ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX* = 92

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

1168 S.W. Cumorah Hill Street, Ft White, FL, 32038

1. New construction or existing	New (From Plans)	10. Wall Types(1903.8 sqft.)	Insulation Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=19.0 1903.80 ft ²
3. Number of units, if multiple family	1	b. N/A c. N/A	
4. Number of Bedrooms	3	d. N/A	
5. Is this a worst case?	No	11. Ceiling Types(1803.0 sqft.)	Insulation Area
Conditioned floor area above grade (Conditioned floor area below grade (a. Roof Deck (Unvented) b. N/A c. N/A	R=22.7 1803.00 ft ²
7. Windows** Description a. U-Factor: Dbl, U=0.47 SHGC: SHGC=0.31	Area 256.00 ft ²		
b. U-Factor: N/A SHGC:	ft²	b. c.	0 110
c. U-Factor: N/A SHGC:	ft ²	 Cooling Systems Central Unit 	kBtu/hr Efficiency 28.0 SEER2:15.20
Area Weighted Average Overhang Der Area Weighted Average SHGC:	oth: 5.396 ft 0.310		
8. Skylights Description U-Factor:(AVG) N/A SHGC(AVG): N/A	Area N/A ft²	Heating Systems Electric Heat Pump	kBtu/hr Efficiency 28.0 HSPF2:7.50
Slab-On-Grade Edge Insulation R N/A R		16. Hot Water Systems a. Electric	Cap: 50 gallons EF: 0.945
c. N/A	= ft²	b. Conservation features	None
		17. Credits	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:

Address of New Home: 1168 S.W. Cumorah Hill Street

City/FL Zip: Ft White,FL,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 DEFA



Reviewed

Cop Code

Compliance

2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1ª

Project Name: Street:

Marion & Julia Van Mersbergen 1168 S.W. Cumorah Hill Street

City, State, Zip:

Owner:

Ft White, FL, 32038

Design Location:

Lanier Construction, LLC FL, Gainesville

Builder Name: Lanier Construction, LLC Permit Office: Columbia

Permit Number:

Jurisdiction: 221000

County:

Columbia(Florida Climate Zone 2)

Design Location.	re, Galilesville Count	y. Columbia(Florida Ciliflate Zoffe 2)	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	CHEC
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	ਨ
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids voids between fire sprinkler cover plates and walls or ceilings.	-	



Certificate of Product Ratings

AHRI Certified Reference Number: 210720490

Date: 09-09-2024

Model Status : Active

AHRI Type: HRCU-A-CB (Split System: Heat Pump with Remote Outdoor Unit-Air-Source)

Outdoor Unit Brand Name: TRANE

Outdoor Unit Model Number (Condenser or Single Package): 4TWR5030N1

Indoor Unit Model Number (Evaporator and/or Air Handler) : TAMXB0A24V21+TSTAT

The manufacturer of this TRANE product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2024, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (AFull) - Single or High Stage (95F), btuh: 28000

SEER2: 15.20

EER2 (AFull) - Single or High Stage (95F): 12.00

Heating Capacity (H1Full) - Single or High Stage (47F), btuh: 26000

HSPF2 (Region IV): 7.50

†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced. "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information

AHRI does not endorse the product(s) listed on this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed on this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data listed on this Certificate. Certified ratings are valid only for models and configurations listed in the

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CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued. which is listed above, and the Certificate No., which is listed at bottom right.

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A REFRIGERATION INSTITUTE

we make life better"

AIR CONDITIONING, HEATING,

CERTIFICATE NO.:

133703701396076652

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

	al Regulation - Residential Fertormance Metrod
Project Name: Marion & Julia Van Mersbergen Street: 1168 S.W. Cumorah Hill Street City, State, Zip: Ft White, FL, 32038 Owner: Lanier Construction, LLC Design Location: FL, Gainesville	Builder Name: Lanier Construction, LLC Permit Office: Columbia Permit Number: Jurisdiction: 221000 County: Columbia(Florida Climate Zone 2)
New construction or existing New (From Plans)	10. Wall Types(1903.8 sqft.) Insulation Area
Single family or multiple family Detached	a. Frame - Wood, Exterior R=19.0 1903.80 ft ² b. N/A
Number of units, if multiple family	c. N/A
4. Number of Bedrooms 3	d. N/A
5. Is this a worst case?	11. Ceiling Types(1803.0 sqft.) Insulation Area a. Roof Deck (Unvented) R=22.7 1803.00 ft ²
Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 0	a. Roof Deck (Unvented) R=22.7 1803.00 ft ² b. N/A c. N/A
7. Windows(256.0 sqft.) Description Area	12. Roof(Metal, Unvent) Deck R=22.7 2013 ft2
a. U-Factor: Dbl, U=0.47 256.00 ft ² SHGC: SHGC=0.31	13. Ducts, location & insulation level R ft ² a. Sup; Attic, Ret: Attic, AH: Mud Room 6 118
SHGC: SHGC=0.31 b. U-Factor: N/A ft ² SHGC:	b. c.
c. U-Factor: N/A ft ²	14. Cooling Systems kBtu/hr Efficiency
SHGC:	a. Central Unit 28.0 SEER2:15.20
Area Weighted Average Overhang Depth: 5.396 ft Area Weighted Average SHGC: 0.310	
8. Skylights Description Area	15. Heating Systems kBtu/hr Efficiency
U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A	a. Electric Heat Pump 28.0 HSPF2:7.50
9. Floor Types Insulation Area	16. Hot Water Systems
a. Slab-On-Grade Edge Insulation R= 0.0 1800.10 ft ²	a. Electric Cap: 50 gallons
b. N/A R= ft ² c. N/A R= ft ²	EF: 0.945
V. MA	b. Conservation features None
	17. Credits CF, Pstat
Glass/Floor Area: 0.142 Total Proposed Modifi	ed Loads: 50.32
Total Resell	ne Loads: 54.42
	or equal to 95 percent of the annual total loads of the standard reference design in order to comply.
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy	Review of the plans and specifications covered by this
Code.	L calculation indicates compliance
	with the Florida Energy Code
PREPARED BY:John Pirkl	Before construction is completed this building will be inspected to:
DATE:09/09/2024	compliance with Section 153, 208
	Florida Stantes for
I hereby certify that this building, as designed, is in compliance	E FILE COD WE TRUST
with the Florida Energy Code. OWNER/AGENT: Home Laure	BUILDING DEELCIAL: CODY 3
DATE: 10/18/24	DATE: Code
Compliance requires certification by the air handler unit i	Compliance /

- 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.

Default duct leakage does not require a Duct Leakage Test Report.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 4.95 ACH50 (R402.4.1.2).

on an area to				-	PRO	JECT	0.000						
Owner Build Build Perm Juris Fami New/Year	ling Type:	Marion & Julia Val User Lanier Construction Columbia 221000 Detached New (From Plans) 2024	on, LLC	Bedrooms: Conditione Total Storie Worst Cas Rotate Ang Cross Ven Whole Hou Terrain: Shielding:	d Area: es: ee: gle: tilation:	3 1803 1 No 0 No No Suburb		Bloc Plat Stre Cou	ck/SubDivision Book:	Street Addre		Hill Stree	t
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************					BLO	CKS							
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Nur	mber	Name	Area	Volume	Kitchen	Occup	ants	Bed	Irooms	Finished	Cod	oled h	leated
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/#	Floor Typ	oe	Space	Expos Perim		Area I		/alue n. Joist	U-Factor	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
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_	_1	Full attic	U	nvented	0		1800	ft²	N			N			
					CEILIN	IG		(Total	Expos	sed A	\rea =	180	3 sq	.ft.)
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pitin	NATIONAL IN				WALL	S		(Total	Expos	sed /	\rea =	190	4 sq	.ft.)
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Page 3

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and the last						CC	OLI	NG SYS	STEM	dine ta de la constitue de la c				HENRY	
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V	#	System Type	Subtyp	10	Location		EF(UE	F) Cap	Us	e SetPnt	Fixt. Flo	T wo	ap P	ipe Ins.	Pipe length
_	_1	Electric	None		Mud Roon	n	0.94 (0	93) 50.0 g	al 62 g	gal 120 deg	Low	Y	es	None	95
		Recirculation System	Red	circ Control Type		Loop length	Brand	10000		HR Faciliti Connec	E-17		/HR iff	Other C	redits
_	_1	No				NA	NA	NA	No	NA	NA	N	IA	Nor	ne
OCH STATE OF							D	UCTS							
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V		ermostat Sche hedule Type	dule: HERS	2006 Refere	nce 2	3	4	5	6	lours 7	8	9	10	11	12
_	_ Co	oling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
-	Co	ooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
-	He	ating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
-	He	eating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66



Load Short Form Entire House

New Age Dimensions, LLC.

Bullding Reviewed for Code Compliance

Job: Marion & Julia Van Mer...

Date: 09/09/2024 Ву: John Pirki

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684

Project Information

For:

Lanier Construction, LLC

8538 N.W. County Road 225, Branford, FL 32008

Phone: (352) 316 - 2389 Email: terryagaines@gmail.com

		Desig	n Information		
Outside db (°F) Inside db (°F) Design TD (°F) Daily range Inside humidity (%) Moisture difference (gr/lb)	Htg 33 68 35 - 50 29	92 75 17 M 50	Method Construction quality Fireplaces	Infiltration	Simplifie Semi-tigh 1 (Semi-tigh

HEATING EQUIPMENT

Make Trane Trade TRANE Model 4TWR5030N1 AHRI ref 210720490

Efficiency 7.5 HSPF2 Heating input Heating output 26000 Bluh @ 47°F Temperature rise 24 °F Actual air flow 1000 cfm Air flow factor 0.044 cfm/Btuh Static pressure 0.51 in H2O Space thermostat

Capacity balance point = 33 °F

COOLING EQUIPMENT

Make Trane Trade TRANE Cond 4TWR5030N1 Coil

TAMXB0A24V21++TSTAT AHRI ref 210720490

Efficiency 12.0 EER2,15.2 SEER2 Sensible cooling 19600 Btuh Latent cooling 8400 Btuh Total cooling 28000 Btuh Actual air flow 1000 cfm Air flow factor 0.054 cfm/Btuh Static pressure

0.51 in H2O Load sensible heat ratio 0.77

Backup:

Input = 8 kW, Output = 27297 Btuh, 100 AFUE

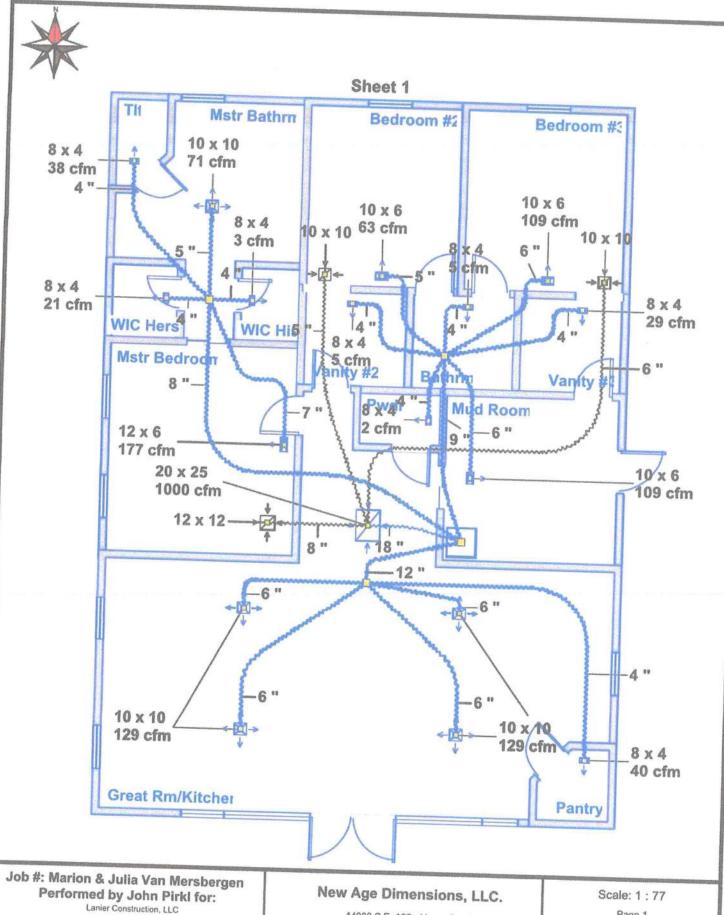
ROOM NAME	Area (fl²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Tit Mstr Bathrm WIC Hers WIC His Mstr Bedroom Bedroom #2 Vanity #2 Bathrm Bedroom #3 Vanity #3 Pwdr Mud Room Great Rm/Kitchen Pantry	23 154 28 25 203 143 53 53 150 53 24 150 717 27	864 1635 489 59 2141 1439 124 124 2496 664 57 1617 10274 913	225 622 144 42 3279 866 89 89 1117 213 41 2020 9583 241	38 71 21 3 94 63 5 5 109 29 2 71 449 40	12 34 8 2 177 47 5 5 60 11 2 109 516

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Entire House Other equip loads Equip. @ 0.97 RSM Latent cooling	1800	22896 3027	18574 3194 21114 6552	1000	1000
TOTALS			0002		
	1800	25922	27666	1000	1000

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Lanier Construction, LLC 8538 N.W. County Road 225 Branford, FL 32008 Phone: (352) 316 - 2389 terryagaines@gmail.com

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Manual S Compliance Report **Entire House**

New Age Dimensions, LLC.

Job: Marion & Julia Van Mer...

Date: 09/09/2024 By: John Pirkl Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For:

Lanier Construction, LLC

8538 N.W. County Road 225, Branford, FL 32008

Phone: (352) 316 - 2389 Email: terryagaines@gmail.com

Cooling Equipment

Design Conditions

Outdoor design DB: 92.0°F Outdoor design WB: 76.3°F Indoor design DB:

75.0°F

Sensible gain: Latent gain:

21767 Btuh 6552 Btuh 28319 Btuh

Entering coil DB:

78.2°F

Indoor RH:

50%

Total gain: Estimated airflow:

1000 cfm Entering coil WB: 64.7°F

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:

Split ASHP Trane

Model: 4TWR5030N1+TAMXB0A24V21++TSTAT

Manufacturer: Actual airflow:

1000 cfm 22420

103% of load

Sensible capacity: Latent capacity: Total capacity:

Btuh 5203 Btuh 27623 Btuh

79% of load

98% of load SHR: 81%

Heating Equipment

Design Conditions

Outdoor design DB: Indoor design DB:

33.4°F 68.0°F

Heat loss:

25922 Bluh

Entering coil DB:

65.0°F

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:

Split ASHP

Manufacturer:

Trane

Model: 4TWR5030N1+TAMXB0A24V21++TSTAT

Actual airflow: Output capacity:

1000 cfm 20438 Btuh

5485

79% of load

Btuh

Capacity balance: Economic balance: -99 °F

33 °F

Backup equipment type:

Supplemental heat required:

Manufacturer:

Elec strip

Model:

Actual airflow:

1000 cfm

Output capacity:

8.0 kW 105% of load

Temp. rise:

25 °F

Meets all requirements of ACCA Manual S.



Duct System Summary Entire House

New Age Dimensions, LLC.

Job: Marion & Julia Van Mer...

Date: 09/09/2024 By: John Pirkl Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For:

Lanier Construction, LLC

8538 N.W. County Road 225, Branford, FL 32008

Phone: (352) 316 - 2389 Email: terryagaines@gmail.com

External static pressure Pressure losses Available static pressure Supply / return available pressure Lowest friction rate Actual air flow Total effective length (TEL)

Heating 0.51 in H2O 0.18 in H2O 0.33 in H2O 0.235 / 0.095 in H2O 0.880 in/100ft 1000 cfm

Cooling 0.51 in H2O 0.18 in H2O 0.33 in H2O 0.235 / 0.095 in H2O 0.880 in/100ft 1000 cfm

282 ft

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathrm Bedroom #2 Bedroom #3 Great Rm/Kitchen Great Rm/Kitchen-A Great Rm/Kitchen-B Great Rm/Kitchen-C Mstr Bathrm Mstr Bedroom Mud Room Pantry Powdr Itt Vanity #3 VIC Hers VIC His	hhhcccchcchhhhhh	124 1439 2496 2396 2396 2396 1635 3279 2020 913 57 864 124 664 489 59	5 63 109 112 112 112 112 71 94 71 40 2 38 5 29 21 3	5 47 60 129 129 129 129 34 177 109 13 2 12 5 11 8	0.880 0.880 0.880 0.880 0.880 0.880 0.880 0.880 0.880 0.880 0.880 0.880 0.880 0.880	4.0 5.0 6.0 6.0 6.0 6.0 5.0 7.0 6.0 4.0 4.0 4.0 4.0	0x 0 0x 0 0x 0 0x 0 0x 0 0x 0 0x 0 0x 0	VIFX VIFX VIFX VIFX VIFX VIFX VIFX VIFX	18.2 21.8 23.3 18.7 23.1 15.7 21.5 37.8 44.9 22.6 35.7 18.0 43.1 22.8 24.9 34.3	165.0 170.0 170.0 165.0 165.0 165.0 165.0 135.0 165.0 165.0 165.0 170.0 170.0 125.0	st2 st2 st3 st3 st3 st3 st3 st1 st1 st2 st3 st2 st2 st2 st3

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	227	232	0.880	665	8.0	0 x 0	VinIFIx	
st2	Peak AVF	285	239	0.880	645	9.0	0 x 0	VinIFIx	
st3	Peak AVF	489	529	0.880	674	12.0	0 x 0	VinIFIx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)		Stud/Joist Opening (in)	Duct Mati	Trunk
rb1	20x 23	1000	1000	81.6	0.880	566	18.0	0x	0		VIFx	rst3

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rst3	Peak AVF	1000	1000	0.880	566	18.0	0 x 0	VinIFlx	