

Appeal Period Expires <u>3/14/18</u>	Town of Essex, Vermont Application for Zoning Permit www.essex.org	Application Date <u>1/1</u>
Zoning District <u>RT</u>		Permit Number <u>2018-030</u>

All construction is to be completed in accordance with the Town of Essex Zoning Regulations and any/all federal or state regulations now in effect. You are required to post this permit in a conspicuous location on the property during the appeal period and it must remain posted throughout the construction period. You are required to contact the necessary state agencies to obtain state permits @ 477-2241 (Jeff McMahon, Permit Specialist).

Any interested person may appeal the decision of the Zoning Administrator to the Zoning Board of Adjustment within fifteen (15) days of the permit's date of issuance. Commencing construction within this fifteen (15) day appeal period is prohibited by law.

Signed: [Signature]

A Parcel Account Numb (Map-Parcel-Lot) 2-010-057-201
(found in Town Assessor's Office)
Property Address: 5 Indian Brook Rd
Owner: Indian Brook Properties LLC
Owner Address: (Future Owner) 27 Hillside Drive Williston Vt 05495
Owner Phone: (work) 861-8615 (home) _____
(cell) 338-6118 (Email) scsanterre@gmail.com
Future Owner & Contractors name: Sean Santerre Phone: 338-6118 Cell: 338-6118
Estimated Construction Dates: Start: 03/15/18 Completion: 12/20/18
Sq. Feet: 1,900 Estimated Cost (labor & materials): \$180,500

B Sewage Disposal (Please attach Sewer or Septic Application).
Public Private Connection Fee \$ _____ Date Paid: 1/1
Proposed New Bedrooms: 3 Existing Bedrooms: 3
200-7740 Vermont # NW-4-4538

C Water (Please attach Water Service Application).
Public Private Fee \$ _____ Date Paid: 1/1

D Driveway (Please attach copy of approved Curbcut / Utility Application).
Date of approval 2/26/18 attached

E Stormwater
 Project disturbs an area greater than or equal to 1 acre – Erosion Control Permit Required. Attach completed permit application.
 Project creates new or expands existing impervious surface greater than or equal to 1/2 acre – Erosion Control Permit and Stormwater Management Permit required. Attach completed permit application.

F Diagram – Show a sketch of project on reverse of this application with property lines, building, and setbacks or attach separate sheet.

G [Signature] Stephen Vanslyke
for Indian Brook Properties LLC
Signature of Tenant and Signature of Owner Sean Santerre

G

Check box(es) which describe proposed use or construction (circle choice in parenthesis).
N = New A = Addition R = Remodel

Residential:	N	A	R
Single Family	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Two-family (duplex)(other)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-family	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condominium / Townhouse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mobile home	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inclusions or Additions:			
Garage (attached) (detached)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Porch (enclosed) (open)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pool (in) (above) ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Barn (residential) (agriculture)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-residential:			
Commercial / Industrial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stormwater:			
Stormwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:			
Change in use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Miscellaneous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Renewal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

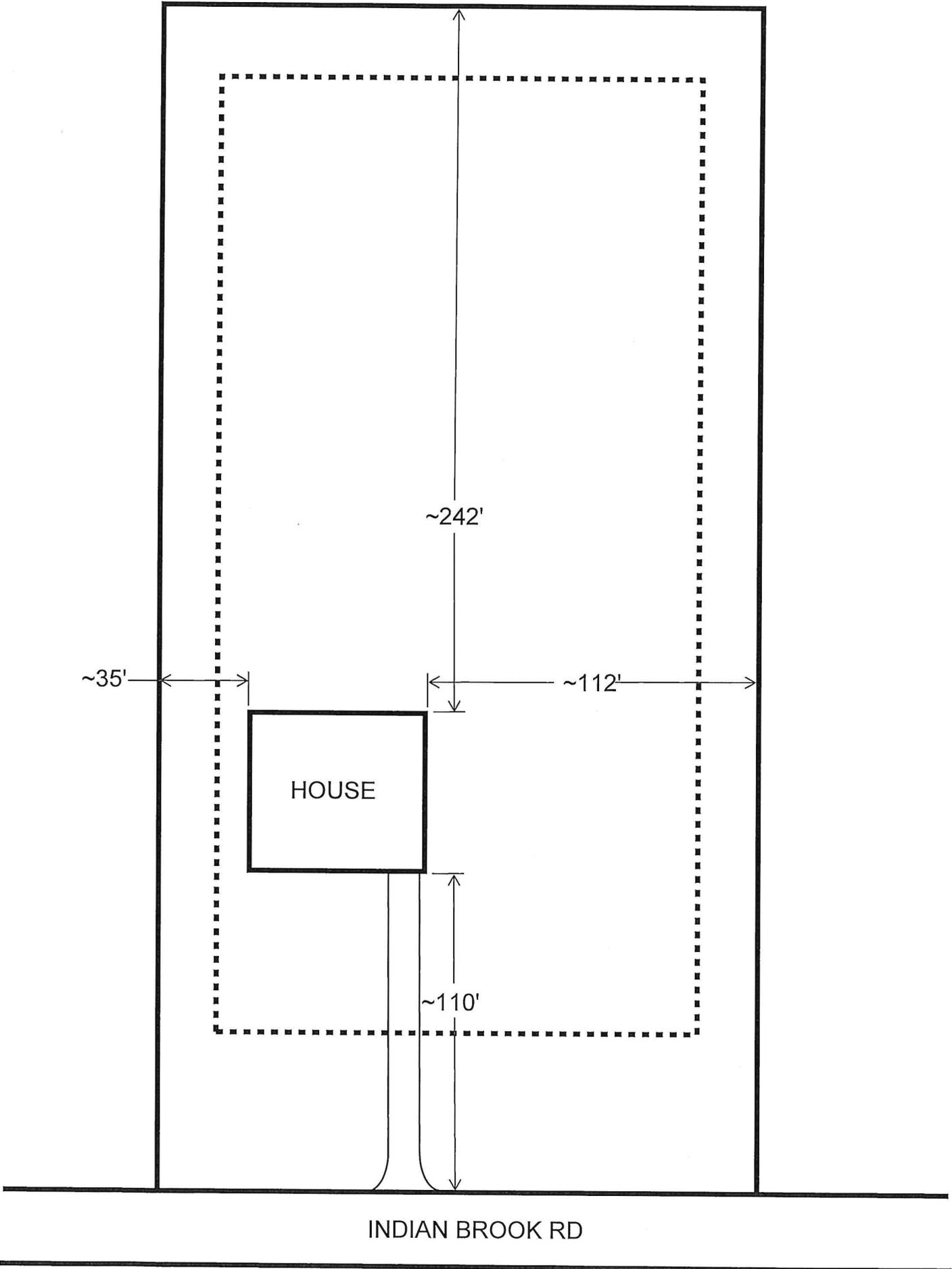
2 car, 1 story

Office Use Only

Fees:	Type	Amount	Date Pd
Permit		\$ <u>451.25</u>	<u>1/1</u>
Recreation		\$ <u>waived</u>	<u>1/1</u>
Recording		\$ <u>20.00</u>	<u>1/1</u>
Certificate of Occ		\$ <u>75.00</u>	<u>1/1</u>
Other	<u>TRAP</u>	\$ <u>646.50</u>	<u>1/30/18</u>

Building Permit
Approved Rejected Date 2/29/18
Issued to: Indian Brook Properties LLC + Sean Santerre
Zoning Administrator: Sharon A. Kelley
Notes: energy into green
C.O. Required Yes No

THIS PERMIT VALID FOR TWELVE (12) MONTHS FROM DATE OF ISSUE
TO Be constructed pursuant to Planning Commission approval #s 2015-22, 2017-44 & 2017-7



STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**STORMWATER DISCHARGE PERMIT**

STORMWATER RUNOFF TO WATERS OF THE STATE

In compliance with provisions of 10 V.S.A. §1264, the Stormwater Management Rule for Stormwater-Impaired Waters and in accordance with "Terms and Conditions" hereinafter specified,

Indian Brook Properties LLP
P.O. Box 123
Essex Junction, VT 05452
and
Indian Brook Homeowners Association, Inc.
P.O. Box 123
Essex Junction, VT 05452

Impervious Area: 1.45 acres

the permittee, is hereby granted permission to discharge stormwater runoff from Indian Brook Properties, located at 61 Indian Brook Road in Essex, Vermont to Indian Brook. This individual permit is required due to the impairment of the receiving water.

1. **Expiration Date:** Five years from issuance date of final permit. Note: This permit, unless revoked, modified or suspended, shall be valid until the designated expiration date not withstanding any intervening change in water quality, effluent, or treatment standards, or classification of the receiving waters including groundwater. However, any such changed standard or classification, and any applicable requirement in a total maximum daily load (TMDL), shall be applied in determining whether or not to renew this permit, and in determining the conditions of a renewed permit.

The permittee shall reapply for a renewed discharge permit ninety days prior to the expiration date of this permit.

2. **Revocation:** 10 V.S.A. §1267 provides as follows:

The Secretary may, after notice and opportunity for a public hearing, revoke, modify or suspend this permit if it is found that the permittee submitted false or inaccurate information in its application or has violated any requirement, restrictions, or condition of this permit, or if there is any change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge. The Secretary shall impose conditions as the Secretary deems necessary for regulating the discharges of a permittee whose permit has been revoked, modified or suspended. Revocation shall be effective upon actual notice thereof to the permittee.

3. **Operating Fees:** This discharge is subject to operating fees under 3 V.S.A. §2822. The permittee shall submit the operating fees to the Agency in accordance with procedures provided by the Secretary.

4. Recording in Land Records: The permittee shall record a one-page notice of issuance of this discharge permit in the local land records within fourteen (14) days of issuance of this permit on the form provided by the Secretary, per §22-312 of the Stormwater Management Rule for Stormwater-Impaired Waters. A copy of this form is available on the Stormwater Management Program website. The permittee shall provide a copy of the recording to the Stormwater Management Program within fourteen (14) days of the permittee's receipt of the copy of the recording from the local land records.
5. Transfer of Permit: This permit is not transferable without prior written approval of the Secretary. Provided all applicable fees under 3 V.S.A. §2822 have been paid, a permittee may submit a notice of transfer to the Stormwater Management Program. The notice shall be submitted at least five (5) days prior to the proposed date of transfer. The notice shall state that the prospective permittee has adequate funding to comply with this permit. The permittee shall provide a copy of this permit to the new owner or tenant and inform him of the responsibility to make application for a permit which shall be issued in his name. Any failure to do so shall be considered a violation of this permit.
6. Right of Entry: The permittee shall allow the Secretary, or his or her authorized representatives, at reasonable times, upon presentation of credentials, to enter upon and inspect the permitted premises, and the stormwater collection, treatment and control system; and to sample any discharge to determine compliance with this permit; and to have access to and inspect and copy any records required to be kept pursuant to this permit.
7. Receiving Waters: Unnamed tributary to Indian Brook.
8. Manner of Discharge:
 - S/N 001: Stormwater runoff from driveways and rooftops on Lots #1-6 via sheet flow, grass channels and enclosed pipes routed to Dry Detention Basins discharging to an unnamed tributary to Indian Brook. The Environmental Sensitive Rural Development Credit has been applied to Lot 1-6.
 - S/N 002: Stormwater runoff from driveways and rooftops on Lots #7 & 8 via sheet flow, grass channels and enclosed pipes routed to Dry Detention Basins discharging to an unnamed tributary to Indian Brook. The Environmental Sensitive Rural Development Credit has been applied to Lot 7 & 8.
9. Wastes Permitted: Stormwater runoff from the above named areas of the project permitted herein after treatment as specified in the manner of discharge.
10. Volumes Permitted and Frequency of Discharge: Such volumes and frequency as required by the discharge specified in #8 above.
11. Approved Project Design: This project shall be constructed and operated in accordance with the following site plans, details and supporting information prepared by Lamoureux & Dickinson Consulting Engineers, (Sheet 01, "Overall Site Plan," dated 07/01/2015, last revised 10/16/2015; Sheet 05, "Driveway Profile & Typical Details & Specifications," dated 07/01/2015, last revised 12/09/2015; Sheet 08, "Typical Details & Specifications, Erosion Prevention & Sediment Control," dated 07/01/2015; Sheet ST-1, "Stormwater

Overall Site," dated 10/16/2015, last revised 2/7/2017; Sheet ST-2, "Stormwater Detailed Points of Interest LOTS 1-5," dated 10/16/2015, last revised 1/24/2017; Sheet ST-3, "Stormwater Detailed Points of Interest LOTS 6-8," dated 10/16/2015, last revised 1/24/2017) and all supporting information.

By reference herein, the above material is made a part of this permit.

12. Inspection and Maintenance Reporting Requirements:

- a. The stormwater collection, treatment and control system, and shall be maintained in good operating condition at all times and **shall be inspected annually and cleaned as necessary to maintain design specifications. The inspections shall be conducted between the conclusion of spring snow melt and June 15th of each year.**
- b. Any sediment removed from the stormwater collection, treatment and control system shall be disposed of properly in accordance with state and federal statutes and regulations.
- c. **By July 15 of each year the permittee shall submit an annual inspection report to the Secretary; or by July 30 of each year if performed by a utility or municipality pursuant to a duly adopted stormwater management ordinance. Annual Inspection Reports shall be submitted to:**

DEC- Watershed Management Division
Stormwater Program
1 National Life Drive, Main 2
Montpelier, Vermont 05620-3522

Or by email to anr.wsmdstormwatergeneral@state.vt.us

This report shall include, at a minimum items c.i. through c.vii. below. The permittee(s) may utilize the Annual Inspection Report form available from the Stormwater Program if determined by inspector to be sufficient to fully document inspection and maintenance of the authorized system.

- i. Unless previously submitted by the permittee(s) under a previously issued authorization or discharge permit, the first report shall include an inspection and designer's certification that the project was built in compliance with the Approved Project Design per #11 above;
- ii. A description of any vegetated areas that require mowing or other maintenance;
- iii. A description of any catch basins that require maintenance or sediment removed from sumps;
- iv. A description of any illicit discharges to the system (illicit discharges would include dumping of oil, gas, detergent, vehicle wash water, etc.) and corrective action/preventative measures taken if applicable;
- v. A description of any re-routing of stormwater to avoid the system;

- vi. A description of any erosion noted during inspection (i.e. areas of exposed soil in channels, outlets, or on pond berms);
 - vii. A description of any cleaning, maintenance operations, or repairs needed to maintain design specifications, including a schedule for correction of any identified deficiencies;
 - d. Should any erosion problems occur; the permittee is required to immediately correct any such problems.
 - e. Any basins, grass channels, or related stormwater devices used during construction for erosion control shall be inspected and cleaned to design specifications immediately after construction has been completed.
13. Description of Required Offset and Offset Projects: In order to meet the statutory standard for new discharges set forth in 10 V.S.A. §1264 and the Stormwater Management Rule for Stormwater-Impaired Waters, the permittee is required to offset **50** pounds of sediment per year associated with permittee's proposed stormwater discharge. The Secretary hereby assigns the permittee an offset charge of **50** pounds of sediment per year from Offset Project Permit No. 5715-INDO.R issued to the Town of Essex for the Colbert Street Stormwater Treatment System – Phase I, which discharges to Indian Brook.
14. Margin of Safety: The Secretary has determined that an appropriate margin of safety was applied in evaluating and approving the above named offset project.
15. Secretary's Determination: The Secretary has determined that this project meets the requirements of the Agency's 2002 Stormwater Management Manual and does not increase the sediment or hydrologic load of the receiving stormwater-impaired waters. The Secretary has determined that the proposed discharge will not reduce the quality of the receiving waters below the classification established for them.
16. Implementation of Offset: The offset project(s) specified in the Description of Required Offset paragraph of this permit shall be complete prior to the initiation of the permitted discharges.
17. Personnel and Training Requirements: Such personnel and training as necessary to fulfill the requirements of Inspection and Maintenance Reporting above.
18. Monitoring and Reporting Requirement: No monitoring required; reporting requirement as specified in Inspection and Maintenance Reporting above.
19. Other Requirements:
- a. Treated stormwater runoff is the only waste authorized for disposal under the terms and conditions of this permit. The discharge of any hazardous materials or hazardous waste into the stormwater management system is prohibited.
 - b. The issuance of this permit does not relieve the permittee from the responsibility to obtain any other local, state or federal permits required by law.
20. Compliance with Anti-degradation and Water Quality Standards: The Secretary has determined that the permitted discharges satisfy Vermont's Anti-degradation Policy provided in Section 1-

03 of the Vermont Water Quality Standards and the Department of Environmental Conservation's Interim Anti-degradation Implementation Procedure because the applicant has demonstrated how the proposed development will implement practices and offset projects as necessary to ensure water quality is maintained in receiving waters. In particular, the applicant has demonstrated how the proposed development will implement appropriate best management practices (BMPs) designed in accordance with the requirements of the Vermont Stormwater Management Manual, Volume I and as necessary offset projects in accordance with Chapter 22: Stormwater Management Rule for Stormwater-Impaired Waters. These BMPs and offset projects where necessary will manage and mitigate the proposed stormwater discharge from the project such that no lowering of water quality is expected to occur in the receiving waters.

21. All Other Projects – Right to Appeal to Environmental Court:

Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available online at www.vermontjudiciary.org or call (802) 951-1740. The address for the Environmental Court is 32 Cherry Street, 2nd Floor Suite 303 Burlington, Vermont 05401.

Dated this 22nd day of March, 2017

Emily Boedecker, Commissioner
Department of Environmental Conservation

By Padraic Monks
Padraic Monks, Program Manager
Watershed Management Division

**NOTICE OF ISSUANCE OF STORMWATER DISCHARGE PERMIT
BY THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

Notice is hereby given that an individual stormwater discharge permit or an authorization to discharge pursuant to a general stormwater discharge permit has been issued by the Vermont Department of Environmental Conservation to Permittee(s) named herein for the discharge of stormwater runoff from impervious surfaces (e.g. roadways, rooftops, parking lots, walkways) pursuant to 10 V.S.A. Section 1264 for the property identified below. The permit/authorization requires treatment and control of stormwater runoff, long-term maintenance of the treatment and control structures and payment of yearly operational fees.

Permittee(s): **Indian Brook Properties, LLP & Indian Brook Homeowner's Association Inc.**

Permit/Authorization Number: **7475-INDS**

911 Address of Property: **61 Indian Brook Rd, Essex**

Name of condominium, subdivision or planned community association (if applicable):
Indian Brook Properties

Signature of Permittee or Authorized Representative: 

Printed Name of Permittee or Authorized Representative: Stephen A. Unsworth

Date of Signature: 03/22/2017

Recording information: Municipal clerks - please index this document listing the State of Vermont, Department of Environmental Conservation as "Grantee". Please index this document listing the above named Permittee(s) as "Grantor(s)". Additionally, if this notice lists the name of a condominium, subdivision or planned community association, please list the named association as an additional "Grantor".

Please mail this stamped/recorded/completed form to:

**DEC – Watershed Management Division
Stormwater Management Program
1 National Life Drive, Main 2
Montpelier, VT 05620-3522**

Or email to: anr.wsmdstormwatergeneral@vermont.gov

Essex Vermont Town Clerk's Office
March 23, 2017 at
10 o'clock 00 minutes A M
Received for record and recorded in
book 973 on page 764-769
of Essex Land records
Attest: Lenny Willingham, Asst.
Town Clerk

TOWN OF ESSEX, VERMONT
APPLICATION FOR CURB CUT / UTILITY PERMIT

Pursuant to Title 19 V.S.A. Section 43. Application for curb cut and Utility Installation in Town Right-of-Way

All applications for curb cuts and utility installations shall be submitted to the Director of Public Works / Town Engineer for review. Applicants shall submit the information requested on this form and any additional information requested by the Director of Public Works / Town Engineer for a clear understanding of this application. The permit is issued under authority of the Town Manager in accordance with Section 601 of the Town Charter and 24 V.S.A. paragraph 1236 (2).

Application No. _____ / _____
Date

Property Address: 5 Indian Brook Rd

Owner Address: 27 Hillside Drive Williston

Owner Name: Sean Santerre

Phone Number: (home) see cell (work) 802 861-8615 (cell) 802 338-6118

Tax Map # 0 1 0 Tax Parcel 0 5 7 Tax Lot 2 0 1

Application is for: (check one)

A) New Curb Cut B) Utility Installation: Overhead Underground

Please use attached diagram to describe location and type of installation.

Comments be Director of Public Works / Town Engineer:

Culvert : Yes No

Water Bar(s) : Yes No

Culvert Diameter: (18 Inch minimum) 18"

Total length of Culvert: (30 foot minimum) 30'

*** FOR OFFICE USE ONLY ***

Signature of Owner:

Sean Santerre

Sean Santerre

Fee Paid \$ _____

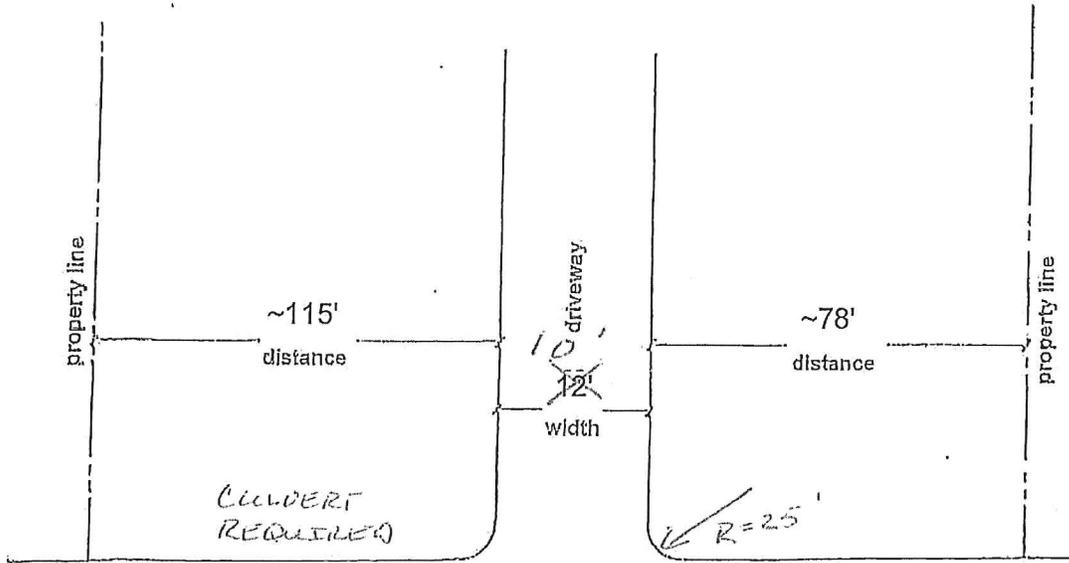
Approved Rejected

[Signature] 2-26-18
Per Authority of the Town Manager by the
Director of Public Works / Town Engineer

* SEE CONDITIONS ON BACK.

1. Culvert must be HIGH DENSITY POLYETHYLENE (HDPE) PIPE
2. Culvert will be purchased by the Applicant
Culvert will be purchased and installed by the applicant. The Town of Essex Department of Public Works will inspect.
- 3.

Note: A MINIMUM OF 24 HOURS NOTICE IS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION. WITHIN 24 HOURS OF COMPLETION, THE APPLICANT IS REQUIRED TO NOTIFY THE DIRECTOR OF PUBLIC WORKS / TOWN ENGINEER FOR INSPECTION PURPOSES.



#5 Indian Brook Rd

STREET NAME

Comments and / or special instructions from Director of Public Works / Town Engineer :

" DRIVE WIDTH IS TO BE LIMITED TO 10 FT.

" APRON RADIUS TO BE 25'

" CULVERT IS REQUIRED

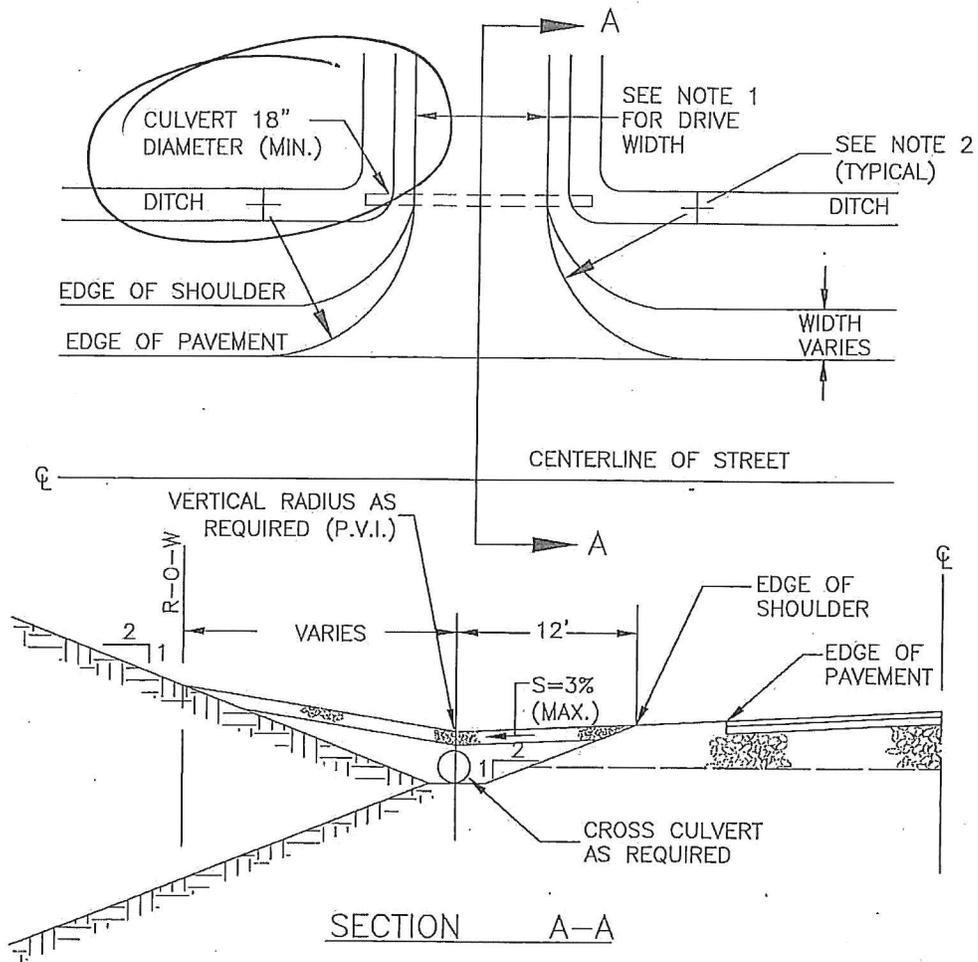
SEE ATTACHED "RURAL DRIVEWAY" DETAIL

FOR GRADING REQUIREMENTS & ADDITIONAL

DETAILS.

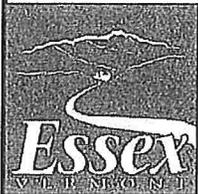
DGC 1/27/2018

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NOTES :

- 1) DRIVE WIDTHS SHALL BE AS FOLLOWS
 - SINGLE DRIVE: 10 FEET (MIN.)
 - DOUBLE DRIVE: 15 FEET (MAX.)
 - COMMERCIAL DRIVE: 40 FEET (MAX.)
- 2) EDGE OF PAVEMENT RADII
 - MAJOR / COLLECTOR ROAD: 30 FEET
 - MINOR ROAD / DEAD END: 25 FEET
 - COMMERCIAL / INDUSTRIAL: 30 FEET (MIN.)
- 3) MAXIMUM DRIVE GRADE SHALL BE 3% FROM PVI TO EDGE OF SHOULDER



TOWN OF ESSEX
PUBLIC WORKS
81 MAIN STREET
ESSEX JCT., VT
05452
P: 802 978-1344
F: 802 978-1355
E: www.essex.org

TOWN OF ESSEX, VERMONT
STANDARD SPECIFICATIONS FOR CONSTRUCTION

RURAL DRIVEWAY

Detail No: 100.09
Scale: NOT TO SCALE
Date: JAN. 2017

A-9

attach to old permit p/2

TOWN OF ESSEX, VERMONT APPLICATION FOR CURB CUT / UTILITY PERMIT

Pursuant to Title 19 V.S.A. Section 43. Application for curb cut and Utility Installation in Town Right-of-Way

All applications for curb cuts and utility installations shall be submitted to the Director of Public Works / Town Engineer for review. Applicants shall submit the information requested on this form and any additional information requested by the Director of Public Works / Town Engineer for a clear understanding of this application. The permit is issued under authority of the Town Manager in accordance with Section 601 of the Town Charter and 24 V.S.A. paragraph 1236 (2).

Application No. _____ / _____
Date

Property Address: 5 Indian Brook Rd

Owner Address: 27 Hillside Dr Williston VT

Owner Name: Sean Santerre

Phone Number: (home) _____ (work) _____ (cell) (802) 338-6118

Tax Map # _____ Tax Parcel _____ Tax Lot _____

Application is for: (check one)

A) New Curb Cut B) Utility Installation: Overhead Underground

Please use attached diagram to describe location and type of installation.

Comments be Director of Public Works / Town Engineer:

Culvert : Yes No Water Bar(s) : Yes No

Culvert Diameter: (18 inch minimum) _____ Total length of Culvert: (30 foot minimum) _____

*** FOR OFFICE USE ONLY ***

Signature of Owner: _____

Fee Paid \$ _____

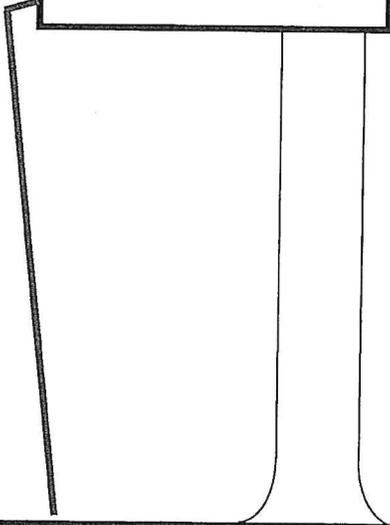
*Approved Rejected

Donald Zygaris 5/1/18
Per Authority of the Town Manager by the
Director of Public Works / Town Engineer

1. Culvert must be HIGH DENSITY POLYETHYLENE (HDPE) PIPE
2. Culvert will be purchased by the Applicant
3. Culvert will be purchased and installed by the applicant. The Town of Essex Department of Public Works will inspect.

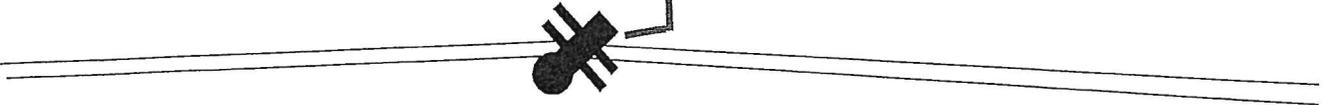
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** AS CONDITIONED, SEE ATTACHED.*



#5

INDIAN BROOK ROAD



To: Sean Santerre

From: Dan Gregoire, Staff Engineer, Town of Essex Public Works

cc: Aaron Martin, P.E., Utilities Director, Town of Essex Public Works

Date: 5/1/2018

Re: Underground Utility Service at #5 Indian Brook Road

Traffic Control Requirements:

The Contractor will maintain one way traffic, controlled by flaggers, maintaining the standards set forth by the latest edition of the Manual on Uniform Traffic Control Devices. A Temporary Traffic Control Plan will be required and be made available on site during the utility service installation.

As it will be necessary, due to the limited width of Indian Brook Road, to construct a temporary traffic lane on the North side of Indian Brook Road, a temporary culvert will be necessary if the utility crossing installation is to take more than one day or if it is raining on the day of the installation.

Installation Depth:

Town of Essex Standard Detail No 100.04, attached, requires that conduit be buried at a depth of at least 30 inches below the bottom of the roadside ditch.

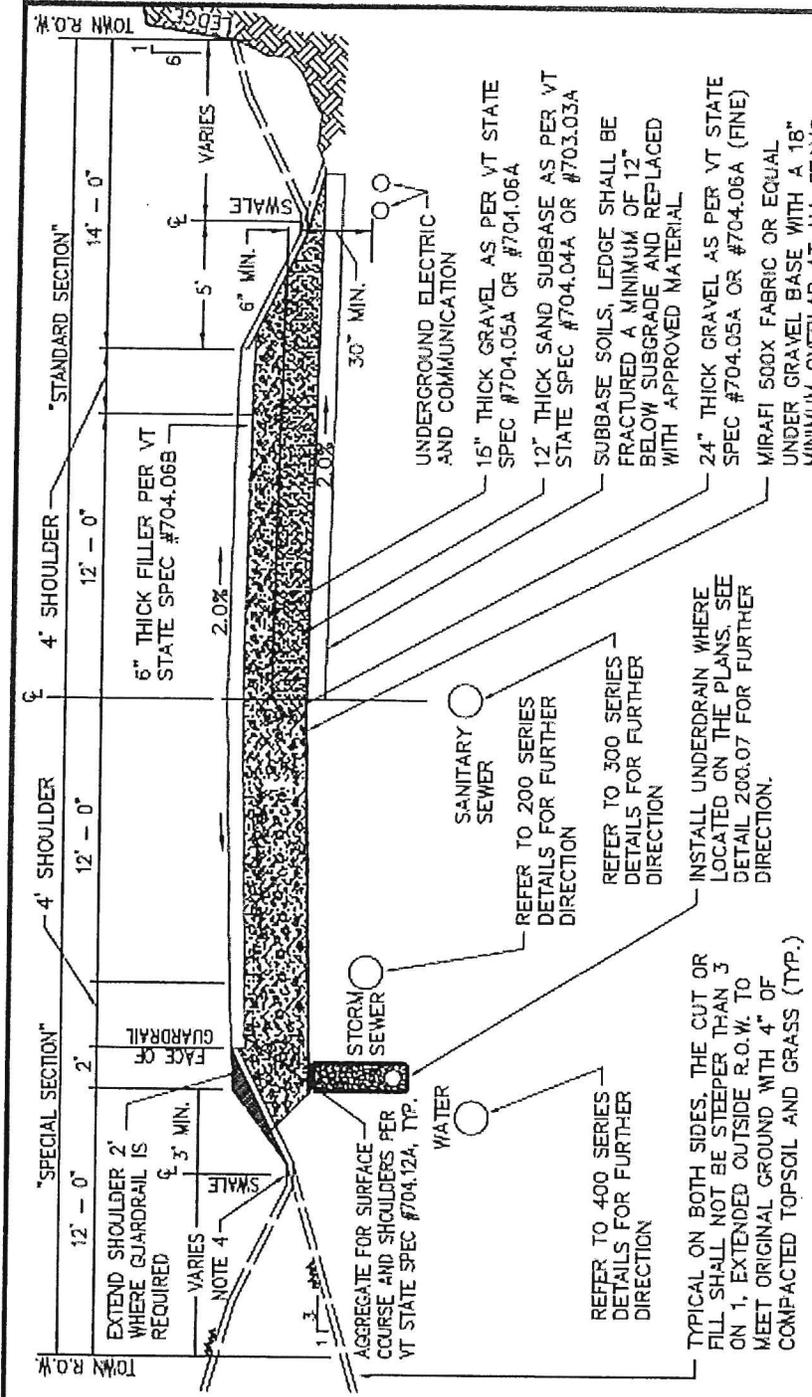
Backfill Material:

The Department of Public Works requires the Contractor to salvage and reuse existing subgrade material for backfill above any pipe bedding required by the utility company standards to maintain consistency in the roadway system and to prevent water from the ditch line from migrating into and saturating the utility trench cross section.

Public works also requires that existing excavated road subbase material be saved and reused in backfill operations to maintain consistency in the roadway system. New material may only be used if the quantity of salvaged existing subbase material is not sufficient to complete backfill operations. New material installed must meet the VTrans Material Specification for 704.06B.

Utility piping:

The Contractor is to follow material standards required by the Utility (Green Mountain Power) for all conduit and or utility sleeves. If a utility sleeve is used, the Town requires that the sleeve on the ditch line side of the road be extended such that the end of the sleeve is beyond the ditch line such that any future access to the sleeve may be made without disturbing the ditch line.



- NOTES:
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN PUBLIC WORKS REQUIREMENTS, THE VERMONT STATE STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND THE APPROVED ENGINEERING PLANS AND SPECIFICATIONS.
 2. SOIL BORINGS AND TEST PITS SHALL BE REQUIRED BY THE TOWN TO DETERMINE WHETHER THE STANDARD OR SPECIAL CROSS-SECTION SHALL BE USED.
 3. THE STANDARD SECTION MAY BE USED WHEN THE SUBGRADE SOILS TO A DEPTH OF 36" BELOW FINISH GRADE ARE SOIL CLASSIFICATION A-1-a OR A-1-b.
 4. REFER TO DETAIL 200.05 FOR SPECIFIC INFORMATION REGARDING DRAINAGE SWALE CONSTRUCTION. WHERE THE ROADWAY GRADE EXCEEDS 5.0%, DRAINAGE DITCHES SHALL BE STONE LINED.
 5. THE ROAD FINISH GRADE SHALL HAVE A MINIMUM SLOPE OF 0.5 %.
 6. GUARD RAIL SHALL BE USED WHEN THE HEIGHT OF FILL AT THE SHOULDER POINT IS GREATER THAN 10 VERTICAL FEET.
 7. SHALLOW DITCHES MAY BE INSTALLED WHEN A CLOSED DRAINAGE SYSTEM WITH UNDERDRAINS ARE USED.



TOWN OF ESSEX
PUBLIC WORKS
51 MAIN STREET
ESSEX JCT., VT
05433
P: 802 878-1344
F: 802 878-1388
E: www.essex.org

TOWN OF ESSEX, VERMONT
STANDARD SPECIFICATIONS FOR CONSTRUCTION

TYPE B RURAL ROAD
(GRAVEL)

Detail No:	100.04
Scale:	NOT TO SCALE
Date:	JAN. 2017
A-4	