

Project Information

For: Fischer Residence
Lot 5 Hermitage, High Springs, FL

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Average
Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	29	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)
AH1	2741	20423	23006	0	1133
AH2	995	13273	10986	0	553
AH3	610	10323	9243	0	553
Entire House	4346	44019	41968	0	2332
Other equip loads		6576	3250		
Equip. @ 0.97 RSM			43952		
Latent cooling			8047		
TOTALS	4346	50595	52000	0	2332



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Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	29	44		

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GSZH503610A
AHRI ref 210538138
Efficiency 7.5 HSPF2
Heating input
Heating output 34000 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 = 24 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GSZH503610A
Coil AW UF370516B
AHRI ref 210538138
Efficiency 11.7 EER2, 14.3 SEER2
Sensible cooling 23800 Btuh
Latent cooling 10200 Btuh
Total cooling 34000 Btuh
Actual air flow 1133 cfm
Air flow factor 0.049 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.79

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
(Unconditioned)	576	0	0	0	0
Main	2165	20423	24879	0	1225
AH1	2741	20423	23006	0	1133
Other equip loads		3427	1694		
Equip. @ 0.97 RSM			24008		
Latent cooling			6505		
TOTALS	2741	23850	30513	0	1133



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Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	29	44		

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GSZM401810A
AHRI ref 210538126
Efficiency 7.5 HSPF2
Heating input
Heating output 16600 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 = 31 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GSZM401810A
Coil AW UF19XX16B++TXV
AHRI ref 210538126
Efficiency 11.7 EER2, 14.3 SEER2
Sensible cooling 11620 Btuh
Latent cooling 4980 Btuh
Total cooling 16600 Btuh
Actual air flow 553 cfm
Air flow factor 0.050 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.79

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
bath 4	134	1223	773	0	39
bd 4	254	2565	1914	0	96
laundry cl	125	3308	2272	0	114
living area	481	6177	6027	0	303
AH2	995	13273	10986	0	553
Other equip loads		1126	556		
Equip. @ 0.97 RSM			11219		
Latent cooling			3002		
TOTALS	995	14399	14221	0	553



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Lot 5 Hermitage, High Springs, FL

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Average
Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	29	44		

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GSZM401810A
AHRI ref 210538126
Efficiency 7.5 HSPF2
Heating input
Heating output 16600 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 = 27 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GSZM401810A
Coil AW UF19XX16B++TXV
AHRI ref 210538126
Efficiency 11.7 EER2, 14.3 SEER2
Sensible cooling 13280 Btuh
Latent cooling 3320 Btuh
Total cooling 16600 Btuh
Actual air flow 553 cfm
Air flow factor 0.060 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.74

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
bath 2	65	731	726	0	43
bath 3	62	701	710	0	42
bd 2	181	3152	2261	0	135
bd 3	192	4035	4778	0	286
wic 2	51	1704	768	0	46
hall	59	0	0	0	0



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AH3	610	10323	9243	0	553
Other equip loads		2023	1000		
Equip. @ 0.97 RSM			9956		
Latent cooling			3657		
TOTALS	610	12346	13613	0	553



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Page 5

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Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Average
Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	29	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)
common area	763	6239	11988	0	590
dining	145	2417	3319	0	163
ent stairs	151	795	615	0	30
foyer	88	1294	1009	0	50
hall 2	112	0	0	0	0
laundry	131	741	767	0	38
m bath	186	1884	901	0	44
m bd	328	5649	4362	0	215
pantry	65	802	790	0	39
pwdr	48	114	363	0	18
wc	23	242	383	0	19
wic	125	245	384	0	19



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Main	2165	20423	24879	0	1225
Other equip loads		0	0		
Equip. @ 0.97 RSM			24183		
Latent cooling			3839		
TOTALS	2165	20423	28021	0	1225



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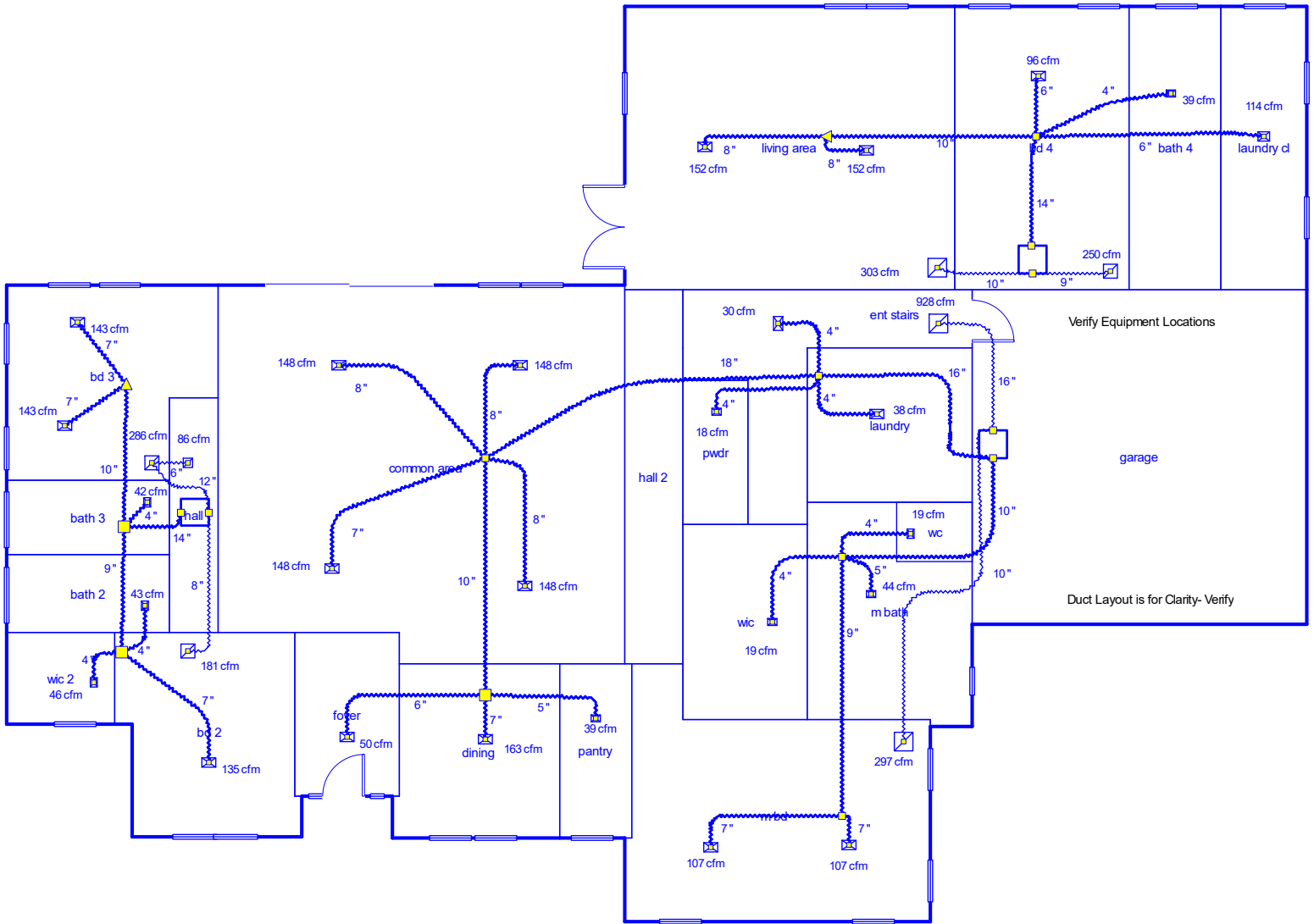

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Page 7



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Project Information

For: Fischer Residence
Lot 5 Hermitage, High Springs, FL

Cooling Equipment

Design Conditions

Outdoor design DB:	92.2°F	Sensible gain:	24699	Btuh	Entering coil DB:	78.9°F
Outdoor design WB:	75.8°F	Latent gain:	6505	Btuh	Entering coil WB:	64.9°F
Indoor design DB:	75.0°F	Total gain:	31205	Btuh		
Indoor RH:	50%	Estimated airflow:	1133	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GSZH503610A+AWUF370516B
Actual airflow:	1133	cfm	
Sensible capacity:	23800	Btuh	96% of load
Latent capacity:	10200	Btuh	157% of load
Total capacity:	34000	Btuh	109% of load SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.2°F	Heat loss:	23850	Btuh	Entering coil DB:	68.0°F
Indoor design DB:	68.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GSZH503610A+AWUF370516B
Actual airflow:	0	cfm	
Output capacity:	34000	Btuh	143% of load
Supplemental heat required:	0	Btuh	
Capacity balance:	24	°F	
Economic balance:	-99	°F	

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Cooling Equipment

Design Conditions

Outdoor design DB:	92.2°F	Sensible gain:	11543	Btuh	Entering coil DB:	78.2°F
Outdoor design WB:	75.8°F	Latent gain:	3002	Btuh	Entering coil WB:	64.3°F
Indoor design DB:	75.0°F	Total gain:	14544	Btuh		
Indoor RH:	50%	Estimated airflow:	553	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GSZM401810A+AWUF19XX16B++TXV		
Actual airflow:	553	cfm			
Sensible capacity:	11620	Btuh	101%	of load	
Latent capacity:	4980	Btuh	166%	of load	
Total capacity:	16600	Btuh	114%	SHR:	70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.2°F	Heat loss:	14399	Btuh	Entering coil DB:	68.0°F
Indoor design DB:	68.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GSZM401810A+AWUF19XX16B++TXV		
Actual airflow:	0	cfm			
Output capacity:	16600	Btuh	115%	of load	
Supplemental heat required:	0	Btuh			
Capacity balance:			31	°F	
Economic balance:			-99	°F	

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PX2707 11/26/2023

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Cooling Equipment

Design Conditions

Outdoor design DB:	92.2°F	Sensible gain:	10243	Btuh	Entering coil DB:	78.6°F
Outdoor design WB:	75.8°F	Latent gain:	3657	Btuh	Entering coil WB:	64.8°F
Indoor design DB:	75.0°F	Total gain:	13899	Btuh		
Indoor RH:	50%	Estimated airflow:	553	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GSZM401810A+AWUF19XX16B++TXV		
Actual airflow:	553	cfm			
Sensible capacity:	13280	Btuh	130%	of load	
Latent capacity:	3320	Btuh	91%	of load	
Total capacity:	16600	Btuh	119%	of load	SHR: 80%

Heating Equipment

Design Conditions

Outdoor design DB:	33.2°F	Heat loss:	12346	Btuh	Entering coil DB:	68.0°F
Indoor design DB:	68.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GSZM401810A+AWUF19XX16B++TXV		
Actual airflow:	0	cfm			
Output capacity:	16600	Btuh	134%	of load	Capacity balance: 27 °F
Supplemental heat required:	0	Btuh			Economic balance: -99 °F

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	Heating	Cooling
External static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Pressure losses	0.18 in H ₂ O	0.18 in H ₂ O
Available static pressure	0.32 in H ₂ O	0.32 in H ₂ O
Supply / return available pressure	0.242 / 0.078 in H ₂ O	0.242 / 0.078 in H ₂ O
Lowest friction rate	0.106 in/100ft	0.106 in/100ft
Actual air flow	0 cfm	1133 cfm
Total effective length (TEL)	303 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
common area	c 2997	0	148	0.126	8.0	0x 0	VIFx	57.2	135.0	st9
common area-A	c 2997	0	148	0.129	8.0	0x 0	VIFx	52.9	135.0	st9
common area-B	c 2997	0	148	0.127	8.0	0x 0	VIFx	55.2	135.0	st9
common area-C	c 2997	0	148	0.124	7.0	0x 0	VIFx	59.3	135.0	st9
dining	c 3319	0	163	0.113	7.0	0x 0	VIFx	63.9	150.0	st10
ent stairs	c 615	0	30	0.179	4.0	0x 0	VIFx	25.0	110.0	st4
foyer	c 1009	0	50	0.106	6.0	0x 0	VIFx	73.6	155.0	st10
laundry	c 767	0	38	0.179	4.0	0x 0	VIFx	25.2	110.0	st4
m bath	c 901	0	44	0.198	5.0	0x 0	VIFx	22.1	100.0	st3
m bd	c 2181	0	107	0.135	7.0	0x 0	VIFx	48.7	130.0	st8
m bd-A	c 2181	0	107	0.143	7.0	0x 0	VIFx	39.6	130.0	st8
pantry	c 790	0	39	0.107	5.0	0x 0	VIFx	70.1	155.0	st10
pwdr	c 363	0	18	0.136	4.0	0x 0	VIFx	27.8	150.0	st4
wc	c 383	0	19	0.194	4.0	0x 0	VIFx	24.5	100.0	st3
wic	c 384	0	19	0.189	4.0	0x 0	VIFx	27.6	100.0	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
st8	Peak AVF	0	215	0.135	486	9.0	0 x 0	VinIFlx	st3
st3	Peak AVF	0	297	0.135	544	10.0	0 x 0	VinIFlx	
st10	Peak AVF	0	252	0.106	462	10.0	0 x 0	VinIFlx	st9
st9	Peak AVF	0	842	0.106	477	18.0	0 x 0	VinIFlx	st4
st4	Peak AVF	0	928	0.106	665	16.0	0 x 0	VinIFlx	



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Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Cig (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb7	0x 0	0	297	74.1	0.106	544	10.0	0x 0		VIFx	
rb1	0x 0	0	928	56.5	0.139	665	16.0	0x 0		VIFx	



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Page 2

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For: Fischer Residence
Lot 5 Hermitage, High Springs, FL

	Heating	Cooling
External static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Pressure losses	0.18 in H ₂ O	0.18 in H ₂ O
Available static pressure	0.32 in H ₂ O	0.32 in H ₂ O
Supply / return available pressure	0.251 / 0.069 in H ₂ O	0.251 / 0.069 in H ₂ O
Lowest friction rate	0.165 in/100ft	0.165 in/100ft
Actual air flow	0 cfm	553 cfm
Total effective length (TEL)	194 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 4	c 773	0	39	0.212	4.0	0x 0	VIFx	18.1	100.0	st2
bd 4	c 1914	0	96	0.224	6.0	0x 0	VIFx	12.2	100.0	st2
laundry cl	c 2272	0	114	0.202	6.0	0x 0	VIFx	24.2	100.0	st2
living area	c 3014	0	152	0.165	8.0	0x 0	VIFx	32.4	120.0	st7
living area-A	c 3014	0	152	0.171	8.0	0x 0	VIFx	26.9	120.0	st7

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st7	Peak AVF	0	303	0.165	556	10.0	0 x 0	VinIFx	st2
st2	Peak AVF	0	553	0.165	517	14.0	0 x 0	VinIFx	

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
rb2	0x 0	0	303	41.9	0.165	556	10.0	0x 0		VIFx	
rb3	0x 0	0	250	40.6	0.170	565	9.0	0x 0		VIFx	



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Lauren Bernell

PX2707

11/26/2023

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	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.32 in H2O	0.32 in H2O
Supply / return available pressure	0.230 / 0.090 in H2O	0.230 / 0.090 in H2O
Lowest friction rate	0.159 in/100ft	0.159 in/100ft
Actual air flow	0 cfm	553 cfm
Total effective length (TEL)	201 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 2	c 726	0	43	0.166	4.0	0x 0	VIFx	18.3	120.0	st6
bath 3	c 710	0	42	0.225	4.0	0x 0	VIFx	7.3	95.0	st1
bd 2	c 2261	0	135	0.159	7.0	0x 0	VIFx	24.9	120.0	st6
bd 3	c 2389	0	143	0.170	7.0	0x 0	VIFx	20.5	115.0	st5
bd 3A	c 2389	0	143	0.170	7.0	0x 0	VIFx	20.8	115.0	st5
wic 2	c 768	0	46	0.167	4.0	0x 0	VIFx	18.0	120.0	st6

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st5	Peak AVF	0	286	0.170	524	10.0	0 x 0	VinIFx	st1
st6	Peak AVF	0	225	0.159	509	9.0	0 x 0	VinIFx	st1
st1	Peak AVF	0	553	0.159	518	14.0	0 x 0	VinIFx	

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
rb6	0x 0	0	86	49.1	0.183	438	6.0	0x 0		VIFx	rt1
rb5	0x 0	0	181	46.4	0.193	519	8.0	0x 0		VIFx	
rb4	0x 0	0	286	56.5	0.159	524	10.0	0x 0		VIFx	rt1



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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	0	372	0.159	474	12.0	0 x 0	VinFlx	



Review for Code Compliance
Universal Engineering Science

Lauren Bernell

PX2707

11/26/2023

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...ck\OneDrive\Desktop\BBlueff Fischer\Fischerrup Calc = MJ8 Front Door faces: S

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Page 5