soil analysis such as piling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	Assumed load-bearing value of soil <u>1.80N</u> Pound Per Square Foot	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) <b>For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**FBCR 506: CONCRETE SLAB ON GRADE**

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**FBCR 320: PROTECTION AGAINST TERMITES**

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Sub mit other approved termite protection methods. <b>Protection shall be provided by registered termiticides</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)**

37	Show all materials making up walls, wall height, and Block size, mortar type	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect**

**Floor Framing System: First and/or second story**

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
41	Girder type, size and spacing to load bearing walls, stem wall and/or piers	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
42	Attachment of joist to girder	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
43	Wind load requirements where applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
44	Show required under-floor crawl space	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>





45	Show required amount of ventilation opening for under-floor spaces			
46	Show required covering of ventilation opening			
47	Show the required access opening to access to under-floor spaces			
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing			
49	Show Draftstopping, Fire caulking and Fire blocking			
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 309			
51	Provide live and dead load rating of floor framing systems (psf).			

## **FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls			
53	Fastener schedule for structural members per table FBCR 602.3 are to be shown			
54	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing			
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems			
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCR Table 502.5 (1)			
57	Indicate where pressure treated wood will be placed			
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas			
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail			

## **FBCR :ROOF SYSTEMS:**

60	Truss design drawing shall meet section FBCR 802.10 Wood trusses			
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer			
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters			
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details			
64	Provide dead load rating of trusses			

## **FBCR 802:Conventional Roof Framing Layout**

65	Rafter and ridge beams sizes, span, species and spacing			
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating			
67	Valley framing and support details			
68	Provide dead load rating of rafter system			



### **FBCR Table 602.3(2) & FBCR 803 ROOF SHEATHING**

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### **FBCR ROOF ASSEMBLIES FRC Chapter 9**

71	Include all materials which will make up the roof assemblies covering	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
72	Submit Florida Product Approval numbers for each component of the roof assemblies covering	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### **FBCR Chapter 11 Energy Efficiency Code for residential building**

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter 11 Residential buildings compliance methods. **Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74	Attic space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75	Exterior wall cavity	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
76	Crawl space	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### **HVAC information**

77	Submit two copies of a Manual J sizing equipment or equivalent computation study	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
78	Exhaust fans shown in bathrooms <b>Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79	Show clothes dryer route and total run of exhaust duct	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### **Plumbing Fixture layout shown**

80	All fixtures waste water lines shall be shown on the foundation plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81	Show the location of water heater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### **Private Potable Water**

82	Pump motor horse power	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
83	Reservoir pressure tank gallon capacity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84	Rating of cycle stop valve if used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





### Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	<input checked="" type="checkbox"/>		
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by <b>Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A</b>	<input checked="" type="checkbox"/>		
87	Show the location of smoke detectors & Carbon monoxide detectors	<input checked="" type="checkbox"/>		
88	Show service panel, sub-panel, location(s) and total ampere ratings	<input checked="" type="checkbox"/>		
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.  <b>For structures</b> with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	<input checked="" type="checkbox"/>		
90	Appliances and HVAC equipment and disconnects	<input checked="" type="checkbox"/>		
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed <b>Combination arc-fault circuit interrupter</b> , Protection device.	<input checked="" type="checkbox"/>		

**Disclosure Statement for Owner Builders** *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

### Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

<p align="center"><b>GENERAL REQUIREMENTS:</b> APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</p>	<p align="center">Items to Include- Each Box shall be Circled as Applicable</p>
---	---

### THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	<b>Building Permit Application</b> A current Building Permit Application form is to be completed and submitted for all residential projects	<input checked="" type="checkbox"/>		
93	<b>Parcel Number</b> The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested	<input checked="" type="checkbox"/>		
94	<b>Environmental Health Permit or Sewer Tap Approval</b> A copy of a approved Columbia County Environmental Health (386) 758-1058			
95	<b>City of Lake City</b> A permit showing an approved waste water sewer tap			<input checked="" type="checkbox"/>
96	<b>Toilet facilities shall be provided for all construction sites</b>	<input checked="" type="checkbox"/>		
97	<b>Town of Fort White</b> (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			<input checked="" type="checkbox"/>



98	<b>Flood Information:</b> All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations			✓
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the base flood elevation (100 year flood) has been established	✓		
100	A development permit will also be required. Development permit cost is \$50.00	✓		✓
101	<b>Driveway Connection:</b> If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.	✓		
102	<b>911 Address:</b> If the project is located in an area where a 911 address has not been issued, then application for a 911 address must be applied for and <b>received</b> through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125	✓		

#### Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code, Building shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

#### Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

#### Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

#### Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.





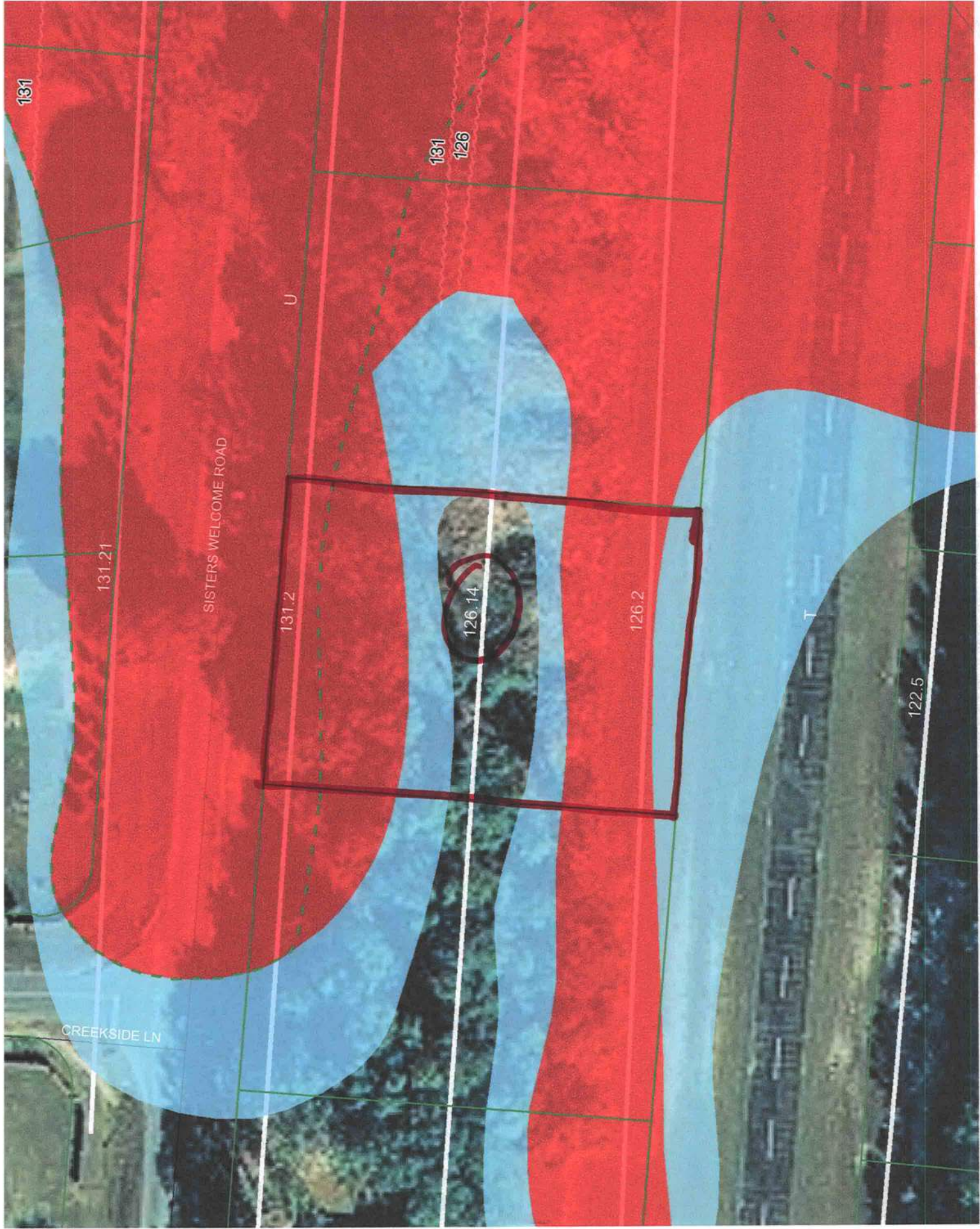
Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	000097	Kenneth Loudan	<i>Kenneth Loudan</i>
CONCRETE FINISHER	00063	Darrell Spradley	<i>Darrell Spradley</i>
FRAMING	CBC054575	Bryan Zecher	<i>Bryan Zecher</i>
INSULATION	00240	Will Sykes	
STUCCO		NIA	
DRYWALL	000686	Joe Maddox	<i>Joe Maddox</i>
PLASTER		NIA	
CABINET INSTALLER	CBC054575	Bryan Zecher	<i>Bryan Zecher</i>
PAINTING	000330	Bobby Touchton	<i>Bobby Touchton</i>
ACOUSTICAL CEILING		NIA	
GLASS		NIA	
CERAMIC TILE	000188	Ron Humphrey	<i>Ron Humphrey</i>
FLOOR COVERING	710	Mark Vann	<i>Mark Vann</i>
ALUM/VINYL SIDING	000166	Mike Nicholson	<i>Mike Nicholson</i>
GARAGE DOOR	542138196	Richard Horne	
METAL BLDG ERECTOR			

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

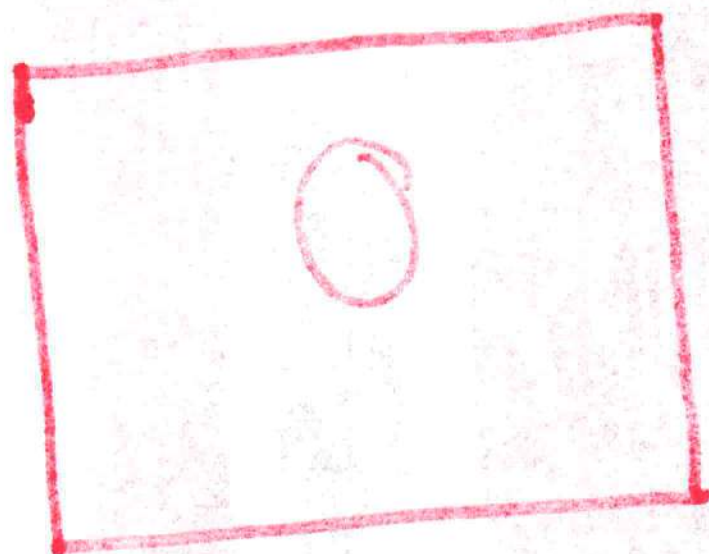
Contractor Form, Subcontractor form 6/09

From Bryan Z  
Permit App - Decker









Water Wells  
Pumps & Service

Phone: (386) 752-6677  
Fax: (386) 752-1477

## Lynch Well Drilling, Inc.

173 SW Young Place  
Lake City, FL 32025

"copy"  
OPEN - call

OK  
AS per  
- LINDA Newcomb  
6.8.11

March 17, 2011

To Whom It May Concern:

As required by building code regulations for Columbia County in order that a building permit can be issued, the following well information is provided with regard to the well for ? in Lake City.

Size of Pump Motor:	1 1/2 HP 20 gallons per min.
Size of Pressure Tank:	81 -Gallon Bladder Tank - 25.1 Draw down
Cycle Stop Valve Used:	No
Constant Pressure System:	No

Should you require any additional information, please contact us.

Sincerely,



Linda Newcomb  
Lynch Well Drilling, Inc.



sale price 7500.00  
dc 525.00

**This Instrument Prepared by & return to:**

Name: **TRISH LANG, an employee of  
NORTH CENTRAL FLORIDA TITLE,  
LLC**  
Address: **343 NW COLE TERRACE, SUITE 101  
LAKE CITY, FLORIDA 32055  
File No. 11Y-03029**

Parcel I.D. #: **02935-011**

SPACE ABOVE THIS LINE FOR PROCESSING DATA

Inst 201112005563 Date 4/14/2011 Time 1:28 PM

Dr Stamp Deed 525 00

DC P DeWitt Casson Columbia County Page 1 of 1 B 1212 P 2769

SPACE ABOVE THIS LINE FOR RECORDING DATA

**THIS WARRANTY DEED** Made the 12th day of April, A.D. 2011, by **RAYMOND R. SESSIONS, JR.**,  
A SINGLE PERSON, hereinafter called the grantor, to **DANIEL B. DECKER and JEANNE H. DECKER, HIS  
WIFE**, whose post office address is **92 TOWN LINE ROAD, BETHLEHEM, CT 06751**, hereinafter called the  
grantees:

(Wherever used herein the terms "grantor" and "grantees" include all the parties to this instrument, singular and plural, the heirs, legal  
representatives and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

**Witnesseth:** That the grantor, for and in consideration of the sum of \$10.00 and other valuable consideration,  
receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, alien, remise, release, convey and confirm  
unto the grantees all that certain land situate in **Columbia County, State of Florida**, viz:

Lot 9, Brother's Welcome Airpark, according to the plat thereof, recorded in Plat Book 5, Page 56, of  
the Public Records of Columbia County, Florida.

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

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

**And** the grantor hereby covenants with said grantees that he is lawfully seized of said land in fee simple; that  
he has good right and lawful authority to sell and convey said land, and hereby fully warrants the title to said land and  
will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all  
encumbrances, except taxes accruing subsequent to December 31, 2011.

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

Signed, sealed and delivered in the presence of:

  
Witness Signature **PATRICIA H. LANG**

Printed Name

  
Witness Signature **Regina Simpkins**

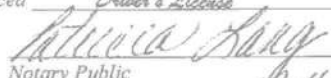
Printed Name

  
L.S.  
**RAYMOND R. SESSIONS, JR.**  
Address:  
**2409 SW SISTERS WELCOME RD, SUITE 101,  
LAKE CITY, FL 32025**

STATE OF FLORIDA  
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 12th day of April, 2011, by **RAYMOND R.  
SESSIONS, JR.**, who is known to me or who has produced Driver's License as identification.



  
Notary Public  
My commission expires 12-14-14





LAND	DESC	ZONE	ROAD	UD1	UD3	FRONT	DEPTH	FIELD CK:											
AE	CODE	TOPO	UTIL	UD2	UD4	BACK	DT	ADJUSTMENTS				UNITS	UT	PRICE	ADJ	UT	PR	LAND	VALUE
Y	000000	VAC	RES					1.00	1.00	1.00	1.00	1.000	LT	41148.000	41148.00			41,148	



# COLUMBIA COUNTY 9-1-1 ADDRESSING

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

PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: ron\_croft@columbiacountyfla.com

## Addressing Maintenance

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

DATE REQUESTED: 4/18/2011      DATE ISSUED: 4/19/2011

### ENHANCED 9-1-1 ADDRESS:

1907      SW      SISTERS WELCOME      RD

LAKE CITY      FL      32025

### PROPERTY APPRAISER PARCEL NUMBER:

12-4S-16-02935-011

### Remarks:

LOT 9 BROTHERS WELCOME AIRPARK

Address Issued By: SIGNED: / RONAL N. CROFT  
Columbia County 9-1-1 Addressing / GIS Department

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



**SUBCONTRACTOR VERIFICATION FORM**

APPLICATION NUMBER 1105-20/21 CONTRACTOR Bryan Zecher PHONE 752-8653  
 THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

<b>ELECTRICAL</b> OK 76	Print Name <u>Marc Matthews</u> License #: <u>ER-0014352</u>	Signature <u>[Signature]</u> Phone #: <u>344-2029</u>
<b>MECHANICAL/A/C</b> A 48	Print Name <u>Louis Jones, Inc.</u> License #: <u>CAC 001486</u>	Signature <u>[Signature]</u> Phone #: <u>752-5389</u>
<b>PLUMBING/GAS</b> OK 1081	Print Name <u>Wolfe Plumbing</u> License #: <u>CFC051621</u>	Signature <u>[Signature]</u> Phone #: <u>386-835044</u>
<b>ROOFING</b> OK 187	Print Name <u>Mac Johnson Roofing Inc</u> License #: <u>RC-0061384</u>	Signature <u>[Signature]</u> Phone #: <u>352-472-4943</u>
<b>SHEET METAL</b>	Print Name <u>N/A</u> License #:	Signature _____ Phone #:
<b>FIRE SYSTEM/SPRINKLER</b>	Print Name <u>N/A</u> License #:	Signature _____ Phone #:
<b>SOLAR</b>	Print Name <u>N/A</u> License #:	Signature _____ Phone #:

Not Entail any one  
W.B. Lumber only

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
<del>MASON</del> <u>Changed</u>	<u>000844</u>	<u>South Point Masonry Inc</u>	<u>[Signature]</u> <u>(Changed 6-10-11 See attached sheet)</u>
CONCRETE FINISHER	<u>00063</u>	<u>Darrell Spradley</u>	<u>[Signature]</u>
FRAMING	<u>853</u>	<u>Bryan Zecher</u>	<u>[Signature]</u>
INSULATION	<u>000240</u>	<u>Sykes Insulation</u>	<u>[Signature]</u>
STUCCO	<u>N/A</u>	<u>N/A</u>	
DRYWALL	<u>000345</u>	<u>Kim Heitzman</u>	<u>[Signature]</u>
PLASTER	<u>N/A</u>	<u>N/A</u>	
CABINET INSTALLER	<u>See</u>	<u>Attached</u>	
PAINTING	<u>000330</u>	<u>Bobby Touchton</u>	<u>[Signature]</u>
ACOUSTICAL CEILING	<u>N/A</u>	<u>N/A</u>	
GLASS	<u>N/A</u>	<u>N/A</u>	
CERAMIC TILE	<u>See</u>	<u>Attached</u>	
FLOOR COVERING	<u>See</u>	<u>Attached</u>	
ALUM/VINYL SIDING	<u>000166</u>	<u>Mike Nickerson</u>	<u>[Signature]</u>
GARAGE DOOR	<u>211</u>	<u>Richard Horn</u>	<u>[Signature]</u>
METAL BLDG ERECTOR			

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

10

11

12

13



## SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER \_\_\_\_\_

CONTRACTOR

Bryan Zecher Const

PHONE

750-8653

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

*Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.*

ELECTRICAL	Print Name _____ License #: _____	Signature _____ Phone #: _____
MECHANICAL/ A/C _____	Print Name _____ License #: _____	Signature _____ Phone #: _____
PLUMBING/ GAS	Print Name _____ License #: _____	Signature _____ Phone #: _____
ROOFING	Print Name _____ License #: _____	Signature _____ Phone #: _____
SHEET METAL	Print Name _____ License #: _____	Signature _____ Phone #: _____
FIRE SYSTEM/ SPRINKLER	Print Name _____ License #: _____	Signature _____ Phone #: _____
SOLAR	Print Name _____ License #: _____	Signature _____ Phone #: _____

Specialty License	License Number	Sub Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
ok CABINET INSTALLER	001039	Morrells/PAUL GRIFFITH	Paul Griffith
PAINTING			
ACOUSTICAL CEILING			
GLASS			
ok CERAMIC TILE	000031	Morrells/HERB SPEARS	Herb Spears
ok FLOOR COVERING	000204	Morrells/RICH MOORE	Rich Moore
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

5-16-11  
Liability

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

20

2



## SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1105-20 CONTRACTOR Glenn I Jones, Inc. PHONE 752-5389  
 THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

**Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.**

ELECTRICAL	Print Name _____ License #: _____	Signature _____ Phone #: _____
MECHANICAL/ A/C <u>A-48</u>	Print Name <u>W.B. LAWTON</u> License #: <u>CACD 51486</u>	Signature <u>W.B. Lawton</u> Phone #: <u>752 5389</u>
PLUMBING/ GAS	Print Name _____ License #: _____	Signature _____ Phone #: _____
ROOFING	Print Name _____ License #: _____	Signature _____ Phone #: _____
SHEET METAL	Print Name _____ License #: _____	Signature _____ Phone #: _____
FIRE SYSTEM/ SPRINKLER	Print Name _____ License #: _____	Signature _____ Phone #: _____
SOLAR	Print Name _____ License #: _____	Signature _____ Phone #: _____

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

**F. S. 440.103 Building permits; Identification of minimum premium policy.**--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.



06-09-11;09:02AM;

A&amp;B

:386 768-2197

# 2/ 3

STATE OF FLORIDA  
DEPARTMENT OF HEALTH  
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

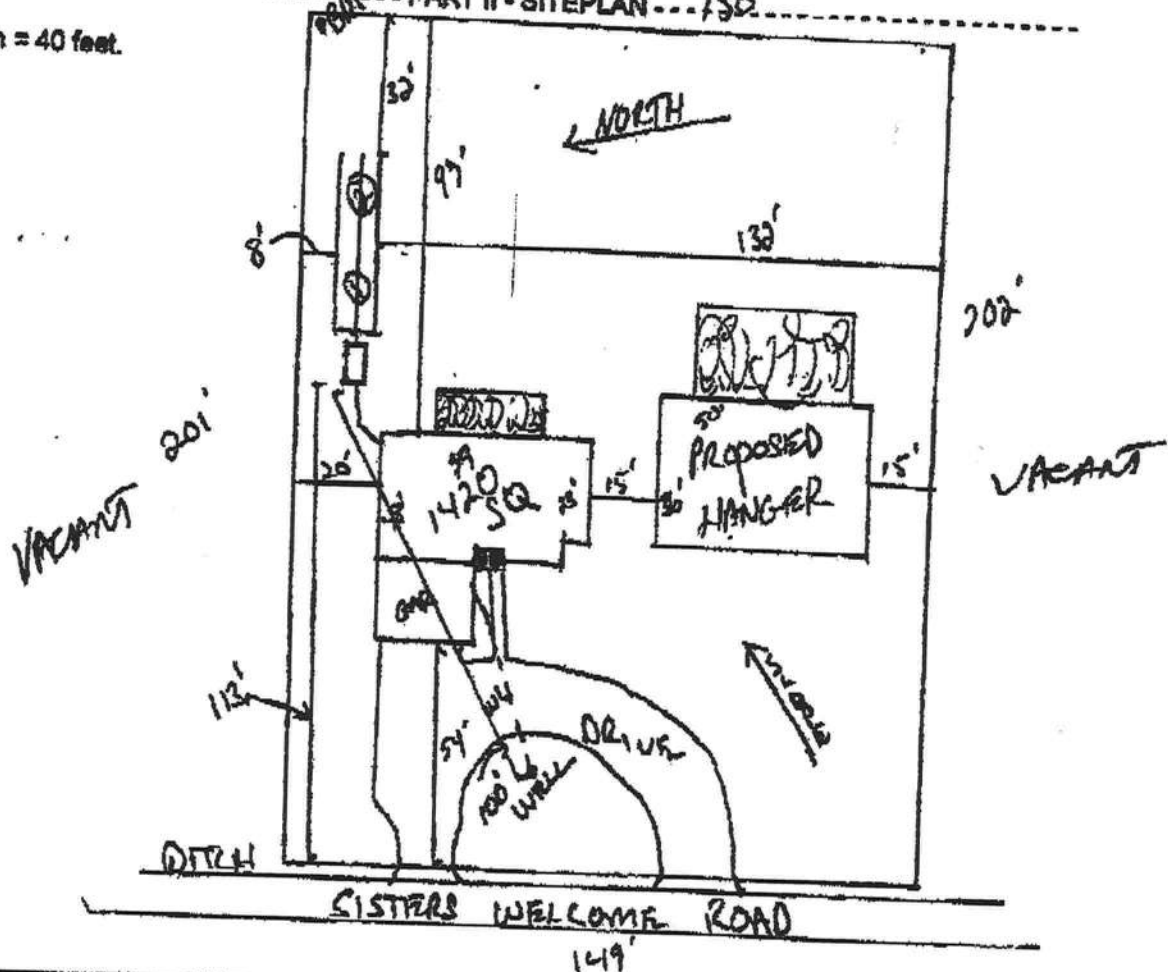
Permit Application Number 11-0233

RUNWAY

Decked

PART II - SITEPLAN

Scale: 1 inch = 40 feet.



Notes:

Site Plan submitted by: Rocky D FordPlan Approved XBy Salhi Ford, Env. Health Director

Not Approved

MASTER CONTRACTOR

Date 5-9-11

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 06/08 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC  
(Stock Number: 9744-002-4015-6)

Page 2 of 4

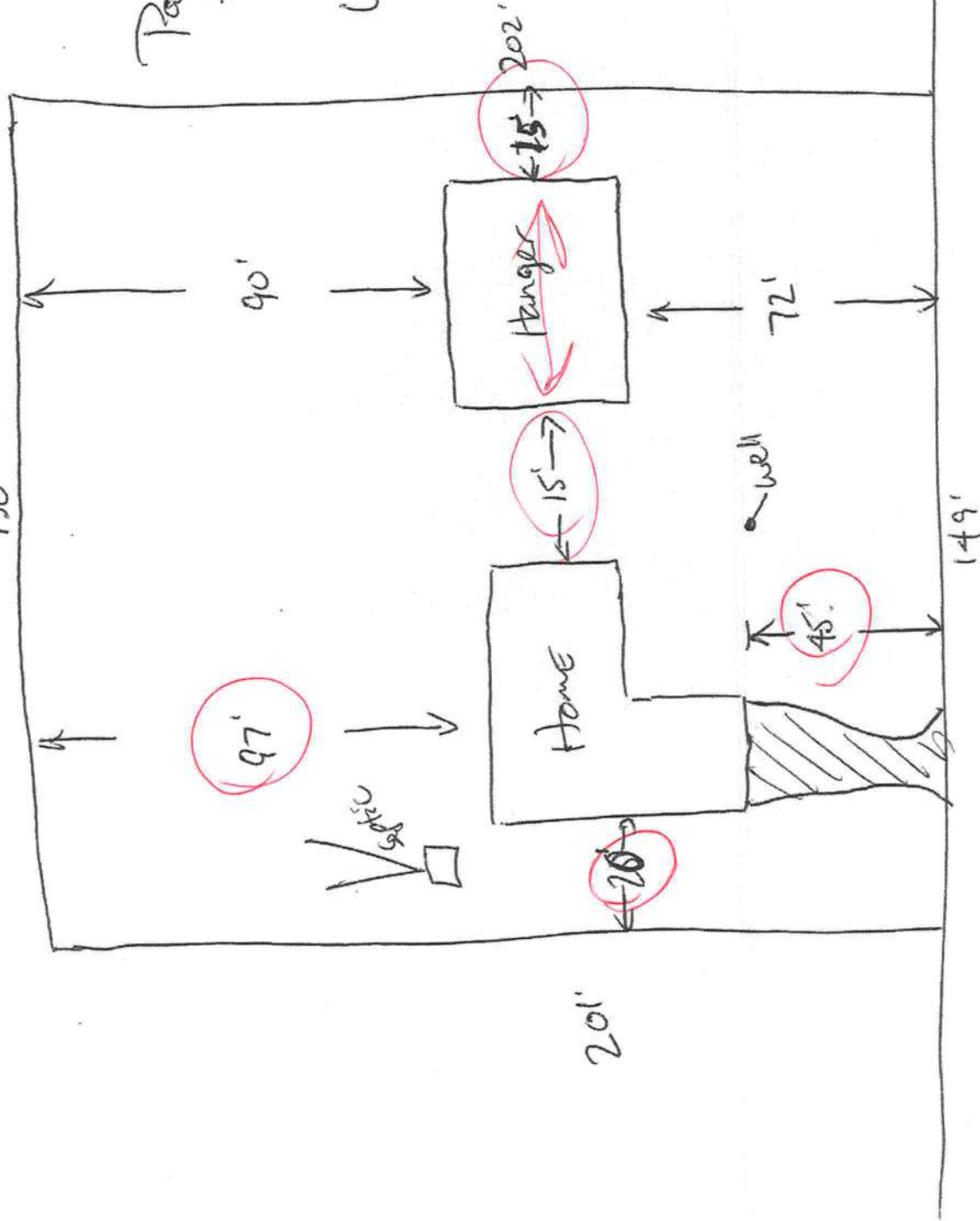


1501

#12-45-16-

02935-011

Lot 9 Brother's  
welcome Airport



Sister's Welcome Rd



**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000001891**

DATE 06/14/2011 PARCEL ID # 12-4S-16-02935-011  
APPLICANT BRYAN ZECHER PHONE 752-8653  
ADDRESS PO BOX 815 LAKE CITY FL 32056  
OWNER DANIEL DECKER PHONE 752-8653  
ADDRESS 1907 SW SISTERS WELCOME RD LAKE CITY FL 32025  
CONTRACTOR BRYAN ZECHER PHONE 752-8653  
LOCATION OF PROPERTY 90 WEST, L SISTERS WELCME RD, JUST PAST CREEKSIDE LN ON THE RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT BROS WELCOME AIR PRK 9

SIGNATURE

**INSTALLATION REQUIREMENTS**



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

INSTALLATION NOTE: Turnouts will be required as follows:

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

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



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other \_\_\_\_\_

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

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

**Amount Paid 25.00**







## Columbia County Building Permit Application

✓ REVISED VF: GLENN I. Jones, Jr.

For Office Use Only Application # 1105-20 Date Received 5/9/11 By UH Permit # 1891/29477  
Zoning Official BLK Date 07.JUNE.11 Flood Zone Floodable X Land Use RES. MED. DENSITY Zoning RMF-1  
FEMA Map # 271C Elevation 126.14 MFE 126.14 River Cannon Plans Examiner T.C. Date 5-12-11  
Comments Elevation Confirmation Letter Required slab location survey required at footer  
☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☒ State Road Info ☒ Well letter ☒ 911 Sheet ☒ Parent Parcel #  
☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor ☒ NF W Comp. letter  
IMPACT FEES: EMS \_\_\_\_\_ Fire \_\_\_\_\_ Corr \_\_\_\_\_ ☒ Sub VF Form ☒ ~~Isolation w/c~~  
Road/Code \_\_\_\_\_ School \_\_\_\_\_ = TOTAL (Suspended) ☒ App Fee Paid

Septic Permit No. 11-0232 Fax \_\_\_\_\_  
Name Authorized Person Signing Permit Bryan Zacher Phone 752-8653  
Address PO Box 815 867-4994 cell#  
Owners Name Decker, Daniel & Jeanne Phone 752-8653  
911 Address 1907 Sw Sister's Welcome Rd LC, FL 32025  
Contractors Name Bryan Zacher Construction, Inc Phone 752-8653  
Address PO Box 815 Lake City, FL 32056

Fee Simple Owner Name &amp; Address \_\_\_\_\_

Bonding Co. Name &amp; Address \_\_\_\_\_

Architect/Engineer Name & Address Mark D Bosway PO Box 86B, LC, FL 32056Mortgage Lenders Name & Address N/ACircle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress EnergyProperty ID Number 12-45-16-02935-011 Estimated Cost of Construction \$150,000-Subdivision Name Brother's Welcome Airport Lot 9 Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_Driving Directions US 90 west to Sister's Welcome Rd, T/L  
go about 3 miles on Rght just past Creekside LnNumber of Existing Dwellings on Property 0Construction of Home / garage Total Acreage 3.4 Lot Size \_\_\_\_\_Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 18'Actual Distance of Structure from Property Lines - Front 45' Side 20' Side 15' Rear 9'Number of Stories 1 Heated Floor Area 1400 Total Floor Area 2290 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. CODE: Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code.

Page 1 of 2 (Both Pages must be submitted together.)

Revised 1-11

ck's 2705 677-08 TW left msg 6.8.11 Spoke to Bryan 6-8-11 / 6-10-11



## NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

Clark's Office Stamp

201112006946 Date: 5/9/2011 Time: 1:41 PM  
 D.C.P. DeWitt Cason, Columbia County Page 1 of 1 B:1214 P:922

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description): Lot 9 Brother's Welcome Airport  
 a) Street (job) Address: 1907 SW Sister's Welcome Rd
2. General description of improvements: New Home / Hanger
3. Owner Information  
 a) Name and address: Don + Jeanne Decker  
 b) Name and address of fee simple titleholder (if other than owner): 1907 SW Sister's Welcome Rd LC, FL 32025  
 c) Interest in property: fee simple
4. Contractor Information  
 a) Name and address: Bryan Fisher Construction, Inc PO Box 515 LC, FL 32026  
 b) Telephone No.: 732-8653 Fax No. (Opt.): \_\_\_\_\_
5. Surety Information  
 a) Name and address: N/A  
 b) Amount of Bond: \_\_\_\_\_  
 c) Telephone No.: \_\_\_\_\_ Fax No. (Opt.): \_\_\_\_\_
6. Lender  
 a) Name and address: N/A  
 b) Phone No.: \_\_\_\_\_
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:  
 a) Name and address: \_\_\_\_\_  
 b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.): \_\_\_\_\_
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(f)(b), Florida Statutes:  
 a) Name and address: \_\_\_\_\_  
 b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.): \_\_\_\_\_
9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified): \_\_\_\_\_

**WARNING TO OWNER:** ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA  
 COUNTY OF COLUMBIA

10.

Signature of Owner or Owner's Authorized Officer/Director/Partner/Manager

Daniel B. Decker

Printed Name

Jeanne H. Decker

The foregoing instrument was acknowledged before me, a Florida Notary, this 9<sup>th</sup> day of May, 2011, by:

Constance N. Sherman Notary (type of authority, e.g. officer, trustee, attorney)

fact) for Daniel and Jeanne Decker (name of party on behalf of whom instrument was executed).

Personally Known ☒ OR Produced Identification \_\_\_\_\_ Type \_\_\_\_\_

Notary Signature Constance N. Sherman Notary Stamp or Seal: \_\_\_\_\_

-AND-

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Daniel B. Decker Jeanne H. Decker  
 Signature of Natural Person Signing (in line #10 above.)

**CONSTANCE N. SHERMAN**  
**NOTARY PUBLIC**  
 MY COMMISSION EXPIRES FEB. 28, 2016





# COLUMBIA COUNTY FLORIDA

## OCCUPANCY

COLUMBIA COUNTY, FLORIDA

### Department of Building and Zoning Inspection

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

Parcel Number 12-4S-16-02935-011

Building permit No. 000029477

Use Classification SFD, UTILITY

Fire: 70.62

Permit Holder BRYAN ZECHER

Waste: 184.25

Owner of Building DANIEL DECKER

Total: 254.87

Location: 1907 SW SISTERS WELCOME RD, LAKE CITY, FL 32025

Date: 11/23/2011

Building Inspector



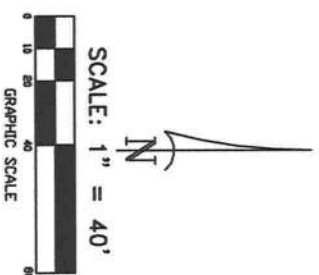
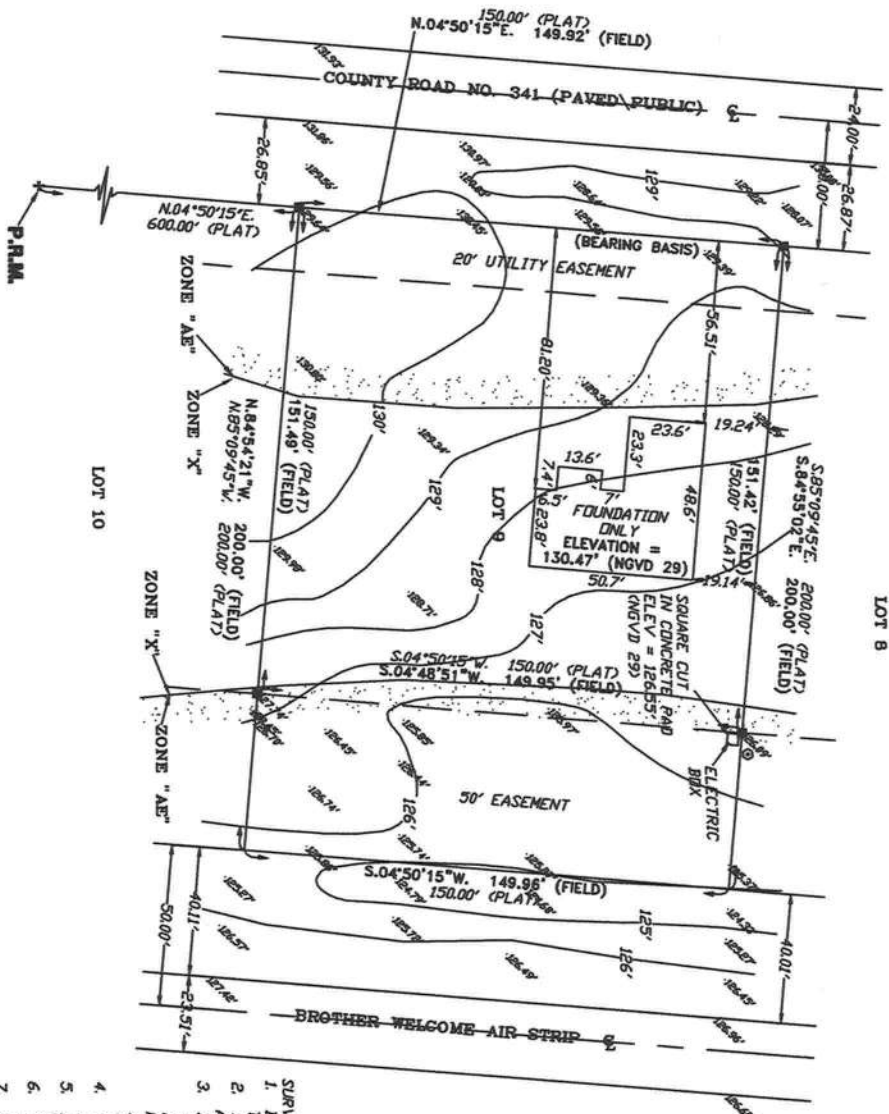
POST IN A CONSPICUOUS PLACE  
(Business Places Only)





NOTE: THE ELEVATIONS SHOWN HEREON ARE BASED ON NGVD 29 DATUM, THE FLOOD ELEVATION IS BASED ON NAVD 88 DATUM.

BOUNDARY SURVEY IN SECTION 12, TOWNSHIP 4 SOUTH,  
RANGE 16 EAST,  
COLUMBIA COUNTY, FLORIDA.



SYMBOL LEGEND:	
■	4"x4" CONCRETE MONUMENT FOUND
●	4"x4" CONCRETE MONUMENT SET
○	IRON PIPE FOUND
×	IRON PIN AND CAP SET
+	1" CUT IN PAVEMENT
⊕	CALCULATED PROPERTY CORNER
⊙	MAIL & DISK
⊕	POWER POLE
⊕	SPOT POST
⊕	WATER METER
⊕	UTILITY BOX
⊕	WELL
⊕	SANITARY MANHOLE
—	CENTERLINE
—	SECTION LINE
—	ELECTRIC LINE
—	WIRE FENCE
—	CHAIN LINK FENCE
—	WOODEN FENCE
—	AS PER A PLAT OF RECORD
—	CREED AS PER A DEED OF RECORD
—	FIELD AS PER FIELD MEASUREMENTS
—	P.R.M. PERMANENT REFERENCE MARKER
—	P.C.P. PERMANENT CONTROL POINT

DESCRIPTION:  
LOT 9 OF "BROTHERS WELCOME AIRPARK" AS PER THE PLAT THEREOF RECORDED IN  
PLAT BOOK 5, PAGE 56 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

- SURVEYOR'S NOTES:
1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF
  2. THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
  3. BEARINGS ARE BASED ON SAID PLAT OF RECORD AND THE WEST LINE OF SAID LOT 9
  4. AS SHOWN HEREON.
  5. IT IS APPARENT THAT A PORTION OF THIS PARCEL IS IN ZONE "Y" AND IS DETERMINED
  6. TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN. A PORTION OF THIS PARCEL IS IN ZONE "AC"
  7. AND IS SUBJECT TO FLOODING. A BASE FLOOD ELEVATION IS ESTABLISHED TO BE 126.14
  8. FEET AS PER FLOOD INSURANCE RATE MAP, DATED 4 FEBRUARY, 2009 FROM PANEL NO.
  9. 120230293C. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE
  10. BASED ON NAVD 88 DATUM.
  11. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON
  12. DATE OF FIELD SURVEY AS SHOWN HEREON.
  13. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR
  14. THIS SURVEY EXCEPT AS SHOWN HEREON.
  15. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE
  16. POLICY.
  17. DIMENSIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF.
  18. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
  19. THE ADJACENT OWNERSHIP INFORMATION AS SHOWN HEREON IS BASED ON THE COUNTY
  20. PROPERTY APPRAISERS GIS SYSTEM, UNLESS OTHERWISE DENOTED.

NOTE: ALL PROPERTY CORNERS LOCATED WERE IDENTIFIED  
AS L.E. BRITT, P.L.S. 1079.

CERTIFIED TO:

BRYAN ZECHER CONSTRUCTION

FIELD BOOK SEE PAGE(S) FILE

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE HIGHEST  
TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPERS  
IN CHAPTER S-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.01, FLORIDA STATUTES.  
07/05/11  
FIELD SURVEY DATE  
07/06/11  
DRAWING DATE  
COPY  
THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE  
POLICY.



BRITT SURVEYING  
& ASSOCIATES, INC.

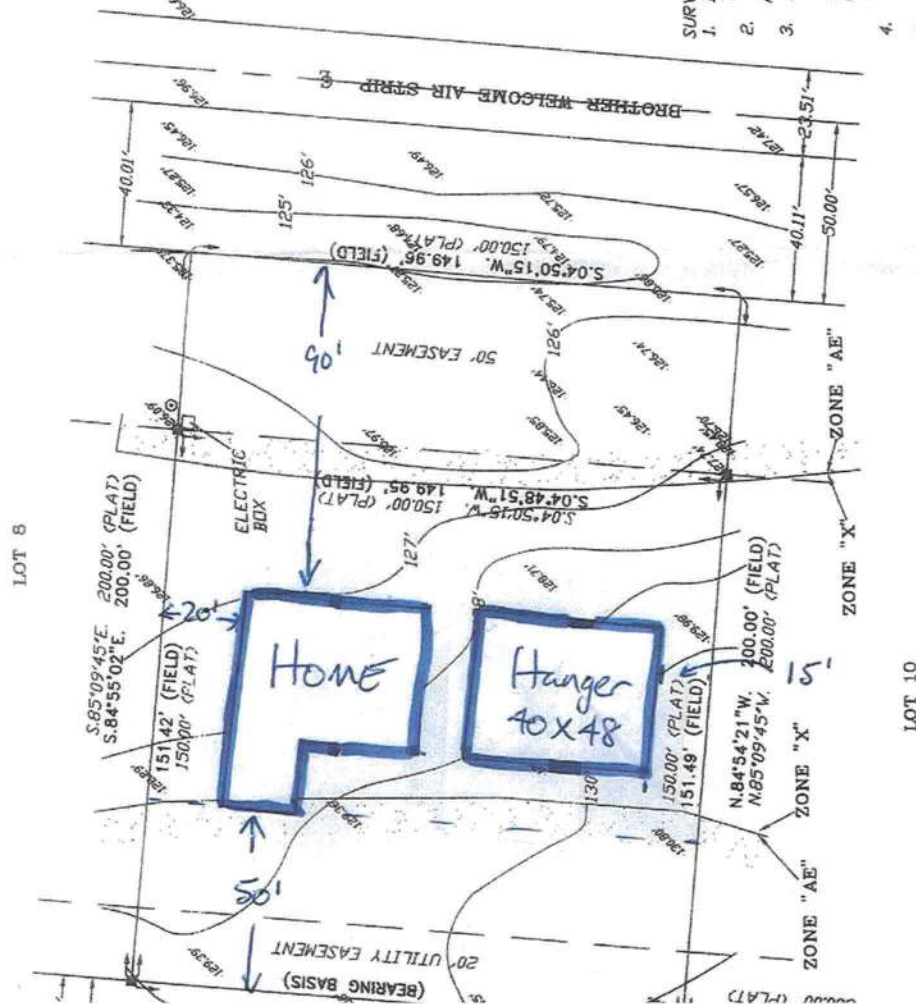
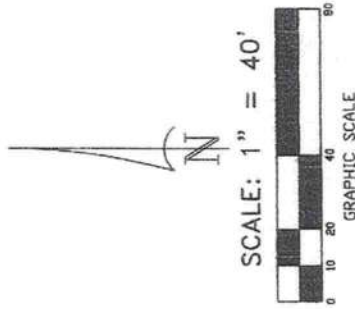
LAND SURVEYORS AND MAPERS, L.B. # 7593  
830 WEST BAYVIEW STREET LAKE CITY, FLORIDA 32055  
(386) 752-7163 FAX (386) 752-5573  
WORK ORDER # L-20953



BOUNDARY SURVEY IN SECTION 12, TOWNSHIP 4 SOUTH,  
COLUMBIA COUNTY, FLORIDA,  
RANGE 16 EAST.

**SYMBOL LEGEND:**

■	4"x4" CONCRETE MONUMENT FOUND
□	4"x4" CONCRETE MONUMENT SET
○	IRON PIPE FOUND
×	IRON PIN AND CAP SET
+	"X" CUT IN PAVEMENT
⊕	CALCULATED PROPERTY CORNER
⊙	MAIL & DISK
⊗	POWER POLE
⊛	SIGN POST
+	WATER METER
⊕	UTILITY BOX
⊙	WELL
⊗	SANITARY MANHOLE
⊕	CENTERLINE
—	SECTION LINE
—	ELECTRIC LINES
—	WIRE FENCE
—	CHAIN LINK FENCE
—	WOODEN FENCE
—	AS PER A PLAT OF RECORD
—	(PLAT)
—	AS PER A DEED OF RECORD
—	(DEED)
—	AS PER CALCULATIONS
—	(CALC.)
—	AS PER FIELD MEASUREMENTS
—	(FIELD)
—	P.R.M. PERMANENT REFERENCE MARKER
—	P.C.P. PERMANENT CONTROL POINT



DESCRIPTION:  
LOT 9 OF "BROTHERS WELCOME AIRPARK" AS PER THE PLAT THEREOF RECORDED IN  
PLAT BOOK 5, PAGE 56 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

- SURVEYOR'S NOTES:**
1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
  2. BEARINGS ARE BASED ON SAID PLAT OF RECORD AND THE WEST LINE OF SAID LOT 9 AS SHOWN HEREON.
  3. IT IS APPARENT THAT A PORTION OF THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN. A PORTION OF THIS PARCEL IS IN ZONE "AE" AND IS SUBJECT TO FLOODING. A BASE FLOOD ELEVATION IS ESTABLISHED TO BE 126.14 FEET AS PER FLOOD INSURANCE RATE MAP, DATED 4 FEBRUARY, 2009 FIRM PANEL NO. 120230291C. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
  4. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
  5. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.
  6. DIMENSIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF.
  7. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
  8. THE ADJACENT OWNERSHIP INFORMATION AS SHOWN HEREON IS BASED ON THE COUNTY PROPERTY APPRAISERS GIS SYSTEM, UNLESS OTHERWISE DENOTED.

NOTE: ALL PROPERTY CORNERS LOCATED WERE IDENTIFIED  
AS L.E. BRITT, P.L.S. 1079.

P.R.M.

**BRITT SURVEYING  
& ASSOCIATES, INC.**



LAND SURVEYORS AND MAPPERS, L.R. # 7593  
930 WEST DUVAL STREET LAKE CITY, FLORIDA 32055  
(386)752-7163 FAX (386)752-5573  
www.brittsurvey.com  
WORK ORDER # L-20908

**SURVEYOR'S CERTIFICATION**

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.03, FLORIDA STATUTES.

DATE OF SURVEY: 05/31/11  
DRAWING DATE: 06/02/11  
FIELD SURVEY DATE: 05/31/11  
DRAWING DATE: 06/02/11  
CERTIFICATION # 5297  
NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.

FIED TO:

R CONSTRUCTION

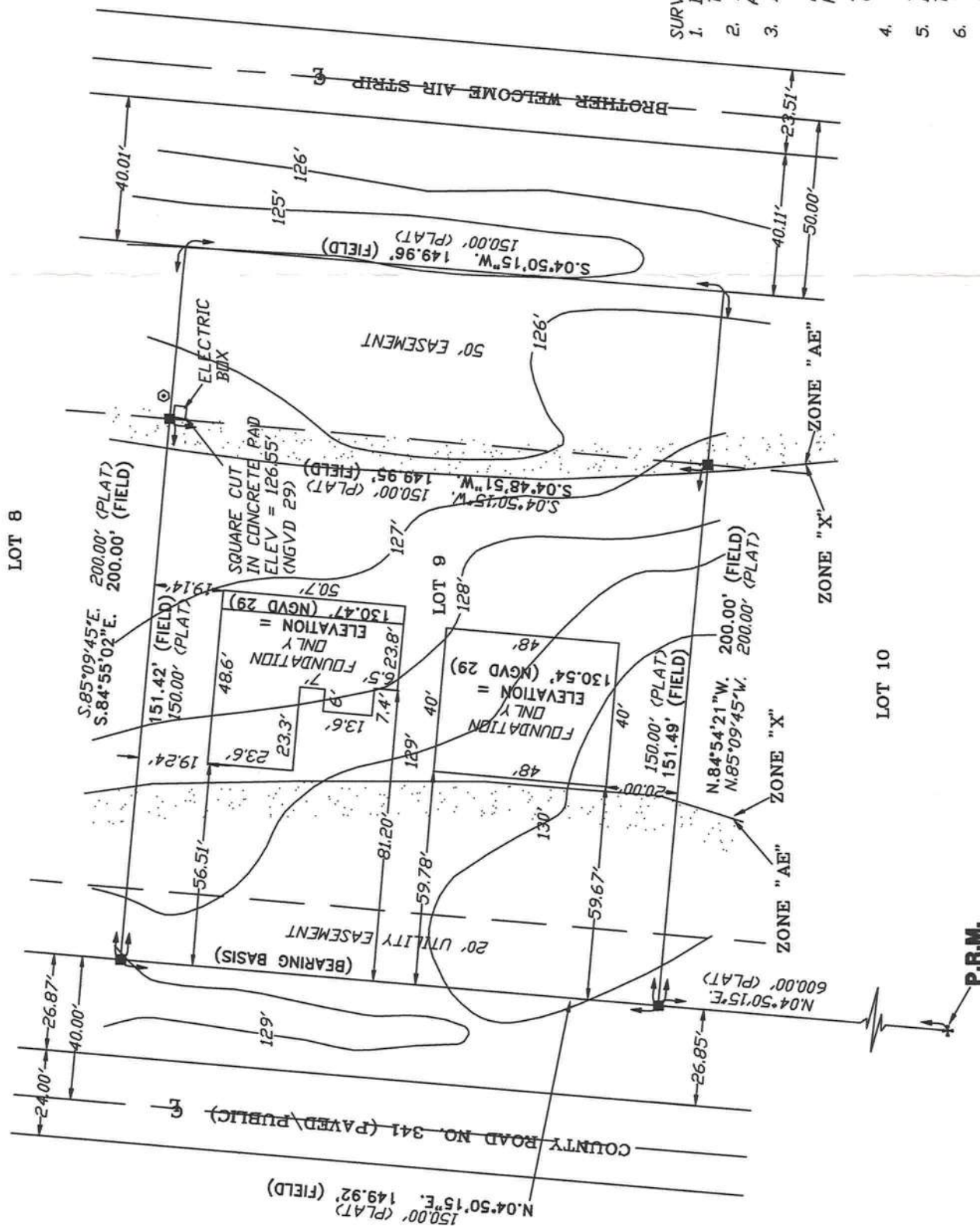




2277

NOTE: THE ELEVATIONS SHOWN HEREON ARE BASED ON NGVD 29 DATUM, THE FLOOD ELEVATION IS BASED ON NAVD 88 DATUM.

BOUNDARY SURVEY IN SECTION 12, TOWNSHIP 4 SOUTH,  
RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.



SYMBOL LEGEND:	
4"x4" CONCRETE MONUMENT FOUND	4"x4" CONCRETE MONUMENT SET
IRON PIPE FOUND	IRON PIN AND CAP SET
*X* CUT IN PAVEMENT	CALCULATED PROPERTY CORNER
NAIL & DISK	POWER POLE
SIGN POST	WATER METER
UTILITY BOX	WELL
SANITARY MANHOLE	CENTERLINE
SECTION LINE	ELECTRIC LINES
WIRE FENCE	CHAIN LINK FENCE
WOODEN FENCE	AS PER A PLAT OF RECORD
(PLAT)	AS PER A DEED OF RECORD
(DEED)	AS PER CALCULATIONS
(CALC.)	AS PER FIELD MEASUREMENTS
(FIELD)	P.R.M.
	PERMANENT REFERENCE MARKER
	P.C.P.
	PERMANENT CONTROL POINT

DESCRIPTION:  
LOT 9 OF "BROTHERS WELCOME AIRPARK" AS PER THE PLAT THEREOF RECORDED IN  
PLAT BOOK 5, PAGE 56 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

#### SURVEYOR'S NOTES:

1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
2. BEARINGS ARE BASED ON SAID PLAT OF RECORD AND THE WEST LINE OF SAID LOT 9 AS SHOWN HEREON.
3. IT IS APPARENT THAT A PORTION OF THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN. A PORTION OF THIS PARCEL IS IN ZONE "AE" AND IS SUBJECT TO FLOODING. A BASE FLOOD ELEVATION IS ESTABLISHED TO BE 126.14 FEET AS PER FLOOD INSURANCE RATE MAP, DATED 4 FEBRUARY, 2009 FIRM PANEL NO. 12023C0291C. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE (BASED ON NAVD 88 DATUM).
4. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
5. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
6. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.
7. DIMENSIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF.
8. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
9. THE ADJACENT OWNERSHIP INFORMATION AS SHOWN HEREON IS BASED ON THE COUNTY PROPERTY APPRAISERS GIS SYSTEM, UNLESS OTHERWISE DENOTED.

NOTE: ALL PROPERTY CORNERS LOCATED WERE IDENTIFIED  
AS L.E. BRITT, P.L.S. 1079.

CERTIFIED TO:

BRYAN ZECHER CONSTRUCTION

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM  
TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS  
IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.022, FLORIDA STATUTES.

07/15/11 FIELD SURVEY DATE  
07/19/11 DRAWING DATE

NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND  
MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.

FIELD BOOK(S) SEE PAGE(S) FILE



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