



**TOWN OF KILLINGLY
INLAND WETLANDS AND WATERCOURSES COMMISSION**

Monday, July 10, 2023

**Special Meeting – Site Walk
6:00 PM**

**Meeting at
39 Shippee Schoolhouse Road
Killingly, CT 06239**

AGENDA

- I. CALL TO ORDER**
- II. ROLL CALL**
- III. SITE WALK:**

A. Application 23-1567 of Dan St. Laurent for construction of a single-family home with associated grading, septic, and well; within the 200' upland review area; 39 Shippee Schoolhouse Road; Map ID 9420, Alt ID 208-4, Rural Development Zone.

IV. ADJOURNMENT

Regular Meeting to Follow at 7:00 PM. Located at the Killingly Town Hall, Second Floor, Town Meeting Room, 172 Main Street, Killingly, CT 06239

RECEIVED
TOWN OF KILLINGLY, CT
2023 JUL -7 AM 10:49
Eloise L. Smith, Chairman



**TOWN OF KILLINGLY
INLAND WETLANDS AND WATERCOURSES COMMISSION**

Monday, July 10, 2023

Special Meeting – Hybrid

7:00 PM

Second Floor – Town Meeting Room

Killingly Town Hall

172 Main Street

Killingly, CT

AGENDA

The public can also view this meeting on Facebook Live.

Go to www.killinglyct.gov and click on Facebook Live at the bottom of the page

RECEIVED
TOWN CLERK KILLINGLY, CT
2023 JUL -7 AM 10:49
Elyse@killinglyct.gov

- I. **CALL TO ORDER**
- II. **ROLL CALL**
- III. **ADOPTION OF MINUTES** – (Review/Discussion/Action)
 - A. June 6, 2023, Regular Meeting
- IV. **CITIZENS' PARTICIPATION** – Public comment can be emailed to publiccomment@killinglyct.gov or mailed to Town of Killingly, 172 Main Street, Killingly, CT 06239 on or before the meeting. All public comment received prior to the meeting will be posted on the Town's website www.killinglyct.gov.
- V. **Unfinished Business:** – (Review/Discussion/Action)
 - A. **Application 23-1567 of Dan St. Laurent** for construction of a single-family home with associated grading, septic, and well; within the 200' upland review area; 39 Shippee Schoolhouse Road; Map ID 9420, Alt ID 208-4, Rural Development Zone.
- VI. **New Business:** (listed in order of receipt) – (Review/Discussion/Action)
 - A. **Application 23-1568 of Dubois Forestry** for jurisdictional ruling; notification of timber harvest (29,020 board ft), including forest road maintenance/hardening; 75 Bear Hill Road; Map ID 9988, Alt ID 120-16.1, Rural Development / Low Density Zones.

If the application is complete the Commission shall decide if a public hearing and/or site walk should be held on each application and continue further action until next month's meeting. The Commission may also delegate to its duly authorized agent.
- VII. **Correspondence to the Commission**
- VIII. **Staff Report**
 - A. Authorized Agent Applications
 - B. Monthly Zoning/Wetlands Report
 - C. Other
- IX. **Town Council Liaison**
- X. **Adjournment**

TOWN OF KILLINGLY
INLAND WETLANDS AND WATERCOURSES COMMISSION (IWWC)
Killingly Town Hall
172 Main Street
Killingly CT
MINUTES
Regular Meeting
Monday, June 5, 2023

RECEIVED
TOWN CLERK KILLINGLY, CT

2023 JUN 13 PM 3:11

Elizabeth M. Wilson

- I. Call to Order: Chairperson Eggers called the meeting to order at 7:00 p.m.
- II. Roll Call: **Members Present:** Paul Archer, Chairman Sandy Eggers, Vice Chairman Rodney Galton, Secretary Corina Torrey, Chris McDonald. **Also Present:** Jonathan Blake, Town Planner/Zoning Enforcement Officer

- III. Adoption of Minutes: May 1, 2023:

MOTION #1 made by Rodney Galton **SECONDED BY** Corina Torrey that the Inland Wetlands and Watercourses Commission table May 1, 2023 Meeting Minutes - to the next scheduled meeting

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

- IV. Citizens' Participation: none

- V. Unfinished Business:

- A. **Application #23-1557**, American Retaining Walls LLC, for construction of single-family home with associated grading, septic, well and multiple wetlands crossings; 210 Snake Meadow Road; Map ID 9627, Alt ID 246-2 & 246-11; Rural Development Zone

PRESENTATION / APPLICANT: Norman Thibeault, Killingly Engineering Associates, was present to represent applicant. After review of most recent Killingly Engineering Department Staff Report - the following took place: (1) documents requested have been submitted; (2) watershed analysis/bridge design submitted; (3) drainage calculations for all three crossing/pipes/designed for 10-year storm event submitted; (4) CT DOT permit approval submitted, (5) modifications of wood guiderail changed to metal beam to meet DOT requirements/design submitted; (6) easement access associated to site line approval submitted, (7) hot mix - not millings - will be used for driveway pavement area; and (8) silt fence/check dams requirement to be adhered to.

MOTION #2 made by Rodney Galton **SECONDED BY** Corina Torrey that the Inland Wetlands and Watercourses Commission approve **Application #23-1557**, American Retaining Walls LLC, for construction of single-family home with associated grading, septic, well and multiple wetlands crossings; 210 Snake Meadow Road; Map ID 9627, Alt ID 246-2 & 247-11, Rural Development Zone; - with the following conditions:

1. Crossings 2nd and 3rd to consist of (4) 12" pipes
2. Remove clearing limit references on site plans
3. Re-flag wetlands in areas of activity - prior to construction

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

VI. New Business:**A. Application #23-1567, Dan St. Laurent: Construct single-family home:**

PRESENTATION / APPLICANT: Norman Thibeault, Killingly Engineering Associates, was present to represent the applicant. He noted (1) proposed activity was previously approved by subdivision in 1988; (2) septic system design is within 200 feet of regulated area; (3) property is vacant and was cleared by previous owner; and (4) design includes relocation of driveway.

MOTION #3 made by Rodney Galton **SECONDED BY** Paul Archer, that the Inland Wetland and Watercourses Commission receive **Application #23-1567, Dan St. Laurent** for construction of single-family home with associated grading, septic, well within 200' of upland review area; 39 Shippee Schoolhouse Road; Map ID 9420, Alt ID 208-4; Rural Development Zone; no public hearing; **with site walk scheduled July 10, 2023, 6:00pm**

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

VII. Correspondence to the Commission: None.**VIII. Staff Report: Authorized Agent Applications:****a. Application #23-1563, Jurisdictional Ruling; Mark & Cathy Dumas: Construct 2-Story Home Addition:**

Jonathan Blake briefed the Commission: (1) Stockpile locations are to be discussed with possibility material may be moved off-site; (2) foundation is proposed; (3) NDDH approval obtained; (4) well location approved; (5) no excavation proposed other than sonotube footings (small disturbance); and (6) Building Official to review and may call for spread-footing/piers in place of sonotubes. If significant changes occur after Building Official/Town Staff review application will be brought back to IWWC for review.

MOTION #4 made by Rodney Galton **SECONDED BY** Corina Torrey that the Inland Wetland and Watercourses Commission modify **Application #23-1563, Jurisdictional Ruling; Mark & Cathy Dumas;** construction of a 14' X 20' addition (2 story – 2 bedroom) on piers, in 200' of upland review area; 52B Ware Toad Ext; Map ID 1707, Alt ID 40-21, MD Zone – **Approved with Conditions 6/1/23:**

1. Straw Waddle Bales be put in place as erosion control measure
2. Spread footings / piers to be installed

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

b. Application #23-1564, Jurisdictional Ruling; Joseph Boisvert: Construct garage:

Jonathan Blake briefed the Commission: (1) applicant cleared trees / no stumping; (2) Staff required silt fence at edge of construction; (3) Staff required stockpile location or removal from site; (3) potential for large amount of rock-ledge in area.

MOTION #5 made by Paul Archer **SECONDED BY** Rodney Galton that the Inland Wetland and Watercourses Commission affirms **Application #23-1564, Jurisdictional Ruling; Joseph Boisvert** construction of a 26' X 40' detached 3-car garage; in 200' upland review area; 24 Sunset Drive; Map ID 57, Alt ID 175-17, LD Zone; **Approved with Conditions 6/1/23.**

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

c. **Application #23-1565, Jurisdictional Ruling; Darren Chase: Construct House:**

Jonathan Blake briefed the Commission: (1) there was previous IWWC approval; (2) Town Staff imposed numerous conditions at crossing; (3) pipes in driveway to be completed; (4) driveway does not have to be paved due to slope/ratio per regulations.

MOTION #6 made by Rodney Galton **SECONDED BY** Paul Archer that the Inland Wetland and Watercourses Commission affirm **Application #23-1565, Jurisdictional Ruling; Darren Chase**, for construction of single-family home with associated septic, well, and driveway, in the 200' upland review area; 389 Cranberry Bog Road; Map ID 2930, Alt ID 193-4.1; RD Zone; **Approved with Conditions 6/1/23**

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

d. **Application #23-1566, Jurisdictional Ruling;**

Paul Archer – recused himself from this application.

MOTION #7 made by Chris McDonald **SECONDED BY** Rodney Galton that the Inland Wetland and Watercourses Commission affirm **Application #23-1566, Jurisdictional Ruling; B. Shampany & Son**, for demolition of existing cottage & construction of new single-family house, 206 Oak Ridge Lane; Map ID 712203, Alt ID 87-4.001; ALZD-LD Zone; **Approved with Conditions 6/1/23.**

VOICE VOTE: 4:0:0

In favor: Chairman Sandy Eggers, Vice Chairman,
Rodney Galton, Chris McDonald,
Corina Torrey

MOTION CARRIED

a. Monthly Zoning / Wetlands Report: N/A

b. Other:

MOTION #8 made by Chris McDonald **SECONDED BY** Rodney Galton that the Inland Wetland and Watercourses Commission cancel the Regular July 3, 2023 Regular Meeting and Schedule a Special Meeting July 10, 2023

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

IX. Town Council Liaison:

Jason Anderson discussed the Town possibly selling 125 Alexander Parkway and the process that took place with presentations of FY 23-24 Town Proposed Budget and final Approved Budget.

X. Adjournment

MOTION #9 made by Rodney Galton **SECONDED BY** Paul Archer that the Inland Wetland and Watercourses Commission adjourn meeting at 8:15 pm

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

Respectfully submitted
Sherry Pollard
IWWC Recording Secretary

- 160
pd CK#1362
6/1/23 GG

Property within 500' of adjoining Town boundary? _____
If so, which town(s)? _____
Date the notice was sent by KIWWC to town clerk of adjoining municipality(ies) _____
Receipt date of copy of Applicants notice to adjoining municipality _____

Application #: 23-1567
Date Submitted: 6/1/23
Date of Receipt by Comm.: 6/5/2023
Fee: 160 -
Staff Initials: AB

KILLINGLY INLAND WETLANDS & WATERCOURSES COMMISSION APPLICATION

A \$100.00 base fee (or, for a proposed subdivision, \$100.00 per lot, whichever is greater) plus \$40.00 state fee must accompany each application **(Total fee: \$140.00)**. **THIS FEE IS NON-REFUNDABLE**. Checks or money orders should be made payable to the Town of Killingly. **Public hearing fee: \$225.00** required in addition to the above fees if a public hearing is required by the commission(s) and not already included.

TO BE COMPLETED BY THE APPLICANT - PLEASE PRINT

Applicant's Name: Dan St. Laurent
Day Phone #: 860-753-0731 Evening Phone #: _____
Mailing Address: 127 Valley Road Danvers, CT
Owner of Record: Matthew & Dan St. Laurent
Mailing Address: _____ Phone #: _____

Applicant's interest in the land if the applicant is not the property owner: _____

Authorization of property owner: _____

LOCATION OF PROPERTY:

House # and Street: 39 Snipee School House Road Killingly, CT
Tax Map Number: 2058 Block: _____ Lot: 4
Zoning District: RD Lot Size: 11.37 Acres Lot Frontage: _____
Easements and/or deed restrictions: No

PURPOSE:

Provide the purpose and description of the proposed activity, including a list of all proposed regulated activities.

Proposed construction of a single family home and construction of a driveway and septic system within 200' upland review area.

ON-SITE WETLANDS AND WATERCOURSES:

Windham County wetland soil types and areas of each type: See attached

Watercourse(s) – type (pond, stream, marsh, bog, drainage ditch, etc.), manmade or natural, and area of each:

Salisbury Brook

ALTERNATIVES:

List alternatives considered by the applicant and state why the proposal to alter wetlands as set forth in the application is necessary and was chosen:

N/A

MATERIALS:

Provide the volume (cubic yard) and nature of materials to be deposited and/or extracted:

There will be no materials deposited and/or extracted

MITIGATIVE MEASURES:

List measures to be taken to minimize or avoid any adverse impact on the regulated area:

Silt fence and haybales

BIOLOGICAL EVALUATION:

Describe the ecological communities and functions of the wetlands or watercourses involved with the application and the effects of the proposed regulated activities on these communities and wetland functions:

Forested wetlands taken from 1998 Subdivision map. Silt fence to remain in place until final vegetation stabilization to prevent impact.

SITE PLAN*:

Scale 1"=40' showing existing and proposed conditions in relation to wetlands and water courses to include, but not be limited to:

Contours

Buildings

Wells

Driveways

Septic Systems

Drainage Systems (Including Culverts, Footing and Curtain Drains)

Erosion and Sedimentation controls

Wetlands

Watercourses

Areas of Excavation and /or Material Deposit

**Refer to Section 6.0 – Application Information Requirements and Section 7.0 – Application Evaluation Criteria of the Killingly Inland Wetlands & Watercourses Commission Regulations for information the Commission may require. Professionally prepared plans (Licensed Land Surveyor/Professional Engineer registered in the State of Connecticut, Soil Scientist) may be required for significant activities.*

ADDITIONAL INFORMATION:

List additional information submitted by the applicant:

The applicant understands that this application is to be considered complete only when all information and documents required by the Commission have been submitted. The undersigned warrants the truth of all statements contained herein and in all supporting documents according to the best of his/her knowledge and belief. Permission is granted to the Town of Killingly, Killingly Inland Wetlands & Watercourses Commission, and its agent (s) to walk the land, at reasonable times, and perform those tests necessary to properly review the application, both before and after a final decision has been issued.

Applicant's Signature:  Date: 5-31-23
Owner of Record: Daniel St-Laurent Date: _____

LIST OF ADJACENT LAND OWNERS as of 5/24/2023 GIS

**Dan St. Laurent
39 Shippee School House Road
Killingly, CT**

Job No. 23055

MAP/BLOCK/LOT KILLINGLY	NAME
Map 208, Lot 3	JOSHUA E. MURPHY 31 SHIPPEE SCHOOL HOUSE RD KILLINGLY, CT 06239
Map 208, Lot 2	ALEXIS BATES, THOMAS A. BATES, & REBECCA L. BATES 17 SHIPPEE SCHOOL HOUSE RD KILLINGLY, CT 06239
Map 207, Lot 3	ADAM A. GRIFFITHS & EMILY WILL GRIFFITHS 98 GRIFFITHS RD KILLINGLY, CT 06239
Map 208, Lot 17	JASON COMTOIS & HEATHER J. COMTOIS 540 BRICKHOUSE EXT. KILLINGLY, CT 06241
Map 208, Lot 14	DANIEL J. MEUNIER & CYNTHIA D. MEUNIER 12 CHAMBERLAIN ST JOHNSTON, RI 02919
Map 208, Lot 12	ALICIA BIANCO 61 SHIPPEE SCHOOL HOUSE RD KILLINGLY, CT 06239
Map 208, Lot 5	PATRICIA L. COX & RICHARD S. COX 45 SHIPPEE SCHOOL HOUSE RD KILLINGLY, CT 06239



Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete this form in accordance with the instructions on pages 2 and 3 and mail to:

DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106

Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

PART I: Must Be Completed By The Inland Wetlands Agency

1. DATE ACTION WAS TAKEN: year: _____ month: _____
2. ACTION TAKEN (see instructions - one code only): _____
3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
(print name) _____ (signature) _____

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Killingly
does this project cross municipal boundaries (check one)? yes ☐ no ☐
if yes, list the other town(s) in which the activity is occurring (print name(s)): _____
6. LOCATION (see instructions for information): USGS quad name: East Killingly or number: 44
subregional drainage basin number: _____
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Don St. Laurent
8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 39 Shippee School House Road
briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☒ description: Proposed
Construction of a residential home
9. ACTIVITY PURPOSE CODE (see instructions - one code only): A
10. ACTIVITY TYPE CODE(S) (see instructions for codes): 1, 2, 12, 14
11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
wetlands: 0 acres open water body: 0 acres stream: 0 linear feet
12. UPLAND AREA ALTERED (must provide acres): _____ acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0 acres

DATE RECEIVED:

PART III: To Be Completed By The DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO



Killingly Engineering Associates

P.O. Box 421 Killingly, CT 06241
Phone: 860-779-7299
www.killinglyengineering.com

May 24, 2023

Proposed Construction of Residential Home

Dan St. Laurent
39 Shippee School House Road
Killingly, CT

Per Section 7.10 of the Regulations for the Protection and Preservation of Inland Wetland and Watercourses
The applicant certifies that:

- a. The property on which the regulated activity is proposed is not located within 500 feet of the boundary of an adjoining municipality;
- b. Traffic attributable to the completed project on the site will not use streets within an adjoining municipality to enter or exit the site;
- c. Sewer or water drainage from the project site will not flow through and impact the sewage or drainage system within an adjoining municipality;
- d. Water run-off from the improved site will not impact streets or other municipal or private property within an adjoining municipality.

Applicant

Date

 5-23-22



Killingly Engineering Associates

P.O. Box 421 Killingly, CT 06241
Phone: 860-779-7299
www.killinglyengineering.com

May 31, 2023

Certified Mail 7022 0410 0001 0944 2095

Mr. Michael Antonellis, Town Planner
Foster Town Hall Planning Department
181 Howard Hill Road
Foster, RI 02825

Dear Mr. Antonellis:

Killingly Engineering Associates has submitted an application to the Town of Killingly, CT Inland Wetlands Commission to construct a single-family home with activity within the 200' upland review area as defined by the town's wetlands regulations. The boundary of the subject property is located within 500' of the Foster, RI town line. In accordance with section 22a-42c of the Connecticut General Statutes we are providing notice of the activity.

The subject property is located at 39 Shippee Schoolhouse Road in the Town of Killingly, CT. The application is for a single-family residence.

I have provided a full sized copy of the plans for your review. If you have any further questions, please feel free to contact me at 860-779-7299.

Sincerely:

Normand Thibeault, Jr., P.E.



Killingly Engineering Associates

P.O. Box 421 Killingly, CT 06241
Phone: 860-779-7299
www.killinglyengineering.com

May 31, 2023

Certified Mail 7022 0410 0001 0944 2095

Mr. Michael Antonellis, Town Planner
Foster Town Hall Planning Department
181 Howard Hill Road
Foster, RI 02825

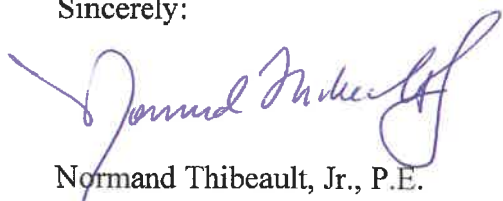
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I have provided a full sized copy of the plans for your review. If you have any further questions, please feel free to contact me at 860-779-7299.

Sincerely:


Normand Thibeault, Jr., P.E.

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com	
Foster, RI 02825	
Certified Mail Fee	\$4.15
Extra Services & Fees (check box, add fee if appropriate)	\$3.35
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$2.46
Total Postage and Fees	\$5.96
Sent To	Mr. Michael Antonellis, Town Planner
Street and	Foster Town Hall Planning Department
City, State	181 Howard Hill Road Foster, RI 02825
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7022 0410 0001 0944 2095

0241 11

Postmark Here

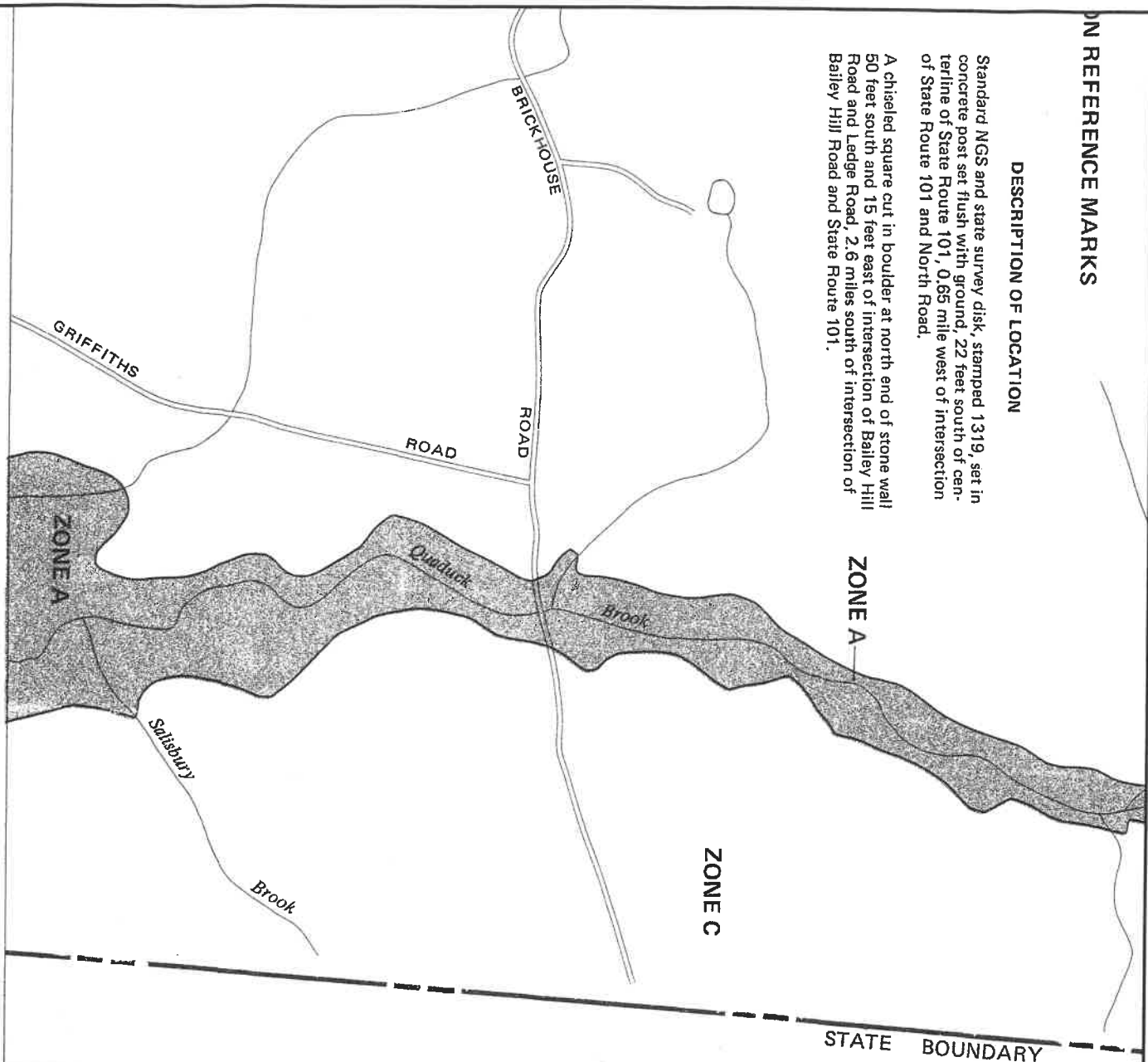
05/31/2023

ON REFERENCE MARKS

DESCRIPTION OF LOCATION

Standard NGS and state survey disk, stamped 1319, set in concrete post set flush with ground, 22 feet south of centerline of State Route 101, 0.65 mile west of intersection of State Route 101 and North Road.

A chiseled square cut in boulder at north end of stone wall 50 feet south and 15 feet east of intersection of Bailey Hill Road and Lodge Road, 2.6 miles south of intersection of Bailey Hill Road and State Route 101.



rogram, at (800) 638-6620.



APPROXIMATE SCALE
800 0 800 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

TOWN OF
KILLINGLY,
CONNECTICUT
WINDHAM COUNTY

PANEL 20 OF 30

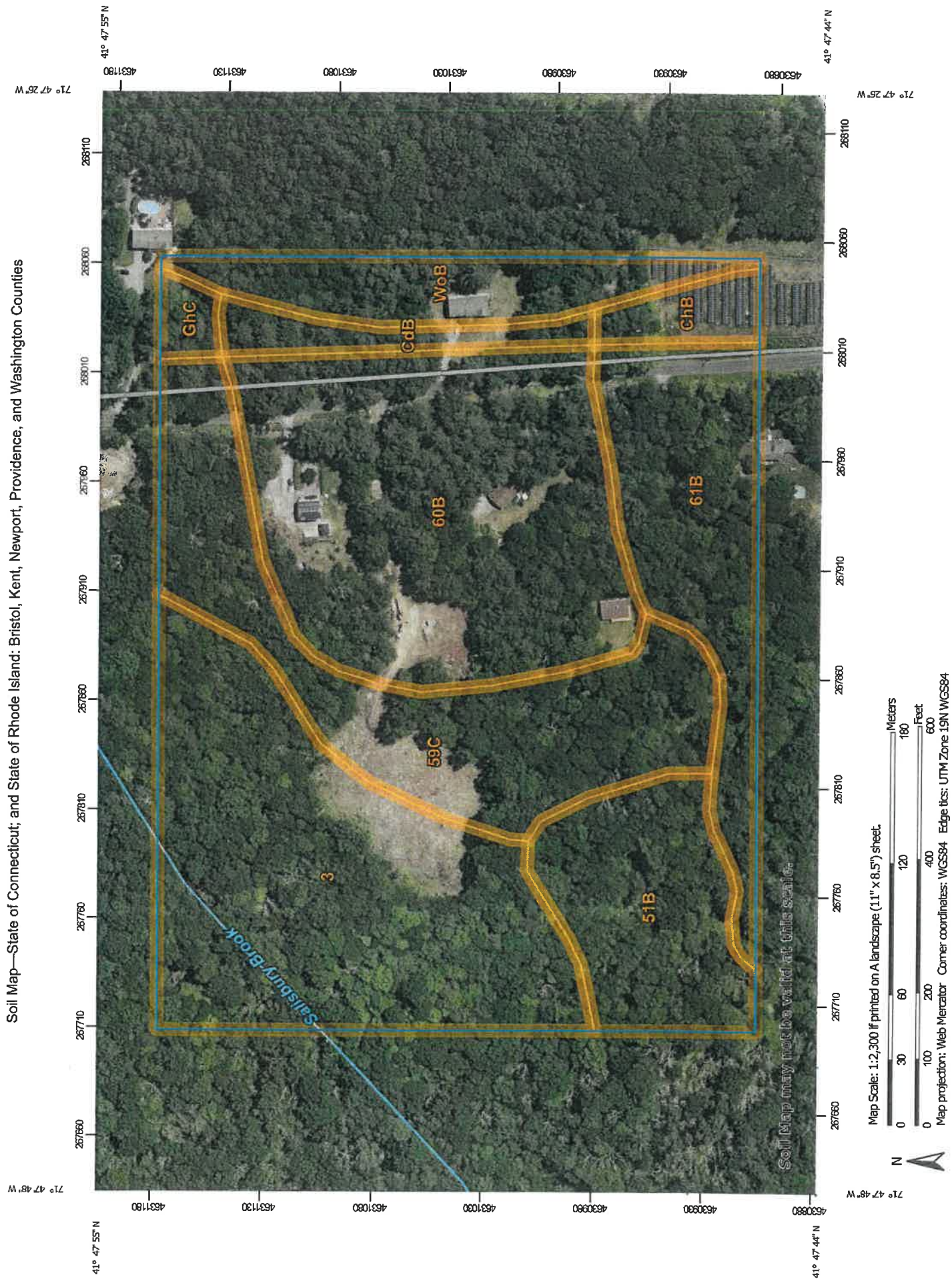
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY PANEL NUMBER
090136 0020 B
EFFECTIVE DATE:
JANUARY 3, 1985



Federal Emergency Management Agency

This is an official FIRMap showing a portion of the above-referenced flood map created from the MSC FIRMap Web tool. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For additional information about how to make sure the map is current, please see the Flood Hazard Mapping Updates Overview Fact Sheet available on the FEMA Flood Map Service Center home page at <https://msc.fema.gov>.



Map Scale: 1:2,300 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)		Area of Interest (AOI)	
Soils		Soil Map Unit Polygons	
		Soil Map Unit Lines	
		Soil Map Unit Points	
Special Point Features		Water Features	
		Streams and Canals	
		Transportation	
		Rails	
		Interstate Highways	
		US Routes	
		Major Roads	
		Local Roads	
		Background	
		Aerial Photography	
			
			
			
			
			
			
			

MAP LEGEND

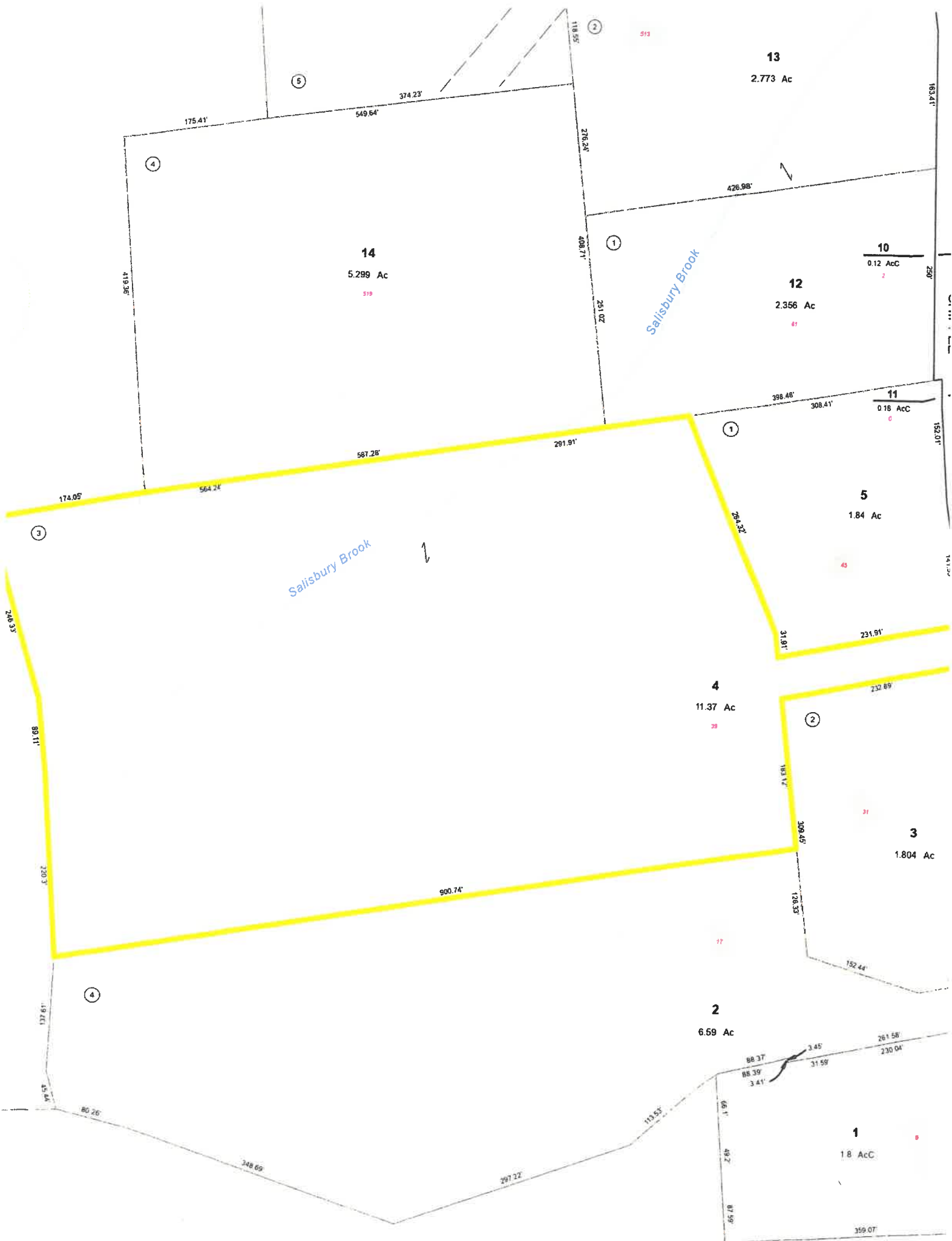
MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	6.0	25.0%
51B	Sutton fine sandy loam, 0 to 8 percent slopes, very stony	2.2	9.3%
59C	Gloucester gravelly sandy loam, 3 to 15 percent slopes, extremely stony	4.1	17.2%
60B	Canton and Charlton fine sandy loams, 3 to 8 percent slopes	6.0	25.2%
61B	Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	2.7	11.5%
Subtotals for Soil Survey Area		21.1	88.1%
Totals for Area of Interest		23.9	100.0%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CdB	Canton and Charlton fine sandy loams, 3 to 8 percent slopes	0.6	2.6%
ChB	Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	0.5	2.0%
GhC	Gloucester-Hinckley complex, 3 to 15 percent slopes, very stony	0.2	1.0%
WoB	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	1.5	6.3%
Subtotals for Soil Survey Area		2.8	11.9%
Totals for Area of Interest		23.9	100.0%



Killingly Engineering Associates

Civil Engineering & Surveying



Engineering – Surveying – Site Planning
P.O. Box 421
Dayville, CT 06241

Telephone (860) 779-3703
Fax (860) 774-3703

SEPTIC SYSTEM NITROGEN RENOVATION ANALYSIS

Client: **Dan St Laurent**
Project: **Shippee Schoolhouse Road**
Proj. No: **23055**

Prepared By: **NET**
Checked By:

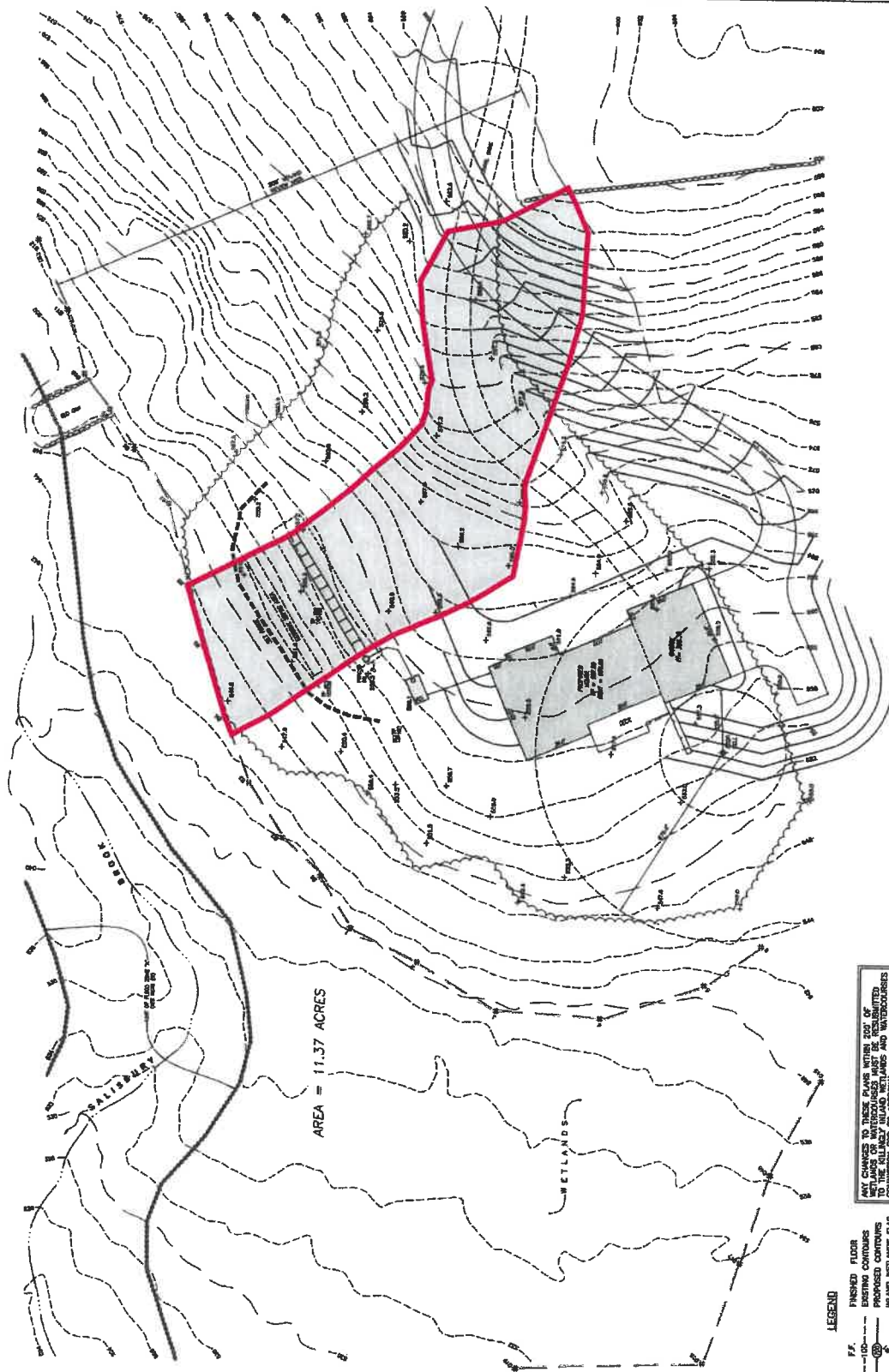
Date: **5/30/2023**
Date:

# bedrooms	4		(Each bedroom contributes 150 gpd)
nitrogen concentration in raw wastewater	40	mg/l	(Typical household wastewater = 40 mg/l)
pretreatment nitrogen removal	40	%	(Typical removal in septic tank = 40%)
Average daily precipitation	0.012	ft/ft ²	(CT average precipitation = 0.012 ft/ft ² /day) (52 inches per year)
Dilution drainage area	13,540	ft ²	(Only areas on the subject property should be included in the drainage area)
Average runoff coefficient	0.2		
Diluted nitrogen concentration	9.2	mg/l	(Drinking water standard is 10 mg/l, max.)

Analysis methodology is taken from "Seepage and Pollutant Revonvation Analysis for Land Treatment Sewage Disposal Systems, CT DEP, Revised 1997"



Normand Thibault
5/30/2023

[illegible]

GENERAL LOCATION SURVEY
DRAINAGE AREA PLAN
PREPARED FOR

DAN ST. LAURENT

20 SHIPPER SCHOOL, HOUSE ROAD
KILLBUCK, CONNECTICUT

Kilgus Engineering Associates
Civil Engineering & Surveying

114 Walnut Road
P.O. Box 474
Newark, Connecticut 06101
(203) 799-1299

DATE: 5/1/2003	ISSUING: 1008
SCALE: 1" = 20'	DESIGN: NET
SHEET: 1 OF 1	CITY: 1000-00

ANY CHANGES TO THESE PLANS WITHIN 200' OF WETLANDS OR WATERCOURSES MUST BE RESUBMITTED TO THE KILLDEENY INLAND WETLANDS AND WATERCOURSES COMMISSION FOR ITS APPROVAL.

THE APPLICANT WILL CONTACT THE KILLINGSBY INLAND WETLANDS AND WATERCOURSES COMMISSION'S AGENT AFTER ALL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED, PRIOR TO ANY CONSTRUCTION OR EXCAVATION ON THE PROPERTY.

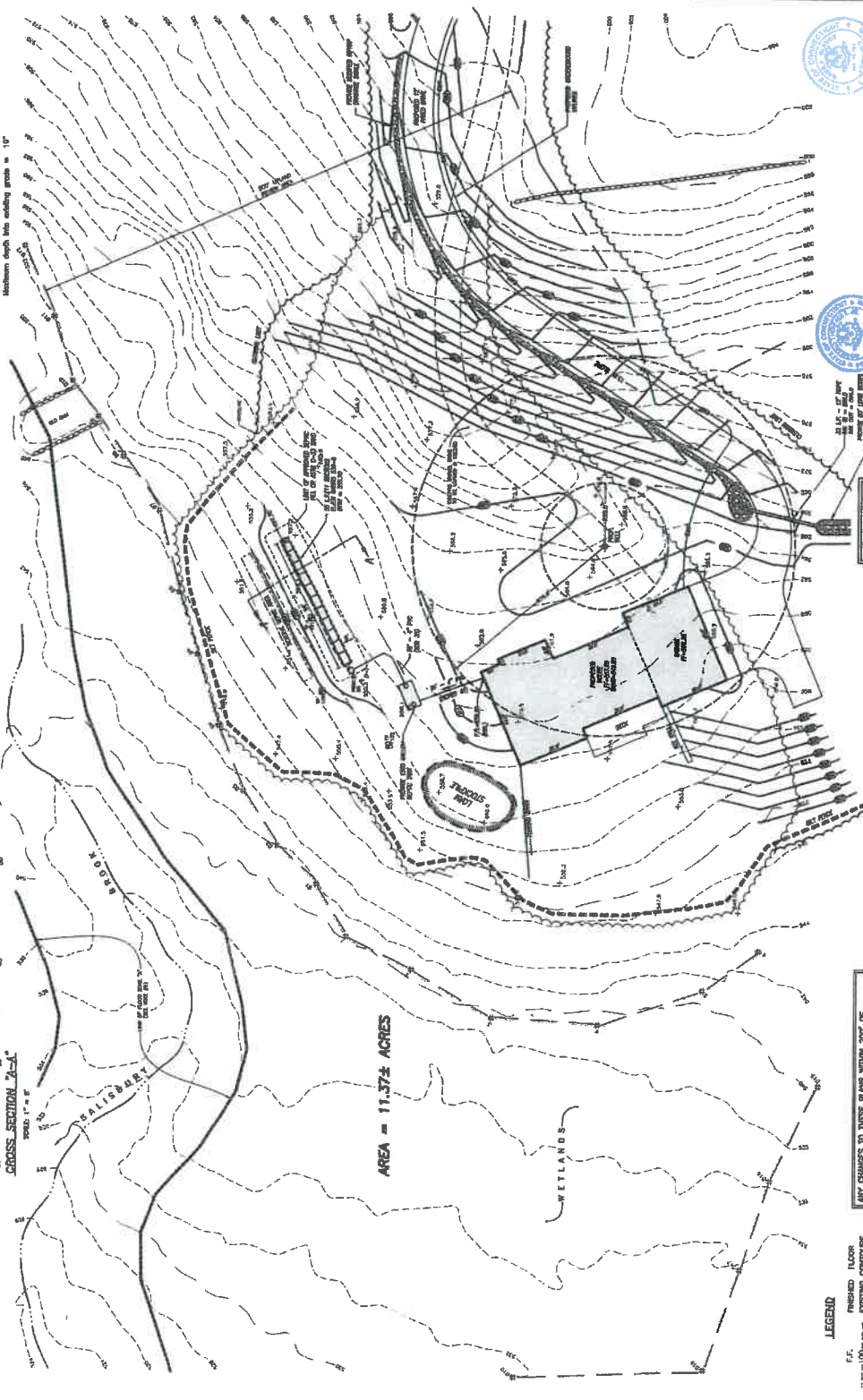
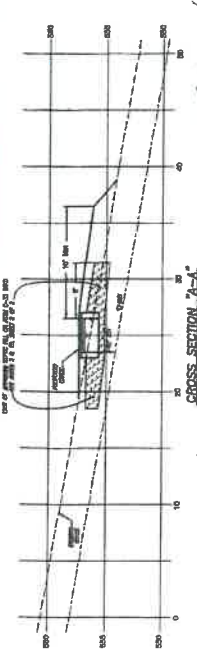
LEGEND

-



- SEPTIC SYSTEM GENERAL DATA**
- Presidence Info:
 - 10 pits / 24
 - 177.5 c.f. effective handling area
 - 11.44 / 1.0 c.f. of storage 534-8
 - Effective Handling Area:
 - 177.5 / 11 = 16.25 c.f.
 - 25' x 10'
 - Length Provided:
 - 15 x 1.75 = 2.625'
 - 25'
 - MADE PROVIDED:
 - 25'
- LEGEND DATA**
- 1- 10' (11' maximum) of open water 534-8
- Maximum depth into existing grade = 10'

FOR ALL CONSTRUCTION NOTES, TEST PIT DATA AND DETAILS SEE SHEET J OF 3.



- NOTES**
- The survey has been prepared pursuant to the Regulations of the Connecticut State Department of Environmental Protection, 28-309-20 and the "Standards for Surveying and Mapping in the State of Connecticut" as adopted by the Board of Surveying and Mapping, dated September 20, 1964, and amended October 20, 2016.
 - This survey conforms to a Class "C" horizontal accuracy.
 - Field surveyed topographic features conform to a Class "1-2", 1/2" vertical accuracy.
 - Least topographic features conform to a Class "1-4", 1/4" vertical accuracy.
 - Survey Type: General Location Survey.
 - This map was prepared from recent aerial photography, other maps, and field observations. It is not intended to be a legal document. It is intended to be a guide for the location of the proposed septic system and is subject to such facts as may be determined by the local health department.
 - Zone = 101.
 - Point is shown on Lot #4 on Assessor's Map #200.
 - Owner of record: Matthew St. Laurent & Dan St. Laurent, Danbury, CT 06830. See Volume 1374, Page 813.
 - Boundaries shown are based on North American Vertical Datum of 1988 (NAVD 88) and are not intended to be a legal document. They are based on the North American Datum of 1983 (NAD 83) and are subject to such facts as may be determined by the local health department.
 - Wellhead shown were taken from Map Reference.
 - North orientation, bearings and coordinates values shown are based on North American Datum of 1983 (NAD 83) and are subject to such facts as may be determined by the local health department.
 - Before any construction is to commence contact "TAL RESOLVE" VOD 100" at 1-800-922-4455 or 011.
 - Point Number Zone "1" taken from preliminary Wetland County FEMA Map #2001002707.

1. Subdivisions of Land - Owned by - Matt St. Laurent & Dan St. Laurent, Danbury, CT 06830. See Volume 1374, Page 813.

DATE	DESCRIPTION

**GENERAL LOCATION SURVEY
SEPTIC SYSTEM DESIGN PLAN**

PREPARED FOR
DAN ST. LAURENT

39 SHIPPEE SCHOOL HOUSE ROAD
KILLBUCK, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying

110 Main Street
Killingly, Connecticut 06241
www.killinglyeng.com

DATE: 5/1/2023	DESIGN: RST
SCALE: 1" = 20'	REVISION: 01
SHEET 1 OF 3	DATE: 5/1/2023
DATE: 5/1/2023	DATE: 5/1/2023

APPROVED BY THE TOWN OF KILLBUCK

DATE: 5/1/2023

DATE: 5/1/2023

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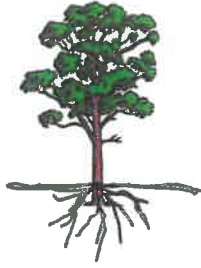
DATE: 5/1/2023

APPROVED BY THE TOWN OF KILLBUCK

DATE: 5/1/2023

DATE: 5/1/2023

DATE: 5/1/2023



JOSEPH R. THEROUX

~ CERTIFIED FORESTER/ SOIL SCIENTIST ~
PHONE 860-428-7992 ~ FAX 860-376-6842
426 SHETUCKET TURNPIKE, VOLUNTOWN, CT. 06384
FORESTRY SERVICES ~ ENVIRONMENTAL IMPACT ASSESSMENTS
WETLAND DELINEATIONS AND PERMITTING ~ E&S/SITE MONITORING
WETLAND FUNCTION AND VALUE ASSESSMENTS

RECEIVED

JUL 05 2023

7/4/23

KILLINGLY ENGINEERING ASSOCIATES
P.O. Box 421
DAYVILLE, CT. 06241

PLANNING & ZONING DEPT.
TOWN OF KILLINGLY

RE: WETLAND INSPECTION, 39 SHIPPEE SCHOOLHOUSE ROAD, KILLINGLY, CT.

DEAR MR. THIBEAULT,

AT YOUR REQUEST I HAVE INSPECTED THE DELINEATED INLAND WETLANDS AND WATERCOURSE ON THE SUBJECT PROPERTY.

AS A RESULT OF THE LAST SEVERAL STORMS, SIGNIFICANT QUANTITIES OF GRAVEL, SAND AND FINE SEDIMENTS HAVE WASHED UNDER OR THROUGH THE E&S MEASURES INSTALLED ABOVE THE WETLAND DELINEATION LINE.

IN NUMEROUS LOCATIONS THE SILT FENCING BREACHED, ALLOWING THE SEDIMENTS TO FLOW DISTANCES UP TO APPROX. 40 FEET, RESULTING IN DEPOSITS IN THE WETLANDS AVERAGING 4 TO 6 INCHES IN DEPTH.

IN ONE LOCATION, BETWEEN WETLAND FLAGS WF-15 AND WF-16, THE SEDIMENTS REACHED SALISBURY BROOK, AS EVIDENCED BY FINE SEDIMENTS WITHIN POOLS IN AND ADJACENT TO THE BROOK.

TAKING INTO CONSIDERATION THE ROCKY, UNEVEN SURFACES AND SLOPING TOPOGRAPHY IN THE WETLANDS I WOULD NOT RECOMMEND EXCAVATION OF THE SEDIMENT DEPOSITS, AS EVEN GREATER DISTURBANCE WOULD OCCUR.

SPECIFICALLY, THIS WOULD INCLUDE THE DESTRUCTION OF THE MAJORITY OF THE EXISTING HERBACEOUS AND SHRUB VEGETATION TO INSTALL NEW E&S MEASURES WITHIN THE WETLANDS AND REMOVE THE SEDIMENT DEPOSITS. CURRENTLY, THE MAJORITY OF THE VEGETATION IS INTACT AND THRIVING.

ADDITIONAL VEGETATION WILL SPROUT THROUGH THE SHALLOW SEDIMENT DEPOSITS OR SEED IN AND GROW ON TOP OF THEM.

I ALSO NOTICED IN TWO LOCATIONS, SIGNIFICANT QUANTITIES OF TREE STUMPS, TREE TOPS AND BRUSH WERE PUSHED/PILED IN AND ALONG THE WETLAND DELINEATION BOUNDARY.

AGAIN, I WOULD RECOMMEND LEAVING THEM IN PLACE TO AVOID GREATER DISTURBANCE AND POTENTIAL IMPACTS WITHIN THE WETLANDS. CURRENTLY THEY WILL SERVE AS COVER AND HABITAT FOR AMPHIBIANS, REPTILES, SMALL MAMMALS AND BIRD SPECIES LIVING IN AND ADJACENT TO THE WETLANDS.

CONSIDERING THE EXTENT OF THE SEDIMENT DEPOSITS WITHIN THE WETLANDS AND THE SMALL DISCHARGE POINT INTO SALISBURY BROOK, IT IS MY OPINION THAT THIS DISCHARGE DID NOT ADVERSELY IMPACT THE WETLAND FUNCTIONS AND VALUES OF THE FORESTED WETLANDS OR SALISBURY BROOK.

I WOULD RECOMMEND THE FOLLOWING TO FURTHER PROTECT THE WETLANDS AND BROOK FROM FUTURE IMPACTS:

1. RE-INSTALL THE SILT FENCING, ALONG THE ENTIRE PERIMETER OF THE SITE ADJACENT TO THE WETLANDS, PROPERLY BURYING THE BOTTOM FLAP TO PREVENT SEDIMENTS FROM BREACHING UNDER THE SILT FENCE.
2. INSTALL STAKED HAYBALES BEHIND THE SILT FENCING TO SUPPORT IT AND PREVENT IT FROM COLLAPSING BACKWARD.
3. SEED AND MULCH THE DISTURBED AREAS ADJACENT TO THE WETLANDS AND PORTIONS OF THE UPLANDS THAT ARE NOT GOING TO BE DEVELOPED TO ESTABLISH VEGETATIVE COVER ASAP.
4. PLANT/RE-ESTABLISH THE NATIVE SHRUB SPECIES THAT WERE REMOVED WITHIN THE AREAS ADJACENT TO THE WETLANDS THAT ARE NOT GOING TO BE DEVELOPED.
5. POST THE WETLAND BOUNDARIES WITH SIGNAGE TO DISCOURAGE POTENTIAL FUTURE ENCROACHMENTS.

IN CONCLUSION, IF YOU HAVE ANY QUESTIONS CONCERNING THE DELINEATION OR THIS REPORT, PLEASE FEEL FREE TO CONTACT ME.

THANK YOU,

Joseph R. Theroux

JOSEPH R. THEROUX
CERTIFIED SOIL SCIENTIST
MEMBER SSSSNE, NSCSS, SSSA.

NOTIFICATION OF TIMBER HARVEST

Town: KILLINGLY Date: 6/15/23
Property Location: 75 BEAR HILL ROAD

List all parcels:

Assessor's Info:

Map	Block	Lot
120	-	16-1

OR:

Unique ID

Total acreage of property(s): 11.17

Total acreage of harvest area: 10.0

Landowner(s) of Record: ADAM MATTEAU

Mailing Address: 149 COOMER HILL RD

Town: KILLINGLY Zip: 06241

Phone (860): 457-8586

E-mail: N/A

Primary Contact: DUBOIS FORESTRY

Mailing Address: P.O. BOX 143

Town: BROOKLYN Zip: 06234

Phone (860): 774-8654

E-mail: DUBOISFORESTRY@GMAIL.COM

Note: Timber harvesting is a *Permitted as of Right Activity* pursuant to the Inland Wetlands and Water Courses Act, except for those practices regulated under Section 22a-36 through 22a-45 of the Connecticut General Statutes.

RECEIVED

JUN 21 2023

Is there a current forest management/stewardship plan for this property? ☒ Yes ☐ No

This timber harvest has been prepared by a State of Connecticut certified:		PLANNING & ZONING DEPT.
(Check one): ☒ Forester OR ☐ Supervising Forest Products Harvester		TOWN OF KILLINGLY
Forest Practitioner Certificate #: <u>F000135</u>		
Name: <u>DONALD A. DUBOIS</u>		
Address: <u>P.O. BOX 143 BROOKLYN CT 06234</u>		
E-mail: <u>DUBOISFORESTRY@GMAIL.COM</u>		
Phone #: (Business) <u>(860) 774-8654</u> (Cell) <u>(860) 382-3551</u>		

Property Boundaries:

Bounds are marked: ☒ Yes ☐ No

Timber Harvest Boundaries:

Have been marked or flagged: ☒ Yes ☐ No

Have owners of all lands within 100 feet of the harvest area been notified via first-class mail prior to filing this "Notification of Timber Harvest"? ☒ Yes ☐ No

Estimated starting date of timber harvesting operations: 9 / 1 / 23

Description of Timber Harvest:

Objective: TO REMOVE TREES WITH DEFECT, DEFORMITY, DIE-BACK AND DISEASE IN ORDER TO GROW THE HEALTHIER, BETTER QUALITY TREES
Treatment: THIS IS A SILVICULTURAL TREATMENT TO SALVAGE ASH TREES INFESTED WITH THE EMERALD ASH BORER, OAK TREES THAT DIED DUE TO RECENT GRAY MOTH DEFOLIATIONS, AND SPRUCE INFESTED W/ SPRUCE RUST.

Amount of forest products to be harvested:

29,020 Board feet 45 Cords — Cubic feet — Tons

How have the trees to be harvested been designated?

☒ They have been marked with paint at eye level and at ground level. Paint color(s): BLUE
☐ They have not been marked

This is not an official CT DEP form but it has been endorsed for town usage by: CT Farm Bureau Assoc., CT Forest & Park Assoc., CT Professional Timber Producers, Society of American Foresters - CT Chapter, and others.

SOIL, WATER AND INLAND WETLANDS RESOURCES

Actions Being Performed On This Land

(Check all that apply and locate on attached Timber Harvest Area map -- see information below on maps.)

<u>Crossings / Clearing</u> ☒ Temporary stream/drainage crossing PORTABLE BRIDGE ☐ Temporary wetlands crossing ☐ Removal of trees in wetlands PER NRCS ☒ Removal of trees in upland review area	<u>Erosion and Sedimentation Control Measures:</u> ☐ Installation of water bars ☒ Grading PER NRCS ☒ Seeding ☐ Other (describe below)
<u>Log landing area:</u> ☒ Anti-tracking pad ☐ curb cut SEE NRCS DRAWINGS	<u>Roads</u> Are new roads, other than skid trails, to be constructed for transport of logs or other activities associated with this harvest? ☒ Yes ☐ No PER NRCS

Describe in further detail as necessary:

THE LANDOWNER IS THE RECIPIENT OF A GRANT FROM THE USDA/NRCS TO HELP HIM TAKE BETTER CARE OF HIS WOODED LAND. THE NRCS IS COST SHARING THE "HARDENING" OF THE EXISTING ACCESS ROAD TO ALLOW FOR THE PASSAGE OF A FULLY LOADED LOG TRUCK TO THE WOOD PROCESSING AREA. (SEE ENGINEERING MAPS PREPARED BY USDA/NRCS)

The following maps are attached to this "Notification" (Check all that apply)

- ☒ Copy of USGS topographic map with property outlined
- ☒ Copy of Assessor's map with property outlined
- ☒ Timber Harvest Area map showing outline of harvest area, main skid road locations, log landing area, truck access roads, inland wetlands, watercourses and any crossings

The undersigned hereby swear that the information contained in this application is true, accurate and complete to the best of my (our) knowledge and belief and that the timber harvest will be conducted in accordance with the specifications outlined in this "Notification of Timber Harvest."

✓ Signature of Landowner(s): Adam Mateau ✓ Date: 6/15/23

Print/Type Name: ADAM MATEAU

Signature of Landowner(s): _____ Date: _____

Print/Type Name: _____

Signature of Certified Forest Practitioner: Donald A Dubois Date: 6/15/23

Print Name: DONALD A DUBOIS

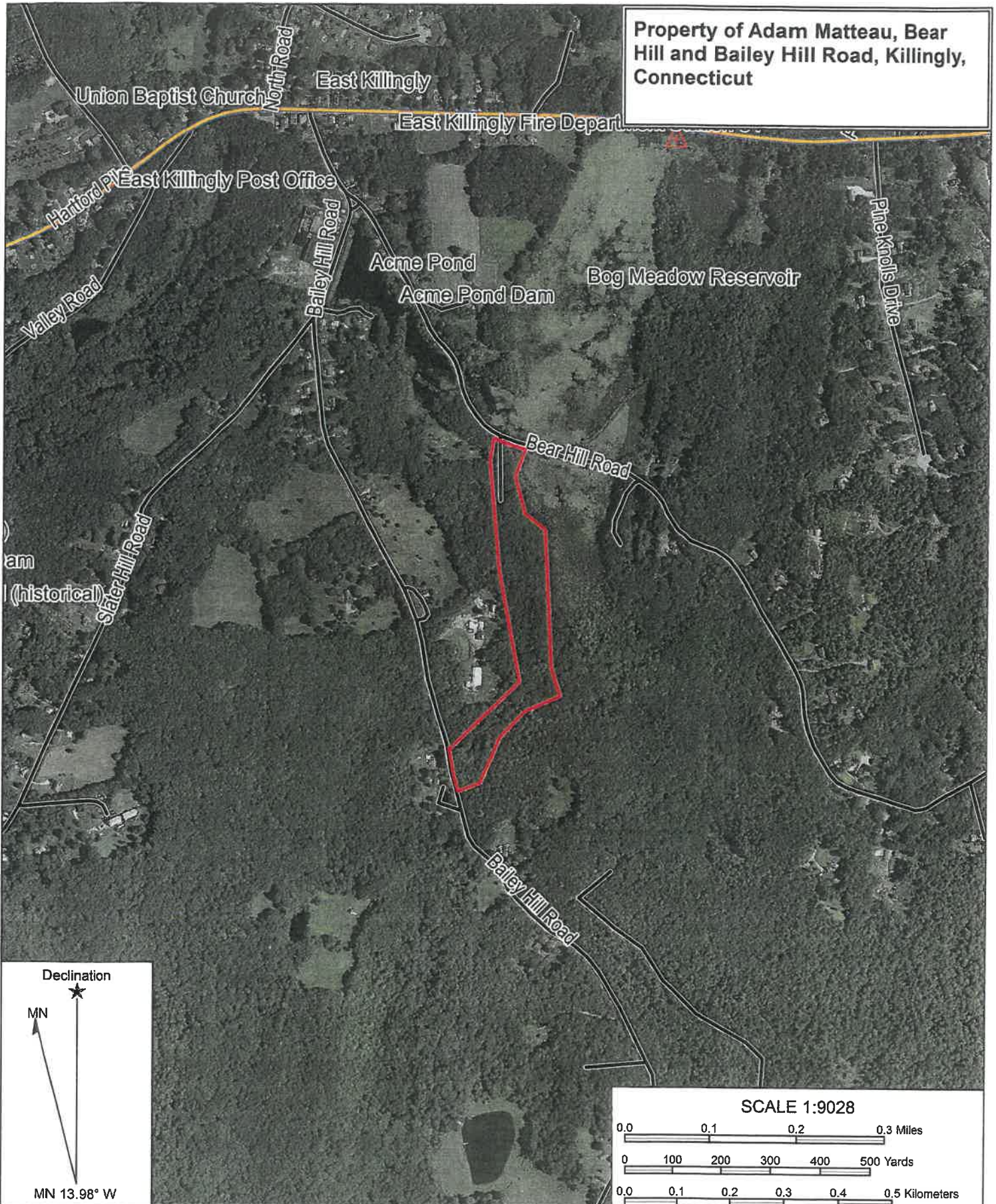
Certificate #: F000135 Expiration Date: 10 / 1 / 24

Complete and Submit to:

- The Municipal Inland Wetlands Agency/ies in which the property is located, and
- A courtesy copy of this Notification Form should also be sent to The Department of Environmental Protection, Division of Forestry
79 Elm Street, Hartford, CT, Tel: (860) 424-3630

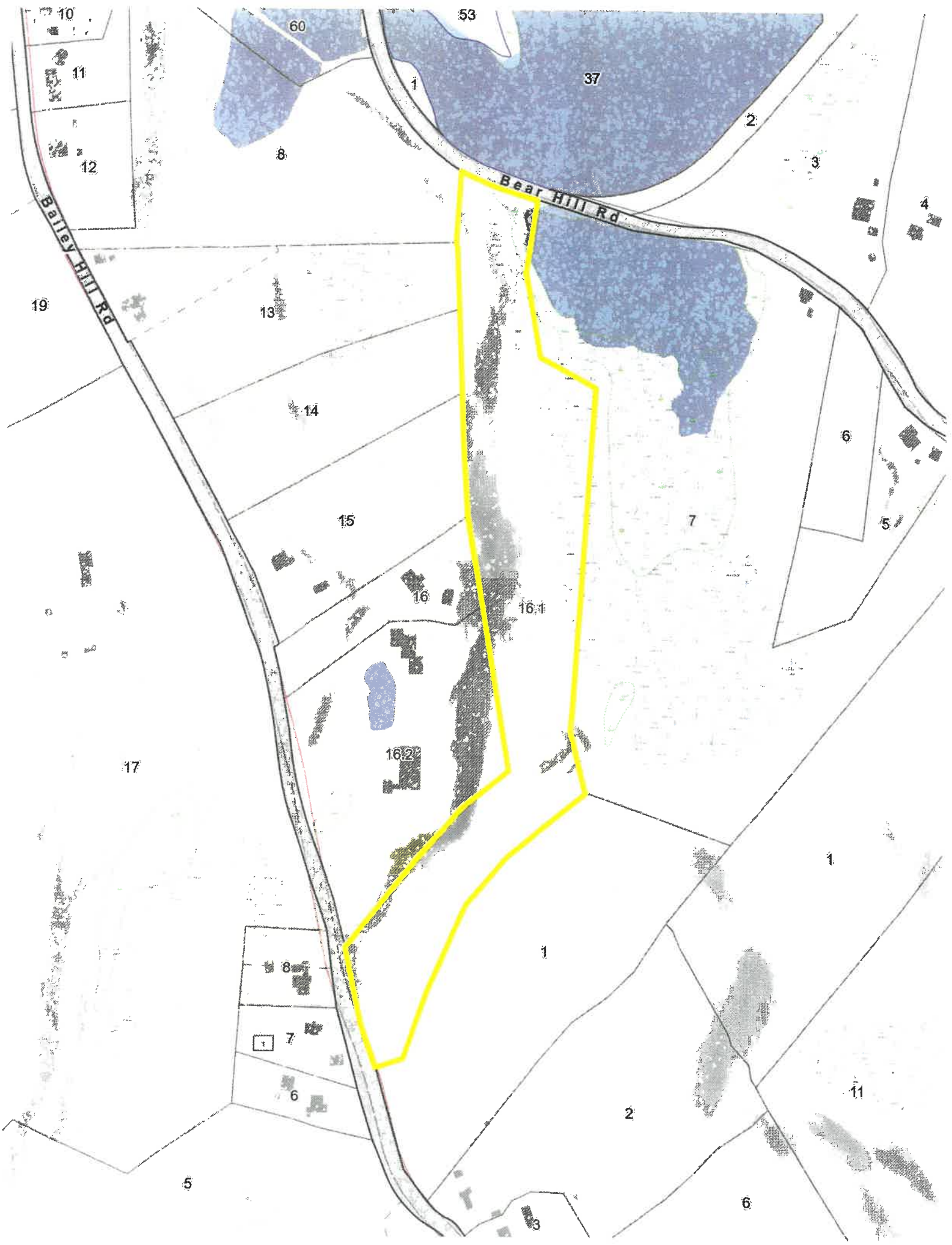
This is not an official CT DEP form but it has been endorsed for town usage by: CT Farm Bureau Assoc., CT Forest & Park Assoc., CT Professional Timber Producers, Society of American Foresters - CT Chapter, and others.

Property of Adam Matteau, Bear Hill and Bailey Hill Road, Killingly, Connecticut



Name: Satellite Image
Date: 10/14/20
Scale: 1 inch = 752 ft.

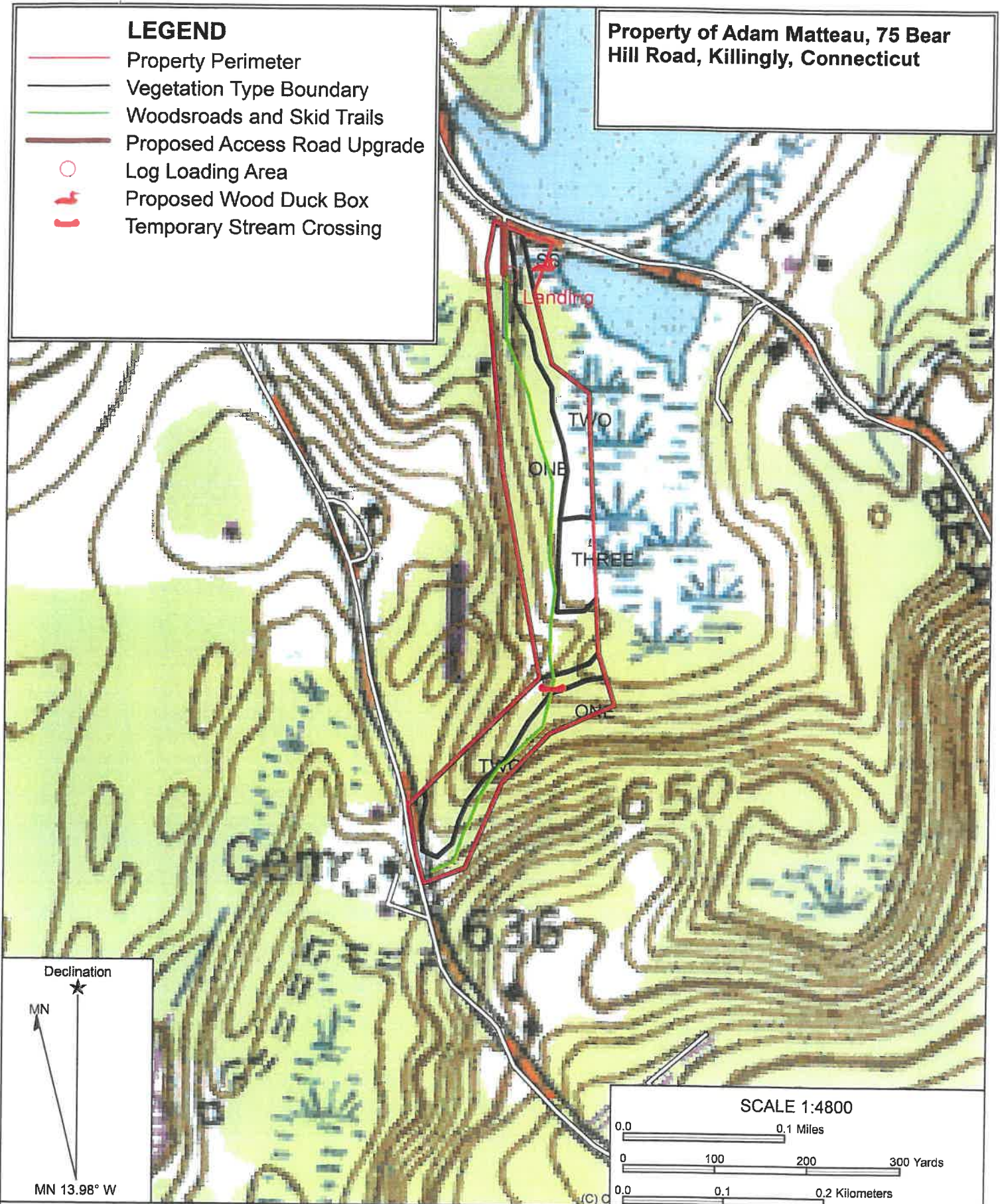
Location: 041° 50' 26.5685" N, 071° 48' 54.3249" W
LOCUS MAP



LEGEND

-  Property Perimeter
-  Vegetation Type Boundary
-  Woodsroads and Skid Trails
-  Proposed Access Road Upgrade
-  Log Loading Area
-  Proposed Wood Duck Box
-  Temporary Stream Crossing

Property of Adam Matteau, 75 Bear Hill Road, Killingly, Connecticut



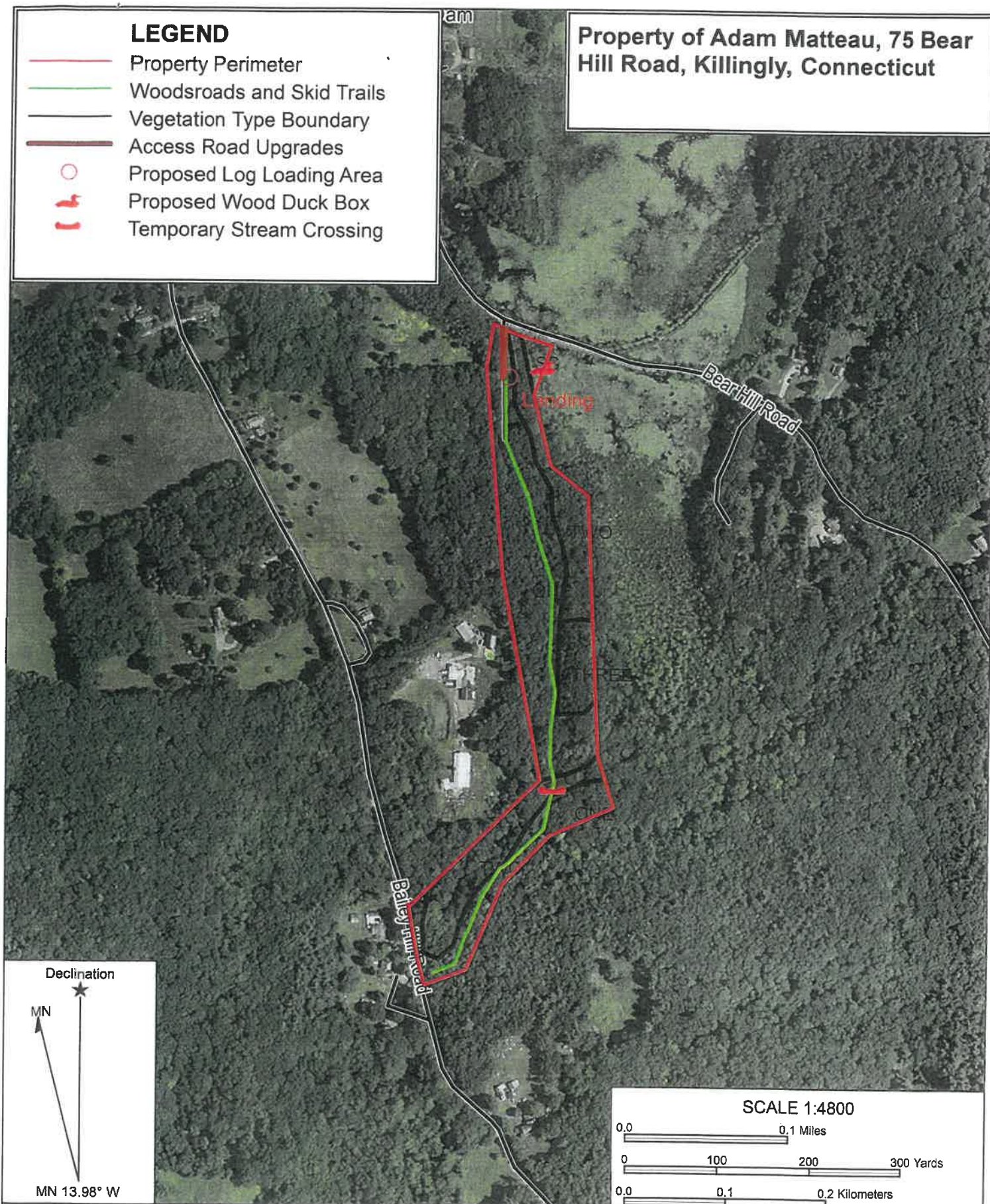
Name: EAST KILLINGLY
Date: 11/07/20
Scale: 1 inch = 400 ft.

Location: 041° 50' 24.3639" N, 071° 48' 54.1603" W
TOPOGRAPHICAL MAP

LEGEND

- Property Perimeter
- Woodsroads and Skid Trails
- Vegetation Type Boundary
- Access Road Upgrades
- Proposed Log Loading Area
- Proposed Wood Duck Box
- Temporary Stream Crossing

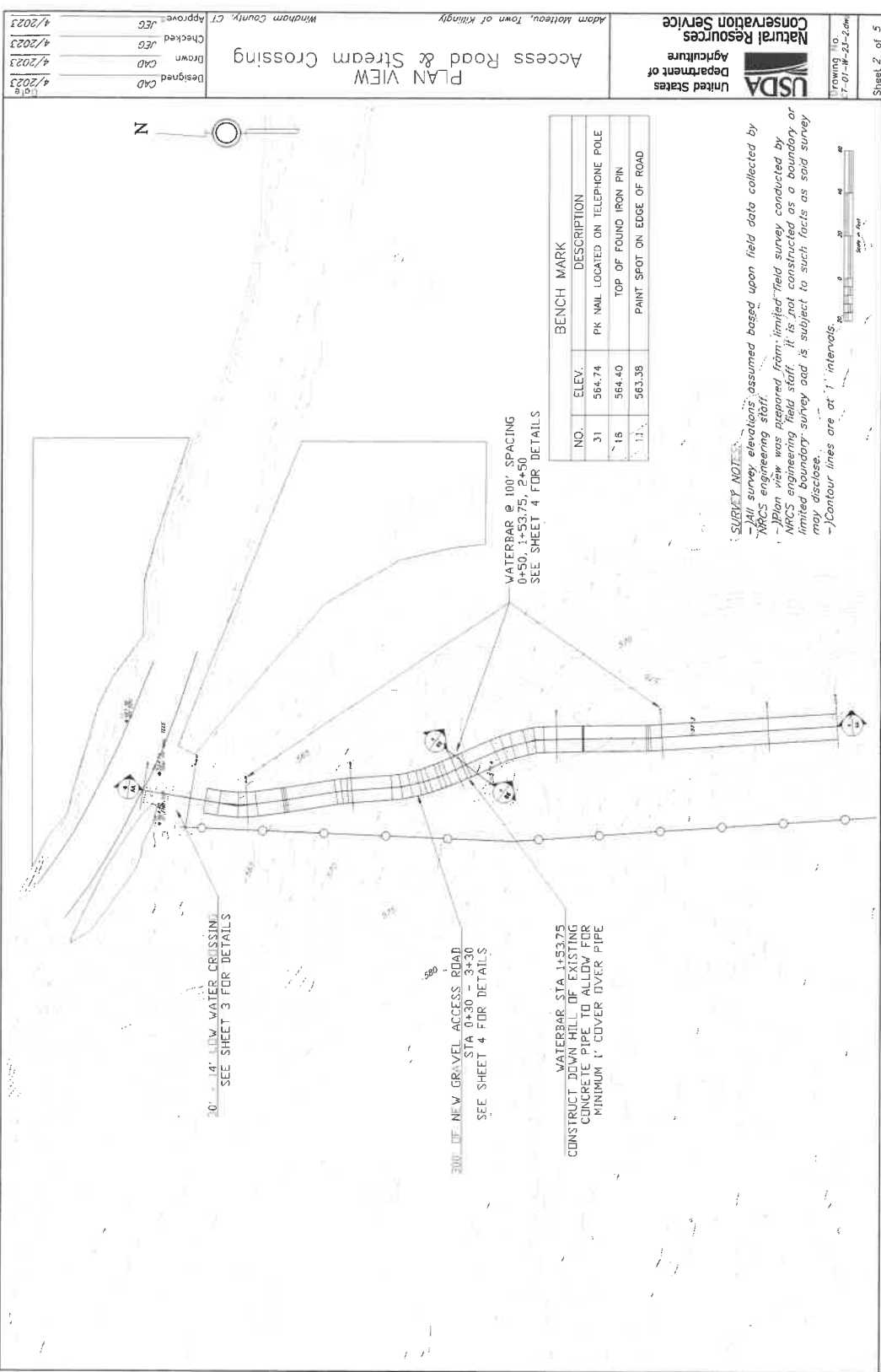
Property of Adam Matteau, 75 Bear Hill Road, Killingly, Connecticut



Name: Satellite Image
Date: 01/04/21
Scale: 1 inch = 400 ft.

Location: 041° 50' 27.5756" N, 071° 48' 54.1176" W

VEGETATION TYPE MAP



BENCH MARK	
NO.	ELEV.
31	564.74
15	564.40
11	563.38
DESCRIPTION	
PK NAIL LOCATED ON TELEPHONE POLE	
TOP OF FOUND IRON PIN	
PAINT SPOT ON EDGE OF ROAD	

SURVEY NOTES:
-All survey elevations assumed based upon field data collected by NRCS engineering staff.
-Plan view was prepared from limited field survey conducted by NRCS engineering field staff. It is not constructed as a boundary or limited boundary survey and is subject to such facts as said survey may disclose.
-Contour lines are at 1' intervals.



United States
Department of
Agriculture

Natural Resources
Conservation Service

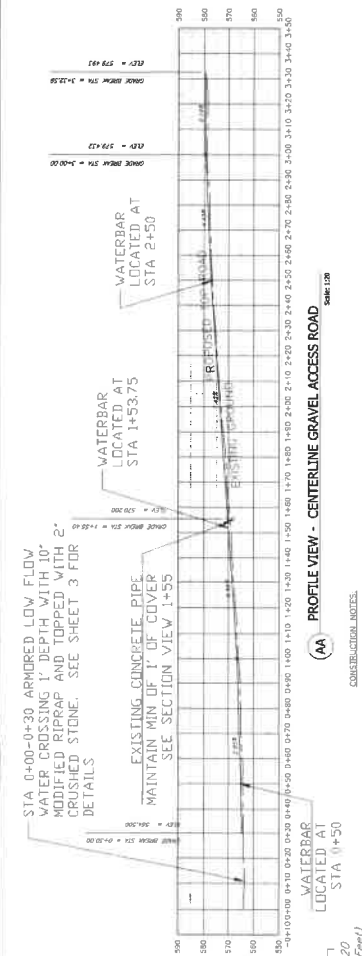
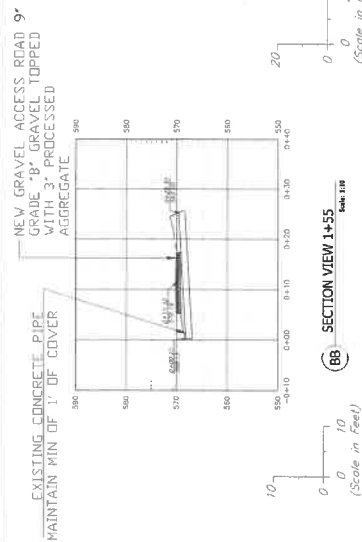
Adrian Motteau, Town of Killingly
Windham County, CT

Access Road & Stream Crossing
PLAN VIEW

Designed: CAD 4/2023
Drawn: JEG 4/2023
Checked: JEG 4/2023
Approved: JEG 4/2023

Sheet 2 of 5

Working 11.0
17-01-M-21-2.mxd



CONSTRUCTION NOTES:

CONSTRUCTION NOTES:

— DESIGN LOCATIONS AND ELEVATIONS SHOWN ON THESE DRAWINGS ARE PROVIDED BASED ON SITE CONDITIONS AT THE TIME OF THE DESIGN. COORDINATES AND ELEVATIONS MAY CHANGE DUE TO UPDATING THE CONDITIONS AT THE TIME OF CONSTRUCTION. FOR GUARANTEE PURPOSES, THE VERTICAL ELEVATIONS SHOWN ARE BASED ON THE APPROVAL OF THE PROJECT ENGINEERING STAFF.

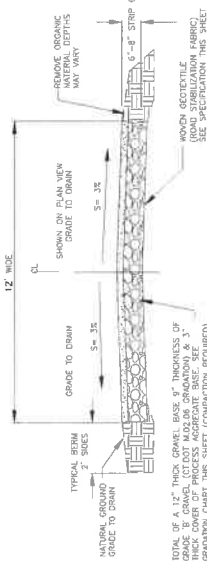
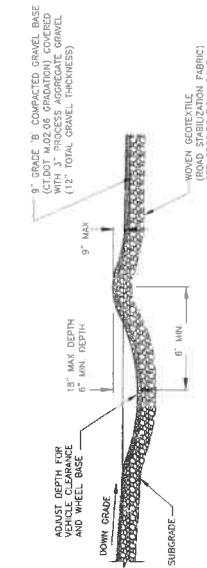
— 300' OF ACCESS ROAD SHALL BE INSTALLED STRAIGHT AT STATION 0+30 THROUGH 3+30. ALL CONSTRUCTED ROAD SHALL BEAT 12' WIDE.

— 300' ACCESS ROAD REQUIREMENTS AND ANY ASSOCIATED DESIGN AND CONSTRUCTION SPECIFICATIONS. SEE THIS SHEET FOR CONSTRUCTION DETAILS.

— 300' OF ACCESS ROAD SHALL BE CONSTRUCTED WITH COMPACTED SUBGRADE AND 12" GRAVEL, AND 3" METTING OF TOP PROCESSED GRAVEL. SEE SHEET FOR CONSTRUCTION AND DIMENSIONAL DETAILS.

— THE MAXIMUM WIDTH OF THE 100' FEET FOR ONE-WAY ROAD IS 14 FEET FOR ONE-WAY TRAFFIC. THE ROADWAY WIDTH INCLUDES A WIDTH-OF-FOOT OF 10 FEET FOR ONE-WAY TRAFFIC AND 2 FEET OF SHOULDER ON EACH SIDE.

— THIS DRAINAGE BY ENGINEERING, A GEOTECHNICAL MATERIAL SPECIFICALLY DESIGNED FOR ROAD SUBSILIMATION APPLICATIONS UNDER THE SUBSILIMATION OF THE SUBSILIMANT. THE SUBSILIMANT WILL ALSO DETERMINE THE TYPE OF GEOTECHNICAL MATERIAL FOR EACH APPLICATION. SEE NOTES THIS SHEET FOR DETAILS.



WOVEN GEOTEXTILE FABRIC
(ROAD STABILIZATION FABRIC)
GEOTEXTILE SHALL BE USED BENEATH GRAVEL ACCESS ROAD, AS NOTED ON THE DRAWINGS SPECIFIED AND APPROVED BY THE NRCS PROJECT ENGINEER.

THIS WOVEN GEOTEXTILE MUST MEET THE MINIMAL "SURVIVABILITY CRITERIA LISTED BELOW":

SPECIFICATIONS ARE AS FOLLOWS:

- GRAB TENSILE STRENGTH: 130 LBS.
- ASTM D-1682
- TEAR STRENGTH: 55 LBS. ASTM D-1117
- MULLEN BURST 290 PSI OR BETTER.
- PUNCTURE STRENGTH 65 LBS.
- U.V. LIGHT RESISTANT
- APPROX OPENING U.S. SIEVE #40 SIZE

CT. BOT. PROCESSED AGGREGATE BASE	
GRADATION - 3" FINAL GRAVEL FINISH	
SOURCE MESH SIZE	% PASSING BY WEIGHT
PASSES 2" - 1/2"	100
PASSES 2"	95 - 100
PASSES 3/4"	50 - 75
PASSES 1/2"	25 - 45
PASSES # 40	5 - 20
PASSES # 100	2 - 12
PASSES # 200	5 - 2

GRADE B GRAVEL		
FROM B.I.A. CT. J02.05		
GRAVITATION - 9" GRADE - 8" BASE GRAVEL	% PASSING 20" WASH	% PASSING BY WEIGHT
PASS 5"		100
PASS 3 1/2"		95-100
PASS 1 1/2"		95-99
PASS 1"		75-80
PASS 3/4"		15-45
PASS # 40		5-25
PASS # 100		0-10
PASS # 200		0-5

COMPACTIVE EFFORT REQUIREMENTS		
GRADE, MAXIMUM SIZE, THICKNESS	SPRINKLE WATER, MINIMUM FOR COMPACTION	COMPACTION REQUIREMENT
3" 12"	THOROUGHLY WET BUT NOT SO WET AS TO CAUSE THE ADHERENCE OF THE MATERIAL TO THE COMPACTOR EQUIPMENT	CLASS II HAND COMPACTION PASSES PER 12" LIFT OF A MANUALLY DIRECTED POWER TAMPER OR PLATE VIBRATOR WEIGHING AT LEAST 200 LBS OR AN EQUIVALENT METHOD

MATERIAL: NO MORE THAN 2% BY WEIGHT SHALL PASS THE # 200 SIEVE. COMPACTION REQUIRED

% SLOPE OF ACCESS / TRAIL	DISTANCE APART
1%.....	400 FT
2%.....	245 FT
5%.....	125 FT
10%.....	78 FT
15%.....	58 FT

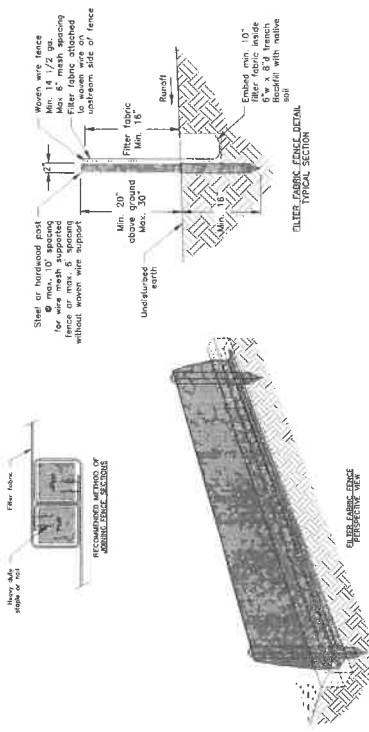
EROSION AND SEDIMENT CONTROL NOTES

-)Erosion and sediment control measures will be installed prior to and during clearing, grading, and excavation. Silt fence (bale type or fabric type) shall be installed as needed, or as instructed by the NRCS project engineer.
-)Posts shall (36) inch minimum length constructed of either of the following materials: Steel "T" or "U" type, or 2" x 2" hardwood.
-)Woven wire used as additional fence support shall be minimum 14.5 gauge with (6) inch maximum mesh spacing.
-)Woven wire shall be placed along the uphill side of the fence and fastened with wire ties or (1) inch staples along the uphill side of the posts.
-)Filler fabric shall be fastened to woven wire according to manufacturers recommendation, or with ties every (24) inches at top and mid-section.
-)Where two pieces of filler fabric adjoin each other they shall be overlapped by (6) inches and folded.
-)Where two posts meet to join fence sections, the tops of the posts shall be secured together with wire.
-)The fence shall be constructed along the contour as much as possible.
-)Ends of fences shall be extended up the slope to prevent runoff from migrating around the end of the fence.
-)Inspection of the fence shall be performed weekly, or immediately after a rain event, or when bulges appear in the fence. Accumulated silt shall not be allowed to exceed (1/2) height of the fabric. Repair and or replacement of damaged fence shall be completed promptly, as needed.
-)Accumulated silt shall be removed and disposed of in an approved site in such a manner that it will not contribute to off-site siltation.
-)Mulching and final seeding shall follow completed segments of the work. See specification for seeding requirements.
-)All fencing shall be removed when the construction site is fully stabilized so as to not impede storm flow or drainage.
-)All chemicals, fuels, and lubrications, shall be located, stored, and disposed of in such a manner as to prevent their entry into wetland or watercourse. No equipment or machinery shall be stored, cleaned or repaired within a wetland or watercourse.

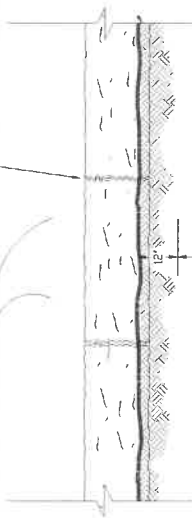
SEEDING RECOMMENDATIONS AND SPECIFICATIONS

1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RESULTS OR 300 POUNDS 10-10-10 AND 2 TONS OF LIME PER ACRE.
2. RECOMMENDED SEEDING DATES ARE APRIL 1 - JUNE 15 AND AUGUST 15 - SEPTEMBER 30
3. MULCH ALL DISTURBED AREAS WITH STRAW OR HAY AT THE RATE OF 100LBS/1000 FT².

* NOTE: OTHER SUITABLE SEED MIXTURES MAY BE USED INSTEAD OF THE ABOVE



2 - (3' X 2' X 2') WIDEN STAKES, OR
NO. 6 STEEL REBARS, OR
STEEL PISTS FOR EACH BALE



NOTE: EXISTING GROUND TO BE EXCAVATED
THE MINIMUM WIDTH OF A BALE TO A
DEPTH OF 4". BACKFILL AND COMPACT
EXCAVATED SOIL ON THE UPHILL SIDE
OF THE BARRIER.

SEEDING REQUIREMENTS

SEED MIXTURE	LBS/ACRE	LBS/1,000 Sq. Ft.
KENTUCKY BLUEGRASS	20	.5
PERENNIAL RYE	5	.125
CREeping RED FESCUE	20	.5
Total	45	1.125

EROSION & SEDIMENT CONTROL
Access Road & Stream Crossing

Designed: CAD
Drawn: JEC
Checked: JEC
Approved: JEC
4/2023
4/2023
4/2023

United States
Department of
Agriculture
Natural Resources
Conservation Service

Working No.
C1-01-49-23-2-00

Sheet 5 of 5