SS1833Newton
HVAC Load Calculations

for

Steve Smith
9651 Ne 110th Ave
Archer, Fl 32618

Elite Software

RHVAC Residential HVAC Loads

Prepared By:

Richard Hunt
Todays Heating And Air Inc.
PO Box 147
Lacrosse, Fl 32658
386-462-2168
Monday, September 27, 2021

Rhvac is an ACCA approved Manual J, D and S computer program.
Calculations are performed per ACCA Manual J 8th Edition, Version 2, and ACCA Manual D.

Project Report

General Project Information

Project Title:	SS1833Newton
Designed By:	Rah
Project Date:	9/24/2021
Project Comment:	166 Feather Lane (Lot 53) Ft. White
Client Name:	Steve Smith
Client Address:	9651 Ne 110th Ave
Client City:	Archer, Fl 32618
Company Name:	Todays Heating And Air Inc.
Company Representative:	Richard Hunt
Company Address:	PO Box 147
Company City:	Lacrosse, Fl 32658
Company Phone:	386-462-2168
Company Fax:	386-462-1184

Design Data

Reference City:		Gainesville, Florida
Building Orientation:		Front door faces North
Daily Temperature Range:		Medium
Latitude:	29	Degrees
Elevation:	152	ft.
Altitude Factor:	0.995	

	Outdoor Dry Bulb	Outdoor Wet Bulb	Outdoor Rel.Hum	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	31	28.98	n/a	n/a	72	n/a
Summer:	93	77	49%	50%	75	50

Check Figures

Total Building Supply CFM:	950	CFM Per Square ft.:	0.518
Square ft. of Room Area:	1,833	Square ft. Per Ton:	887
Volume (ft³):	19,838		

Building Loads

Total Heating Required Including Ventilation Air:	33,552 Btuh	33.552	MBH
Total Sensible Gain:	18,597 Btuh	79	%
Total Latent Gain:	4,990 Btuh	21	%
Total Cooling Required Including Ventilation Air:	23,587 Btuh	1.97	Tons (Based On Sensible + Latent)
		2.07	Tons (Based On 75% Sensible Capacity)

Notes

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Calculations are performed per ACCA Manual J 8th Edition, Version 2, and ACCA Manual D.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.

Miscellaneous Report

System 1 Main Input Data	Outdoor Dry Bulb	Outdoor Wet Bulb	Outdoor Rel.Hum	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	31	28.98	80%	n/a	72	n/a
Summer:	93	77	49%	50%	75	50.06

Duct Sizing Inputs

	Main Trunk		Runouts	
Calculate:	Yes		Yes	
Use Schedule:	Yes		Yes	
Roughness Factor:	0.00300		0.01000	
Pressure Drop:	0.1000	in.wg./100 ft.	0.1000	in.wg./100 ft.
Minimum Velocity:	650	ft./min	550	ft./min
Maximum Velocity:	900	ft./min	700	ft./min
Minimum Height:	8	in.	4	in.
Maximum Height:	0	in.	9	in.

Outside Air Data

	Winter		Summer	
Infiltration Specified:	0.419	AC/hr	0.200	AC/hr
	139	CFM	66	CFM
Infiltration Actual:	0.419	AC/hr	0.200	AC/hr
Above Grade Volume:	X 19,838	Cu.ft.	X 19,838	Cu.ft.
	8,318	Cu.ft./hr	3,968	Cu.ft./hr
	X 0.0167		X 0.0167	
Total Building Infiltration:	139	CFM	66	CFM
Total Building Ventilation:	0	CFM	0	CFM

---System 1---

Infiltration & Ventilation Sensible Gain Multiplier: 19.69 = (1.10 X 0.995 X 18.00 Summer Temp. Difference)
Infiltration & Ventilation Latent Gain Multiplier: 33.85 = (0.68 X 0.995 X 50.06 Grains Difference)
Infiltration & Ventilation Sensible Loss Multiplier: 44.85 = (1.10 X 0.995 X 41.00 Winter Temp. Difference)
Winter Infiltration Specified: 0.380 AC/hr (126 CFM), Construction: Average, Fireplaces: 1, 13 CFM, Semi-Tight
Summer Infiltration Specified: 0.200 AC/hr (66 CFM), Construction: Average

Duct Load Factor Scenarios for System 1

No.	Type	Description	Location	Attic Ceiling	Duct Leakage	Duct Insulation	Surface Area	From [T]MDD
1	Supply	Main	Attic	16C	0.12	6	328	No
1	Return	Main	Cond. Space	-	0.24	6	61	No

Total Building Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
SSGUG: Glazing-Low E Operable window, indoor insect screen with 50% coverage, medium color blinds at 45° with 25% coverage, U-value 0.34, SHGC 0.28	186.3	2,598	0	3,067	3,067
SS10FD: Glazing-Low-E French Door, U-value 0.33, SHGC 0.32	79.2	1,072	0	1,013	1,013
11N: Door-Metal - Polystyrene Core, U-value 0.35	39.6	568	0	402	402
13A-5ocs: Wall-Block, board insulation only, R-5 board insulation, open core, siding finish, U-value 0.125	1443.3	7,397	0	3,301	3,301
16C-38: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-38 insulation, U-value 0.026	1833	1,955	0	2,048	2,048
16C-19: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-19 insulation, U-value 0.049	136	274	0	286	286
22A-pl: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, light dry soil, U-value 0.989	188	7,624	0	0	0
Subtotals for structure:		21,488	0	10,117	10,117
People:	7		1,400	1,610	3,010
Equipment:			640	2,600	3,240
Lighting:	0			0	0
Ductwork:		5,847	711	2,967	3,678
Infiltration: Winter CFM: 139, Summer CFM: 66		6,217	2,239	1,303	3,542
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
Total Building Load Totals:		33,552	4,990	18,597	23,587

Check Figures

Total Building Supply CFM:	950	CFM Per Square ft.:	0.518
Square ft. of Room Area:	1,833	Square ft. Per Ton:	887
Volume (ft³):	19,838		

Building Loads

Total Heating Required Including Ventilation Air:	33,552 Btuh	33.552	MBH
Total Sensible Gain:	18,597 Btuh	79	%
Total Latent Gain:	4,990 Btuh	21	%
Total Cooling Required Including Ventilation Air:	23,587 Btuh	1.97	Tons (Based On Sensible + Latent)
		2.07	Tons (Based On 75% Sensible Capacity)

Notes

Rhvac is an ACCA approved Manual J, D and S computer program.
Calculations are performed per ACCA Manual J 8th Edition, Version 2, and ACCA Manual D.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.

System 1 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Min Htg CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Min Clg CFM	Act Sys CFM
---Zone 1---										
1	Family Room	252	3,552	46	1-6	580	2,229	614	102	114
2	Living Room	231	6,258	82	1-7	590	3,085	629	141	158
3	Laundry	84	257	3	1-4	503	859	12	39	44
4	Master Bath	138	4,465	58	1-6	321	1,233	665	56	63
5	Master Bedroom	224	2,749	36	1-6	562	2,158	567	99	110
6	Kitchen/dining	342	4,121	54	2-6	449	3,453	226	158	176
7	Bedroom 2	240	5,338	70	1-6	651	2,502	569	114	128
8	Bath 2	82	885	12	1-4	234	400	380	18	20
9	Bedroom 3	240	5,927	77	1-6	697	2,678	617	122	137
	Duct Latent							711		
	System 1 total	1,833	33,552	438			18,597	4,990	850	950

System 1 Main Trunk Size:	12x14	in.
Velocity:	814	ft./min
Loss per 100 ft.:	0.106	in.wg

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	1.97	79% / 21%	18,597	4,990	23,587
Recommended:	2.07	75% / 25%	18,597	6,199	24,796
Actual:	2.37	75% / 25%	21,300	7,100	28,400

Equipment Data

	Heating System	Cooling System
Type:	Air Source Heat Pump	Air Source Heat Pump
Model:	GSZ140301K*	GSZ140301K*
Indoor Model:		ASPT37C14A*
Brand:	GSZ14	GSZ14
Description:	Air Source Heat Pump	Air Source Heat Pump
Efficiency:	8.5 HSPF	15 SEER
Sound:	0	0
Capacity:	28,000 Btuh	28,400 Btuh
Sensible Capacity:	n/a	21,300 Btuh
Latent Capacity:	n/a	7,100 Btuh
AHRI Reference No.:	n/a	201664209

This system's equipment was selected in accordance with ACCA Manual S.
Manual S equipment sizing data: SODB: 93F, SOWB: 77F, WODB: 31F, SIDB: 75F, SIRH: 50%, WIDB: 72F, Sen. gain: 18,597 Btuh, Lat. gain: 4,990 Btuh, Sen. loss: 33,552 Btuh, Entering clg. coil DB: 75F, Entering clg. coil WB: 62.5F, Entering htg. coil DB: 72F, Clg. coil TD: 20F, Htg. coil TD: 70F, Req. clg. airflow: 850 CFM, Req. htg. airflow: 438 CFM

FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	SS1833Newton	Builder Name:	Steve Smith
Street:	166 Feather Lane (Lot 53)	Permit Office:	
City, State, Zip:	Ft White , FL ,	Permit Number:	
Owner:	Steve Smith	Jurisdiction:	
Design Location:	FL, Gainesville	County:	Columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Detached
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	1833
Conditioned floor area below grade (ft²)	0

7. Windows(265.5 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.34	186.29 ft²
SHGC:	SHGC=0.28	
b. U-Factor:	Dbl, U=0.33	79.20 ft²
SHGC:	SHGC=0.32	
c. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		1.425 ft.
Area Weighted Average SHGC:		0.292

8. Skylights		Area
c. U-Factor:(AVG)	N/A	ft²
SHGC(AVG):	N/A	

9. Floor Types (1833.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1833.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Types(1748.4 sqft.)	Insulation	Area
a. Concrete Block - Int Insul, Exterior	R=5.0	1748.40 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

11. Ceiling Types (1969.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=38.0	1833.00 ft²
b. Knee Wall (Vented)	R=19.0	136.00 ft²
c. N/A	R=	ft²

12. Ducts	R	ft²
a. Sup: Attic, Ret: Main, AH: Main	6	366.6

13. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	28.4	SEER:15.00

14. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	28.0	HSPF:8.50

15. Hot water systems	
a. Electric	Cap: 40 gallons
	EF: 0.950
b. Conservation features	
None	
16. Credits	CF, Pstat

Glass/Floor Area: 0.145

Total Proposed Modified Loads: 52.46

Total Baseline Loads: 54.82

PASS

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

PREPARED BY: K. Hunt

DATE: 9/27/21

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

OWNER/AGENT: K. Smith

DATE: 9/27/21

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

BUILDING OFFICIAL: _____

DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	SS1833Newton	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1833	Lot #	
Owner Name:	Steve Smith	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Steve Smith	Rotate Angle:	0	Street:	166 Feather Lane (Lot 5
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Ft White ,
Family Type:	Detached				FL ,
New/Existing:	New (From Plans)				
Comment:	166 Feather Lane (Lot 53				

CLIMATE

√	Design Location	TMY Site	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	1833	19796.4

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1833	19796.4	Yes	7	3	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	187 ft	0	1833 ft²	----	0	0	1

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Composition shingles	2049 ft²	458 ft²	Medium	N	0.96	No	0.9	No	0	26.57

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1833 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Blown	1833 ft²	0.11	Wood
_____	2	Knee Wall (Vented)	Main	19	Blown	136 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
____	1	N	Exterior	Concrete Block - Int Insul	Main	5	18	0	9.3	0	167.4 ft²	0	0	0.5	0
____	2	N	Exterior	Concrete Block - Int Insul	Main	5	25	0	9.3	0	232.5 ft²	0	0	0.5	0
____	3	E	Exterior	Concrete Block - Int Insul	Main	5	11	0	9.3	0	102.3 ft²	0	0	0.5	0
____	4	N	Exterior	Concrete Block - Int Insul	Main	5	1	0	9.3	0	9.3 ft²	0	0	0.5	0
____	5	E	Exterior	Concrete Block - Int Insul	Main	5	23	0	9.3	0	213.9 ft²	0	0	0.5	0
____	6	S	Exterior	Concrete Block - Int Insul	Main	5	6	0	9.3	0	55.8 ft²	0	0	0.5	0
____	7	S	Exterior	Concrete Block - Int Insul	Main	5	14	0	9.3	0	130.2 ft²	0	0	0.5	0
____	8	S	Exterior	Concrete Block - Int Insul	Main	5	19	0	9.3	0	176.7 ft²	0	0	0.5	0
____	9	S	Exterior	Concrete Block - Int Insul	Main	5	16	0	9.3	0	148.8 ft²	0	0	0.5	0
____	10	W	Exterior	Concrete Block - Int Insul	Main	5	15	0	9.3	0	139.5 ft²	0	0	0.5	0
____	11	W	Exterior	Concrete Block - Int Insul	Main	5	5	0	9.3	0	46.5 ft²	0	0	0.5	0
____	12	W	Exterior	Concrete Block - Int Insul	Main	5	15	0	9.3	0	139.5 ft²	0	0	0.5	0
____	13	N	Exterior	Concrete Block - Int Insul	Main	5	20	0	9.3	0	186.0 ft²	0	0	0.5	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	N	Insulated	Main	None	.35	3		6.6		19.8 ft²
_____	2	S	Insulated	Main	None	.35	3		6.6		19.8 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N	1	Vinyl	Low-E Double	Yes	0.34	0.28	N	18.3 ft²	5 ft 0 in	1 ft 0 in	Drapes/blinds	Interior 5
_____	2	E	3	Vinyl	Low-E Double	Yes	0.34	0.28	N	26.2 ft²	1 ft 0 in	6 ft 0 in	Drapes/blinds	Interior 5
_____	3	N	2	Vinyl	Low-E Double	Yes	0.34	0.28	N	36.6 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Interior 5
_____	4	E	5	Vinyl	Low-E Double	Yes	0.34	0.28	N	2.6 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Interior 5
_____	5	S	7	Vinyl	Low-E Double	Yes	0.33	0.32	N	39.6 ft²	2 ft 0 in	1 ft 0 in	None	None
_____	6	S	8	Vinyl	Low-E Double	Yes	0.34	0.28	N	9.3 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Interior 5
_____	7	S	8	Vinyl	Low-E Double	Yes	0.33	0.32	N	39.6 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	8	S	9	Vinyl	Low-E Double	Yes	0.34	0.28	N	26.2 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Interior 5
_____	9	W	10	Vinyl	Low-E Double	Yes	0.34	0.28	N	18.3 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Interior 5
_____	10	W	11	Vinyl	Low-E Double	Yes	0.34	0.28	N	4.2 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Interior 5
_____	11	W	12	Vinyl	Low-E Double	Yes	0.34	0.28	N	26.2 ft²	1 ft 0 in	6 ft 0 in	Drapes/blinds	Interior 5
_____	12	N	13	Vinyl	Low-E Double	Yes	0.34	0.28	N	18.3 ft²	1 ft 0 in	6 ft 0 in	Drapes/blinds	Interior 5

FORM R405-2020

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.00048	2309.6	126.71	237.88	.1547	7

HEATING SYSTEM

√	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	Split	Singl	HSPF:8.5	28 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	Split	Singl	SEER: 15	28.4 kBtu/hr	852 cfm	0.75	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Main	0.95	40 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
_____	1	Attic	6	366.6 ft	Main	91.65 ft	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

INPUT SUMMARY CHECKLIST REPORT

Thermostat Schedule: HERS 2006 Reference		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	Main

FORM R405-2020

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

The lower the EnergyPerformance Index, the more efficient the home.

166 Feather Lane (Lot 53), Ft White, FL,

1. New construction or existing		New (From Plans)		
2. Single family or multiple family		Detached		
3. Number of units, if multiple family		1		
4. Number of Bedrooms		3		
5. Is this a worst case?		No		
6. Conditioned floor area (ft²)		1833		
7. Windows**	Description		Area	
a. U-Factor:	Dbl, U=0.34		186.29	ft²
SHGC:	SHGC=0.28			
b. U-Factor:	Dbl, U=0.33		79.20	ft²
SHGC:	SHGC=0.32			
c. U-Factor:	N/A			ft²
SHGC:				
d. U-Factor:	N/A			ft²
SHGC:				
Area Weighted Average Overhang Depth:			1.425	ft.
Area Weighted Average SHGC:			0.292	
8. Skylights	Description		Area	
a. U-Factor(AVG):	N/A			ft²
SHGC(AVG):	N/A			
9. Floor Types		Insulation	Area	
a. Slab-On-Grade Edge Insulation		R=0.0	1833.00	ft²
b. N/A		R=		ft²
c. N/A		R=		ft²

10. Wall Type and Insulation	Insulation	Area
a. Concrete Block - Int Insul, Exterior	R=5.0	1748.40 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²
11. Ceiling Type and insulation level	Insulation	Area
a. Under Attic (Vented)	R=38.0	1833.00 ft²
b. Knee Wall (Vented)	R=19.0	136.00 ft²
c. N/A	R=	ft²
12. Ducts, location & insulation level		R ft²
a. Sup: Attic, Ret: Main, AH: Main		6 366.6
13. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	28.4	SEER:15.00
14. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	28.0	HSPF:8.50
15. Hot water systems		
a. Electric		Cap: 40 gallons
		EF: 0.95
b. Conservation features		
None		
Credits (Performance method)		CF, Pstat

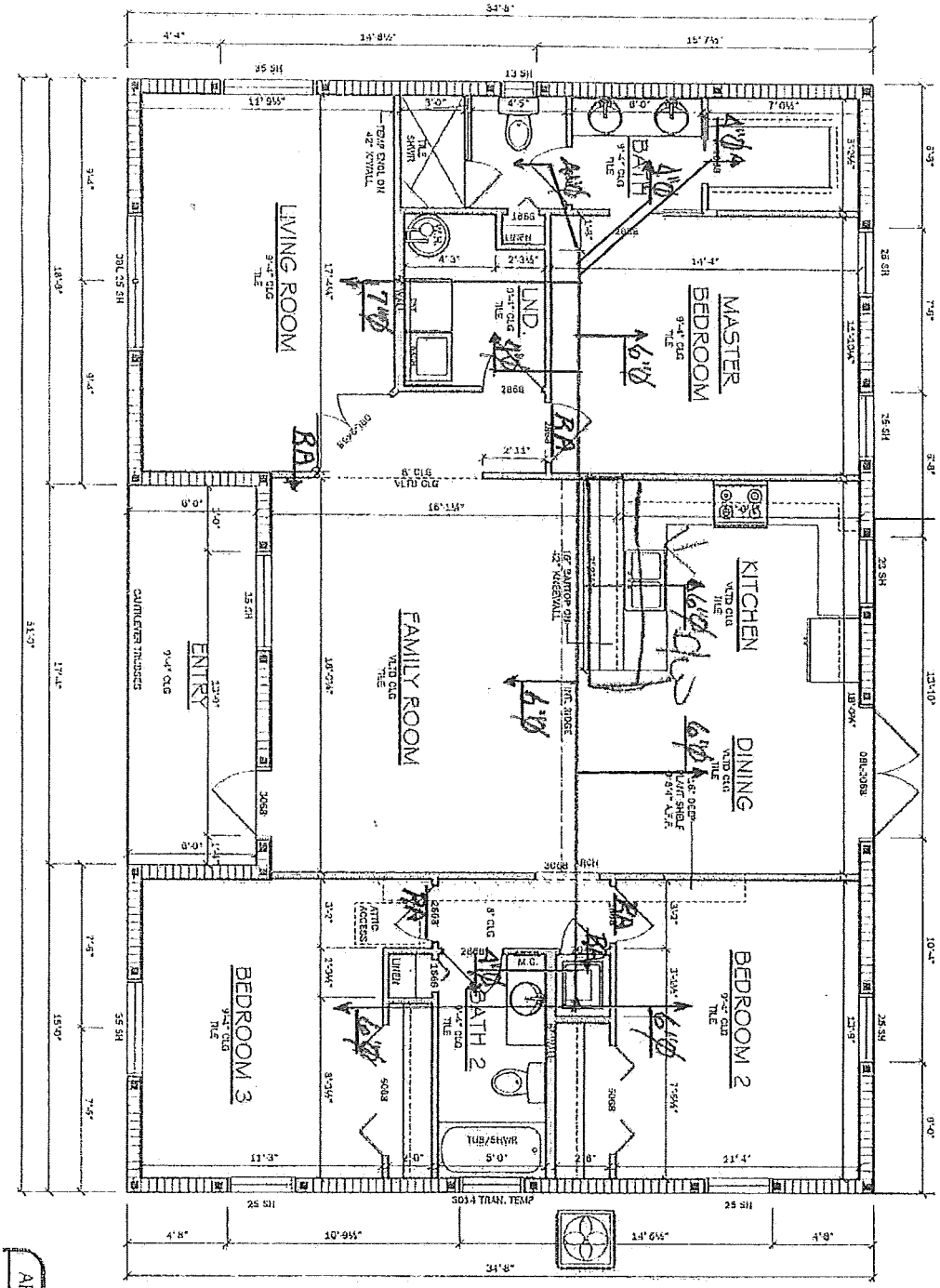
I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant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

Builder Signature: [signature] Date: 9/27/21

Address of New Home: 166 Feather Lane Ft. White City/FL Zip:

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.



AREA CALCULATIONS

SHEET NO.
2 OF 4

PROJECT:
Newton Residence
Tract 54

LAST PLOT DATE: August 03, 2020 09:24 AM

STEVE CONSTRUCTION INCORPORATED

#CBC125(
9651 NE 110th Ave /
(352) 486-