

Project Information

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

Notes: 421 Van Buren Street Los Altos, CA 94022

Design Information

Weather: Los Altos, CA, US

Winter Design Conditions

Outside db 35 °F
Inside db 70 °F
Design TD 35 °F

Ventilation Method ASHRAE 62.2-2019

Heating Summary

Structure 15423 Btuh
Ducts (R-8.0) 5505 Btuh
Central vent (80 cfm) 3056 Btuh
Outside air
Humidification 4285 Btuh
Piping 0 Btuh
Equipment load 28270 Btuh

Infiltration

Method Simplified
Construction quality Semi-tight
Fireplaces 0

	Heating	Cooling
Area (ft²)	1661	1661
Volume (ft³)	13289	13289
Air changes/hour	0.34	0.18
Equiv. AVF (cfm)	75	40

Heating Equipment Summary

Make Bryant
Trade BRYANT
Model 801SA36045E14
AHRI ref 203359927

Efficiency 80 AFUE
Heating input 44000 Btuh
Heating output 36000 Btuh
Temperature rise 50 °F
Actual air flow 658 cfm
Air flow factor 0.031 cfm/Btuh
Static pressure 0.60 in H2O
Space thermostat

Summer Design Conditions

Outside db 84 °F
Inside db 74 °F
Design TD 10 °F
Daily range H
Relative humidity 50 %
Moisture difference -5 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 11881 Btuh
Ducts (R-8.0) 6172 Btuh
Central vent (80 cfm) 873 Btuh
Outside air
Blower 1706 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 20632 Btuh

Latent Cooling Equipment Load Sizing

Structure 6607 Btuh
Ducts 35 Btuh
Central vent (80 cfm) -290 Btuh
Outside air
Equipment latent load 6351 Btuh

Equipment Total Load (Sen+Lat) 26984 Btuh
Req. total capacity at 0.74 SHR 2.3 ton

Cooling Equipment Summary

Make BRYANT
Trade Bryant
Cond 105ANA036
Coil C36A142C126+801SA36045E14A
AHRI ref 208282256
Efficiency 13.0 EER, 16 SEER
Sensible cooling 25604 Btuh
Latent cooling 8996 Btuh
Total cooling 34600 Btuh
Actual air flow 1153 cfm
Air flow factor 0.064 cfm/Btuh
Static pressure 0.60 in H2O
Load sensible heat ratio 0.76

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

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	Htg	Clg	Infiltration	
Outside db (°F)	35	84	Method	Simplified
Inside db (°F)	70	74	Construction quality	Semi-tight
Design TD (°F)	35	10	Fireplaces	0
Daily range	-	H		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	31	-5		

HEATING EQUIPMENT

Make Bryant
Trade BRYANT
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COOLING EQUIPMENT

Make BRYANT
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Cond 105ANA036
Coil C36A142C126+801SA36045E14A
AHRI ref 208282256

Efficiency 13.0 EER, 16 SEER
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Air flow factor 0.064 cfm/Btuh
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Load sensible heat ratio 0.76

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
M BATH	269	3763	2012	118	129
W C	25	690	324	22	21
M CL	19	0	0	0	0
M BEDROOM	453	6321	6174	199	394
WIC	92	0	0	0	0
BEDROOM 1	205	3930	3882	124	248
HALL 2	176	0	0	0	0
DOWN	96	0	0	0	0
C1	19	0	0	0	0
BATH 1	41	876	479	28	31
BATH1	30	0	0	0	0
C 2	22	0	0	0	0
AC	10	0	0	0	0
LN	5	0	0	0	0

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BEDROOM 2	198	5349	5182	168	331
Entire House	1661	20929	18053	658	1153
Other equip loads		7341	2580		
Equip. @ 1.00 RSM			20632		
Latent cooling			6351		
TOTALS	1661	28270	26984	658	1153

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1ST FL

GARAGE

1ST FL

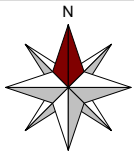
HALL

STAIRS

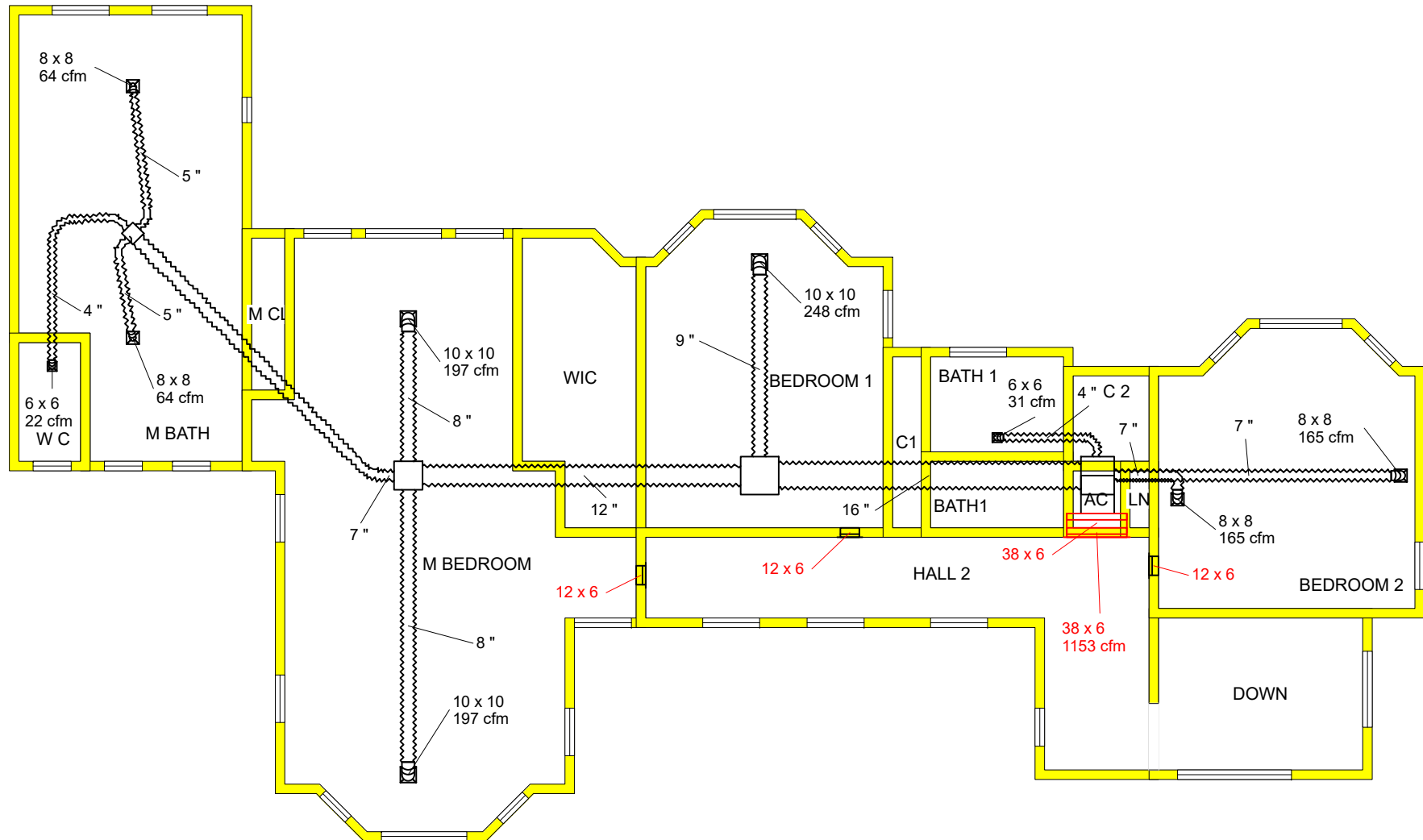
Job #:
Performed by Jason Zacharek for:
Anyone
Any
Anywhere, CA

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2ND FL



Job #:
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	Heating	Cooling
External static pressure	0.60 in H ₂ O	0.60 in H ₂ O
Pressure losses	0.23 in H ₂ O	0.23 in H ₂ O
Available static pressure	0.37 in H ₂ O	0.37 in H ₂ O
Supply / return available pressure	0.299 / 0.071 in H ₂ O	0.299 / 0.071 in H ₂ O
Lowest friction rate	0.116 in/100ft	0.116 in/100ft
Actual air flow	658 cfm	1153 cfm
Total effective length (TEL)	319 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 1	c 479	28	31	0.523	4.0	0x0	VIFx	7.2	50.0	st1
BEDROOM 1	c 3882	124	248	0.263	9.0	0x0	VIFx	29.0	85.0	
BEDROOM 2	c 2591	84	165	0.539	7.0	0x0	VIFx	5.5	50.0	
BEDROOM 2-A	c 2591	84	165	0.491	7.0	0x0	VIFx	16.0	45.0	
M BATH	c 1006	59	64	0.120	5.0	0x0	VIFx	64.3	185.0	st2
M BATH-A	c 1006	59	64	0.121	5.0	0x0	VIFx	62.0	185.0	st2
M BEDROOM	c 3087	99	197	0.167	8.0	0x0	VIFx	44.5	135.0	st1A
M BEDROOM-A	c 3087	99	197	0.160	8.0	0x0	VIFx	52.0	135.0	st1A
W C	h 690	22	21	0.116	4.0	0x0	VIFx	68.5	190.0	st2

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1A	Peak AVF	339	544	0.116	692	12.0	0 x 0	VinIFlx	st1
st2	Peak AVF	140	149	0.116	558	7.0	0 x 0	VinIFlx	st1A
st1	Peak AVF	462	791	0.116	567	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
rb6	0x 0	658	1153	61.0	0.116	728	18.0	6x 38		RtFg	