

Project Information

For: Anyone, Heating and Cooling
Any, Anywhere, GA

Email: sliger@systel.com

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	27	90	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	43	15	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	17	37		

HEATING EQUIPMENT

Make	Carrier
Trade	Carrier Comfort 80 Single-Stag...
Model	58SC0A090E21-16
AHRI ref	0
Efficiency	80 AFUE
Heating input	88000 Btuh
Heating output	72000 Btuh
Temperature rise	51 °F
Actual air flow	1350 cfm
Air flow factor	0.048 cfm/Btuh
Static pressure	0.59 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Carrier
Trade	CARRIER
Cond	24ABC642A00300
Coil	CSPHP4212ALA+58SC0A090E21-16
AHRI ref	202979860
Efficiency	12.5 EER, 15 SEER
Sensible cooling	29565 Btuh
Latent cooling	10935 Btuh
Total cooling	40500 Btuh
Actual air flow	1350 cfm
Air flow factor	0.051 cfm/Btuh
Static pressure	0.59 in H2O
Load sensible heat ratio	0.73

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Zone 1A	1370	10470	11854	499	608
Zone 1 D	487	4459	1760	212	90
Zone 1 B	853	10983	11052	523	567
Zone 1 C	362	2434	3755	116	193
Main FI AC 1	3073	28346	25976	1350	1350
Other equip loads		8122	3429		
Equip. @ 1.00 RSM			29404		
Latent cooling			10783		
TOTALS	3073	36468	40187	1350	1350

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

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	Htg	Clg	Infiltration	
Outside db (°F)	27	90	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	43	15	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	17	37		

HEATING EQUIPMENT

Make	Carrier
Trade	Carrier Comfort 80 Single-Stag...
Model	58SC0A070E17-12
AHRI ref	0
Efficiency	80 AFUE
Heating input	66000 Btuh
Heating output	54000 Btuh
Temperature rise	46 °F
Actual air flow	1127 cfm
Air flow factor	0.029 cfm/Btuh
Static pressure	0.59 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Carrier
Trade	CARRIER
Cond	24ABC636A00310
Coil	CSPHP3612ALA+58SC0A070E14-12
AHRI ref	203486390
Efficiency	12.5 EER, 15 SEER
Sensible cooling	24674 Btuh
Latent cooling	9126 Btuh
Total cooling	33800 Btuh
Actual air flow	1127 cfm
Air flow factor	0.053 cfm/Btuh
Static pressure	0.59 in H2O
Load sensible heat ratio	0.73

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Zone 2 C	406	5064	2089	149	110
Zone 2 B	1587	20975	15959	618	838
Zone 2 A	821	12184	5711	359	300
Terrace FI AC 2	2814	38224	21454	1127	1127
Other equip loads		7439	3304		
Equip. @ 1.00 RSM			24758		
Latent cooling			9100		
TOTALS	2814	45663	33858	1127	1127

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Notes: Email: sliger@systel.com
Anywhere
Gainesville, GA 30543

Design Information

Weather: Gainesville/lee Gil, GA, US

Winter Design Conditions

Outside db 27 °F
Inside db 70 °F
Design TD 43 °F

Ventilation Method ASHRAE 62.2-2019

Heating Summary

Structure 28346 Btuh
Ducts 0 Btuh
Central vent (107 cfm) 4829 Btuh
Outside air
Humidification 3292 Btuh
Piping 0 Btuh
Equipment load 36468 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft²)	3073	3073
Volume (ft³)	27656	27656
Air changes/hour	0.29	0.15
Equiv. AVF (cfm)	133	71

Heating Equipment Summary

Make Carrier
Trade Carrier Comfort 80 Single-Stag...
Model 58SC0A090E21-16
AHRI ref 0

Efficiency 80 AFUE
Heating input 88000 Btuh
Heating output 72000 Btuh
Temperature rise 51 °F
Actual air flow 1350 cfm
Air flow factor 0.048 cfm/Btuh
Static pressure 0.59 in H2O
Space thermostat

Summer Design Conditions

Outside db 90 °F
Inside db 75 °F
Design TD 15 °F
Daily range M
Relative humidity 50 %
Moisture difference 37 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 25976 Btuh
Ducts 0 Btuh
Central vent (107 cfm) 1722 Btuh
Outside air
Blower 1706 Btuh

Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 29404 Btuh

Latent Cooling Equipment Load Sizing

Structure 8209 Btuh
Ducts 0 Btuh
Central vent (107 cfm) 2574 Btuh
Outside air
Equipment latent load 10783 Btuh

Equipment Total Load (Sen+Lat) 40187 Btuh
Req. total capacity at 0.73 SHR 3.4 ton

Cooling Equipment Summary

Make Carrier
Trade CARRIER
Cond 24ABC642A00300
Coil CSPHP4212ALA+58SC0A090E21-16
AHRI ref 202979860

Efficiency 12.5 EER, 15 SEER
Sensible cooling 29565 Btuh
Latent cooling 10935 Btuh
Total cooling 40500 Btuh
Actual air flow 1350 cfm
Air flow factor 0.051 cfm/Btuh
Static pressure 0.59 in H2O
Load sensible heat ratio 0.73

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Gainesville, GA 30543

Design Information

Weather: Gainesville/lee Gil, GA, US

Winter Design Conditions

Outside db 27 °F
Inside db 70 °F
Design TD 43 °F

Ventilation Method ASHRAE 62.2-2019

Heating Summary

Structure 38224 Btuh
Ducts 0 Btuh
Central vent (99 cfm) 4479 Btuh
Outside air
Humidification 2960 Btuh
Piping 0 Btuh
Equipment load 45663 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft²)	2814	2814
Volume (ft³)	25325	25325
Air changes/hour	0.27	0.15
Equiv. AVF (cfm)	114	61

Heating Equipment Summary

Make Carrier
Trade Carrier Comfort 80 Single-Stag...
Model 58SC0A070E17-12
AHRI ref 0

Efficiency 80 AFUE
Heating input 66000 Btuh
Heating output 54000 Btuh
Temperature rise 46 °F
Actual air flow 1127 cfm
Air flow factor 0.029 cfm/Btuh
Static pressure 0.59 in H2O
Space thermostat

Summer Design Conditions

Outside db 90 °F
Inside db 75 °F
Design TD 15 °F
Daily range M
Relative humidity 50 %
Moisture difference 37 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 21454 Btuh
Ducts 0 Btuh
Central vent (99 cfm) 1597 Btuh
Outside air
Blower 1706 Btuh

Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 24758 Btuh

Latent Cooling Equipment Load Sizing

Structure 6712 Btuh
Ducts 0 Btuh
Central vent (99 cfm) 2387 Btuh
Outside air
Equipment latent load 9100 Btuh

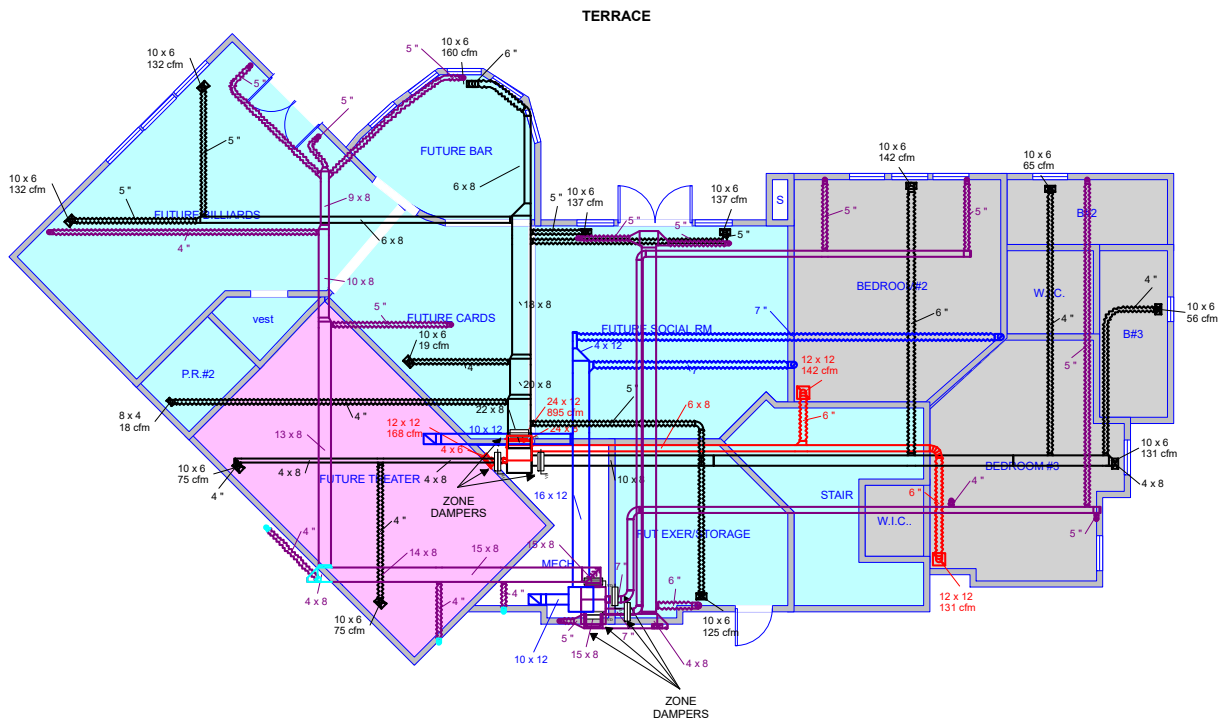
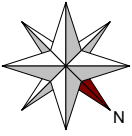
Equipment Total Load (Sen+Lat) 33858 Btuh
Req. total capacity at 0.73 SHR 2.8 ton

Cooling Equipment Summary

Make Carrier
Trade CARRIER
Cond 24ABC636A00310
Coil CSPHP3612ALA+58SC0A070E14-12
AHRI ref 203486390

Efficiency 12.5 EER, 15 SEER
Sensible cooling 24674 Btuh
Latent cooling 9126 Btuh
Total cooling 33800 Btuh
Actual air flow 1127 cfm
Air flow factor 0.053 cfm/Btuh
Static pressure 0.59 in H2O
Load sensible heat ratio 0.73

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



Job #: Anywhere
Performed by Craig C Brooks for:

Anyone
 Any
 Anywhere, GA

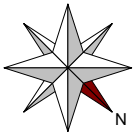
sliger@systel.com

WebREPS LLC

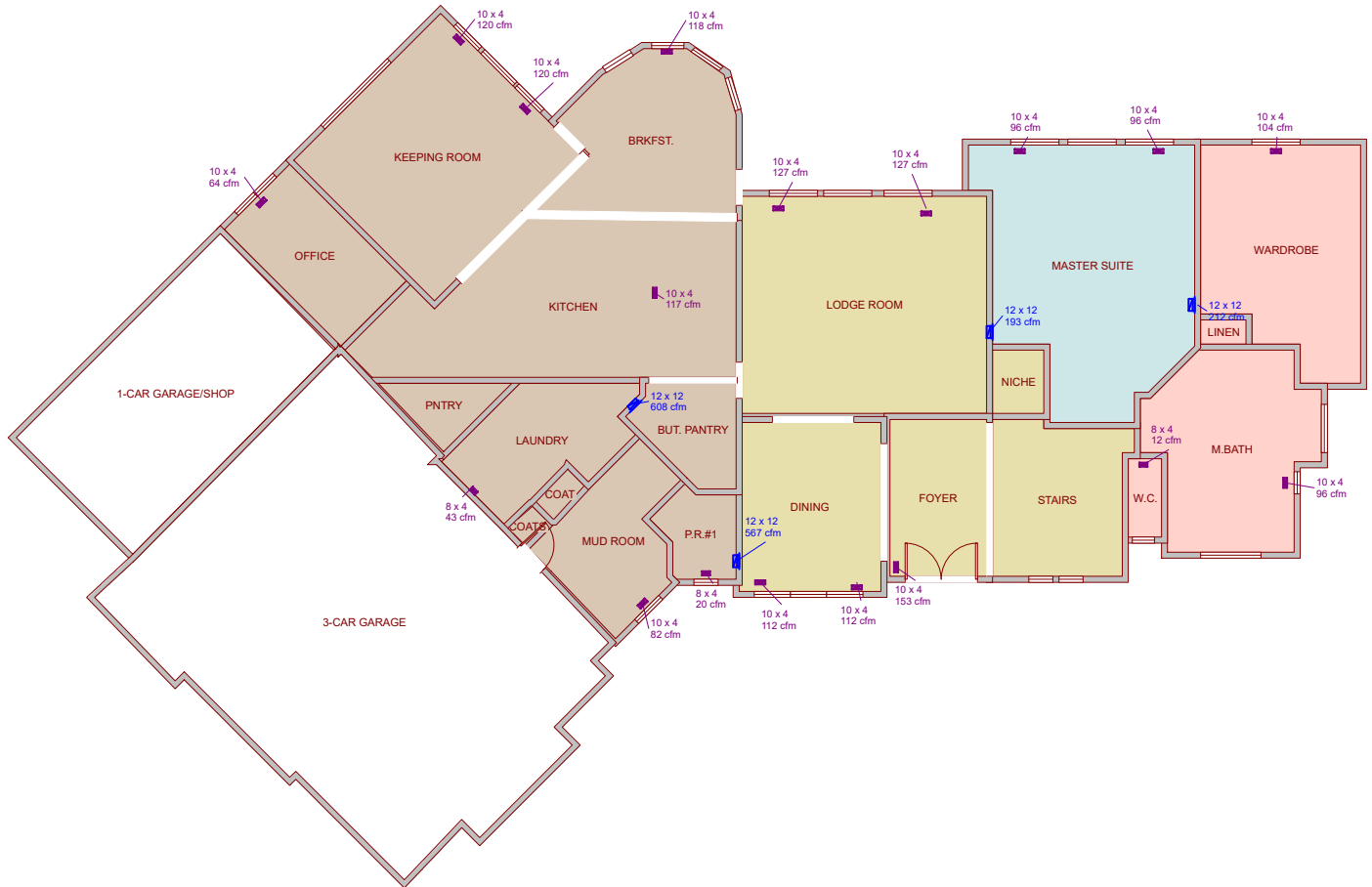
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MAIN FLOOR



Job #: Anywhere
Performed by Craig C Brooks for:

Anyone
Any
Anywhere, GA

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Duct System Summary

Main FI AC 1

WebREPS LLC

Job: Anywhere
Date:
By: Craig C Brooks
Plan: Anywhere

1880 82nd Avenue, Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com

Project Information

For: Anyone, Heating and Cooling
Any, Anywhere, GA

Email: sliger@systel.com

	Heating	Cooling
External static pressure	0.59 in H2O	0.59 in H2O
Pressure losses	0.23 in H2O	0.23 in H2O
Available static pressure	0.36 in H2O	0.36 in H2O
Supply / return available pressure	0.215 / 0.145 in H2O	0.215 / 0.145 in H2O
Lowest friction rate	0.067 in/100ft	0.067 in/100ft
Actual air flow	1350 cfm	1350 cfm
Total effective length (TEL)	535 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
BRKFST.	c 2310	110	118	0.067	5.0	0x0	VIFx	69.1	250.0	st13B
DINING	h 2358	112	110	0.161	5.0	0x0	VIFx	3.5	130.0	st7
DINING-A	h 2358	112	110	0.158	6.4	8x4	VIFx	6.0	130.0	st7
FOYER	h 3215	153	92	0.143	6.0	0x0	VIFx	10.5	140.0	st7
KEEPING ROOM	c 2350	68	120	0.069	5.0	0x0	VIFx	68.0	245.0	st13B
KEEPING ROOM-A	c 2350	68	120	0.069	5.0	0x0	VIFx	59.0	250.0	st13B
KITCHEN	c 2281	43	117	0.085	5.0	0x0	VIFx	53.2	200.0	st13
LAUNDRY	h 908	43	39	0.116	4.0	0x0	VIFx	29.3	155.0	st12
LODGE ROOM	c 2482	73	127	0.125	5.0	0x0	VIFx	42.0	130.0	st7
LODGE ROOM-A	c 2482	73	127	0.124	5.0	0x0	VIFx	42.8	130.0	st7
M.BATH	h 2020	96	47	0.124	5.0	0x0	VIFx	47.8	125.0	st5
MASTER SUITE	c 1878	58	96	0.092	5.0	0x0	VIFx	53.8	180.0	st6
MASTER SUITE-A	c 1878	58	96	0.102	5.0	0x0	VIFx	65.2	145.0	st6
MUD ROOM	h 1724	82	28	0.120	4.0	0x0	VIFx	19.0	160.0	st4A
OFFICE	h 1339	64	54	0.073	4.0	0x0	VIFx	72.8	220.0	st13A
P.R.#1	h 427	20	11	0.142	4.0	0x0	VIFx	11.2	140.0	st4
W.C.	h 259	12	8	0.104	4.0	0x0	VIFx	36.0	170.0	st5
WARDROBE	h 2181	104	35	0.092	5.0	0x0	VIFx	73.0	160.0	st5

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st4A	PeakAVF	478	597	0.067	716	12.3	8 x 15	ShtMetl	st4
st4	PeakAVF	499	608	0.067	729	12.4	8 x 15	ShtMetl	
st4B	PeakAVF	396	569	0.067	731	12.1	8 x 14	ShtMetl	st4A
st5	PeakAVF	212	90	0.092	795	7.0	0 x 0	ShtMetl	
st6	PeakAVF	116	193	0.092	720	7.0	0 x 0	ShtMetl	
st13B	PeakAVF	247	359	0.067	719	10.2	8 x 9	ShtMetl	st13A
st13A	PeakAVF	310	413	0.067	744	10.7	8 x 10	ShtMetl	st13
st12	PeakAVF	43	39	0.116	195	4.1	8 x 4	ShtMetl	st4B
st13	PeakAVF	353	530	0.067	734	11.8	8 x 13	ShtMetl	st4B
st7	PeakAVF	523	567	0.124	680	10.7	8 x 15	ShtMetl	

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
rb8	0x 0	212	90	205.8	0.071	795	7.0	0x 0		VIFx	rt2A
rb7	0x 0	116	193	216.2	0.067	720	7.0	0x 0		VIFx	rt2
rb6	0x 0	499	608	195.2	0.074	729	12.1	12x 10		ShMt	rt2
rb1	0x 0	523	567	63.8	0.228	680	9.4	12x 10		ShMt	

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt2A	PeakAVF	212	90	0.071	637	8.3	12 x 4	ShtMetl	rt2
rt2	PeakAVF	827	891	0.067	668	14.3	12 x 16	ShtMetl	

Duct System Summary

Terrace FI AC 2

WebREPS LLC

Job: Anywhere
Date:
By: Craig C Brooks
Plan: Anywhere

1880 82nd Avenue, Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com

Project Information

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	Heating	Cooling
External static pressure	0.59 in H2O	0.59 in H2O
Pressure losses	0.23 in H2O	0.23 in H2O
Available static pressure	0.36 in H2O	0.36 in H2O
Supply / return available pressure	0.201 / 0.159 in H2O	0.201 / 0.159 in H2O
Lowest friction rate	0.105 in/100ft	0.105 in/100ft
Actual air flow	1127 cfm	1127 cfm
Total effective length (TEL)	344 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
B#2	h 2210	65	44	0.125	4.0	0x0	VIFx	65.0	95.0	st3
B#3	h 1893	56	20	0.130	4.0	0x0	VIFx	64.0	90.0	st3
BEDROOM #3	h 4432	131	94	0.150	5.9	8x4	ShMt	48.2	85.0	st3
BEDROOM#2	c 2700	108	142	0.126	6.0	0x0	VIFx	54.0	105.0	st3
FUT EXER/STORAGE	h 4254	125	114	0.105	5.0	0x0	VIFx	31.8	160.0	st1
FUTURE BAR	c 3044	116	160	0.154	6.0	0x0	VIFx	33.5	97.0	st8
FUTURE BILLIARDS	c 2515	104	132	0.111	5.0	0x0	VIFx	56.0	125.0	st9
FUTURE BILLIARDS-A	c 2515	104	132	0.111	5.0	0x0	VIFx	56.0	125.0	st9
FUTURE CARDS	c 355	14	19	0.171	4.0	0x0	VIFx	17.0	100.0	st1A
FUTURE SOCIAL RM	c 2603	68	137	0.122	5.0	0x0	VIFx	23.8	140.0	st1B
FUTURE SOCIAL RM-A	c 2603	68	137	0.106	5.0	0x0	VIFx	35.0	155.0	st1B
FUTURE THEATER	h 2532	75	55	0.163	4.0	0x0	VIFx	23.2	100.0	st2A
FUTURE THEATER-A	h 2532	75	55	0.195	4.0	0x0	VIFx	22.8	80.0	st2
P.R.#2	h 623	18	8	0.177	4.0	0x0	VIFx	33.0	80.0	st1

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	PeakAVF	618	838	0.105	686	12.8	8 x 22	ShtMetl	st1B st1B st1A st1 st2
st8	PeakAVF	116	160	0.154	480	6.4	8 x 6	ShtMetl	
st9	PeakAVF	209	264	0.111	793	8.2	8 x 6	ShtMetl	
st1B	PeakAVF	461	698	0.106	698	11.9	8 x 18	ShtMetl	
st1A	PeakAVF	475	716	0.106	645	12.0	8 x 20	ShtMetl	
st3	PeakAVF	359	300	0.125	647	9.0	8 x 10	ShtMetl	
st2A	PeakAVF	75	55	0.163	336	4.7	8 x 4	ShtMetl	
st2	PeakAVF	149	110	0.163	672	6.1	8 x 4	ShtMetl	

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
rb5	0x 0	131	94	143.0	0.112	666	6.0	0x 0		VIFx	rt1
rb4	0x 0	108	142	152.5	0.105	722	6.0	0x 0		VIFx	rt1
rb2	0x 0	721	895	60.5	0.264	671	12.5	8x 24		VIFx	
rb3	0x 0	168	118	61.5	0.259	1006	6.7	6x 4		VIFx	

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt1	PeakAVF	238	236	0.105	715	8.0	8 x 6	ShtMetl	