

DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PERMITS (410) 313-2455 INSPECTIONS (410) 313-1850	<b>HOWARD COUNTY          RESIDENTIAL          HEATING-VENTILATION-AIR          CONDITIONING AND          REFRIGERATION PERMIT          APPLICATION</b>	HVACR PERMIT # <b>M10000737</b> BUILDING PERMIT #
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BUILDING ADDRESS: <b>7028 Loganberry Lane</b> SUITE/APT: <b>Fulton, MD 20759</b> SUBDIVISION: _____ SECTION: _____ AREA: <b>2</b> CENSUS TRACT: _____ TAX MAP: _____ PARCEL: <b>418</b> LOT: <b>7</b> BLOCK: _____ ZONE: _____ PROPERTY ID: <b>383749</b> MAP COORDINATES: <b>41</b>	OWNERS NAME: <b>Ray Donaldson</b> ADDRESS: <b>7028 Loganberry Lane</b> CITY: <b>Fulton</b> STATE: <b>MD</b> ZIP CODE: <b>20759</b> HOME PHONE: <b>301-776-0208</b> WORK PHONE:
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<table border="0"> <tr> <td style="text-align: center;"><u>CHECK ONE</u></td> <td style="text-align: center;"><u>HOW MANY</u></td> <td></td> </tr> <tr> <td>SINGLE FAMILY DWELLING <input checked="" type="checkbox"/></td> <td style="text-align: center;"><u>1</u></td> <td>ZONES</td> </tr> <tr> <td>SINGLE FAMILY TOWNHOUSE <input type="checkbox"/></td> <td style="text-align: center;"><u>    </u></td> <td>ZONES</td> </tr> <tr> <td>MULTI-FAMILY / HOTEL/MOTEL <input type="checkbox"/></td> <td style="text-align: center;"><u>    </u></td> <td>ROOMS</td> </tr> <tr> <td>ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS) <input type="checkbox"/></td> <td style="text-align: center;"><u>    </u></td> <td>ROOMS</td> </tr> </table>	<u>CHECK ONE</u>	<u>HOW MANY</u>		SINGLE FAMILY DWELLING <input checked="" type="checkbox"/>	<u>1</u>	ZONES	SINGLE FAMILY TOWNHOUSE <input type="checkbox"/>	<u>    </u>	ZONES	MULTI-FAMILY / HOTEL/MOTEL <input type="checkbox"/>	<u>    </u>	ROOMS	ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS) <input type="checkbox"/>	<u>    </u>	ROOMS	TYPE OF IMPROVEMENTS: _____ USE: _____ COMPANY NAME: <b>Louie's Heating &amp; Air, Inc.</b> LICENSEE NAME: <b>John Davidson</b> ADDRESS: <b>PO Box 396</b> CITY: <b>Severn</b> STATE: <b>MD</b> ZIP CODE: <b>21144</b> PHONE: <b>410-551-1376</b> HVACR LICENSE NO: <b>5613</b>
<u>CHECK ONE</u>	<u>HOW MANY</u>															
SINGLE FAMILY DWELLING <input checked="" type="checkbox"/>	<u>1</u>	ZONES														
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New Heating and Air Conditioning  
 New Geo Thermal System  
 Heating System Only  
 Ductless Mini Splits  
 Other Work (Describe):  
 Thru The Wall Systems

Replacement  
 Heating  
 Air Conditioning  
 Heating and Air Conditioning

Additions and Alterations  
 Heating  
 Air Conditioning  
 Heating and Air Conditioning

**8/11/2010**  
*approved*  
 Geo Thermal **BB**

\*\*\*\*Replacement Geo Thermal Systems are not required; However, if a tax credit is being sought a permit is required\*\*\*\*

<b>Zones</b> Permit Fee = # of Zones x \$40 = <u>40.00</u> Technology Fee (10% of Permit Fee) = <u>4.00</u> Plus Application Fee <u>50.00</u> Total Fees Due = <u>94.00</u>	<b>Rooms</b> Permit Fee = # of Rooms x \$80 = _____ Technology Fee (10% of Permit Fee) = _____ Plus Application Fee \$50 <u>50.00</u> Total Fees Due = _____
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I HAVE CAREFULLY EXAMINED AND READ THIS APPLICATION AND KNOW IT IS TRUE AND CORRECT. THE WORK DESCRIBED HEREIN WILL BE PERFORMED BY A STATE HVACR LICENSED PERSON(S), AND ALL WORK WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS OF HOWARD COUNTY THE STATE OF MARYLAND.

SIGNATURE OF LICENSEE: *John Davidson* DATE: 7-21-10  
 PRINT NAME OF LICENSEE: John Davidson  
 Email Address: info@louiesheatingandair.com

<b>Validation</b> Check Number: <u>3064</u> Cash: _____ Receipt Number: <u>213969</u>
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Make check payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY  
 Word doc: T:\Updated Forms\hvac application  
 Rev:10.2009

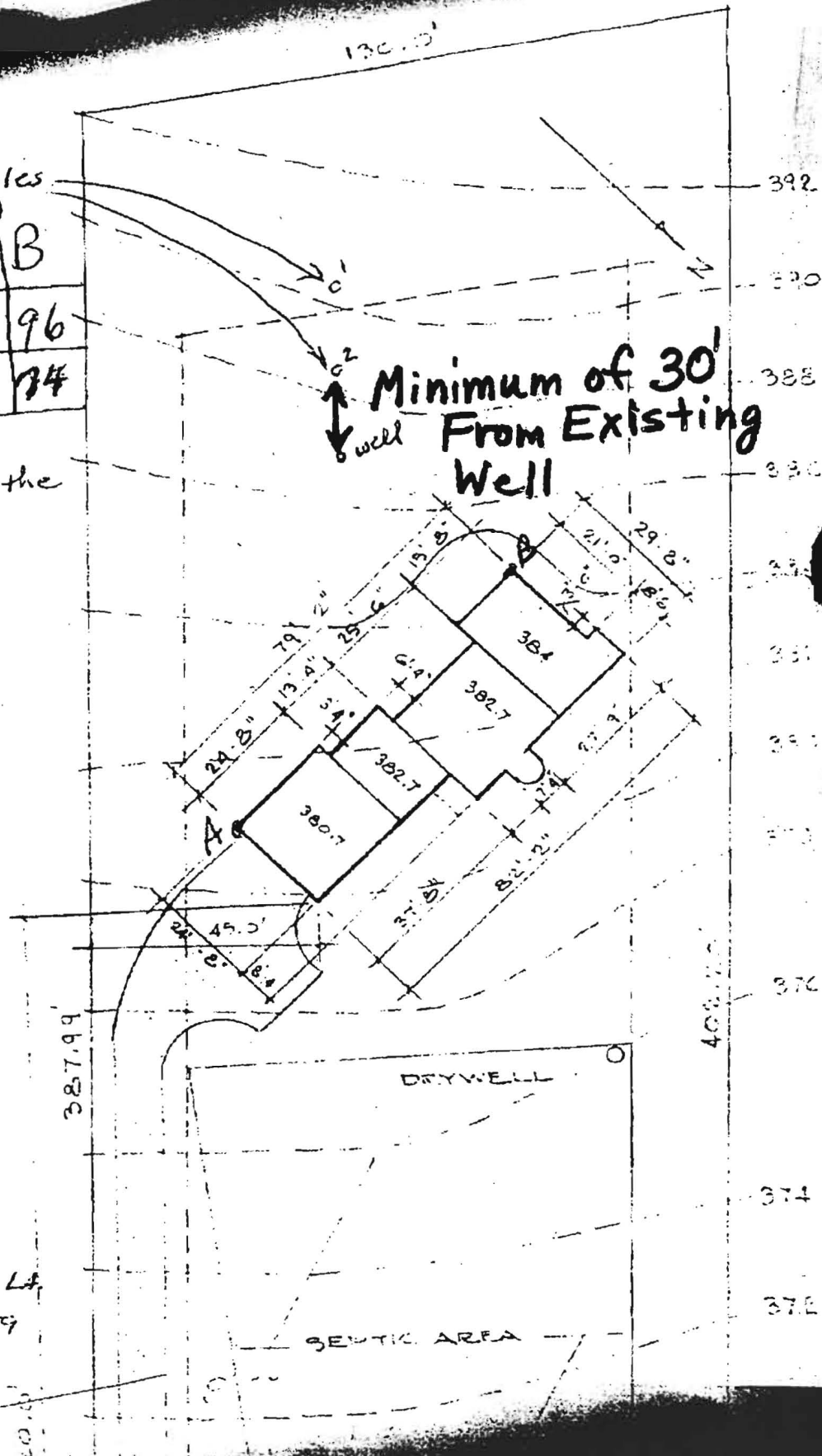
*well septic*

Geo Holes  
(flagged)

	A	B
1	130	96
2	108	74

30'  
~~20'~~ off the  
Well

Minimum of 30'  
From Existing  
Well



owner

Rory Donaldson  
7628 Loganberry Ln  
Fulton MD 20759



**Project Summary**  
**Entire House**  
 Love's Heating & Air, Inc.

M 10000237  
 Job:  
 Date: march 11, 2010  
 By:

P.O. Box 396, Severn, MD 21144 Phone: 410-551-1376 Fax: 410-551-2157 Email: johnlove@lovesheatingandair.com Web: www.lovesgeothermal.com

**Project Information**

For: ray donaldson, 7028 loganberry rd, fulton, md

Notes:

**Design Information**

Weather: Baltimore, MD, US

**Winter Design Conditions**

Outside db 17 °F  
 Inside db 68 °F  
 Design TD 51 °F

**Summer Design Conditions**

Outside db 91 °F  
 Inside db 75 °F  
 Design TD 16 °F  
 Daily range M  
 Relative humidity 50 %  
 Moisture difference 37 gr/lb

**Heating Summary**

Structure 36607 Btuh  
 Ducts 14091 Btuh  
 Central vent (0 cfm) 0 Btuh  
 Humidification 0 Btuh  
 Piping 0 Btuh  
 Equipment load 50698 Btuh

**Sensible Cooling Equipment Load Sizing**

Structure 26587 Btuh  
 Ducts 10660 Btuh  
 Central vent (0 cfm) 0 Btuh  
 Blower 0 Btuh  
 Use manufacturer's data n  
 Rate/swing multiplier 0.96  
 Equipment sensible load 35720 Btuh

**Infiltration**

Method Simplified  
 Construction quality Average  
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft <sup>2</sup> )	3016	3016
Volume (ft <sup>3</sup> )	24492	24492
Air changes/hour	0.33	0.15
Equiv. AVF (cfm)	134	61

**Latent Cooling Equipment Load Sizing**

Structure 2331 Btuh  
 Ducts 2387 Btuh  
 Central vent (0 cfm) 0 Btuh  
 Equipment latent load 4718 Btuh  
 Equipment total load 40438 Btuh  
 Req. total capacity at 0.70 SHR 4.3 ton

**Heating Equipment Summary**

Make  
 Trade  
 Model  
 GAMA ID

Efficiency 80 AFUE  
 Heating input 0 Btuh  
 Heating output 0 Btuh  
 Temperature rise 0 °F  
 Actual air flow 1688 cfm  
 Air flow factor 0.033 cfm/Btuh  
 Static pressure 0 in H2O  
 Space thermostat

**Cooling Equipment Summary**

Make  
 Trade  
 Cond  
 Coil  
 ARI ref no.  
 Efficiency 0 SEER  
 Sensible cooling 0 Btuh  
 Latent cooling 0 Btuh  
 Total cooling 0 Btuh  
 Actual air flow 1688 cfm  
 Air flow factor 0.045 cfm/Btuh  
 Static pressure 0 in H2O  
 Load sensible heat ratio 0.89

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.



**Wrightsoft** Project Summary  
**Entire House**  
 Love's Heating & Air, Inc.

Job:  
 Date: march 11, 2010  
 By:

P.O. Box 396, Severn, MD 21144 Phone: 410-551-1376 Fax: 410-551-2157 Email: johnlove@lovesheatingandair.com Web: www.lovesgeothermal.com

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