

given

TOWN OF ESSEX CERTIFICATE OF OCCUPANCY APPLICATION

DATE OF REQUEST: 5/24/17 FEE: \$85.00 pc (includes recording)

MAP/PARCEL/LOT: 014-023-304 NO. 2016-172

The undersigned herewith requests an inspection of the premises and the issuance of "Certificate of Occupancy" of premises, or portion thereof, for use or habitation.

This request is for use only of existing land or buildings.

This request is for new construction or rehabilitated or altered structure which was done under authority of zoning permit # 2016-172

issued to Bladellode/Brigham Heights, LLC on 10/17/16

Premises are at 14 Goodrich Lane Essex VT (lot #4)

Water service installation inspected and approved by Doug Goulette - Lamoureux & Dickinson Engineering

Driveway location inspected and approved by Public Works

Sanitary sewer connection or septic system inspected and approved by:

Name: Doug Goulette - Lamoureux & Dickinson Date: Certification letter dated 5/24/17 attached

Construction was begun November, 20 and completed May, 2017

Approval granted by P.C. or Z.B.A. on PC: 2012-19 + PC: 2014-11, 2017

Use of premises intended Single Family Residence 3 bedroom 2 car garage, open porch, unfinished basement
(type of use)

Applicant's Signature: [Signature] Cell: 578-8451 Office: 488-3460

By issuance of this Occupancy Permit, the Town of Essex Zoning Administrator hereby acknowledges that the use and/or building construction is in complete conformity with the Zoning Regulations, unless otherwise noted. Field measurements and similar dimensions for setbacks are based in part on evidence supplied by owner. The Town of Essex is not liable for errors or mistakes when it is found that information submitted by the applicant is erroneous or inaccurate.

Certificate of Occupancy has been approved with without conditions.

If with conditions, see attachment outlining same over

Certificate of Occupancy denied . Please see attachment with reasons for denial.

5/30/17
Date [Signature]
Zoning Administrator



5.30-17

Certificate of Occupancy Conditions
2016-172

1. Any future structures, whether requiring a permit or not, shall be built within the approved building envelope.
2. No-cutting shall occur outside the building envelope without approval by the Planning Commission.
3. The developer (Blackhawk) shall be responsible for any fix to the curb cut driveway/albert/stormwater issue within 1 week of this approval should public works determine additional work is required prior to final sign-off.

J. Kelley, Z.A.



May 24, 2017

William Zabiloski, Assistant Regional Engineer
Drinking Water and Groundwater Protection Division
111 West Street
Essex Junction, VT 05452

RE: Bouffard Subdivision, Brigham Hill Road, Essex, Vermont
Wastewater System and Potable Water Supply Permit #WW-4-3818
Construction Statement for Lot #4

Dear Bill:

We are writing on behalf of Blackrock Construction regarding lot #4 in the residential development project referenced above. Representatives from our office previously observed the installation of the shared (lot #3 and #4) mound wastewater disposal system serving this lot, and more recently, the septic tank and pump station for lot #4, and also the location of the drilled well. Based on our observations, we offer the following statement:

"I hereby certify that, in the exercise of my reasonable professional judgment, the installation-related information submitted is true and correct and the potable water supply and wastewater system for lot #4 were installed in accordance with the lot #4 record drawing, and such record drawing is in compliance with the applicable rules, were filed with the Secretary, and are in accordance with all other permit conditions, were inspected, were properly tested, and have successfully met those performance tests."

As discussed, we have attached a record drawing of the site, with the locations of the well, septic tank, and pump station. Unfortunately, the contractor installed the septic tank with a setback to the well of only 41 ft, not the standard 50 ft. Because this error would be costly to remedy and cause a lot of disturbance, we took a look at the soils and site conditions to determine if a somewhat reduced separation between the well and septic tank would still be adequate to protect the well. We concluded that it is, for the following reasons:

1. The well is upslope of the septic tank.
2. The well drillers log for the well installed on this lot indicates 10' of till and then schist to a depth of 380'. This is consistent with our test pit logs showing that the site is dominated by glacial till hardpan at a depth of 24 inches or less. This would indicate that the bedrock is protected by many feet of low permeability soil material.
3. The ground slope is moderately steep in the area of lot #4, and slopes from east to west. Based on this topography, we are confident the groundwater gradient is also east to west. Any potential contamination from the septic tank would flow westerly away from the well.
4. Test pits throughout this project area indicated a seasonal high groundwater table at a depth of less than 2'. As a result, if the septic tank were to leak, the effluent would likely enter the shallow perched water table sitting on the dense till and flow westerly, away from the well.
5. Given the depth of the well casing of 40', the distance from the septic tank to the bottom of the casing where it is grouted to the bedrock is 57'.

The Rules consider the isolation distances to have some flexibility (*"These distances may be reduced when evident that the distance is unnecessary to protect an item or increased if necessary to provide adequate protection"*). It is our opinion that given the above information, the constructed system meets

the intent of the Rules.

Also, in accordance with Condition 1.9, we offer the following statement:

“The installation of the wastewater system was accomplished in accordance with the Innovative/Alternative System Approval Letter, stamped plans and permit conditions”.

A record sketch of the Lot #4 house site is attached. If you have any questions or need additional information, please don't hesitate to contact me.

Sincerely,



Doug Goulette
Professional Engineer

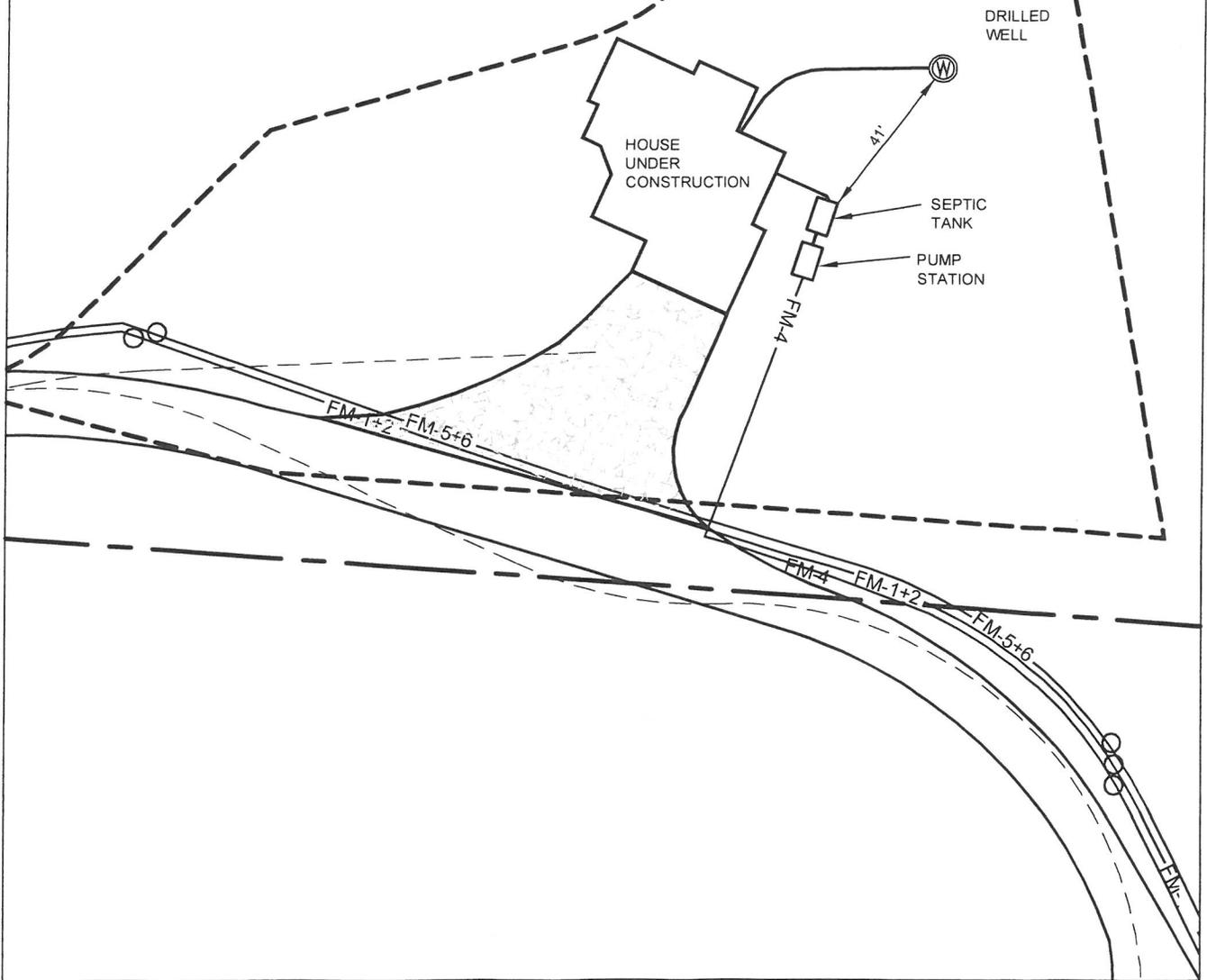
Enclosure

cc: Tom Hergenrother Blackrock Construction (via email)

P:\2013\13076\CONSTRUCTION\LOT#4 DOC S\13076-LTR-WW CERT-LOT4.WYMAN.DJG.DOCX



LOT #4



Proj. no.:	13076	Drawn:	DJG
Date:	05-17-2017	Checked:	BJT
Scale:	1" = 40'	File:	lot4rec.dwg

BOUFFARD SUBDIVISION
LOT #4 RECORD SKETCH



LAMOUREUX & DICKINSON
Consulting Engineers, Inc.
14 Morse Drive
Essex Junction, VT 05452
(802) 878-4450

recorded.

2015 Vermont Residential Building Energy Standards (RBES) Certificate

This certificate is for projects started on or after March 1, 2015.
Before completing this form, refer to the instructions in Section 8.2a of the Residential Energy Code Handbook (4th edition).
For additions, alterations, renovations or repairs, only fill out applicable portions of certificate.

14 Goodrich Lane Essex VT (lot 4 Bingham Heights)
Property Address (Street, City, ZIP Code) Act 250 Permit # NA

GMP 11/2016 5/2017
Electric Utility serving this address Construction START Date Construction FINISH Date

1 2 2351 Approx 3
Units # Stories # Conditioned Sq. Ft. # Bedrooms

Project Description

- Single Family Renovation / Alteration
- Multi-family Addition
- Log Home Stretch Code

Existing Home Project Description: Approx 2350 Sq Ft Single Family home - 3 BR - attached 1-car garage

Foundation Type: Basement Slab On Grade Crawl Space

Thermal Envelope

- R- 15 Basement / Crawl Space Walls _____ Basement Insulation Depth (ft)
- R- _____ Unheated Slab R- _____ Floors over Unheated Spaces
- R- _____ Heated Slab R- 21 Above-Grade Walls
- R- _____ Perimeter Slab Edge U- _____ Doors NFRC Default
- U- _____ Windows NFRC Default R- _____ Attic Access Hatch / Door
- U- _____ Basement Windows NFRC Default
- R- _____ Sloped Ceilings _____ Area (Sq. Ft.)
- R- 60 Flat Ceilings _____ Area (Sq. Ft.)
- U- _____ Skylights NFRC Default

Air Sealing

Verified by: Testing _____ ACH50 _____ CFM50 Visual Inspection

Ventilation System

Exhaust Balanced Air Flow: _____ CFM Rated Measured

Mechanical System

Calculation Method: ACCA Manual J 8th Edition Other _____

- Primary Heating System Size (Btuh) _____ Primary Central Cooling System Size (Btuh) _____ NA
- Calculated Heat Loss (Btuh) _____ Calculated Heat Gain (Btuh) _____ Programmable Thermostat
- AFUE or HSPF Efficiency _____ SEER or COP Efficiency _____ Heat Pump Supplementary Heat Control
- No Heat Pump Supplied

Ducts

Ducts located within conditioned space

R- _____ Supply Ducts _____ Location _____ Duct Tightness (CFM @ 25 Pa.)
R- _____ Return Ducts _____ Location Test Performed at Rough-in Post-construction

Combustion Safety

- Spillage testing conducted on combustion equipment not directly-vented
- Solid fuel burning appliances and fireplaces have gasketed doors with compression closure
- Exterior air supply requirements met for solid fuel-burning appliances and fireplaces

Other

- Mechanical System Piping, R-3
- Circulating service hot water piping, R-3
- Automatic or Gravity dampers
- Automatic controls for snow-melt systems
- Accessible on-off switches for pool heaters
- Automatic time switches for pool heaters
- Pool cover for all heated pools
- 75% of lamps in permanently installed fixtures are high efficacy
- Electric vehicle charging parking spaces (for multifamily buildings under stretch code)

Compliance Method Used

Prescriptive Package # 4 REScheck Software Maximum UA _____ Your UA _____

Home Energy Rating Rating Score _____ Rated by _____

I certify to David & Alaina Shevchik that the above information is correct and that the premises listed HAVE been constructed in accordance with the Vermont Residential Building Standards (RBES) created under 30 V.S.A. § 51.

Signature Tom Hergenrother Print Name Tom Hergenrother

Company Black Rock (Bingham Heights), LLC Phone 802-488-3460 Date 5/24/17

30 V.S.A. § 51 requires this certificate label to be permanently affixed to the inside electrical service panel or heating or cooling equipment or nearby in a visible location. Copies also must be provided to 1) the Dept. of Public Service, Planning & Energy Resources Division, 112 State St., Montpelier, VT 05602, and 2) the town clerk of the town where the property is located. NOTE: Noncompliance with RBES may result in action for damages under 30 V.S.A. § 51. This label does not specify all 2015 RBES requirements. QUESTIONS? CALL THE VT PUBLIC SERVICE DEPARTMENT: 802-828-2811.

Town of Essex Village of E.

Date: 05/24/2017 Time: 12:46:50

Clerk: alet

Name: Brad Cox

Comments: re Goodrich Loan

Description	Amount
RECORDING LEGAL	7.00
RECORDS	3.00

TOTAL 10.00

Check 3663

Thank you