



Manual S Compliance Report

Entire House

Strada Services

Job: Lot 12 2117 A-RHG-SW
Date: 03/30/2022
By: RS
Plan: 2117

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 Web: StradaServices.com License: CAC043953

Project Information

For: Adams Homes
_____ SW Bellflower Dr, Lake City, FL 32024

Cooling Equipment

Design Conditions

Outdoor design DB:	92.4°F	Sensible gain:	25342	Btuh	Entering coil DB:	76.5°F
Outdoor design WB:	75.8°F	Latent gain:	3609	Btuh	Entering coil WB:	63.2°F
Indoor design DB:	75.0°F	Total gain:	28951	Btuh		
Indoor RH:	50%	Estimated airflow:	1167	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Carrier	Model:	GH5SAN53600AA0+FJ5ANXB36L00	
Actual airflow:	1167	cfm		
Sensible capacity:	28820	Btuh	114% of load	
Latent capacity:	5037	Btuh	140% of load	
Total capacity:	33857	Btuh	117% of load	SHR: 85%

Heating Equipment

Design Conditions

Outdoor design DB:	33.3°F	Heat loss:	25361	Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Carrier	Model:	GH5SAN53600AA0+FJ5ANXB36L00	
Actual airflow:	0	cfm		
Output capacity:	35600	Btuh	140% of load	Capacity balance: 26 °F
Supplemental heat required:	0	Btuh		Economic balance: -99 °F

Backup equipment type:	Elec strip			
Manufacturer:		Model:		
Actual airflow:	0	cfm		
Output capacity:	7.4	kW	100% of load	Temp. rise: 20 °F

Meets all requirements of ACCA Manual S.



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...eLot 12 2117 A-RHG-SW Lot 12 2117 A-RHG-SW.rup Calc = MJ8 Front Door faces: SW



Project Summary

Entire House

Strada Services

Job: Lot 12 2117 A-RHG-SW
Date: 03/30/2022
By: RS
Plan: 2117

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 Web: StradaServices.com License: CAC043953

Project Information

For: Adams Homes
_____ SW Bellflower Dr, Lake City, FL 32024

Notes: LS 08/05/2026 GAA

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

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

Ventilation Method MJ8

Heating Summary

Structure	22334 Btuh
Ducts (R-6.0)	3027 Btuh
Central vent (0 cfm)	0 Btuh

Humidification	0 Btuh
Piping	0 Btuh
Equipment load	25361 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	2115	2115
Volume (ft³)	17268	17268
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	92	46

Heating Equipment Summary

Make	Carrier
Trade	15 SEER2 HP
Model	GH5SAN53600AA0
AHRI ref	214101828

Efficiency	7.5 HSPF2
Heating input	
Heating output	35600 Btuh @ 47°F
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	
Capacity balance point = 26 °F	

Backup:
Input = 7 kW, Output = 25354 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	43 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	18870 Btuh
Ducts (R-6.0)	6472 Btuh
Central vent (0 cfm)	0 Btuh

Blower 0 Btuh

Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	24683 Btuh

Latent Cooling Equipment Load Sizing

Structure	2355 Btuh
Ducts	1254 Btuh
Central vent (0 cfm)	0 Btuh

Equipment latent load 3609 Btuh

Equipment Total Load (Sen+Lat)	28292 Btuh
Req. total capacity at 0.80 SHR	2.6 ton

Cooling Equipment Summary

Make	Carrier
Trade	15 SEER2 HP
Cond	GH5SAN53600AA0
Coil	FJ5ANXB36L00
AHRI ref	214101828

Efficiency	12.0 EER2, 14.5 SEER2
Sensible cooling	28000 Btuh
Latent cooling	7000 Btuh
Total cooling	35000 Btuh
Actual air flow	1167 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.88

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



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Right-Suite® Universal 2025 25.0.01 RSU60609

...eLot 12 2117 A-RHG-SW/Lot 12 2117 A-RHG-SW.rup Calc = MJ8 Front Door faces: SW

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531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 Web: StradaServices.com License: CAC043953

1	Room name						Entire House				MBed			
2	Exposed wall						211.0 ft				31.5 ft			
3	Room height						8.0 ft				8.0 ft			
4	Room dimensions						2158.5 ft²				13.5 x 18.0 ft			
5	Room area						2158.5 ft²				243.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	ne	3.34	2.76	440	315	1053	871	108	76	254	211
11	G	2A-2ov	0.340	ne	12.48	27.46	15	0	193	425	15	0	193	425
	G	2A-2ov	0.340	ne	12.48	27.46	16	0	204	449	16	0	204	449
	G	2A-2ov	0.340	ne	12.48	23.18	10	0	123	229	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	33	0	408	757	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	33	0	408	757	0	0	0	0
	D	11J0	0.600	ne	22.02	17.97	18	18	391	319	0	0	0	0
	W	12C-0sw	0.091	se	3.34	2.76	344	322	1074	889	144	128	426	353
	G	2A-2ov	0.340	se	12.48	26.24	6	1	75	157	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	16	1	204	445	16	1	204	445
	W	12C-0sw	0.091	sw	3.34	2.76	276	204	681	564	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	23.21	15	1	193	359	0	0	0	0
G	2A-2ov	0.340	sw	12.48	23.21	33	3	408	759	0	0	0	0	
D	11J0	0.600	sw	22.02	17.97	24	24	528	431	0	0	0	0	
W	12C-0sw	0.091	nw	3.34	2.76	404	382	1275	1055	0	0	0	0	
G	2A-2ov	0.340	nw	12.48	27.46	6	0	75	165	0	0	0	0	
G	2A-2ov	0.340	nw	12.48	23.18	16	0	204	379	0	0	0	0	
P	12C-0sw	0.091	-	3.34	1.37	224	206	689	282	0	0	0	0	
D	11D0	0.390	n	14.31	11.68	18	18	254	208	0	0	0	0	
C	16B-30ad	0.032	-	1.17	1.71	2158	2158	2535	3692	243	243	285	416	
F	22A-tpl	0.989	-	36.30	0.00	2158	211	7659	0	243	32	1143	0	

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1	Room name						MBth				Bed 2			
2	Exposed wall						25.0 ft				28.5 ft			
3	Room height						8.0 ft				8.0 ft			
4	Room dimensions						1.0 x 129.4 ft				15.5 x 13.0 ft			
5	Room area						129.4 ft²				201.5 ft²			
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	ne	3.34	2.76	0	0	0	0	124	108	360	298
11	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	16	0	204	379
	D	11J0	0.600	ne	22.02	17.97	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	se	3.34	2.76	120	114	381	315	0	0	0	0
	G	2A-2ov	0.340	se	12.48	26.24	6	1	75	157	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	0	0	0	0
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	104	104	347	288
	G	2A-2ov	0.340	nw	12.48	27.46	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.34	1.37	80	80	267	110	0	0	0	0
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.17	1.71	129	129	152	221	202	202	237	345
	F	22A-tpl	0.989	-	36.30	0.00	129	25	907	0	202	28	1034	0

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1	Room name					Bed 3 12.5 ft					Bed 4 21.5 ft				
2	Exposed wall					8.0 ft 1.0 x 145.5 ft heat/cool					8.0 ft 1.0 x 153.5 ft heat/cool				
3	Room height														
4	Room dimensions														
5	Room area					145.5 ft²					153.5 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	0	0	0	0	0	0	0	0	
11	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	
	D	11J0	0.600	ne	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	80	80	267	221	
	G	2A-2ov	0.340	se	12.48	26.24	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	92	77	256	212	
	G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	15	1	193	359	
G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	0	0	0	0		
D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0		
W	12C-0sw	0.091	nw	3.34	2.76	100	84	279	231	0	0	0	0		
G	2A-2ov	0.340	nw	12.48	27.46	0	0	0	0	0	0	0	0		
G	2A-2ov	0.340	nw	12.48	23.18	16	0	204	379	0	0	0	0		
P	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	0	0	0	0		
D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0		
C	16B-30ad	0.032	-	1.17	1.71	146	146	171	249	154	154	180	263		
F	22A-tpl	0.989	-	36.30	0.00	146	12	454	0	154	22	780	0		
							</								

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1	Room name					Laundry					MWIC				
2	Exposed wall					8.0 ft					0 ft				
3	Room height					6.5 ft					1.0 ft				
4	Room dimensions					heat/cool					heat/cool				
5	Room area					58.5 ft²					46.9 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	0
11	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	0
	D	11J0	0.600	ne	22.02	17.97	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	26.24	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	0	0	0	0	0
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	27.46	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.34	1.37	52	34	114	47	0	0	0	0	0
	D	11D0	0.390	n	14.31	11.68	18	18	254	208	0	0	0	0	0
	C	16B-30ad	0.032	-	1.17	1.71	58	58	69	100	47	47	55	80	0
	F	22A-tpl	0.989	-	36.30	0.00	58	6	236	0	47	0	0	0	0
6	c) AED excursion								-51					-5	
	Envelope loss/gain								673	304			55	75	
12	a) Infiltration								0	0			0	0	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230						0			0	0			0	0
	Appliances/other									500				0	0
	Subtotal (lines 6 to 13)								673	804			55	75	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								673	804			55	75	
15	Duct loads						14%	34%	91	276	14%	34%	7	26	
	Total room load								765	1080			63	101	
	Air required (cfm)								0	50			0	5	

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

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1	Room name						Bth 3				Great Room			
2	Exposed wall						5.5 ft				32.0 ft			
3	Room height						heat/cool				heat/cool			
4	Room dimensions						8.0 ft 9.0 x 5.5 ft				8.0 ft 1.0 x 811.5 ft			
5	Room area						49.5 ft²				811.5 ft²			
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	ne	3.34	2.76	0	0	0	0	208	131	439	363
11	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	10	0	123	229
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	16	0	204	379
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	33	0	408	757
	D	11J0	0.600	ne	22.02	17.97	0	0	0	0	18	18	391	319
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	26.24	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	48	24	80	66
	G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	0	0	0	0
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	24	24	528	431
	W	12C-0sw	0.091	nw	3.34	2.76	44	44	147	122	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	27.46	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.34	1.37	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.17	1.71	50	50	58	85	812	812	953	1388
	F	22A-tpl	0.989	-	36.30	0.00	50	6	200	0	812	32	1161	0

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

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1	Room name					Dining					0 ft				
2	Exposed wall					23.0 ft					0 ft				
3	Room height					8.0 ft					8.0 ft				
4	Room dimensions					1.0 x 183.5 ft					1.0 x 16.5 ft				
5	Room area					183.5 ft²					16.5 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	0	0	0	0	0	0	0	0	
11	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	
	D	11J0	0.600	ne	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	26.24	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	sw	3.34	2.76	88	55	185	153	0	0	0	0	
	G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	sw	12.48	23.21	33	3	408	759	0	0	0	0	
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	nw	3.34	2.76	32	32	107	88	0	0	0	0	
	G	2A-2ov	0.340	nw	12.48	27.46	0	0	0	0	0	0	0	0	
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0	
	P	12C-0sw	0.091	-	3.34	1.37	64	64	214	88	0	0	0	0	
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.17	1.71	184	184	216	314	16	16	19	28	
	F	22A-tpl	0.989	-	36.30	0.00	184	23	835	0	16	0	0	0	

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

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 Web: StradaServices.com License: CAC043953

1	Room name					MWC					Bth 2				
2	Exposed wall					3.5 ft					10.5 ft				
3	Room height					heat/cool					heat/cool				
4	Room dimensions					8.0 ft					8.0 ft				
5	Room area					26.2 ft²					63.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	ne	3.34	2.76	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	27.46	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	ne	12.48	23.18	0	0	0	0	0	0	0	0	0
	D	11J0	0.600	ne	22.02	17.97	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	se	3.34	2.76	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	26.24	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	se	12.48	27.24	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	sw	3.34	2.76	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	0	0	0	0	0
	G	2A-2ov	0.340	sw	12.48	23.21	0	0	0	0	0	0	0	0	0
	D	11J0	0.600	sw	22.02	17.97	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.34	2.76	0	0	0	0	84	78	260	216	
	G	2A-2ov	0.340	nw	12.48	27.46	0	0	0	0	6	0	75	165	
	G	2A-2ov	0.340	nw	12.48	23.18	0	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.34	1.37	28	28	94	38	0	0	0	0	0
	D	11D0	0.390	n	14.31	11.68	0	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.17	1.71	26	26	31	45	63	63	74	108	
	F	22A-tpl	0.989	-	36.30	0.00	26	4	127	0	63	10	381	0	
6	c) AED excursion									-5				32	
	Envelope loss/gain								251	78			790	520	
12	a) Infiltration								0	0			212	50	
	b) Room ventilation								0	0			0	0	
13	Internal gains:	Occupants @ 230					0			0	0			0	
		Appliances/other								0				0	
	Subtotal (lines 6 to 13)								251	78			1003	570	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								251	78			1003	570	
15	Duct loads						14%	34%	34	27	14%	34%	136	196	
	Total room load								285	105			1139	766	
	Air required (cfm)								0	5			0	35	

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



Duct System Summary

Entire House

Strada Services

Job: Lot 12 2117 A-RHG-SW
Date: 03/30/2022
By: RS
Plan: 2117

531 Codisco Way, Sanford, FL 32771 Phone: 877-906-1113 Web: StradaServices.com License: CAC043953

Project Information

For: Adams Homes
SW Bellflower Dr, Lake City, FL 32024

	Heating	Cooling
External static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Pressure losses	0.16 in H ₂ O	0.16 in H ₂ O
Available static pressure	0.34 in H ₂ O	0.34 in H ₂ O
Supply / return available pressure	0.170 / 0.170 in H ₂ O	0.170 / 0.170 in H ₂ O
Lowest friction rate	0.221 in/100ft	0.221 in/100ft
Actual air flow	0 cfm	1167 cfm
Total effective length (TEL)	154 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
Bed 2	c 2403	0	111	0.258	6.0	0x0	VIFx	21.7	110.0	st2
Bed 3	c 1914	0	88	0.270	6.0	0x0	VIFx	15.8	110.0	st2
Bed 4	c 2195	0	101	0.246	6.0	0x0	VIFx	23.2	115.0	st2
Bed 4 WIC	c 439	0	20	0.223	4.0	0x0	VIFx	32.8	120.0	st2
Bth 2	c 766	0	35	0.235	4.0	0x0	VIFx	24.7	120.0	st2
Bth 3	c 294	0	14	0.269	4.0	0x0	VIFx	16.4	110.0	st2
Dining	c 2395	0	110	0.223	6.0	0x0	VIFx	37.4	115.0	st1
Great Room	c 1962	0	90	0.252	6.0	0x0	VIFx	20.0	115.0	st2
Great Room-A	c 1962	0	90	0.223	6.0	0x0	VIFx	37.2	115.0	st1
Great Room-B	c 1962	0	90	0.223	6.0	0x0	VIFx	37.6	115.0	st1
Great Room-C	c 1962	0	90	0.229	6.0	0x0	VIFx	33.2	115.0	st1
Laundry	c 1080	0	50	0.228	4.0	0x0	VIFx	34.1	115.0	st1
M Bed	c 4575	0	211	0.221	8.0	0x0	VIFx	38.8	115.0	st1
M Bth	c 1228	0	57	0.222	5.0	0x0	VIFx	38.2	115.0	st1
M WC	c 105	0	5	0.224	4.0	0x0	VIFx	37.1	115.0	st1
M WIC	c 101	0	5	0.225	4.0	0x0	VIFx	36.1	115.0	st1

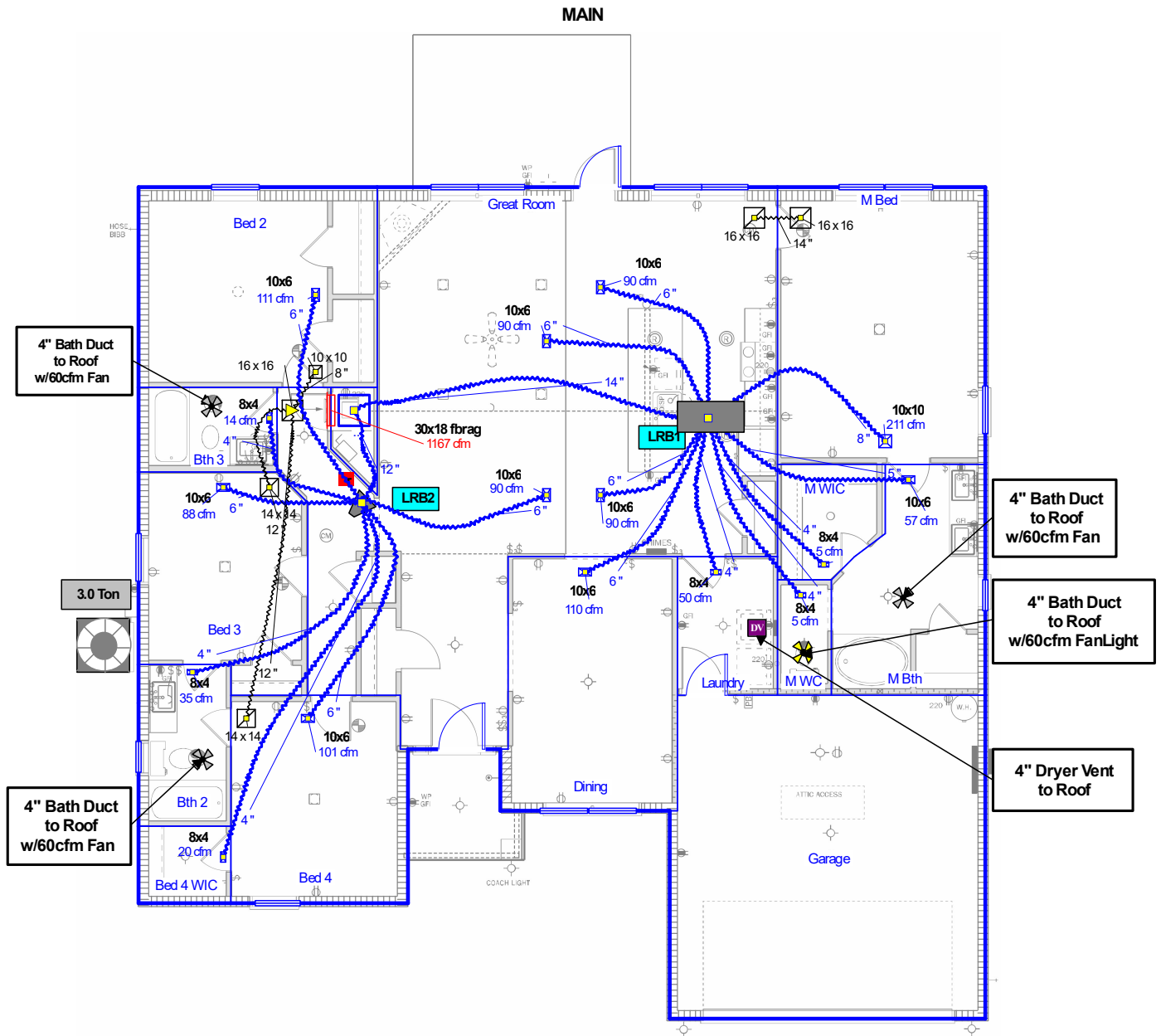
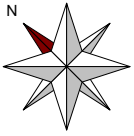
Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	0	708	0.221	662	14.0	0 x 0	VinIFlx	
st2	Peak AVF	0	459	0.223	585	12.0	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	0x0	0	1167	0	0	0	0	0x 0		VIFx	



Job #: Lot 12 2117 A-RHG-SW
Performed by RS for:
Adams Homes
SW Bellflower Dr
Lake City, FL 32024

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Sanford, FL 32771
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