SS 1664 Newton
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, January 25, 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:	SS 1664 Newton
Designed By:	Rah
Project Date:	1/21/21
Project Comment:	Lot 54 SW Rum Island Terrace
	Fort White, FL 32038
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 East
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.:	0.571
Square ft. of Room Area:	1,664	Square ft. Per Ton:	739
Volume (ft³):	14,390		

Building Loads

Total Heating Required Including Ventilation Air:	34,409 Btuh	34.409	MBH
Total Sensible Gain:	20,265 Btuh	81	%
Total Latent Gain:	4,602 Btuh	19	%
Total Cooling Required Including Ventilation Air:	24,868 Btuh	2.07	Tons (Based On Sensible + Latent)
		2.25	Tons (Based On 75% Sensible Capacity)

Notes

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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 System 1 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	500	ft./min
Maximum Velocity:	900	ft./min	650	ft./min
Minimum Height:	8	in.	4	in.
Maximum Height:	0	in.	8	in.

Outside Air Data

	Winter		Summer	
Infiltration Specified:	0.434	AC/hr	0.200	AC/hr
	104	CFM	48	CFM
Infiltration Actual:	0.434	AC/hr	0.200	AC/hr
Above Grade Volume:	X 14,390	Cu.ft.	X 14,390	Cu.ft.
	6,248	Cu.ft./hr	2,878	Cu.ft./hr
	X 0.0167		X 0.0167	
Total Building Infiltration:	104	CFM	48	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 (91 CFM), Construction: Average, Fireplaces: 1, 13 CFM, Semi-Tight
Summer Infiltration Specified: 0.200 AC/hr (48 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	16B	0.12	6	449	No
1	Return	Main	Cond. Space	-	0.24	6	83	No

Total Building Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
SSGUG: Glazing-Low E Operable window, outdoor insect screen with 50% coverage, medium color blinds at 45° with 25% coverage, U-value 0.34, SHGC 0.28	157	2,188	0	2,860	2,860
SSGUG: Glazing-Low E Operable window, outdoor insect screen with 50% coverage, U-value 0.34, SHGC 0.28	8.7	121	0	94	94
SS10FD: Glazing-Low-E French Door, U-value 0.33, SHGC 0.32	39.6	536	0	1,417	1,417
SSGUG: Glazing-Low E Operable window, medium color blinds at 45° with 25% coverage, U-value 0.34, SHGC 0.28	15	209	0	409	409
11N: Door-Metal - Polystyrene Core, U-value 0.35	19.8	284	0	201	201
13A-5ocs: Wall-Block, board insulation only, R-5 board insulation, open core, siding finish, U-value 0.125	1214.3	6,222	0	2,779	2,779
16B-38: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), Vented Attic, No Radiant Barrier, Dark Asphalt Shingles or Dark Metal, Tar and Gravel or Membrane, R-38 insulation, U-value 0.026	1664	1,774	0	2,293	2,293
16B-19: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), Vented Attic, No Radiant Barrier, Dark Asphalt Shingles or Dark Metal, Tar and Gravel or Membrane, R-19 insulation, U-value 0.049	112	226	0	290	290
22A-ph-c: Floor-Slab on grade, No edge insulation, no insulation below floor, carpet covering, passive, heavy moist soil, U-value 1.358	182	10,133	0	0	0
Subtotals for structure:		21,693	0	10,343	10,343
People:	6		1,200	1,380	2,580
Equipment:			640	2,400	3,040
Lighting:	0			0	0
Ductwork:		8,046	1,137	4,544	5,681
Infiltration: Winter CFM: 104, Summer CFM: 48		4,670	1,625	945	2,570
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
AED Excursion:		0	0	653	653
Total Building Load Totals:		34,409	4,602	20,265	24,868

Check Figures

Total Building Supply CFM:	950	CFM Per Square ft.:	0.571
Square ft. of Room Area:	1,664	Square ft. Per Ton:	739
Volume (ft³):	14,390		

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Notes

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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	320	4,113	54	1-6	587	2,457	370	112	115
2	Living Room	250	6,800	89	1-7	569	3,247	533	148	152
3	Laundry	72	261	3	1-4	522	971	9	44	46
4	Master Bath/closet	120	4,491	59	3-4	200	1,115	557	51	52
5	Master Bedroom	180	2,511	33	1-6	596	2,498	507	114	117
6	Kitchen/dining	219	4,024	53	2-6	581	4,863	170	222	228
7	Bedroom 2	214	5,114	67	1-6	530	2,222	450	102	104
8	Bath 2/hall	75	946	12	1-4	184	342	365	16	16
9	Bedroom 3	214	6,149	80	1-6	609	2,551	504	117	120
	Duct Latent							1,137		
	System 1 total	1,664	34,409	449			20,265	4,602	926	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:	2.07	81% / 19%	20,265	4,602	24,868
Recommended:	2.25	75% / 25%	20,265	6,755	27,021
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: 20,265 Btuh, Lat. gain: 4,602 Btuh, Sen. loss: 34,409 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: 926 CFM, Req. htg. airflow: 449 CFM

FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	SS 1664 Newton	Builder Name:	Steve Smith
Street:	Lot 54 SW Rum Island Terrace	Permit Office:	
City, State, Zip:	Ft. White , FL , 32038	Permit Number:	
Owner:	Newton	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?	Yes
6. Conditioned floor area above grade (ft²)	1664
Conditioned floor area below grade (ft²)	0

7. Windows(222.8 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.34	183.20 ft²
SHGC:	SHGC=0.28	
b. U-Factor:	Dbl, U=0.33	39.60 ft²
SHGC:	SHGC=0.32	
c. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		1.934 ft.
Area Weighted Average SHGC:		0.287

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

9. Floor Types (1664.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1664.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Type(1454.4 sqft.)	Insulation	Area
a. Concrete Block - Int Insul, Exterior	R=5.0	1454.40 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

11. Ceiling Types (1776.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=38.0	1664.00 ft²
b. Knee Wall (Vented)	R=19.0	112.00 ft²
c. N/A	R=	ft²

12. Ducts	R	ft²
a. Sup: Attic, Ret: Main, AH: Main	6	315.6

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: 0.920
b. Conservation features	
None	
16. Credits	CF, Pstat

Glass/Floor Area: 0.134

Total Proposed Modified Loads: 46.00

Total Baseline Loads: 47.44

PASS

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

PREPARED BY: R. Hunt

DATE: 1/25/2021

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

OWNER/AGENT: R. Hunt

DATE: 1/25/2021

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).

FORM R405-2020

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	SS 1664 Newton	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1664	Lot #	
Owner Name:	Newton	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	Yes	PlatBook:	
Builder Name:	Steve Smith	Rotate Angle:	180	Street:	Lot 54 SW Rum Island
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Ft. White , FL , 32038
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:					

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	1664	14476.8

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1664	14476.8	Yes	6	3	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	178 ft	0	1664 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	Hip	Composition shingles	1860 ft²	0 ft²	Dark	N	0.92	No	0.9	No	0	26.57

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1664 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Blown	1664 ft²	0.11	Wood
_____	2	Knee Wall (Vented)	Main	19	Blown	112 ft²	0.11	Wood

FORM R405-2020

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	W=>E	Exterior	Concrete Block - Int Insul	Main	5	19	0	8	0	152.0 ft²	0	0	0.5	0
____	2	W=>E	Exterior	Concrete Block - Int Insul	Main	5	18	0	8	0	144.0 ft²	0	0	0.5	0
____	3	N=>S	Exterior	Concrete Block - Int Insul	Main	5	13.3	0	8	0	106.4 ft²	0	0	0.5	0
____	4	S=>N	Exterior	Concrete Block - Int Insul	Main	5	6	0	8	0	48.0 ft²	0	0	0.5	0
____	5	N=>S	Exterior	Concrete Block - Int Insul	Main	5	1	0	8	0	8.0 ft²	0	0	0.5	0
____	6	N=>S	Exterior	Concrete Block - Int Insul	Main	5	26.5	0	8	0	212.0 ft²	0	0	0.5	0
____	7	E=>W	Exterior	Concrete Block - Int Insul	Main	5	12	0	8	0	96.0 ft²	0	0	0.5	0
____	8	E=>W	Exterior	Concrete Block - Int Insul	Main	5	19	0	8	0	152.0 ft²	0	0	0.5	0
____	9	E=>W	Exterior	Concrete Block - Int Insul	Main	5	14	0	8	0	112.0 ft²	0	0	0.5	0
____	10	S=>N	Exterior	Concrete Block - Int Insul	Main	5	14	0	8	0	112.0 ft²	0	0	0.5	0
____	11	S=>N	Exterior	Concrete Block - Int Insul	Main	5	5	0	8	0	40.0 ft²	0	0	0.5	0
____	12	W=>E	Exterior	Concrete Block - Int Insul	Main	5	14	0	8	0	112.0 ft²	0	0	0.5	0
____	13	S=>N	Exterior	Concrete Block - Int Insul	Main	5	14	0	8	0	112.0 ft²	0	0	0.5	0
____	14	N=>S	Exterior	Concrete Block - Int Insul	Main	5	6	0	8	0	48.0 ft²	0	0	0.5	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	W=>E	Insulated	Main	None	.35	3		6.6		19.8 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	W=>E	1	Vinyl	Low-E Double	Yes	0.34	0.28	N	21.5 ft²	6 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	2	W=>E	2	Vinyl	Low-E Double	Yes	0.34	0.28	N	30.0 ft²	1.5 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	3	N=>S	6	Vinyl	Low-E Double	Yes	0.34	0.28	N	4.8 ft²	1.5 ft 0 in	1 ft 0 in	None	Exterior 5
_____	4	E=>W	7	Vinyl	Low-E Double	Yes	0.34	0.28	N	30.0 ft²	1.5 ft 0 in	1 ft 0 in	None	None
_____	5	E=>W	8	Vinyl	Low-E Double	Yes	0.34	0.28	N	9.0 ft²	1.5 ft 0 in	1 ft 0 in	None	Exterior 5
_____	6	E=>W	8	Vinyl	Low-E Double	Yes	0.33	0.32	N	39.6 ft²	1.5 ft 0 in	1 ft 0 in	None	None
_____	7	S=>N	10	Vinyl	Low-E Double	Yes	0.34	0.28	N	15.0 ft²	1.5 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	8	S=>N	11	Vinyl	Low-E Double	Yes	0.34	0.28	N	6.4 ft²	1.5 ft 0 in	1 ft 0 in	None	Exterior 5
_____	9	W=>E	12	Vinyl	Low-E Double	Yes	0.34	0.28	N	21.5 ft²	1.5 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
_____	10	N=>S	3	Vinyl	Low-E Double	Yes	0.34	0.28	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
_____	11	E=>W	9	Vinyl	Low-E Double	Yes	0.34	0.28	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
_____	12	S=>N	13	Vinyl	Low-E Double	Yes	0.34	0.28	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None

FORM R405-2020

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000387	1689	92.66	173.96	.1418	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	0.92	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	315.6 ft	Main	78.9 ft²	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* = 97

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

Lot 54 SW Rum Island Terrace, Ft. White, FL, 32038

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?		Yes
6. Conditioned floor area (ft²)		1664
7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.34	183.20 ft²
SHGC:	SHGC=0.28	
b. U-Factor:	Dbl, U=0.33	39.60 ft²
SHGC:	SHGC=0.32	
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		1.934 ft.
Area Weighted Average SHGC:		0.287
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	1664.00 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	1454.40 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	1664.00 ft²
b. Knee Wall (Vented)	R=19.0	112.00 ft²
c. N/A	R=	ft²
12. Ducts, location & insulation level		R ft²
a. Sup: Attic, Ret: Main, AH: Main		6 315.6
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: 0.92
b. Conservation features		
None		
Credits (Performance method)		CF, Pstat

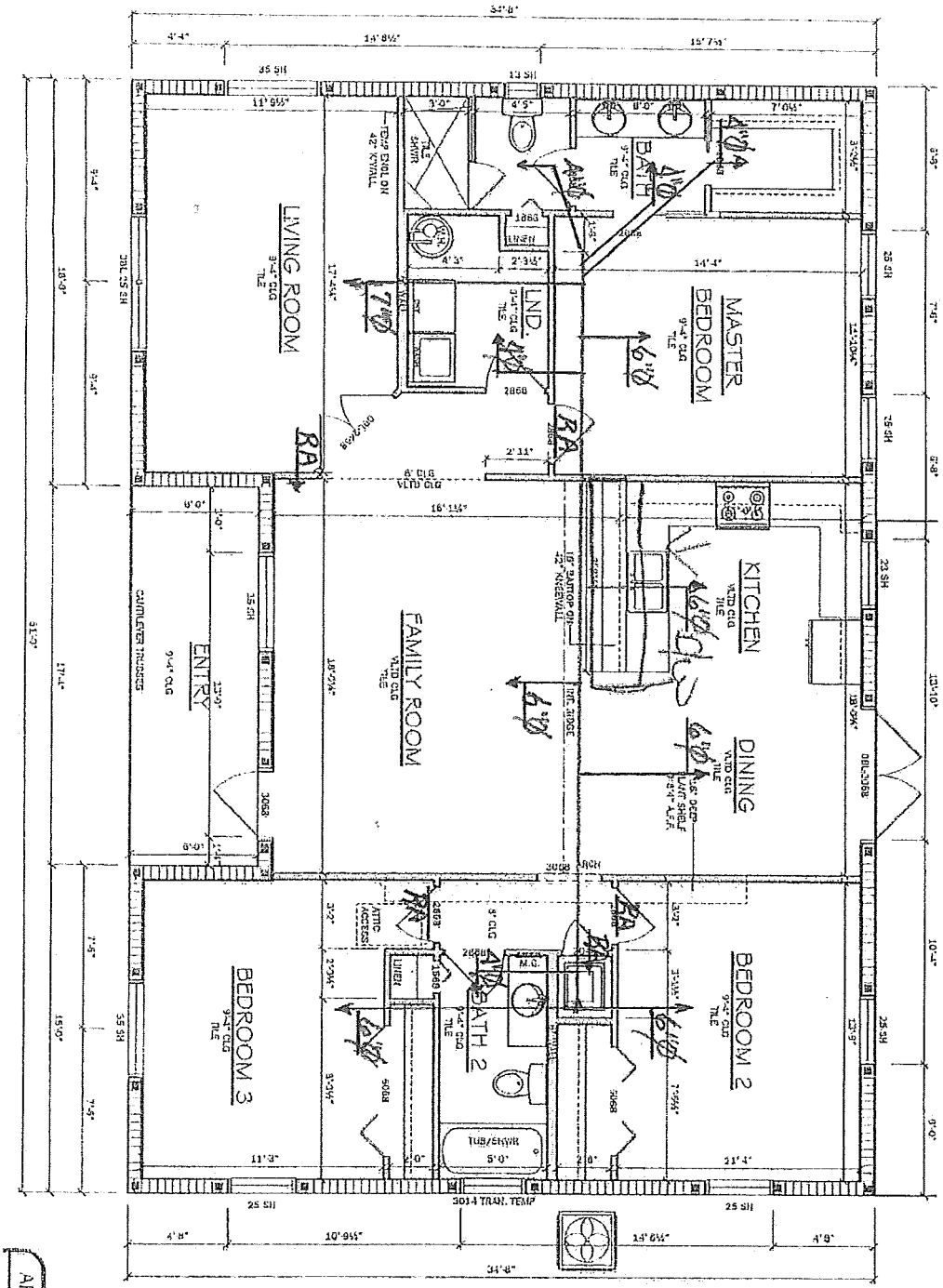
I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant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

Builder Signature: [signature] Date: 1/25/2021

Address of New Home: Lot 54 SW Rum Island Terrace City/FL Zip: Ft. White 32038

*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

PROJECT:
Newton Residence
Tract 54

SHEET NO.
4 OF 12

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

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