

*SS1833Newton
HVAC Load Calculations*

for

Steve Smith
9651 Ne 110th Ave
Archer, FL 32618



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



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: Today's 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

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.



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 139 CFM	0.200 AC/hr 66 CFM
Infiltration Actual:	0.419 AC/hr	0.200 AC/hr
Above Grade Volume:	X 19,838 Cu.ft. 8,318 Cu.ft./hr X 0.0167	X 19,838 Cu.ft. 3,968 Cu.ft./hr 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 (ft ³):	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

Room 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

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: SS1833Newton Street: 166 Feather Lane (Lot 53) City, State, Zip: Ft White , FL , Owner: Steve Smith Design Location: FL, Gainesville	Builder Name: Steve Smith Permit Office: Permit Number: Jurisdiction: 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 Type\$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 Cap: 40 gallons a. Electric EF: 0.950 b. Conservation features None 16. Credits CF, Pstat
--	--

Glass/Floor Area: 0.145	Total Proposed Modified Loads: 52.46	PASS
	Total Baseline Loads: 54.82	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>R. Hunt</u> DATE: <u>9/27/21</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>K. Smith</u> DATE: <u>9/27/21</u>	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 , FL ,
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:	166 Feather Lane (Lot 53				

CLIMATE

✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	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 Tested	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	In	Height Ft	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	In	Height Ft	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	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

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	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
✓	Cert #	None	None			ft²	

DUCTS

✓	#	---- Supply ----	---- Return ----	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:						
Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec
Heating	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] Nov	[X] Dec
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] Nov	[] Dec

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					

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)	10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=5.0	1748.40 ft ²
3. Number of units, if multiple family	1	b. N/A	R=	ft ²
4. Number of Bedrooms	3	c. N/A	R=	ft ²
5. Is this a worst case?	No	d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	1833	11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=38.0	1833.00 ft ²
a. U-Factor:	DbI, U=0.34	b. Knee Wall (Vented)	R=19.0	136.00 ft ²
SHGC:	SHGC=0.28	c. N/A	R=	ft ²
b. U-Factor:	DbI, U=0.33	12. Ducts, location & insulation level	R	ft ²
SHGC:	SHGC=0.32	a. Sup: Attic, Ret: Main, AH: Main	6	366.6
c. U-Factor:	N/A			
SHGC:		13. Cooling systems	kBtu/hr	Efficiency
d. U-Factor:	N/A	a. Central Unit	28.4	SEER:15.00
SHGC:				
Area Weighted Average Overhang Depth:	1.425 ft.	14. Heating systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.292	a. Electric Heat Pump	28.0	HSPF:8.50
8. Skylights	Description			
a. U-Factor(AVG):	N/A	15. Hot water systems	Cap: 40 gallons	
SHGC(AVG):	N/A	a. Electric	EF: 0.95	
9. Floor Types	Insulation	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	None		
b. N/A	R=	Credits (Performance method)	CF, Pstat	
c. N/A	R=			

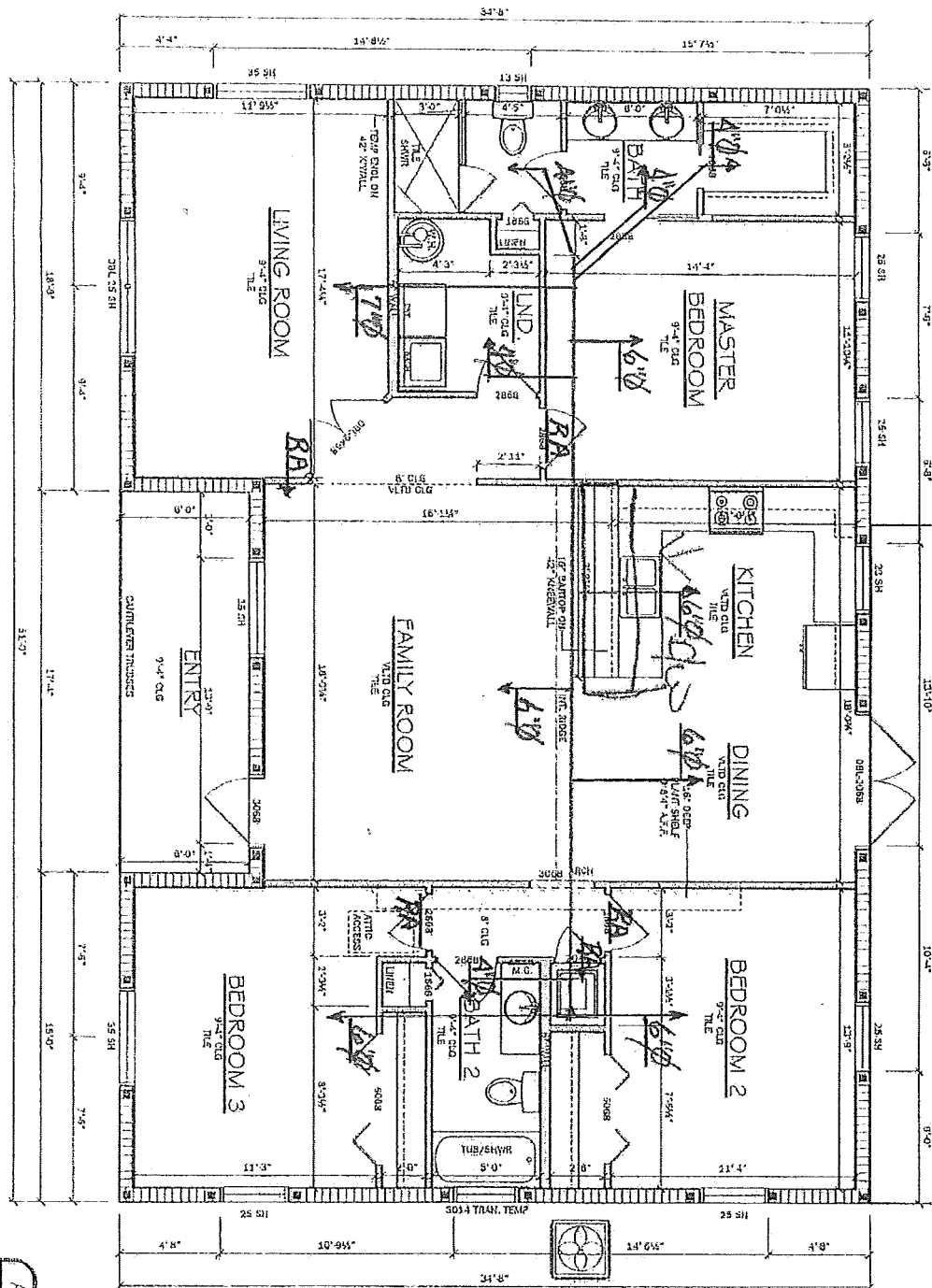
I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant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

Builder Signature: [Signature] Date: 9/27/21
 Address of New Home: 166 Feather Lane City/FL Zip: Ft. White



*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.



SHEET NO.

PROJECT:
Newton Residence
Tract 54

LAST PLOT DATE: August 03, 2020

09:24 AM



#CBC1251
110th Ave /
(352) 486-