



FY17 Vermont Better Roads Grant Application

Please complete this page ONCE and return with your Grant Category Application(s)

Town/Organization: Bristol Contact Person(s): Pam Correia

Address: One South Street, P. O. Box 249, Bristol, VT 05443

Email: bristoladmin@gmavt.net Phone: (802) 453 - 2410

DUNS #: 805663796 Fiscal Year End Month (MM): 6

Accounting System: Automated Manual Combination

Please use the suggested documentation checklist below to ensure that all of the relevant items regarding your application have been included.

- Grant application cover sheet (Only submit one)
- Grant application form (One per category/project)
- Itemized Cost estimate for labor, equipment, and materials (see enclosed Cost Estimate Worksheet). If applicable, please break down funding by source (i.e. different grant sources)
- Project Location Map (please show location of affected water)
- Sketch of proposed erosion control measures or other management practices, including distances in feet
 - Also show approximate location of town/other right-of-way and/or property lines
- Photo(s) of the project area
- Letters of Support (RPC, VTTrans District Technical Staff, ANR Rivers and Streams Engineers, etc.)
- If Category C River/Road Conflict or Category D River/Stream Structure or Culvert, you must attach ANR/ACOE consultation

Vermont Better Roads Grant Program Application

Please complete one application per category and/or project you are applying for. You may make copies of the application for multiple applications per category and/or multiple categories.

Please check the Category you are applying for:

- B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation Retrofit for both gravel and paved roads
- C. Correction of a Stream Bank or Slope Related Problem
- D. Structure/culvert upgrades

Town/Organization: Town of Bristol

Project Name: Upper Notch Slope Stabilization

Road Name: Upper Notch Road TH #: 8 Structure # (if applicable): _____

Road Type: Unpaved Uncurbed
Class 3

Watershed: Bristol Notch Brook

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion):

There is a 50+/- foot high bank, 150 foot wide, that erodes and causes sediment to go into the Notch Brook. It also creates rock and mudslides that go onto the Upper Notch Road creating a travel hazard.

Description of Project and how you plan to complete the work (ex. Stone line 500' of ditch by reshaping

ditch and stone lining, working from the top of the project down to the bottom):

Stabilize bank by installing jute matting, stone, cement blocks, topsoil, and hydro seed 20 feet up the bank. We will use conservation seed mix. 50 feet up the 3 foot ditch lined bank, we will install erosion control blankets. A 4 foot wide ditch with greater than a five percent slope will be stone lined. We will install a stone apron near the culvert. Elephant trunk piping will be added under all of the ditch line including the ditch line that is at the top of the concrete blocks as well as the ditch line that follows the sides.

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch):

This project will lead to a significant reduction in sediment going into the Notch Brook. The Notch Brook is home to Brook Trout that thrive in a rocky bottom with no silt. It will also remove a traffic hazard on a bus route, by removing the periodic rock slides.



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 50-250'



Progress to Date:

Select tree cutting has been done.

Is there an emergency reason this project must be completed quickly? If yes, please explain:

Has this project been identified through a municipal road inventory, capital budget plan, tactical basin plan, culvert inventory, or other management plan? If yes, please list which.

Yes: Municipal Road Inventory & Capital Budget Plan (set aside for matching grant last 5-6 years)

No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTrans District Technical staff, Basin Planner etc.):

Ashley Bishop, AOT Technician III, District #5
Randy Snelling, AOT Technician VI, District #5

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).

Both, the project is located in the Town right-of-way and it also borders a private land owner so an easement will be needed. The Agreement for Entry and/or the Deed of Easement will not be completed until a determination has been made to award the grant to the Town.

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).

They will provide some of the work and provide some material and hauling to the site.



Describe how the grant funds will be spent and/or attach a project budget:

See attached Cost Estimate Worksheet

How do you plan to meet the required 20% match on this grant?:

In-Kind and Capital Funds

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 40,000.00

Estimated Total Project Cost (including 20% local match): \$ 48,960.45

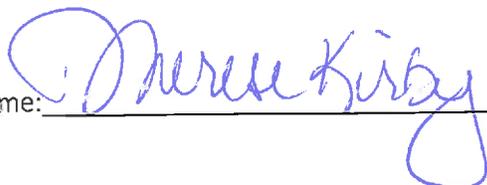
Estimated Completion Date: 10/31/2017

REQUIRED ATTACHMENTS:

- Itemized Cost Estimate (labor, equipment, materials)
(For assistance, call Better Backroads at 802-828-4585)
- Project Location Map
(Please show location of affected water; 1:12,000 USGS map, if possible)
- Sketch of proposed erosion control measures, including:
 - Distances (ft.)
 - Estimate of waste & borrow quantities
 - Approx. location of town/other right-of-way and/or property lines
- Photo(s) of the project area.
- Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer.
- Other appropriate supporting documents.

By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

Name: 

Title: Town Administrator

Ashley Bishop
AOT Technician III
District #5
(802) 363-1182
ashley.bishop@vermont.gov
March 25, 2016

To whom it may concern:

I am a technician out of District 5 for the Agency of Transportation, and I am writing to express my concern for water quality and safety due to a slope issue on Notch Road in Bristol, Vermont. I have been told the town has applied for a better road grant for this location the last 5 years, and have yet to be awarded one.

This slope is contributing large amounts of sediment into the adjacent New Haven River that is a contributor to the Otter Creek which sections are already an impaired waterway. In my opinion the amount of sediment that is running into the New Haven River is having a detrimental impact on the water quality of the river which directly impacts the aquatic species. Along with contributing issues to the quality of water; this slope failure is a safety concern, and is an excessive maintenance expense the town pays for. Material from the slide frequently finds itself on the road; impacting the west bound travel lane of the road. When this two lane road with many incline/ decline areas and corners is reduced to one lane traffic; safety is an immediate issue.

This slope need immediate attention. The town needs the funds to place a permanent repair on this slide to protect and enhance Vermont's streams, as well as to protect the traveling public. District 5 fully supports their request for the Better Roads Grant.

Thank you for taking the time to read this letter. If you have any questions regarding this slope issue please don't hesitate to call.

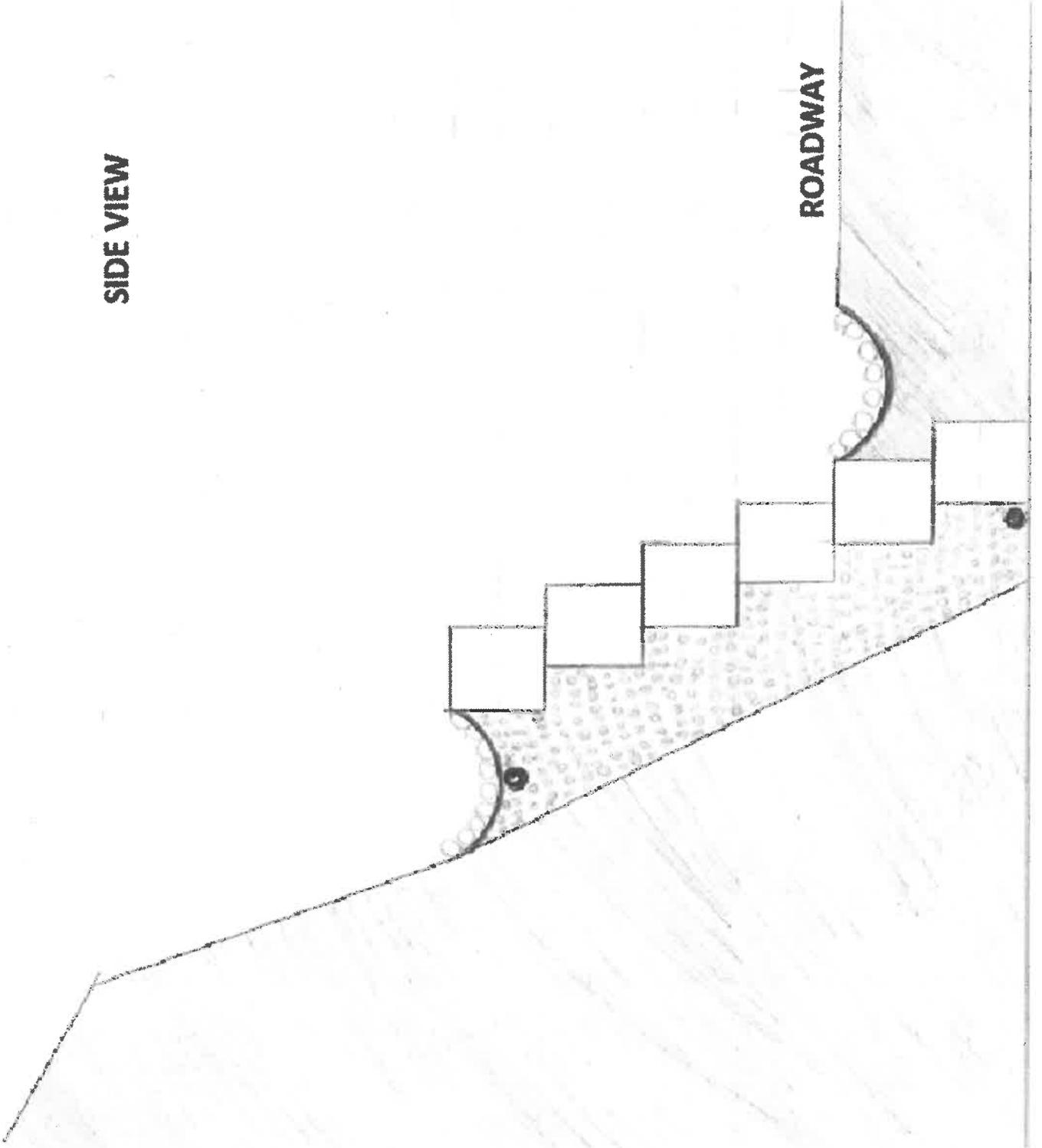
Sincerely,

Handwritten signature of Ashley Bishop in cursive script.

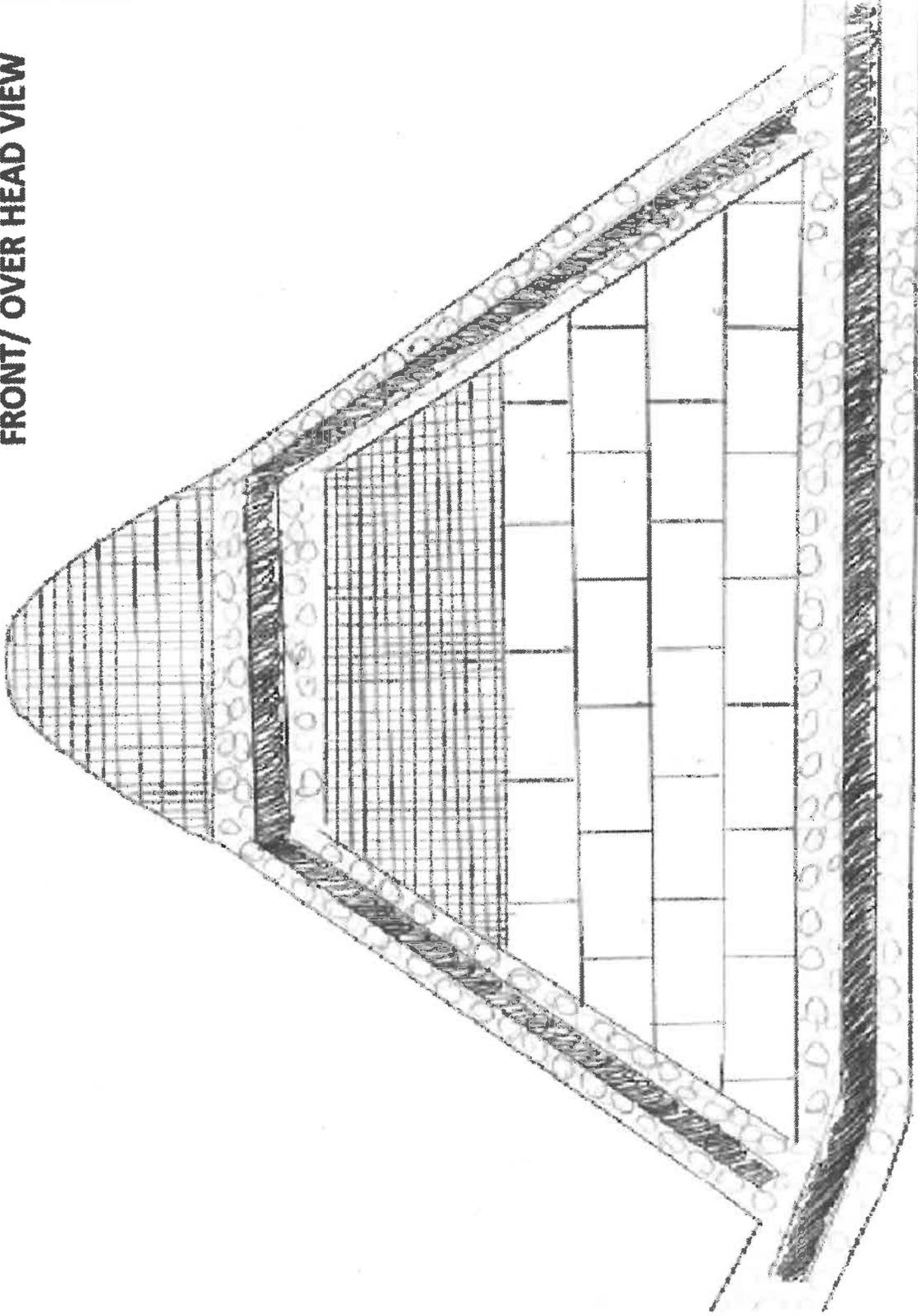
Ashley Bishop

SIDE VIEW

ROADWAY

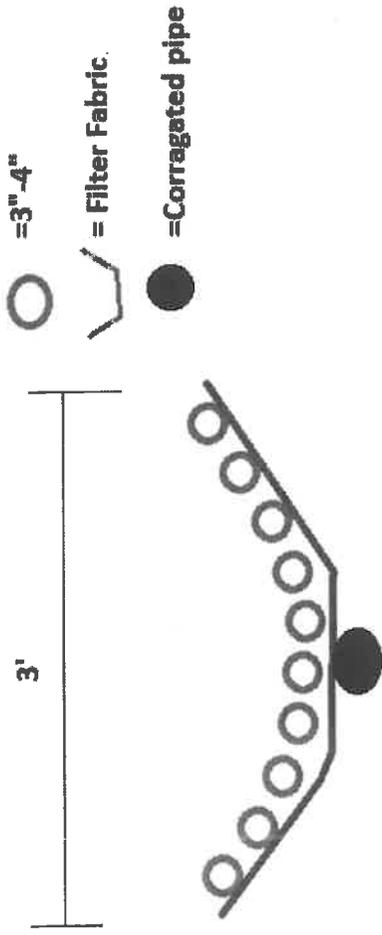


FRONT/ OVER HEAD VIEW

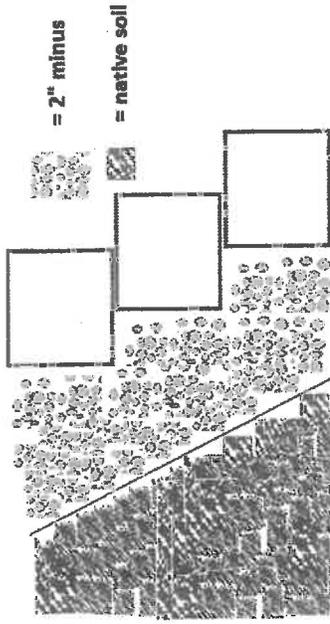


ROADWAY

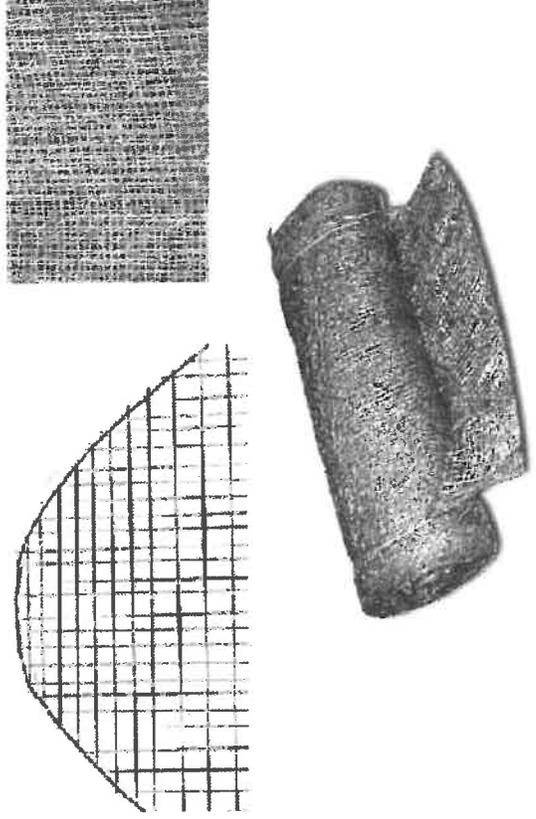
Detail A- Ditch Line



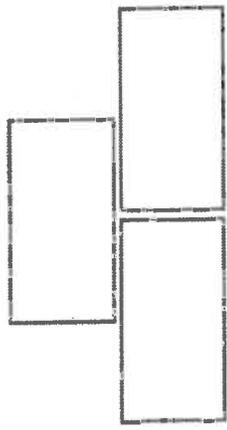
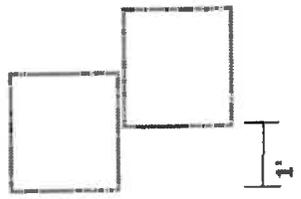
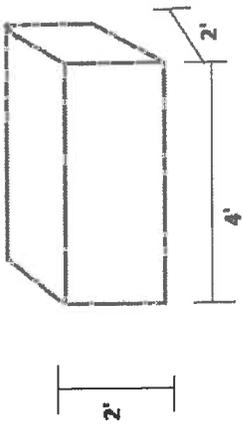
Detail B- Existing Soil



Detail C- Concrete Blocks

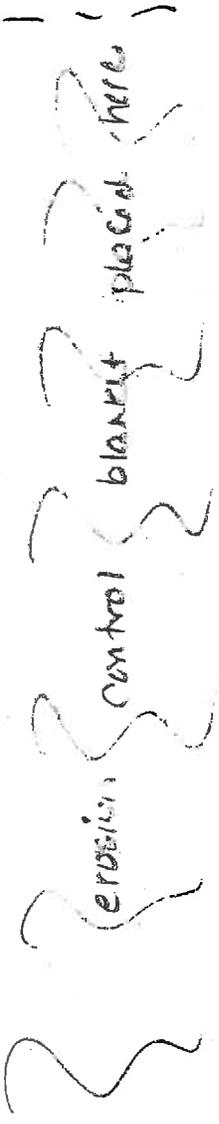


Detail D- Jute Matting



Cut trees at top of bank to prevent further erosion

* Four riprap db
way to 20' from
center of road.*



21' to 35' install erosion control blanket

up 20' install jute matting, straw, topsoil and hydro seed with conservation mix

150' road frontage

rip rap

Dirt Road

slope greater than 5% stone 2" x 4" here!

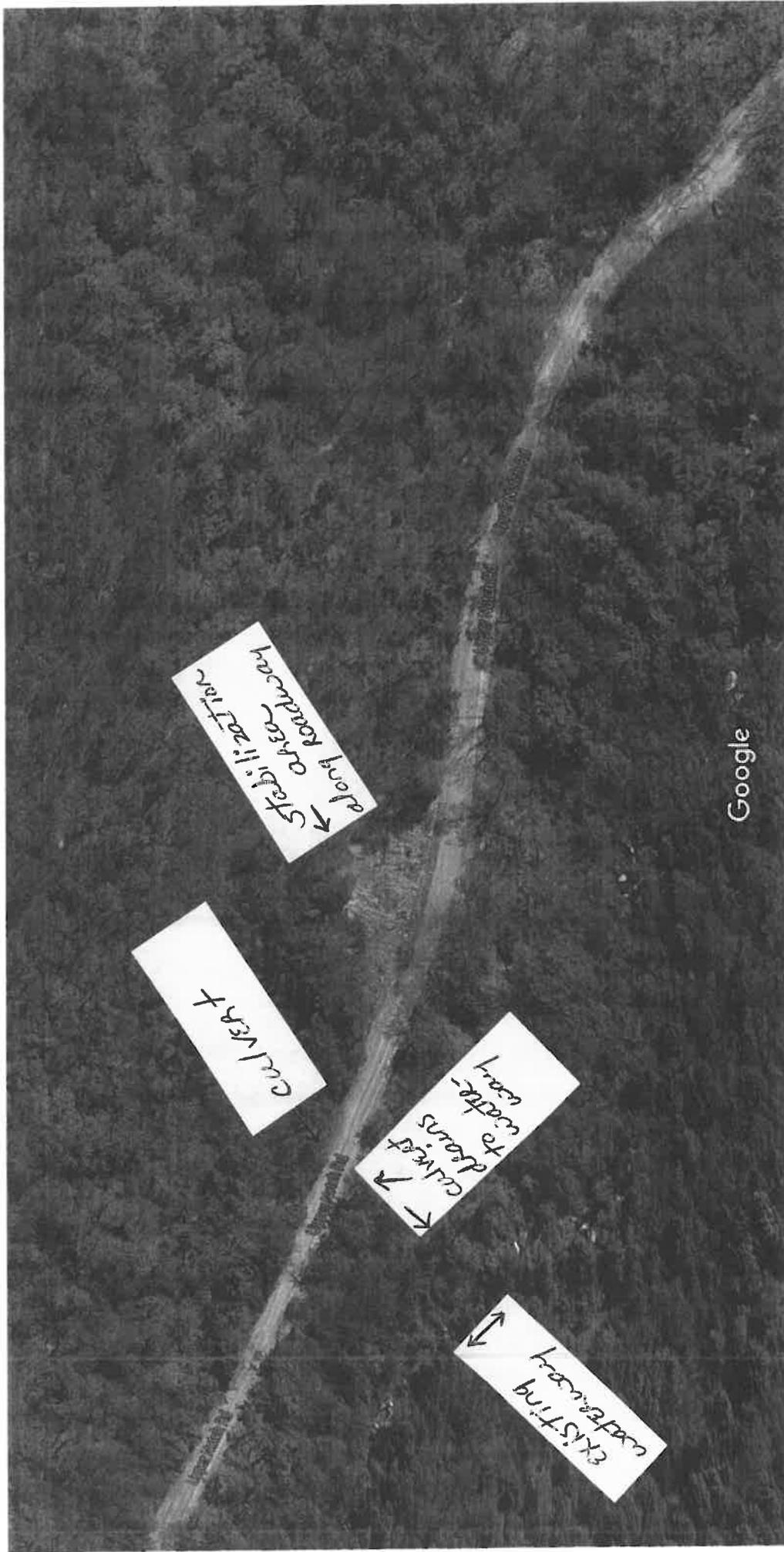
Upper Notch Road

100' (41')

CULVERT TO BROOK

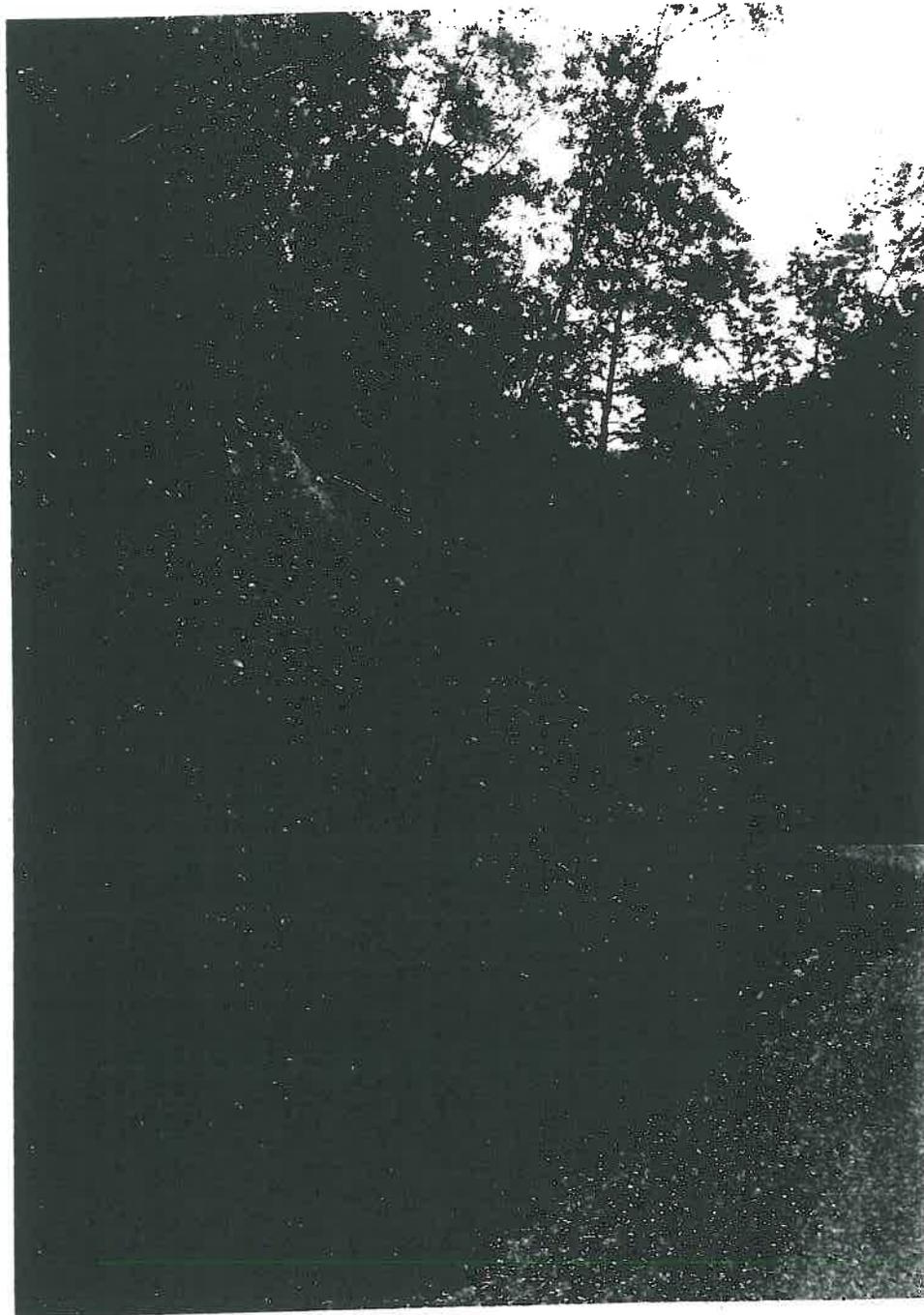
← NOTCH BROOK →

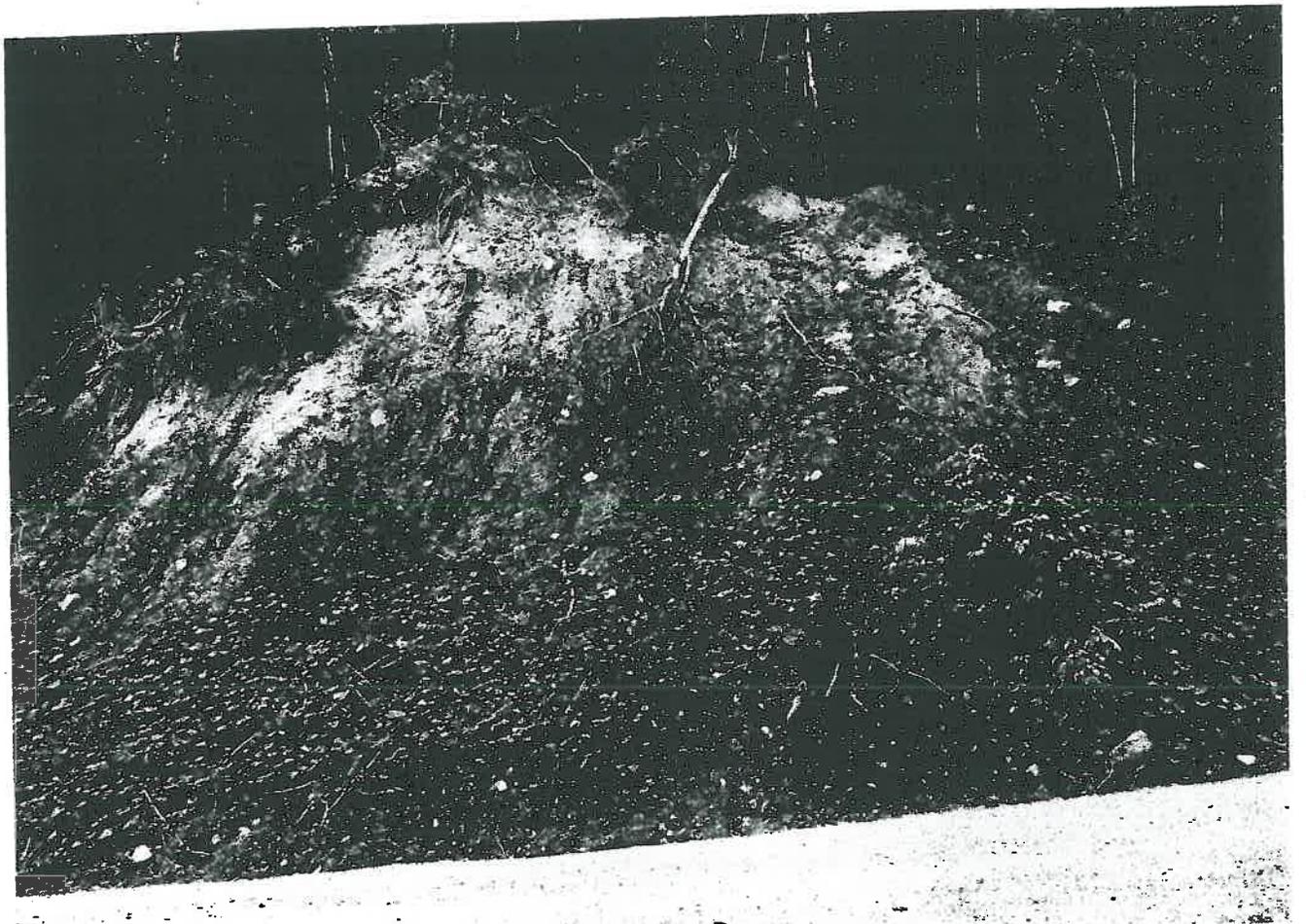
Google Maps 844 Upper Notch Rd



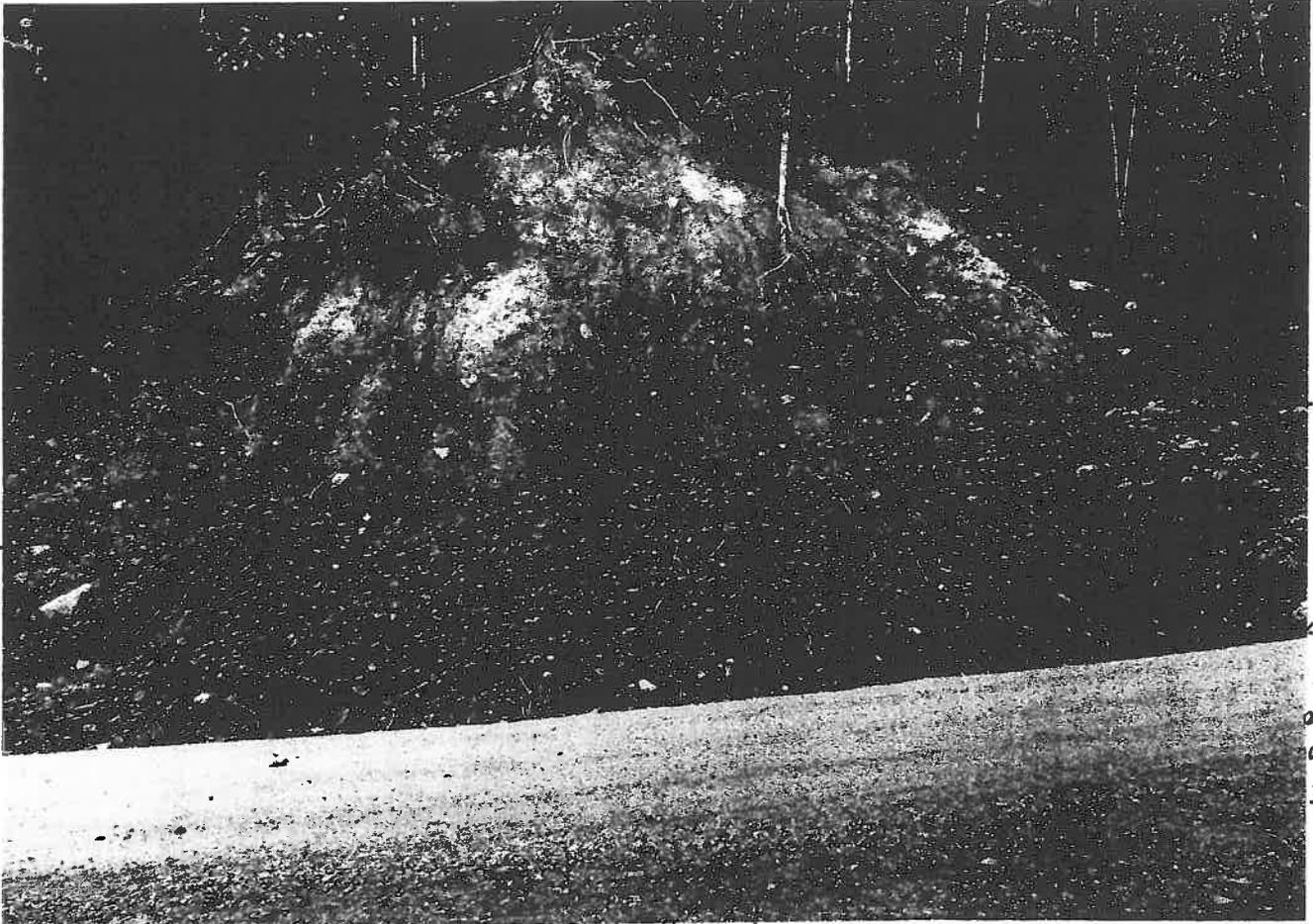
Google Maps

Imagery ©2016 Google, Map data ©2016 Google 50 ft





Bank
approx.
35'+
high



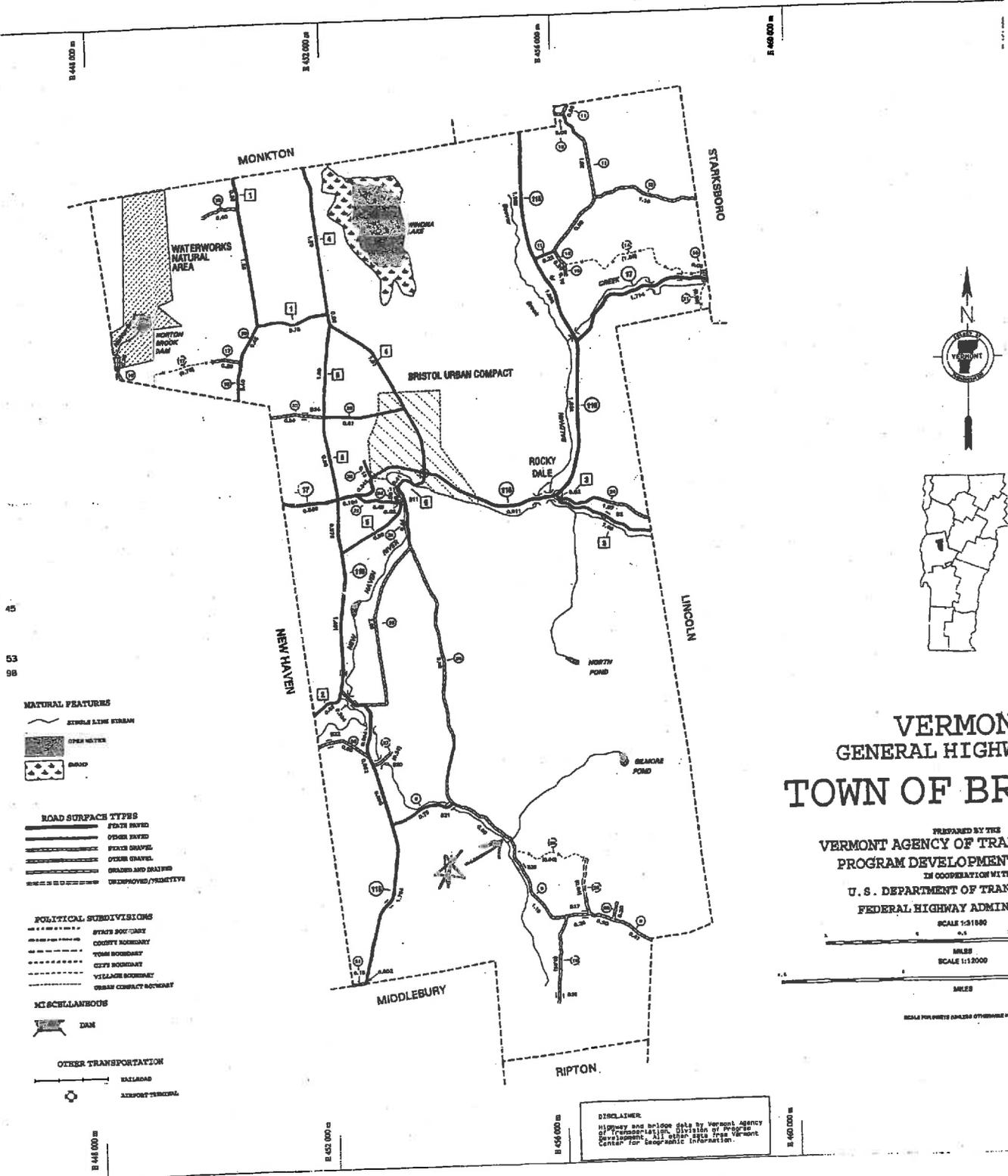
approx
extent
of
Town
R.O.W

Area
for
stone +
fabric

new
stone
for
drainage
approx
3' deep
by
6' wide

approx 150' along road frontage

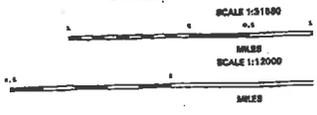




- NATURAL FEATURES**
- STREAM LINE STREAM
 - OPEN WATER
 - SAND
- ROAD SURFACE TYPES**
- FIFTH STREET
 - OTHER STREET
 - STATE STREET
 - OTHER GRAVEL
 - GRAVEL AND GRAVEL
 - UNIMPROVED/PRIMITIVE
- POLITICAL SUBDIVISIONS**
- STATE BOUNDARY
 - COUNTY BOUNDARY
 - TOWN BOUNDARY
 - CITY BOUNDARY
 - VILLAGE BOUNDARY
 - URBAN COMPACT BOUNDARY
- MISCELLANEOUS**
- DAM
- OTHER TRANSPORTATION**
- RAILROAD
 - AIRPORT TERMINAL

VERMONT GENERAL HIGHWAY PROGRAM DEVELOPMENT TOWN OF BRISTOL

PREPARED BY THE
VERMONT AGENCY OF TRANSPORTATION
PROGRAM DEVELOPMENT
IN COOPERATION WITH
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



SCALE FOR QUOTE UNQUOTE OTHERWISE UNQUOTE

DISCLAIMER:
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