

Menu Save Reset Cancel Help

Record Detail * (This section is required.)

Permit Type	Permit Number	Opened Date
Building/Residential/Mech/New	M17000829	08/24/2017
Description of Work		
Installation of new 3ton Geothermal system		

check spelling

Address * (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #	Street Name	Street Type	
12562	FOLLY QUARTER	RD	
Unit Type	Unit #	X Coordinate	Y Coordinate
--Select--		-76.94955	39.25742
City	State	Zip Code	Primary
ELLCOTT CITY	MD	21042	Yes

APPROVED
WALK-THRU BUILDING PERMIT
 BP# M17000829 A# _____
 APP. SAN Just Freeman DATE: 2/26/18
 DESC. OF WORK: Horizontal
Geothermal Well

Parcel * (This section is required.)

Search Reset Clear Get Address & Owner

GIS ID *	Parcel	Parcel Area	Land Value	Improved Value	Exemption Value	Plan Area
891227	110	3.17	222000	405100	183100	RURAL
Legal Description						
IMPSLOT 1 3 176 A 12562 FOLLY QUARTER RD DONALD BERILLA						

check spelling

Block	Lot	Census Tract	Council Dist	Supervisor Dist	Map #	DAP Zone	Primary
	1	603000	5				Yes
Plan Area	State Tax Id	Subdivision Name					
	1403309363	DONALD BERILLA					
Section	Area	Tax Map					
		22					
Grid	Zoning District	ADC Map					
22-23	RR-DEO	4813-J9					
SDP No.	Final Plan No.	WP File No.					
Record Plat No.	WS Contract No.	FDP No.					
5713							
Owner Occupied	Year Built	Historic District					
<input type="radio"/> Yes <input type="radio"/> No	1956	<input type="radio"/> Yes <input checked="" type="radio"/> No					
Historic District Registry No.	Stat Area	Flood Plain					
	3-08A	<input type="radio"/> Yes <input checked="" type="radio"/> No					
Building No							

Owner * (This section is required.)

Search Reset Clear

Name *		
POTTS MICHAEL E		
Address Line 1		
12562 FOLLY QUARTER RD		
Address Line 2		
Address Line 3		
Mail City	Mail State	Mail Zip Code
ELLCOTT CITY	MD	21042

Phone	Primary
410-721-4142	Yes
E-mail	
Cell Number	Fax Number

Professionals * (This section is required.)

Search Reset Clear

License # *	Business Name		
05020013081	BAIR NECESSITIES		
License Type *	First Name	Middle Name	Last Name
HVACR	TERRY		BAIR
Primary	Address Line 1		
No	763 RT 3 NORTH		
	Address Line 2		
City	State	ZIP Code	
GAMBRILLS	MD	21054-0000	
Phone 1	Phone 2	Fax	
4107214142		4109231237	
E-mail			
INFO@BAIRNECESSITIES.COM			

Applicant (This section is not required.)

Search As Owner As Lic. Prof As Contact

Type *	First Name	MI	Last Name
Applicant	Karen		Bar
Relationship	Full Name		
-Select-	Karen Bar		
Primary	Organization Name		
Yes	Bair Necessities, LLC		
	Street Address		
	777A State Route 3 North		
	Address Line 2		
City	State	Zip Code	
Gambrills	MD	21054	
Phone	Cell	Fax	
4107214142	4109231237		
E-mail *			
info@bairnecessities.com			

HVAC INFORMATION

HVAC INFORMATION

Capital Project-No Fee *	Capital Project Number	Fee Exempt *	Building Permit No	Existing Use *	Geothermal *
<input type="radio"/> Yes <input checked="" type="radio"/> No		<input type="radio"/> Yes <input checked="" type="radio"/> No		Multi Family	<input type="radio"/> Yes <input checked="" type="radio"/> No
Number of Zones	Number of MF Units *	HVACR System	Water Supply	Sewage Disposal	Expiration Date
0 ZONES	1 UNITS	Heating and Air Conditioning	Private	Private	8/25/2018

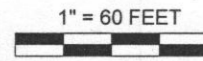
PAYMENT INFORMATION

Check 1	Payee 1	Check 2	Payee 2	SAP Doc No	SAP Entered
ON-LINE	ON-LINE				

Submit Cancel

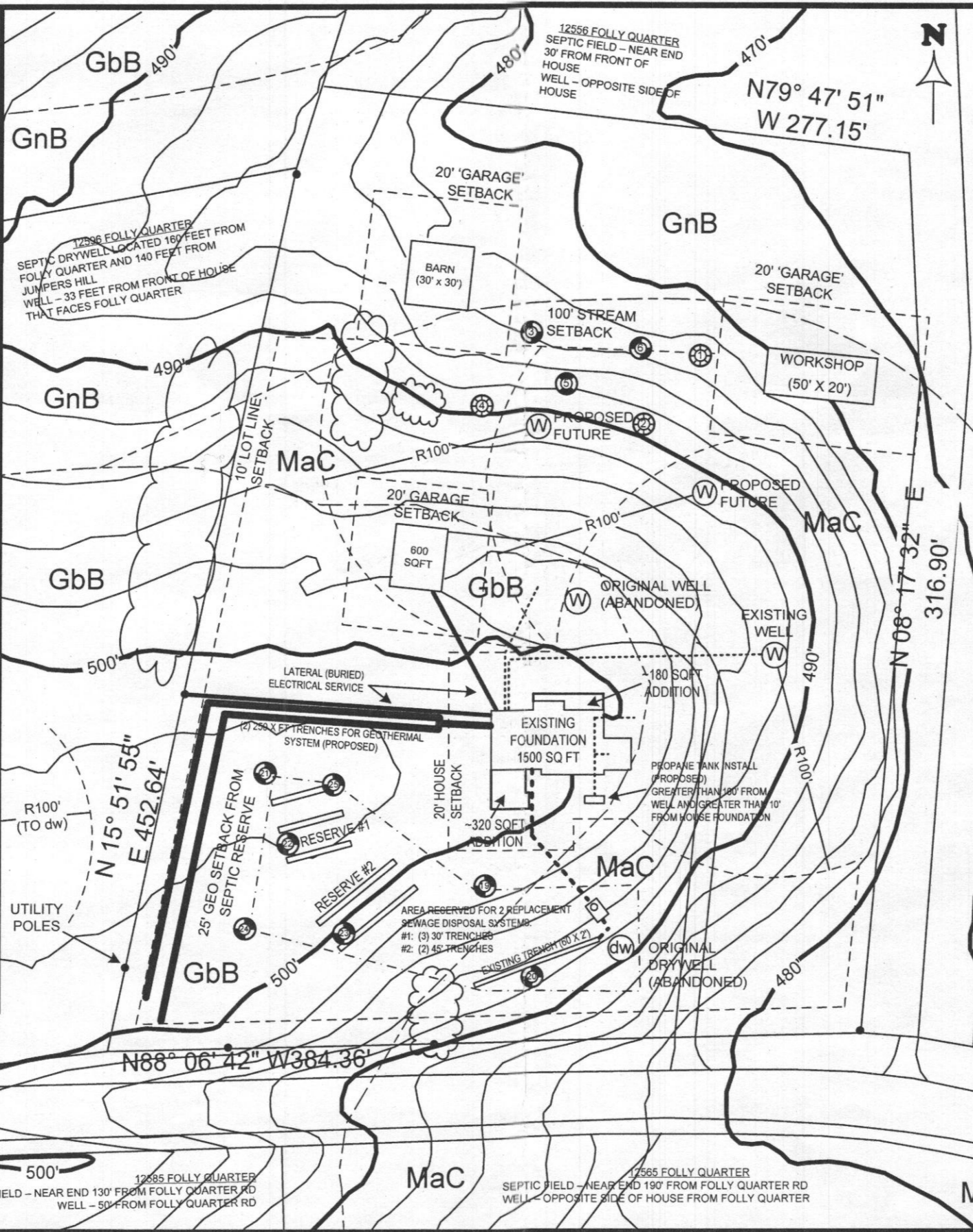
LEGEND

- PERCOLATION TEST HOLE - PASSED
- PERCOLATION TEST HOLE - NOT TESTED
- PERCOLATION TEST HOLE - FAILED
- HOLE DEPTH INSUFFICIENT TO TEST- ROCKS
- SEPTIC RESERVE AREA



GENERAL NOTES

1. SUBJECT PROPERTY ZONED RR-DEO PER HOWARD COUNTY ZONING MAP FEBRUARY 2014.
2. TOTAL AREA OF PROPERTY 3.176 AC +/-
3. PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE
4. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. FOR LOTS CREATED PRIOR TO MARCH OF 1972 IT PROVIDES AT LEAST ENOUGH AREA TO ACCOMMODATE AN INITIAL AND TWO REPLACEMENT SEPTIC SYSTEMS AS REQUIRED BY THE HOWARD COUNTY HEALTH DEPARTMENT. IMPROVEMENTS OF ANY NATURE WITHIN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
5. BOUNDARY SHOWN HEREON IS BASED ON HOWARD COUNTY TAX MAP INFORMATION.
6. THE TOPOGRAPHY OF THIS PLAT IS TAKEN FROM HOWARD COUNTY AERIAL PHOTOGRAPHY FLOWN IN 2011 AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
7. PROPERTY ADDRESS: 12562 FOLLY QUARTER RD
8. DEED REFERENCE: LIBER12254, PAGE 065, PLAT 5713
9. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
10. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
11. THE PURPOSE OF THIS PLAN IS TO ESTABLISH A WELL AND SEPTIC EASEMENT FOR A HOME HAVING 3 BEDROOMS INCLUDING PROPOSED ADDITIONS SHOWN.



PERCOLATION CERTIFICATION PLAN

+ GEOTHERMAL TRENCH PLAN/EASEMENTS

12540 FOLLY QUARTER SEPTIC FIELD - NEAR END 80' FROM FRONT OF HOUSE WELL - OPPOSITE SIDE OF HOUSE

I certify that the information shown herein is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief.
 Michael E. Potts *Michael E. Potts* 11/3/18
 Engineer Date

Approved For Private Water and Private Sewerage Systems
Robert M. Morrison 2/9/2019
 Health Officer, Howard County Health Dept. Date

PERC CERT CALCULATIONS

	Application rate (gal/day/sq ft)	Square footage of drainfield required (Design flow / application rate)	Effective area beginning depth (ft)	Bottom max. depth (ft)	Sidewall reduction credit		Required trench length w/sidewall credit
					2'	3'	
Number of Bedrooms: 3							
Design Flow (150 gallons per day per bedroom): 450							
Initial System	1.2	375	4.0	8.0	36%	42%	68 52
1st Replacement Between Holes 21, 25 & 22	0.8	563	4.5	8.0	40%	45%	113 85
2nd Replacement Between Holes 22, 24 & 23	0.8	563	4.5	8.0	40%	45%	113 85
Sidewall reduction credit = $(W + 2) / (W + 1 + 2D) \times 100$, where W is trench width and D is Bottom max depth less Beginning depth							

12562 FOLLY QUARTER ROAD
 MAP: 0022 GRID: 0017 PARCEL: 0110
 OWNERS: MICHAEL & DANA POTTS
 TEL: 410-279-6855

APPROVED
 WALK-THRU BUILDING PERMIT
 BP# M17000 329 A#
 APP. SAN Robert Morrison DATE: 2/9/19
 DEISC. OF WORK: Horizontal
 Geothermal Well

M17000829

Manning, Lorri

From: BAIR Necessities, LLC <info@bairnecessities.com>
Sent: Tuesday, November 07, 2017 3:26 PM
To: Manning, Lorri
Subject: mechanical permit M17000829
Attachments: PLAT 12562 FOLLY QUARTER RD - POTTS.pdf; PLAT LESS GEO 12562 FOLLY QUARTER RD - POTTS.pdf; potts new load as of plans 091417.xls

Importance: High

Dear Laurie,

Per our conversation attached you will find the plat for the geo lines. A manual J and the equipment is Waterfurnce 3 ton Series 5 model number NDV038G111CT1A*AN.

Let me know if you need anything else....

Thanks,

Karen



BAIR Necessities, LLC

"Need Air, Call BAIR!"

Heating & Air Conditioning

Phone: 410-721-4142

Fax: 410-923-1237

Web: www.bairnecessities.com

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MI7000829

Place your company information here like your company name, company phone number, company's logo, address, slogan, contracting license num
business hours, etc.

Mike Potts
12562 Folly Quarter Road
Ellicott City
Phone:
rerun with new dimensions 091417
kb

Heat Loss determines how much heating a room and entire building requires.
Heat Gain determines how much cooling a room and entire building requires.
Note: Calculations are very accurate for the purpose required but are not
a perfect science because many assumptions need to be made considering
the building envelope construction and materials when calculations are performed.

Heating Indoor Design Temperature:	70
Heating Outdoor Design Temperature:	15
Heating Temperature Difference:	55
Daily Range:	

Cooling Indoor Design Temperature:	72
Cooling Outdoor Design Temp:	95
Cooling Temperature Difference:	23
Humidity Grains:	51

Certified Heat Loss Calculations

Surface Area	storage room	game room	oil storage	utility room	sitting room	#REF!	#REF!	stairs	rec room	rear left bed	front left bed	kitchen	family room	office	0
Exposed Walls	0	0	0	0	0	0	0	721	225	450	586	1,351	1,081	0	0
Exposed Ceiling	189	409	220	120	335	0	445	229	79	157	204	322	445	220	0
Windows & Skylights	88	176	0	88	176	0	176	658	746	219	307	856	527	1,514	0
Doors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floors	0	0	0	0	0	0	0	8	3	5	7	11	15	8	0
Infiltration	170	341	0	170	341	0	341	1,278	1,448	426	596	1,661	1,022	2,939	0
Duct loss	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Room By Room Heat Loss	447	925	220	378	851	0	962	2,894	2,501	1,259	1,701	4,201	3,092	4,681	0
Entire Home Heat Loss	24,112														0

Note: These calculations are certified to be accurate as per industry standards provided by ANSI, ASHRAE, and ACCA Manual J. *Name trademarks held by respective entities.

Easy Loads™ Copyright 2005 Contractors Advantage Inc.



Certified Heat Gain Calculations

Surface Area	storage room	game room	oil storage	utility room	sitting room	#REF!	#REF!	stairs	rec room	rear left bed	front left bed	kitchen	family room	office	0
Exposed walls	0	0	0	0	0	0	0	301	94	188	245	565	452	0	0
Exposed ceiling	79	171	92	50	140	0	187	96	33	66	86	135	187	92	0
Windows & Skylights	264	528	0	264	264	0	264	1,290	1,565	330	280	1,470	792	2,265	0
Doors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floors	0	0	0	0	0	0	0	8	3	5	7	11	15	8	0
Lighting load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Appliance sensible load (average 800 for kitchen)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Computer & monitor load (average 400)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Occupant sensible load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Infiltration	71	143	0	71	143	0	143	534	606	178	249	695	428	1,229	0
Duct gain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Room Sensible Cooling Totals	414	842	92	385	546	0	593	2,229	2,300	768	867	2,875	1,873	3,594	0
Appliance latent load total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Occupant latent load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Infiltration latent load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All Rooms Latent Cooling Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All Rooms Sensible Cooling Total	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380
Entire Home Cooling Total BTUs	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380	17,380



Notes:

JOBSITE WORKSHEET

Site Measurements	storage room	game room	oil storage	bathroom basement	utility room	sitting room	stairs	rec room	rear left bed	hall bath	front left bed	front middle bed	dining room	kitchen	family room	office
Room Width (in .1 feet, example: 12.5)	11	22	11	4	7	18		24	16	5	10	10	11	15	24	11
Room Length (in .1 feet, example: 15) If floor is above conditioned area enter 0. If not enter 1.	12	13	14	11	12	13		13	10	11	16	11	13	15	13	14
Ceiling height measured at outside wall	0	0	0	0	0	0		0	1	1	1	1	1	1	1	1
Ceiling height (averaged for sloped ceilings)	9	9	9	9	9	9		9	9	9	9	9	9	9	9	9
Walls above grade exposed to outside (in length)																
Walls above grade exposed to outside (in height)																
Walls below grade exposed in length	34	22	25	4	19	18		36								
Walls below grade exposed in height	9	9	9	9	9	9		9								
North facing glass window & door surface area in sq. feet																
South facing window surface & door surface area (in sq. feet)						8		8					14	24		39
E & W facing window & door surface area (in sq. feet)	4	8	4	4	4				15		15	10			24	15
NE & NW facing window & door surface area (in sq. feet)																
SE & SW facing window & door surface area (in sq. feet)																
Skylight area in sq. ft																
Exterior doors in area (sq. ft.)																

JOBSITE WORKSHEET

Heat Loss Calculations

Surface Type	Load Multiplier	Reference Number
Walls above grade exposed to exterior unconditioned areas	0.091	
Walls below grade	0.095	
Ceiling/Roof	0.026	
Floors	0.049	
Doors	0.500	
Windows (direction facing not required)	0.399	
Skylight Multiplier		
Infiltration multiplier (will calculate automatically)	42.60	
Infiltration Heat Loss Factor:	0.500	
Duct Heat Loss Multiplier:		

Heat Gain Calculations

Surface Type	Load Multiplier	Reference Number
Walls above grade exposed to exterior unconditioned areas	0.091	0
Ceiling/Roof	0.026	0
Floors	0.049	0
Doors	0.500	0.000
Windows North Facing	20.00	
Windows South Facing	33.00	
Windows E or W Facing	66.00	
Windows NE or NW Facing		
Windows SE or SW Facing		
Skylight Multiplier		
Infiltration multiplier (will calculate automatically)	17.81	
Infiltration Heat Gain Factor	0.500	
Duct Heat Gain Multiplier:		

Note to customer: Heat gain calculations are used to properly size the air conditioning unit for your building. These calculations meet industry standards which will give you the designed indoor temperatures when it is at or below the outside design temperature listed 97.5% of the time. It is not recommended to oversize your air conditioning system to meet the extreme temperatures that only occur 2.5% of the hours of a year because this will cause potential mold, health problems and comfort problems. Energy codes in many areas of the country will govern what temperatures a system can be designed for.

Duct Sizing Data

Name Of Room
storage room
game room
oil storage
utility room
sitting room
#REF!
#REF!
stairs
rec room
rear left bed
front left bed
kitchen
family room
office
0