Project Name:

LICKS RES

compliance with the Florida Energy Code.

OWNER/AGENT:

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Builder:

STEPHEN CRAWFORD

Address: City, State: , Owner: Climate Zone: North			Permitting Office: Permit Number: 2/9 Jurisdiction Number: 2	13
1. New construction or existing 2. Single family or multi-family 3. Number of units, if multi-family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area (ft²) 7. Class area & type a. Clear glass, default U-factor b. Default tint c. Labeled U or SHGC 8. Floor types a. Slab-On-Grade Edge Insulation b. N/A c. N/A 9. Wall types a. Frame, Wood, Exterior b. Frame, Wood, Adjacent c. N/A d. N/A e. N/A 10. Ceiling types a. Under Attic b. N/A c. N/A 11. Ducts a. Sup: Unc. Ret: Unc. AH: Garage b. N/A	New Single family 1 3 Yes 2065 ft ² Single Pane Double Pane 0.0 ft ² 357.0 ft ² 0.0 ft ² 0.0 ft ² 0.0 ft ² 0.0 ft ² R=0.0, 246.0(p) ft R=13.0, 1750.0 ft ² R=13.0, 180.0 ft ² R=38.0, 2065.0 ft ² Sup. R=6.0, 125.0 ft	b. N c. N la. H la. E la. C la. H la. E la. H la. H la. E la. H la. H la. E la. H la. H la. E la. H la. H la. E la. H la. H la. H la. H la. H la. E la. H la. H la. H la. H la. E la. H la. H la. H la. H la. E la. H la	A eating systems lectric Hear Pump A A water systems lectric Resistance	Cap: 42.0 kBtu/hr SEER: 12.00
Glass/Floor Area I hereby certify that the plans a by this calculation are in compl Energy Code. CM PREPARED BY: SUNCO DATE: 4 4 54 I hereby certify that this building	Total be nd specifications cover lance with the Florida AST INSULATORS	special calculum with Before this t		

Florida Statutes.

DATE:

BUILDING OFFICIAL:

	c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
	d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
	e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
₹ /	 f) Must show and identify accessibility requirements (accessible bathroom) Foundation Plan including:
	a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing
⊌ _	b) All posts and/or column footing including size and reinforcing
	c) Any special support required by soil analysis such as piling
	d) Location of any vertical steel
_/	Roof System:
₽	a) Truss package including:
	 Truss layout and truss details signed and sealed by Fl. Pro. Eng. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastenin requirements and product evaluation with wind resistance rating)
- NLA	b) Conventional Framing Layout including:
	Rafter size, species and spacing
	Attachment to wall and uplift
	Ridge beam sized and valley framing and support details
	Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fasteni
	requirements and product evaluation with wind resistance rating)
.1	Wall Sections including:
- N/A	a) Masonry wall
	All materials making up wall
	Block size and mortar type with size and spacing of reinforcement
	Lintel, tie-beam sizes and reinforcement
	 Gable ends with rake beams showing reinforcement or gable truss and wall bradetails
	 All required connectors with uplift rating and required number and size of fasten
	for continuous tie from roof to foundation
	Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system)
	materials, manufacturer, fastening requirements and product evaluation with resistance rating)
	7. Fire resistant construction (if required)
	8. Fireproofing requirements
	Shoe type of termite treatment (termicide or alternative method)
	10. Slab on grade
	 Vapor retardant (6mil. Polyethylene with joints lapped 6 inches and sealed)
	 Must show control joints, synthetic fiber reinforcement or
	Welded fire fabric reinforcement and supports
	11. Indicate where pressure treated wood will be placed
	12. Provide insulation R value for the following:
	a. Attic space
	b. Exterior wall cavity
	c. Crawl space (if applicable)

Floor Plan including:

b) Shear walls

 a) Rooms labeled and dimensioned

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE	AS-BUILT									
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area	Type/SC	Ove Omt	erhang Len		Area X	SF	PM >	SOI	= Points	
.18 2065.0 20.04 7448.9	Double, Clear	W	2.0	6.0	84.0	38	.52	0.85	2748.7	
	Double, Clear	E	2.0	6.0	118.0	42	.06	0.85	4209.2	
	Double, Clear	N	2.0	5.0	145.0	19	.20	0.90	2505,9	
	Double, Clear	\$	2.0	6.0	10.0	35	.87	0.76	278.3	
	As-Built Total:				367.0				9742.0	
WALL TYPES Area X BSPM = Point	Туре		R-1	/alue	e Area	Х	SP	M =	Points	
Adjacent 180.0 0.70 126.	Frame, Wood, Exterior		meleo sant debenhi	13.0	1750.0		1.5	0	2626.0	
Exterior 1750.0 1.70 2975.	Frame, Wood, Adjacent			13.0	180.0		0.6	D	108.0	
Bone Total: 1930.0 3101.	As-Built Total:				1930.0	3			2733.0	
DOOR TYPES Area X BSPM = Points	Туре				Area	Х	SP	M =	Points	
Adjacent 20.0 2.40 48.0	Exterior Insulated				100.0	i i i	4.1)	410.0	
Exterior 100.0 6.10 610.0	Adjacent Insulated				20.0		1.6	3	32.0	
Base Total: 120.0 658.	As-Built Total:				120,0				442.0	
CEILING TYPES Area X BSPM = Points	Туре	F	₹-Valu	е ,	Area X s	SPN	1 X S	CM =	Points	
Under Attic 2065.0 1.73 3572.	Under Attic	e.xxdettrinicht	olimaki Sidhelin (1961) yilin	38.0	2065,0	1.52	X 1.00)	3138.8	
Base Total: 2066.0 3572.	As-Built Total:				2065.0				3138,8	
FLOOR TYPES Area X BSPM = Points	Туре		R-V	/alus	Area	х	SP	M =	Points	
Stab 246.0(p) -37.0 -9102.0	Slab-On-Grade Edge Insulation	l .		0.0	246.0(p	le main	-41.20)	-10135.2	
Raised 0.0 0.00 0.0									41.0.24.00	
Base Total: -9102.	As-Built Total:				246.0				-10135.2	
INFILTRATION Area X BSPM = Points					Area	х	SP	VI =	Points	
2065.0 10.21 21083.					2065.	0	10.2	21	21083.7	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS:,,,	PERMIT #:
CONTROL OF THE PROPERTY OF THE	The second secon

BASE					AS-BUILT										
Summer Base Points: 26762.0				Summer As-Built Points:								27004.3			
Total Summer Points		System Aultiplier	=	Cooling Points	Total Componen	X	Cap Ratio		Duct Multiplie	er	System Multiplier		Credit Multiplier	=	Cooling
26762.0	0.	4266	1	11416.7	27004.3 27004. 3		1.000	(1.0	90 x 1.147 1250		0) 0.284 0.284		0.950 0.950		9122.2 122.2

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

8/	ASE				AS-	BU	ILT	- manufa			
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points	Type/SC C		rhang Len		Area X	W	РМ Х	wo	F = Point
.18 2065.0	12.74	4735.5	Double, Clear	W	2.0	6.0	84.0	20	0.73	1.04	1815.6
			Double, Clear	E	2.0	6.0	118.0	18	3.79	1.06	2351.8
			Double, Clear	N	2.0	6.0	145.0	24	4.58	1.00	3580.5
			Double, Clear	S	2.0	6.0	10.0	13	3.30	1.26	167.3
		IMAN WAS ARREST TO THE STATE OF	As-Built Total:				357.0			****	7915.2
WALL TYPES Are	a X BWP	M = Points	Туре		R-1	∕al ue	Area	Х	WPM	=	Points
Adjacent 16	0.0 3.6	0 648.0	Frame, Wood, Exterior			13.0	1750.0		3.40	No.	5950.0
Exterior 1750	0.0 3.7	0 6475.0	Frame, Wood, Adjacent			13.0	180.0		3,30		594.0
Base Total: 18	30.0	7123.0	As-Built Total:				1930.0				6644.0
DOOR TYPES Are	a X BWP	M = Points	Туре	i Pallina Ayan			Area	х	WPM	=	Points
Adjacent 20	0.0 11.5	230.0	Exterior insulated	THE COURSE	- White	AND DESCRIPTION OF THE PARTY OF	100.0	- Appear	8.40		840.0
Exterior 100	0.0 12.3	1230.0	Adjacent insulated				20.0		8.00		160.0
Base Total: 1	20,0	1460.0	As-Built Total:				120.0				1000.0
CEILING TYPESARE	a X BWP	M = Points	Турв	R-1	/alue	Αr	ea X W	PM	x wc	M =	Points
Under Attic 2063	5.0 2.00	5 4233.3	Under Aitic			38.0	2065.0	1.81	X 1.00	V CONTRACTOR OF THE PARTY OF TH	3737.6
Base Total: 29	65.0	4233.3	As-Built Total:				2065.0				3737.8
FLOOR TYPES Are	a X BWP	M = Points	Туре		R-V	/alue	Area	х	WPM	=	Points
Slab 246.00	(p) 8.3	2189.4	Slab-On-Grade Edge Insulation	156	and an income	0.0	246.0(p		18.80	Will	4624.8
	0.00	0.0				wason: 4	CONTRACTOR NOT				
Base Total:		2189.4	As-Built Total:			OTHER DESIGNATION OF THE PERSON OF THE PERSO	246.0				4624.8
INFILTRATION Are	a X BWP	M = Points					Area	X	WPM	=	Points
20	B5.0 -0.5	8 ~1218.3					2065.0)	-0,59		-1218.3

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS:,,,	PERMIT #:
the state of the s	THE COLUMN TWO IS NOT THE PERSON OF THE PERS

	BASE	AS-BUILT											
Winter Base	Winter As-Built Points:									22603.3			
Total Winter) Points	K System = Multiplier	Heating Points	Total Component	х	Cap Ratio		Duct Multiplie 4 x DSM x A	er	Multiplier		Credit Multiplier	=	Heating Points
18522.8	0.6274	11621.2	22603.3 2 2603.3		1.000	(1.0	69 x 1.169 1.250		0,487 0.487		0.950 0.950		13072.1 3072.1

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

	A STATE OF THE STA
ADDRESS:,,,	PERMIT #:

BASE					AS-BUILT										
WATER HEA Number of Bedrooms	X	Multiplier	25	Total	Tank Volume	EF	Number of Bedrooms	Х	Tank X Ratio	Multiplier >	Credit =				
3		2745,00		8238,0	50.0 As-Built To	0.88 stal:	3		1.00	2745.00	1.00	8235,0 8238.0			

CODE COMPLIANCE STATUS													
BASE						AS-BUILT							
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
11417		11621	-	8238		31276	9122		13072	-	8238	-	30432

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

POPHENTIAL CONTRACTOR SERVICE AND	
ADDRESS:,,,	PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum, 3 olm/sq.ft, window area; ,5 ofm/sq.ft, door area.	
Exterior & Adjacent Walfs	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seat 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 >1/6" sealed unless backed by trues or joint members. EXCEPTION: Frame floors where a continuous inflitration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Cellings	606.1 ABC.1.2.3	Between walks & ceitings; penetrations of ceiting 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 ceitings 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	806.1.ABC.1.2.5	Air berrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters compty 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 advordance with the criteria of Section 510. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostal for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.2

The higher the score, the more efficient the home.

				, , ,	, ,			
	New construction or existing Single family or multi-family Number of units, if multi-family Number of Bedrooms Is this a worst case? Conditioned floor area (ft²) Glass area & type Clear - single pane	Single Pane	New Single family 1 3 Yes 2065 ft ^o Double Pane 357.0 ft ²		12. a b c.	Cooling systems Central Unit N/A N/A Heating systems	Cap: 42.0 kBm/h; SEER: 12.00	-
c. d 8.	Clear - double pane Tint/other SHGC - single pane Tint/other SHGC - double pane Floor types Slab-On-Grade Edge Insulation	0.0 ft² 0.0 ft² R≕(0.0 ft ² 0.0 ft ²	_	b.	Electric Heat Pump N/A N/A	Cap: 40.0 kBtu/hr HSPF: 7.00	
0. 9. a. b. c. 10. a. b. c. 11. a.	N/A N/A Wall types Frame, Wood, Exterior Frame, Wood, Adjacent N/A N/A N/A Ceiling types Under Attic N/A N/A Ducts Sup: Unc. Ret: Unc. AH: Garage N/A	R=1 R=	3.0, 1750.0 ft ² 13.0, 180.0 ft ² 8.0, 2065.0 ft ² =6.0, 125.0 ft		a. b. c.	Hot water systems Electric Resistance N/A Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizene cooling,	Cap: 50.0 gallons EF: 0.88	
I cen Con in th base	rtify that this home has complistruction through the above entits home before final inspection don installed Code compliant der Signature;	nergy saving for the control of the	eatures which	th will Display	be in y Ca	stalled (or exceeded)	THE STATE OF THE S	ORUM
wa 700	TT. TI							

*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStd^{1st} designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

EnergyGauge® (Version: FLRCSB v3.30)