

DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PERMITS (410) 313-2455 INSPECTIONS (410) 313-1850	HOWARD COUNTY RESIDENTIAL HEATING-VENTILATION-AIR CONDITIONING AND REFRIGERATION PERMIT APPLICATION	HVACR PERMIT # MI17000444 BUILDING PERMIT #
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BUILDING ADDRESS: SUBDIVISION: CENSUS TRACT: LOT: BLOCK: PROPERTY ID: TYPE OF IMPROVEMENTS:	SUITE/APT: SECTION: TAX MAP: ZONE: MAP COORDINATES:	OWNERS NAME: Erin La Villa ADDRESS: 3814 Walt Ann Dr. CITY: Ellicott City STATE: MD ZIP CODE: 21042 HOME PHONE: 440-552-3894 WORK PHONE:
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CHECK ONE	HOW MANY	COMPANY NAME:
SINGLE FAMILY DWELLING <input checked="" type="checkbox"/>	<u>1</u> ZONES	Watervale Heating & Air Cond
SINGLE FAMILY TOWNHOUSE <input type="checkbox"/>	___ ZONES	LICENSEE NAME: Joseph F. Opatyke
MULTI-FAMILY / HOTEL/MOTEL <input type="checkbox"/>	___ ROOMS	ADDRESS: 2116 Watervale Rd.
ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS) <input type="checkbox"/>	___ ROOMS	CITY: Fallston
		STATE: MD ZIP CODE: 21047
		PHONE: 410-879-0292 HVACR LICENSE NO: 7629

New <input type="checkbox"/> Heating and Air Conditioning <input type="checkbox"/> Geo Thermal System	<input type="checkbox"/> Heating System Only <input type="checkbox"/> Ductless Mini Splits	<input type="checkbox"/> Other Work (Describe): <input type="checkbox"/> Thru The Wall Systems
Replacement <input type="checkbox"/> Heating <input type="checkbox"/> Air Conditioning <input checked="" type="checkbox"/> Heating and Air Conditioning	Replacing existing hvac units with water Furnace and v038 (3 to) geothermal unit "No outside work - Interior work only"	Additions and Alterations <input type="checkbox"/> Heating <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Heating and Air Conditioning

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

Zones 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>	Rooms 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: Joseph F. Opatyke DATE: 5/12/17
 PRINT NAME OF LICENSEE: Joseph F. Opatyke
 Email Address: watervalehvaca@gmail.com

Make check payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

Word doc: T:\Updated Forms\hvac application
 Rev: 10.2009

Approved 5/17/17

[Signature] L.H.S.

Validation Check Number: <u>24557</u> Cash: _____ Receipt Number: <u>491146</u>

RECEIVED

MAY 15 2017

LICENSES & PERMITS
DIVISION

Project Report

General Project Information

Project Title: Lavik
 Designed By: Joe Opdyke
 Project Date: Wednesday, April 26, 2017
 Client Name: Lavik
 Client Address: 3814 Walt Ann, Dr.
 Client City: Elliott City, Md. 21042
 Client Phone: 440-552-3894
 Company Name: Watervale Heating & A.C.
 Company Address: 2116 Watervale, Rd.
 Company City: Fallston, Md. 21047
 Company Phone: 410-879-0292

Design Data

Reference City: Baltimore, Maryland
 Daily Temperature Range: Medium
 Latitude: 39 Degrees
 Elevation: 148 ft.
 Altitude Factor: 0.995
 Elevation Sensible Adj. Factor: 1.000
 Elevation Total Adj. Factor: 1.000
 Elevation Heating Adj. Factor: 1.000
 Elevation Heating Adj. Factor: 1.000

	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	5	0	30	72	29
Summer:	95	75	50	75	34

Check Figures

Total Building Supply CFM:	1,345	CFM Per Square ft.:	0.411
Square ft. of Room Area:	3,276	Square ft. Per Ton:	1,002
Volume (ft ³) of Cond. Space:	26,208	Air Turnover Rate (per hour):	3.1

Building Loads

Total Heating Required With Outside Air:	49,395 Btuh	49.395 MBH
Total Sensible Gain:	29,435 Btuh	94 %
Total Latent Gain:	1,834 Btuh	6 %
Total Cooling Required With Outside Air:	31,269 Btuh	2.61 Tons (Based On Sensible + Latent)
		3.27 Tons (Based On 75% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
 All computed results are estimates as building use and weather may vary.
 Be sure to select a unit that meets both sensible and latent loads.