



Load Short Form

Entire House

Bounds Heating and Air

Job:
Date: May 21, 2026
By:

Email: jlegler@boundshvac.com

Project Information

For: Cristelli, Amira Builders

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	10	44		

HEATING EQUIPMENT

Make Carrier
Trade 15 SEER2 HP
Model GH5SAN54800AA0
AHRI ref 214101900

Efficiency 7.5 HSPF2
Heating input
Heating output 47500 Btuh @ 47°F
Temperature rise 28 °F
Actual air flow 1567 cfm
Air flow factor 0.035 cfm/Btuh
Static pressure 0.50 in H2O
Space thermostat
Capacity balance point = 32 °F

Backup:

Input = 13 kW, Output = 42672 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Carrier
Trade 15 SEER2 HP
Cond GH5SAN54800AA0
Coil FJ5ANXC48L00
AHRI ref 214101900

Efficiency 12.0 EER2, 15 SEER2
Sensible cooling 32900 Btuh
Latent cooling 14100 Btuh
Total cooling 47000 Btuh
Actual air flow 1567 cfm
Air flow factor 0.045 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.86

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
mother in law (Rest of House)	800 1929	13918 30758	12167 26471	488 1079	544 1183
Entire House	2729	44676	35056	1567	1567
Other equip loads		0	0		
Equip. @ 0.97 RSM			34074		
Latent cooling			5914		
TOTALS	2729	44676	39988	1567	1567

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



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	Htg	Clg	Infiltration	Simplified Average
Outside db (°F)	33	92	Method	0
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	37	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	10	44		

HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
bedroom 3	191	4327	2831	152	127
bath 2	57	1074	841	38	38
bedroom 2	165	3690	2384	129	107
hall 1	43	0	0	0	0
foyer	92	1370	713	48	32
study	136	2447	1590	86	71
great room	322	3568	3901	125	174
pantry	48	1610	534	56	24
dining/kitchen	315	5146	6470	181	289
master suite	214	3627	4206	127	188
hall 2	42	0	0	0	0
laundry	64	1136	1299	40	58
wic	83	1053	439	37	20
master bath	130	1671	1193	59	53

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

wc	26	40	69	1	3
(Rest of House)	1929	30758	26471	1079	1183
Other equip loads		0	0		
Equip. @ 0.97 RSM			25730		
Latent cooling			4114		
TOTALS	1929	30758	29844	1079	1183

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mother in law

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Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	10	44		

HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
bedroom	201	5484	3113	192	139
kitchen/living	381	5635	7486	198	335
bath	57	761	479	27	21
wic 2	53	656	314	23	14
hall 3	41	0	0	0	0
entry	66	1382	774	48	35

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mother in law	800	13918	12167	488	544
Other equip loads		0	0		
Equip. @ 0.97 RSM			11826		
Latent cooling			1800		
TOTALS	800	13918	13626	488	544

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





Project Summary

Entire House

Bounds Heating and Air

Job:
Date: May 21, 2026
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Project Information

For: Cristelli, Amira Builders

Notes:

Design Information

Weather: Gainesville Regional, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Ventilation Method MJ8

Heating Summary

Structure	33817 Btuh
Ducts (R-6.0)	10859 Btuh
Central vent (0 cfm)	0 Btuh

Humidification	0 Btuh
Piping	0 Btuh
Equipment load	44676 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft ²)	2729	2729
Volume (ft ³)	27930	27930
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	149	74

Heating Equipment Summary

Make	Carrier
Trade	15 SEER2 HP
Model	GH5SAN54800AA0
AHRI ref	214101900

Efficiency	7.5 HSPF2
Heating input	
Heating output	47500 Btuh @ 47°F
Temperature rise	28 °F
Actual air flow	1567 cfm
Air flow factor	0.035 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	
Capacity balance point = 32 °F	

Backup:
Input = 13 kW, Output = 42672 Btuh, 100 AFUE

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	44 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	21618 Btuh
Ducts (R-6.0)	13438 Btuh
Central vent (0 cfm)	0 Btuh

Blower 0 Btuh

Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	34074 Btuh

Latent Cooling Equipment Load Sizing

Structure	3208 Btuh
Ducts	2705 Btuh
Central vent (0 cfm)	0 Btuh

Equipment latent load 5914 Btuh

Equipment Total Load (Sen+Lat)	39988 Btuh
Req. total capacity at 0.70 SHR	4.1 ton

Cooling Equipment Summary

Make	Carrier
Trade	15 SEER2 HP
Cond	GH5SAN54800AA0
Coil	FJ5ANXC48L00
AHRI ref	214101900

Efficiency	12.0 EER2, 15 SEER2
Sensible cooling	32900 Btuh
Latent cooling	14100 Btuh
Total cooling	47000 Btuh
Actual air flow	1567 cfm
Air flow factor	0.045 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.86

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



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Project Summary (Rest of House) Bounds Heating and Air

Job:
Date: May 21, 2026
By:

Email: jlegler@boundshvac.com

Project Information

For: Cristelli, Amira Builders

Notes:

Design Information

Weather: Gainesville Regional, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Ventilation Method

Heating Summary

Structure	23282 Btuh
Ducts (R-6.0)	7476 Btuh
Central vent (0 cfm)	0 Btuh

Humidification	0 Btuh
Piping	0 Btuh
Equipment load	30758 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft ²)	1929	1929
Volume (ft ³)	19934	19934
Air changes/hour	0.28	0.14
Equiv. AVF (cfm)	95	47

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a

Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	44 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	16324 Btuh
Ducts (R-6.0)	10147 Btuh
Central vent (0 cfm)	0 Btuh

Blower	0 Btuh
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Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	25730 Btuh

Latent Cooling Equipment Load Sizing

Structure	2201 Btuh
Ducts	1913 Btuh
Central vent (0 cfm)	0 Btuh

Equipment latent load	4114 Btuh
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Equipment Total Load (Sen+Lat)	29844 Btuh
Req. total capacity at 0.70 SHR	3.1 ton

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a

Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

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



Project Summary

mother in law

Bounds Heating and Air

Job:
Date: May 21, 2026
By:

Email: jlegler@boundshvac.com

Project Information

For: Cristelli, Amira Builders

Notes:

Design Information

Weather: Gainesville Regional, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Ventilation Method

Heating Summary

Structure	10535 Btuh
Ducts (R-6.0)	3383 Btuh
Central vent (0 cfm)	0 Btuh

Humidification	0 Btuh
Piping	0 Btuh
Equipment load	13918 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft ²)	800	800
Volume (ft ³)	7996	7996
Air changes/hour	0.41	0.20
Equiv. AVF (cfm)	54	27

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a

Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	44 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	7503 Btuh
Ducts (R-6.0)	4664 Btuh
Central vent (0 cfm)	0 Btuh

Blower	0 Btuh
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Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	11826 Btuh

Latent Cooling Equipment Load Sizing

Structure	1007 Btuh
Ducts	793 Btuh
Central vent (0 cfm)	0 Btuh

Equipment latent load	1800 Btuh
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Equipment Total Load (Sen+Lat)	13626 Btuh
Req. total capacity at 0.70 SHR	1.4 ton

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a

Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0

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



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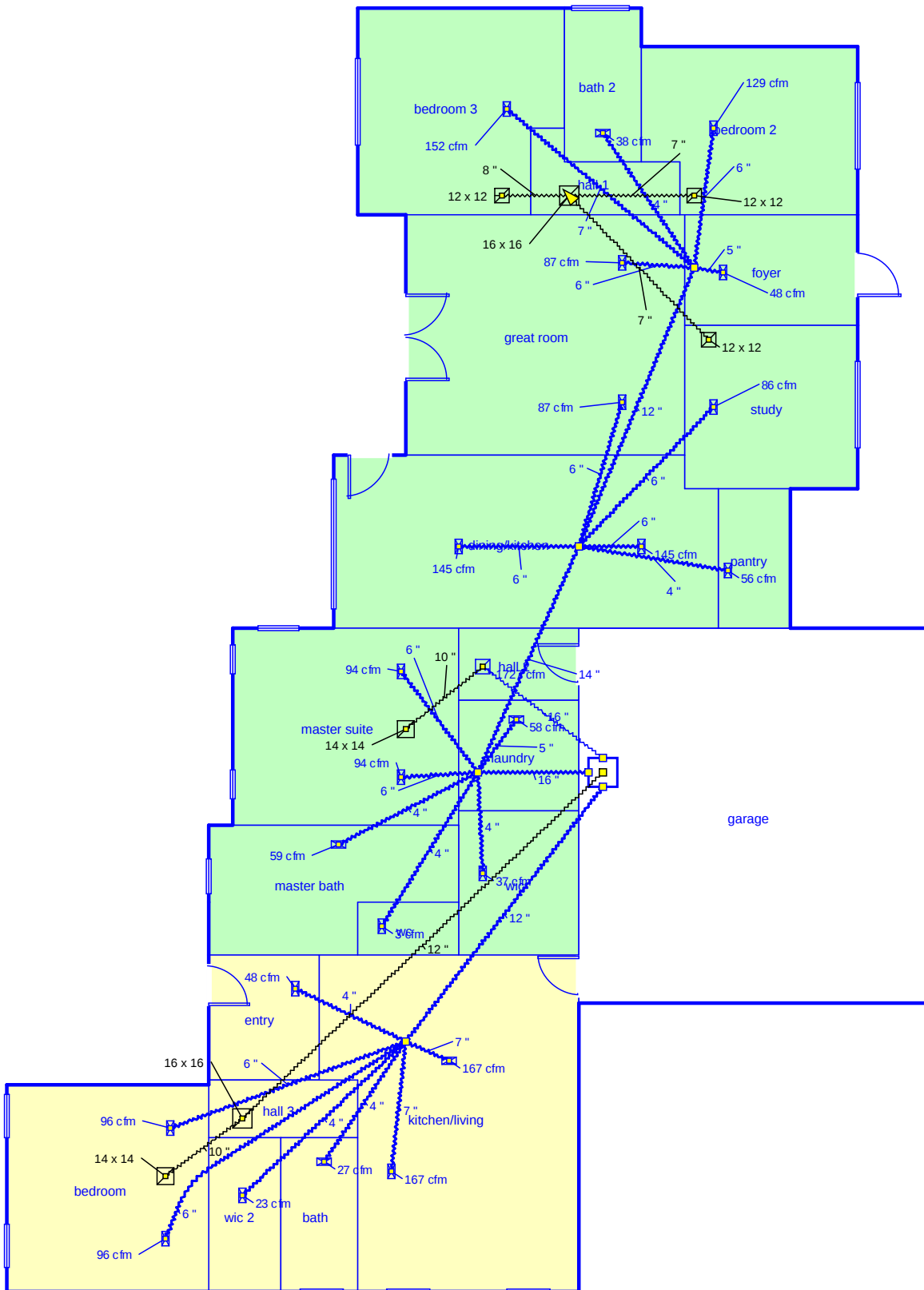
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Job #:
Performed for:
Cristelli

Bounds Heating and Air

jlegler@boundshvac.com

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Manual S Compliance Report

Entire House

Bounds Heating and Air

Job:
Date: May 21, 2026
By:

Email: jlegler@boundshvac.com

Project Information

For: Cristelli, Amira Builders

Cooling Equipment

Design Conditions

Outdoor design DB:	92.2°F	Sensible gain:	35056 Btuh	Entering coil DB:	77.6°F
Outdoor design WB:	75.8°F	Latent gain:	5914 Btuh	Entering coil WB:	63.7°F
Indoor design DB:	75.0°F	Total gain:	40970 Btuh		
Indoor RH:	50%	Estimated airflow:	1567 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Carrier	Model:	GH5SAN54800AA0+FJ5ANXC48L00
Actual airflow:	1567 cfm		
Sensible capacity:	37744 Btuh	108% of load	
Latent capacity:	7513 Btuh	127% of load	
Total capacity:	45257 Btuh	110% of load	SHR: 83%

Heating Equipment

Design Conditions

Outdoor design DB:	33.2°F	Heat loss:	44676 Btuh	Entering coil DB:	68.7°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Carrier	Model:	GH5SAN54800AA0+FJ5ANXC48L00
Actual airflow:	1567 cfm		
Output capacity:	38782 Btuh	87% of load	Capacity balance: 32 °F
Supplemental heat required:	5894 Btuh		Economic balance: -99 °F

Backup equipment type:	Elec strip		
Manufacturer:		Model:	
Actual airflow:	1567 cfm		
Output capacity:	12.5 kW	96% of load	Temp. rise: 50 °F

Meets all requirements of ACCA Manual S.



Duct System Summary

Entire House

Bounds Heating and Air

Job:
Date: May 21, 2026
By:

Email: jlegler@boundshvac.com

Project Information

For: Cristelli, Amira Builders

	Heating	Cooling
External static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Pressure losses	0 in H ₂ O	0 in H ₂ O
Available static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Supply / return available pressure	0.365 / 0.135 in H ₂ O	0.365 / 0.135 in H ₂ O
Lowest friction rate	0.168 in/100ft	0.168 in/100ft
Actual air flow	1567 cfm	1567 cfm
Total effective length (TEL)	298 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
bath	h 761	27	21	0.248	4.0	0x0	VIFx	32.4	115.0	st1
bath 2	c 1074	38	38	0.172	4.0	0x0	VIFx	57.0	155.0	st4
bedroom	h 2742	96	70	0.236	6.0	0x0	VIFx	39.7	115.0	st1
bedroom 2	h 3690	129	107	0.173	6.0	0x0	VIFx	55.5	155.0	st4
bedroom 3	h 4327	152	127	0.168	7.0	0x0	VIFx	62.8	155.0	st4
bedroom-A	h 2742	96	70	0.222	6.0	0x0	VIFx	44.5	120.0	st1
dining/kitchen	c 3235	90	145	0.217	6.0	0x0	VIFx	33.2	135.0	st3
dining/kitchen-A	c 3234	90	145	0.222	6.0	0x0	VIFx	29.2	135.0	st3
entry	h 1382	48	35	0.250	4.0	0x0	VIFx	30.8	115.0	st1
foyer	h 1370	48	32	0.180	5.0	0x0	VIFx	47.8	155.0	st4
great room	c 1951	63	87	0.177	6.0	0x0	VIFx	50.8	155.0	st4
great room-A	c 1951	63	87	0.214	6.0	0x0	VIFx	35.3	135.0	st3
kitchen/living	c 3743	99	167	0.260	7.0	0x0	VIFx	25.6	115.0	st1
kitchen/living-A	c 3743	99	167	0.249	7.0	0x0	VIFx	31.4	115.0	st1
laundry	c 1299	40	58	0.287	5.0	0x0	VIFx	12.2	115.0	st2
master bath	h 1671	59	53	0.273	4.0	0x0	VIFx	18.5	115.0	st2
master suite	c 2103	64	94	0.285	6.0	0x0	VIFx	13.0	115.0	st2
master suite-A	c 2102	64	94	0.278	6.0	0x0	VIFx	16.5	115.0	st2
pantry	h 1610	56	24	0.214	4.0	0x0	VIFx	35.3	135.0	st3
study	h 2447	86	71	0.211	6.0	0x0	VIFx	38.3	135.0	st3
wc	c 69	1	3	0.270	4.0	0x0	VIFx	20.2	115.0	st2
wic	h 1053	37	20	0.282	4.0	0x0	VIFx	14.7	115.0	st2
wic 2	h 656	23	14	0.239	4.0	0x0	VIFx	37.9	115.0	st1

Bold/italic values have been manually overridden

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	488	544	0.222	692	12.0	0 x 0	VinIFlx	st3 st2
st4	Peak AVF	429	390	0.168	547	12.0	0 x 0	VinIFlx	
st3	Peak AVF	815	861	0.168	806	14.0	0 x 0	VinIFlx	
st2	Peak AVF	1079	1183	0.168	847	16.0	0 x 0	VinIFlx	

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 Matl	Trunk
rb1	0x 0	1567	1727	80.5	0.168	654	22.0	0x 0		VIFx	rst7

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rst7	Peak AVF	1567	1727	0.168	1237	16.0	0 x 0	VinIFlx	

Bold/italic values have been manually overridden