TOWN OF KILLINGLY
INLAND WETLANDS AND WATERCOURSES COMMISSION

Monday, February 6, 2023

Regular Meeting – Hybrid Meeting
7:00 PM
Second Floor – Town Meeting Room
Killingly Town Hall
172 Main Street
Killingly, CT

AGENDA

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.

I. **CALL TO ORDER**

II. **ROLL CALL**

III. **ADOPTION OF MINUTES** – (Review/Discussion/Action)

A. May 2, 2022, Regular Meeting Minutes

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 22-1553 of Jim Collins** for construction of a 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.

B. **Application 22-1555 of the Town of Killingly** for the dredging of approx. 14,000 cy of material from pond to increase irrigation for recreational fields; 580 Hartford Pike (Owen Bell Park); Map ID 6996, Alt ID 114-43; VC / LD.

C. **Application 22-1556 of Meriam & Joel Smith** for jurisdictional ruling, notification of invasive species management; 10 Kies Road; Map ID 4578, Alt ID 222-18, Rural Development Zone.

VI. **New Business:** (listed in order of receipt) – (Review/Discussion/Action)

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

1. **App #22-1546 of Deborah McSheehy** for removal of existing concrete patio and stairs to be replaced with pavers and granite stairs within 200' upland review

area; 255 No Shore Rd; Map ID 3622, Alt ID 82-20; ALZOD / LD – **APPROVED 6/6/2022**

2. **App #22-1547 of American Retaining Wall LLC** for jurisdictional ruling, notification of timber harvest, 150,750 board feet by Hull Forest Products (Austin Harmon, Supervising Forest Products Harvester); 210 Snake Meadow Road; Map ID 9627, Alt ID 246-2 & 247-11; Rural Development Zone – **EXEMPT.**
3. **App #22-1548 of Crista Nolan** for removal of existing concrete stairs to be replaced with granite stairs and rebuild stone wall at the water's edge; 1781 Upper Maple St; Map ID 5350, Alt ID 81-12; ALZOD / LD – **APPROVED W/ CONDITIONS 8/10/2022.**
4. **App #13-1384 of Bldg. America Co, LLC (Tri-Lakes)**, Phase 1 of a 31-lot subdivision; 520 Bailey Hill Road; GIS Map 143; Lot 6; 643 acres; RD – **FOUR YEAR EXTENSION GRANTED TO JULY 8, 2027, PER CGS 8-3K ON 8/15/2022.**
5. **App #22-1549 of Gospel Light Christian Fellowship** for construction of a church (75' x 100') with associated grading, parking, septic and well; 726 Providence Pike; Map ID 5722, Alt ID 212-22; RD – **APPROVED W/ CONDITIONS 8/25/2022.**
6. **App #22-1550 of Scott Person** for selective timber harvest (70,000 board feet); 200 Putnam Pike; Map ID 9553, Alt ID 90-1; RD – **EXEMPT.**
7. **App #22-1551 of Scott Wheaton** for demolition of existing cottage and construction of four-bedroom home; 252 No Shore Rd; Map ID 711883, Alt ID 82-17.001; ALZOD / LD – **APPROVED 9/13/2022.**
8. **App #22-1552 of Janice Bosworth** for a 14' x 22' addition to existing cottage; 235 No. Shore Rd; Map ID 710555, Alt ID 82-2.001; ALZOD / LD – **APPROVED 9/13/2022.**
9. **App #12-1376 of Paul Rollinson** to replace an existing wall located adjacent to Alexander's Lake; 11 Weeks Lane; Map ID 5565, Alt ID 108-30.2; ALZOD / RD – **FIVE YEAR EXTENSION GRANTED TO NOVEMBER 5, 2027, PER CGS 8-3K ON 9/19/2022.**
10. **App #22-1554 of CDLS Mobile Repair LLC** for 60' x 80' addition and associated regrading and fill within 200' upland review area; 919 No Main Street; Map ID 5322, Alt ID 154-9; General Commercial Zone – **APPROVED W/ CONDITIONS ON 10/20/2022.**

B. Monthly Zoning/Wetlands Report
C. Other

IX. Town Council Liaison

X. Adjournment

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 #: 22-1553
Date Submitted: 9/29/2022
Date of Receipt by Comm.: ~~10/3/22~~ 11/7/22
Fee: $160.00 paid by check # 2528
Staff Initials: JB

KILLINGLY INLAND WETLANDS & WATERCOURSES COMMISSION APPLICATION

A $100.00 base fee (or, for a proposed subdivision, $100.00 per lot, whichever is greater) plus $60.00 state fee must accompany each application (Total fee: $160.00). 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: Jim Collins
Day Phone #: 301-807-2049 Evening Phone #: 800-413-9176
Mailing Address: 6666 Upper Maple Street Suite A Dundalk, CT
Owner of Record: Same
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: 210 Snake Meadow Road
Tax Map Number: 242 Block: _____ Lot: 2
Zoning District: RD Lot Size: 9.767 Acres Lot Frontage: _____
Easements and/or deed restrictions:_____

PURPOSE:

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

Proposed construction of single family home with driveway improvements and bridge crossing.

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:
Marsh & Wooded Wetlands

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:

Originally Considered Relocating Driveway for a more Direct Path to the Proposed Residence but that resulted in a larger Area of Wetlands Disturbance

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

Clean Gravel

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

Haybales, Silt Fence & Crushed Stone Berms/Check Dams

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:

Impact Report to Be Provided

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: 10-29-2022

Owner of Record: _____ Date: 10-29-2022

Killingly Engineering Associates

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

September 27, 2022

Proposed Single Family Home

Jim Collins
210 Snake Meadow 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.

for Applicant — Date 9/29/2022

200 foot Abutters List Report

Killingly, CT
September 27, 2022

Subject Property:

Parcel Number:	246-002-000
CAMA Number:	246-002-000-000 9627
Property Address:	210 SNAKE MEADOW RD
Mailing Address:	AMERICAN RETAINING WALL LLC 666 UPPER MAPLE UNIT A KILLINGLY, CT 06239

Abutters:

Parcel Number:	246-001-000
CAMA Number:	246-001-000-000 9738
Property Address:	226 SNAKE MEADOW RD
Mailing Address:	CONN STATE OF-101 VACANT LAND 450 CAPITOL AV MS#54FOR HARTFORD, CT 061061308
Parcel Number:	246-003-000
CAMA Number:	246-003-000-000 5363
Property Address:	220 SNAKE MEADOW RD
Mailing Address:	VANCE LISA A 220 SNAKE MEADOW RD KILLINGLY, CT 06239
Parcel Number:	246-004-001
CAMA Number:	246-004-001-000 6909
Property Address:	248 SNAKE MEADOW RD
Mailing Address:	ZACKSHER VICTOR G EST 257 SABIN ST UNIT 7 PUTNAM, CT 06260
Parcel Number:	246-005-000
CAMA Number:	246-005-000-000 9645
Property Address:	254 SNAKE MEADOW RD
Mailing Address:	MATRONE JASON 254 SNAKE MEADOW RD KILLINGLY, CT 06239
Parcel Number:	246-021-000
CAMA Number:	246-021-000-000 4062
Property Address:	225 SNAKE MEADOW RD
Mailing Address:	DUVAL EMILE J & MARCIA L 225 SNAKE MEADOW RD KILLINGLY, CT 062390000
Parcel Number:	247-010-000
CAMA Number:	247-010-000-000 5785
Property Address:	230 SNAKE MEADOW RD
Mailing Address:	VINCI BENJAMIN L & KATHY & PETER & MARCI 20 CLOVER HILL PLACE KINSINGTON, CT 06037
Parcel Number:	253-003-000
CAMA Number:	253-003-000-000 4435
Property Address:	120 JOB VAUGHN RD
Mailing Address:	RAINVILLE WILLIAM W 258 MARGARET HENRY KILLINGLY, CT 06239
Parcel Number:	254-001-000
CAMA Number:	254-001-000-000 1373
Property Address:	290 SNAKE MEADOW RD
Mailing Address:	DALY-BEYL PATRICIA & SEGUINE MARY D 306 SNAKE MEADOW RD KILLINGLY, CT 06239

JOSEPH R. THEROUX

~ CERTIFIED FORESTER/ SOIL SCIENTIST ~
PHONE 860-428-7992~ FAX 860-376-6842
P.O. BOX 32, VOLUNTOWN, CT. 06384
FORESTRY SERVICES ~ WETLAND IMPACT ASSESSMENT
WETLAND DELINEATIONS AND PERMITTING ~ E&S/SITE MONITORING
WETLAND FUNCTION AND VALUE ASSESSMENTS

11/30/21

JIM COLLINS
666 UPPER MAPLE STREET
DANIELSON, CT. 06239

RE: WETLAND DELINEATION, 210 SNAKE MEADOW RD. KILLINGLY, CT.

DEAR MR. COLLINS,

AT YOUR REQUEST I HAVE DELINEATED THE INLAND WETLANDS AND WATERCOURSES ON YOUR PROPERTY WITHIN 200 FEET OF THE PROPOSED DEVELOPMENT ACTIVITIES.

THESE WETLANDS AND WATERCOURSES HAVE BEEN DELINEATED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY AND THE DEFINITIONS OF WETLANDS AS FOUND IN THE CONNECTICUT STATUTES, CHAPTER 440, SECTION 22A-38.

FLUORESCENT PINK FLAGS WITH CORRESPONDING LOCATION FLAG NUMBERS WF-1 THROUGH WF-14, WF-1-1A THROUGH WF-8-1A, AND WF-1A THROUGH WF-7A DELINEATE THE HIGH-WATER MARK OF SNAKE MEADOW BROOK, (PERENNIAL), ITS ADJACENT FLOODPLAIN SOILS, AND INLAND WETLANDS.

WETLAND FLAGS WF-1B THROUGH WF-8B AND WF-1C THROUGH WF-42C DELINEATE A PALUSTRINE FORESTED WETLAND CORRIDOR AND INTERMITTENT WATERCOURSE IN THE WESTERN PORTION OF THE PROPERTY. THE EXISTING WOODS ACCESS ROAD PASSES OVER THIS WETLAND/WATERCOURSE.

WETLAND FLAGS WF-1D THROUGH WF-30D, WF-1E THROUGH WF-29E, AND WF-1F THROUGH WF-11F DELINEATE ANOTHER PALUSTRINE FORESTED WETLAND CORRIDOR AND INTERMITTENT WATERCOURSE IN THE WESTERN PORTION OF THE PROPERTY. THE EXISTING WOODS ACCESS ROAD CROSSES THIS WETLAND/WATERCOURSE COMPLEX AS WELL.

WETLAND FLAGS WF-1K THROUGH WF-11K DELINEATE A SMALL PALUSTRINE FORESTED WETLAND ADJACENT TO THE WOODS ACCESS ROAD IN THE CENTRAL PORTION OF THE PROPERTY.

Wetland flags WF-1G through WF-23G, WF-1I through WF-8I and WF-1J through WF-6J delineate palustrine forested wetlands on the southern property boundary on and adjacent to Job Vaughn Rd.

Wetland flags WF-1M through WF-8M, WF-1N through WF-10N and WF-1-O through WF-13-O delineate the palustrine forested wetlands, watercourses and hydric soils found on the central and southern portions of Job Vaughn Road. Essentially, the majority of Job Vaughn Road extending to the south of this property is historically filled inland wetlands.

Wetland flags WF-1H through WF-13H and WF-1L through WF-13L delineate small palustrine forested wetlands that have formed in slight depressions in the topography in the southeast portion of the property.

The inland wetland soils which were found have formed as a result of the high and/or perched seasonal water table. They are characterized by thick organic "A" horizons, shallow redoximorphic features, and low chroma colors within 20 inches of the soil surface.

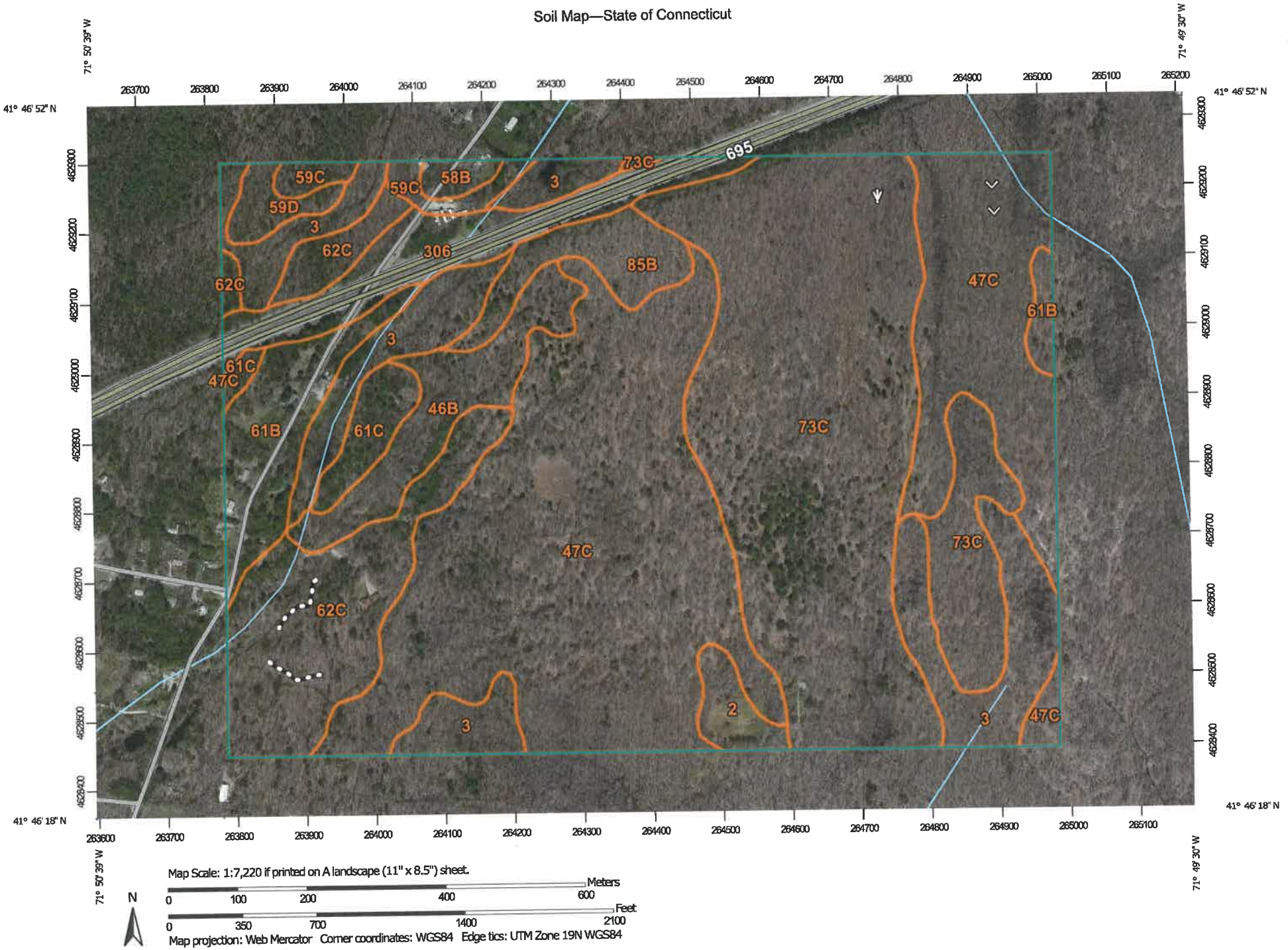
In conclusion, if you have any questions concerning the delineation or this report, please feel free to contact me.

Thank you,

Joseph R. Theroux

Joseph R. Theroux
Certified Soil Scientist
Member SSSSNE, NSCSS, SSSA.

Soil Map—State of Connecticut



Map Scale: 1:7,220 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 100 200 400 600

Feet: 0 350 700 1400 2100

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

USDA **Natural Resources Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

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
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
Survey Area Data: Version 21, Sep 7, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 30, 2011—May 1, 2011

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
2	Ridgebury fine sandy loam, 0 to 3 percent slopes	2.8	1.1%
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	26.0	10.3%
46B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	9.8	3.8%
47C	Woodbridge fine sandy loam, 3 to 15 percent slopes, extremely stony	85.4	33.7%
58B	Gloucester gravelly sandy loam, 3 to 8 percent slopes, very stony	1.3	0.5%
59C	Gloucester gravelly sandy loam, 3 to 15 percent slopes, extremely stony	2.9	1.2%
59D	Gloucester gravelly sandy loam, 15 to 35 percent slopes, extremely stony	2.4	0.9%
61B	Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	11.0	4.4%
61C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes, very stony	4.1	1.6%
62C	Canton and Charlton fine sandy loams, 3 to 15 percent slopes, extremely stony	22.2	8.8%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	67.8	26.8%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	6.2	2.5%
306	Udorthents-Urban land complex	11.3	4.5%
Totals for Area of Interest		**253.4**	**100.0%**

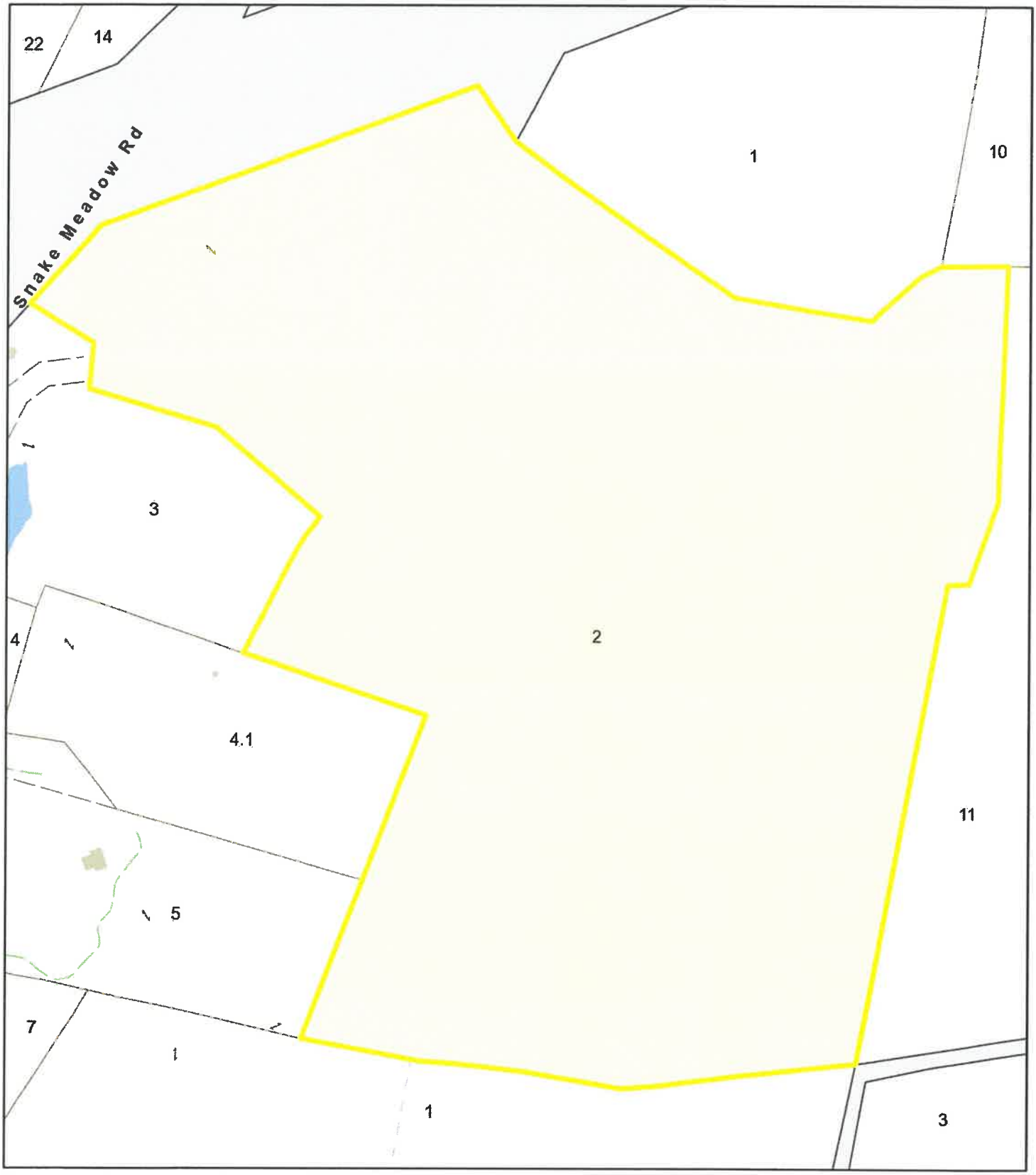
Killingly, CT

1 inch = 280 Feet

0 280 561 842

CAI Technologies
Precision Mapping, Geospatial Solutions
www.cai-tech.com

September 29, 2022



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION

GIS CODE #: ___ ___ ___ ___ ___ ___ ___ ___ ___
For DEEP Use Only

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

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): Jim Collins
8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 210 Snake Meadow Road
   briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☐ description: Proposed
   Single family home with driveway improvements and bridge crossing
9. ACTIVITY *PURPOSE* CODE (see instructions - one code only): A
10. ACTIVITY *TYPE* CODE(S) (see instructions for codes): 1, 2, 9, 12
11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
    wetlands: 0.06 acres open water body: 0 acres stream: 0 linear feet
12. UPLAND AREA ALTERED (must provide acres): ± 5AC acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0.15 acres

PART III: To Be Completed By The DEEP

DATE RECEIVED: DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO FORM CORRECTED / COMPLETED: YES NO

IWWC#22-1553

Killingly Engineering Associates
Civil Engineering & Surveying

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

September 27, 2022

Proposed Single Family Home

Jim Collins
Snake Meadow Road
Killingly, CT

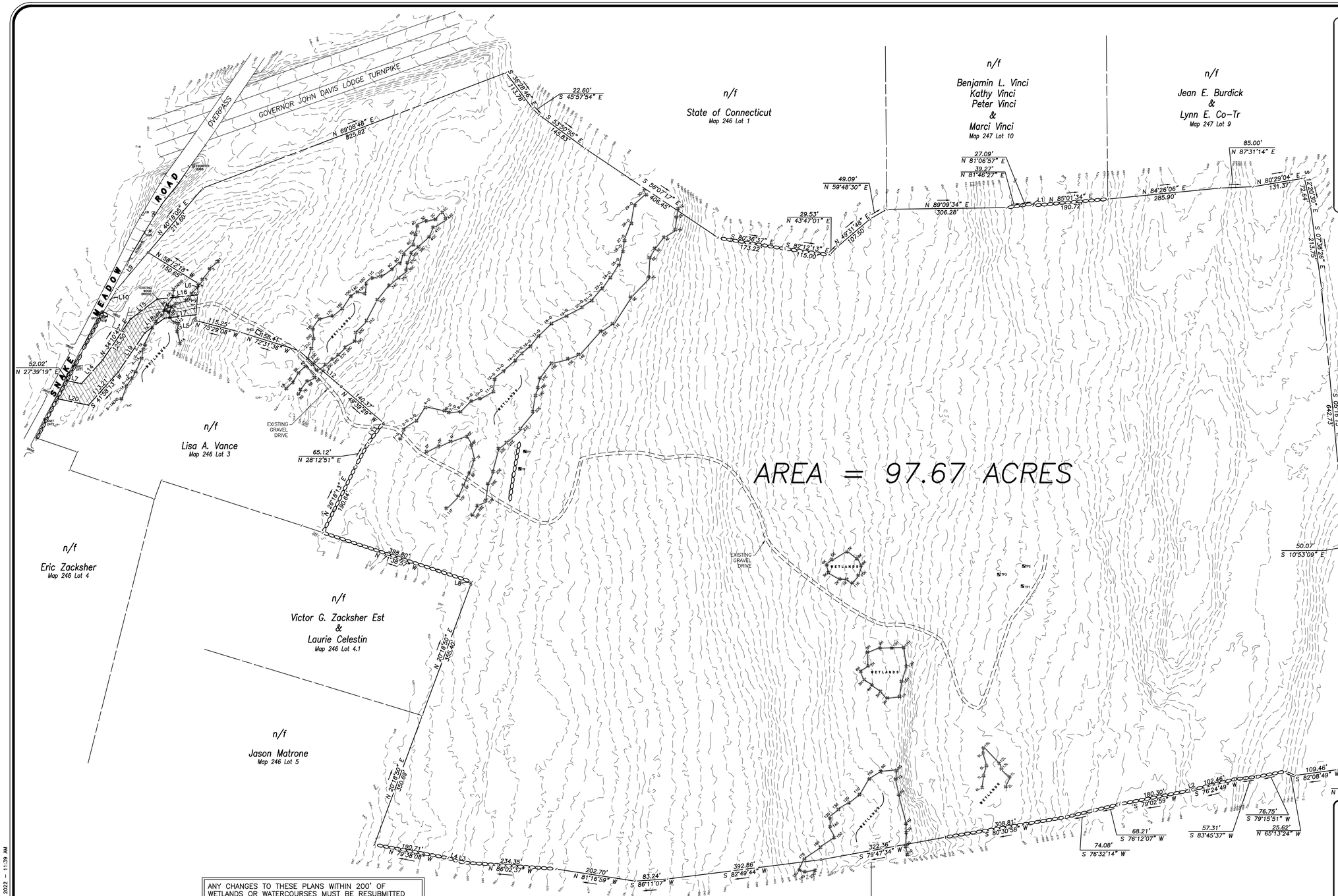
APPLICATION PACKAGE CONTENTS – Inland Wetlands

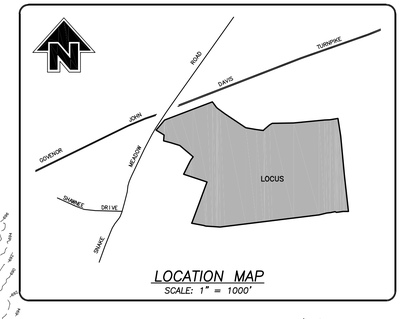
1. Application fee:

   $100.00 (base fee)
   $ 60.00 (State fee)
   $160.00 Total Fee

2. 3- full sized sets of plans & 1- 11 x 17 reduction set– Dated: 06/22/2022
3. Inland Wetlands Application
4. List of adjacent land owners including across the street
5. DEEP Reporting Form
6. Soil Scientist Report
7. Web Soil Survey Map
8. GIS mapping
9. Applicant's Certification

RECEIVED
SEP 29 2022
PLANNING & ZONING DEPT.
TOWN OF KILLINGLY





LOCATION MAP
SCALE: 1" = 1000'

NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996;
   - This survey conforms to a Class "C" horizontal accuracy.
   - Topographic features conform to a Class "T-2", "V-2" vertical accuracy.
   - Survey Type: General Location Survey.
2. This map was prepared from record research, other maps, limited field measurements and other sources, it is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.
3. Zone = RD.
4. Parcel is shown as Lot #2 on Assessors Map #242.
5. Owner of record: American Retaining Wall, LLC
   666 Upper Maple Street Suite A
   Danielson, CT 06239
   See Volume 1375, Page 391
6. Elevations shown are based on NAVD 88 datum. Contours shown are taken from CT Statewide LIDAR & supplemented with actual field survey. Contour interval = 2'.
7. Wetlands shown were delineated in the field by Joeseph Theroux, Certified Soil Scientist, on November 30, 2021.

MAP REFERENCE:

1. "Survey Plan - Prepared for - Mark Greenberg & Associates INC. - Snake Meadow Road - Killingly, Connecticut - Scale: 1" = 20' - Date: 4/27/1989 - Prepared by: KWP Associates".

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

THE APPLICANT WILL CONTACT THE KILLINGLY 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.

APPROVED BY THE TOWN OF
KILLINGLY INLAND WETLANDS COMMISSION

CHAIRMAN DATE

LEGEND

- IRON PIN FOUND
- UTILITY POLE
- CB CATCH BASIN
- 100 EXISTING CONTOURS
- INLAND WETLANDS FLAG
- BL BUILDING SETBACK LINE
- STONE WALL

LINE	BEARING	DISTANCE
L1	S 24°13'34" E	4.88'
L2	S 72°00'23" W	15.51'
L3	N 7°17'21" W	18.55'
L4	N 71°52'49" W	24.60'
L5	N 04°30'03" E	14.80'
L6	N 04°30'03" E	28.52'
L7	S 78°21'06" E	37.56'
L8	N 18°52'44" E	6.92'
L9	N 40°22'01" E	122.46'
L10	N 31°06'09" E	78.45'
L11	N 38°12'13" E	62.33'
L12	N 49°35'09" W	141.91'
L13	N 05°23'57" E	51.83'
L14	N 41°58'13" E	81.13'
L15	N 53°07'44" E	84.74'
L16	N 83°48'48" E	103.70'
L17	S 83°48'39" W	80.54'
L18	S 53°07'44" W	62.68'
L19	S 34°10'47" W	120.56'
L20	N 78°21'30" W	80.59'

DATE	DESCRIPTION
	REVISIONS

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GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE

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GENERAL LOCATION SURVEY

PREPARED FOR

JAMES COLLINS

SNAKE MEADOW ROAD (S.R. 664)
KILLINGLY, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying
114 Westcott Road
P.O. Box 421
Killingly, Connecticut 06241
(860) 779-7299
www.killinglyengineering.com

DATE: 06/22/2022	DRAWN: RGS
SCALE: 1" = 120'	DESIGN: ---
SHEET: 1 OF 8	CHK BY: ---
DWG. No: CLIENT FILE	JOB No: 21112

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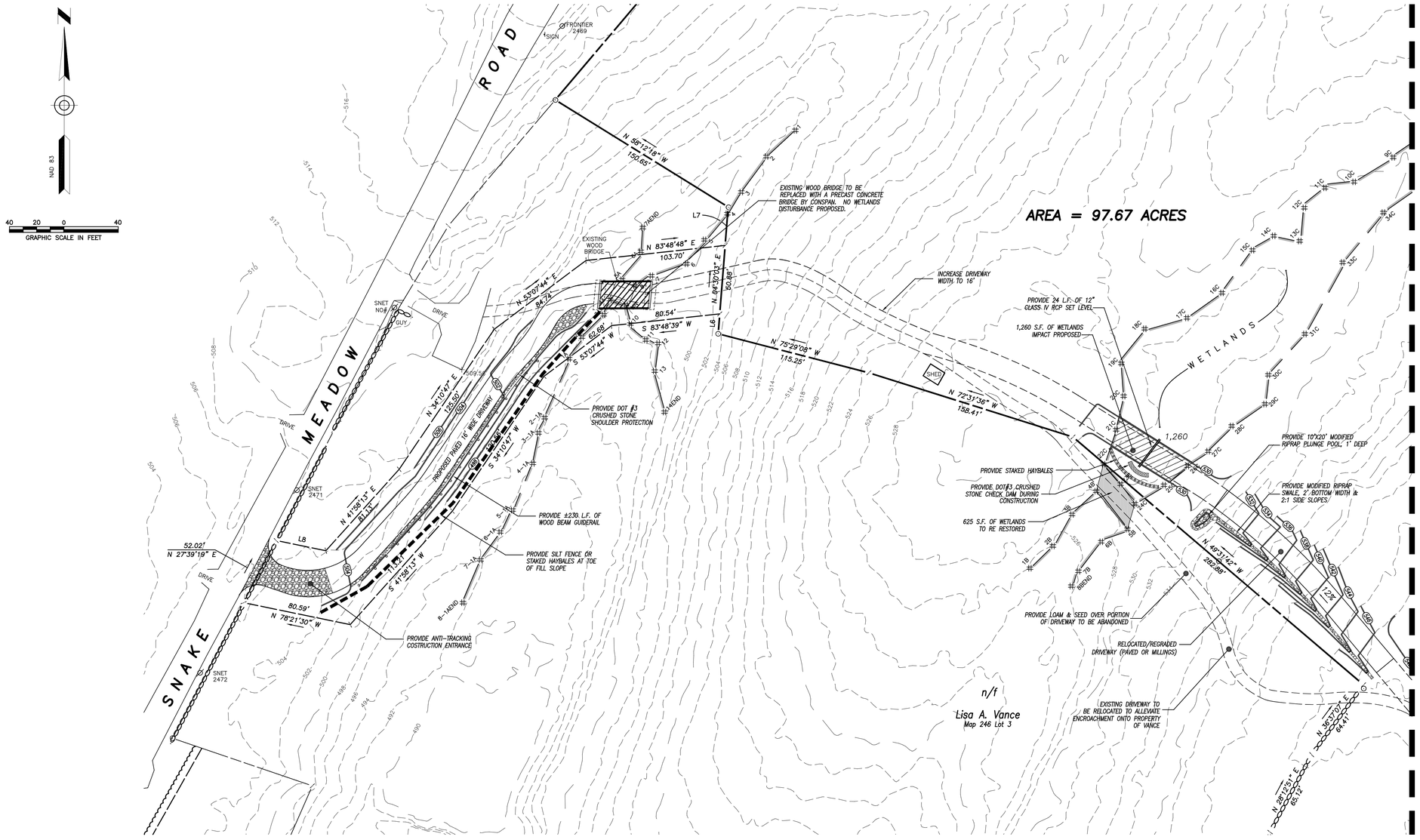

LEGEND

- IRON PIN FOUND
- SIGN
- UTILITY POLE
- CATCH BASIN
- EXISTING CONTOURS
- PROPOSED CONTOURS
- INLAND WETLANDS FLAG
- BUILDING SETBACK LINE
- STONE WALL

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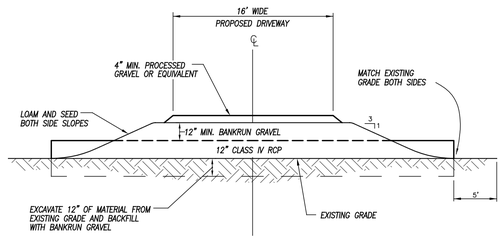
APPROVED BY THE TOWN OF KILLINGLY INLAND WETLANDS COMMISSION

CHAIRMAN DATE



DRIVEWAY CULVERT DETAIL

NOT TO SCALE

DATE	DESCRIPTION

REVISIONS

GENERAL LOCATION SURVEY
PROPOSED DRIVEWAY DESIGN PLAN
PREPARED FOR

JAMES COLLINS

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NORMAND E. THIBEAULT, JR., P.E. DATE
LIC #PEN 0022834

DATE: 06/22/2022	DRAWN: NET
SCALE: 1" = 40'	DESIGN: NET
SHEET: 2 OF 8	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 21112

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NAD 83

40 20 0 40
GRAPHIC SCALE IN FEET

MATCHLINE SHEET 2

MATCHLINE SHEET 4

2,760 S.F. WETLANDS MITIGATION AREA

835 S.F. WETLANDS IMPACT

24 L.F. – 12" CLASS IV RCP SET LEVEL

PROVIDE DOT #3 CRUSHED STONE CHECK DAM DURING CONSTRUCTION

PROVIDE STAKED HAYBALES

24 L.F. – 12" CLASS IV RCP SET LEVEL

465 S.F. WETLANDS IMPACT

PROVIDE DOT #3 CRUSHED STONE, CHECK DAM DURING CONSTRUCTION

PROVIDE STAKED HAYBALES

WETLANDS

WETLANDS

200' UPLAND REVIEW

INCREASE DRIVEWAY WIDTH TO 16'

EDGE OF EXISTING PATH

REGRADE DRIVEWAY & APPLY PAVEMENT OR MILLINGS

PROVIDE 25'X6' MODIFIED RIPRAP LEVEL SPREADER

PROVIDE MOFIED RIPRAP SWALE, 2' BOTTOM WIDTH, 2:1 SIDE SLOPES

TP 561.9

TP

561.6
565.5
568.0
570.4
562.8
565.4
568.8
571.0
563.6
565.7
568.9
572.7
563.2
565.7
572.7
563.4
565.8
568.8
572.6
571.9

N 71°38'57" W
398.80'

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- SIGN
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- CB CATCH BASIN
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- 100 PROPOSED CONTOURS
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PROPOSED DRIVEWAY DESIGN PLAN
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DATE: 06/22/2022	DRAWN: NET
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SHEET: 3 OF 8	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 21112

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NAD 83

40 20 0 40

GRAPHIC SCALE IN FEET

MATCHLINE SHEET 3

AREA = 97.67 ACRES

WETLANDS

200' ULAND REVIEW

SILT FENCE

REGRADE DRIVEWAY WIDTH TO 12% MAX

NOTE: SEE SHEET 5 FOR SEPTIC SYSTEM DESIGN & SITE DEVELOPMENT PLAN

CABANA

POOL

PROPOSED 3 BEDROOM HOUSE

PRIMARY & RESERVE SEPTIC AREAS

TP1

TP2

TP3

PROP. WELL

INCREASE DRIVEWAY WIDTH TO 16'

EXISTING DRIVEWAY

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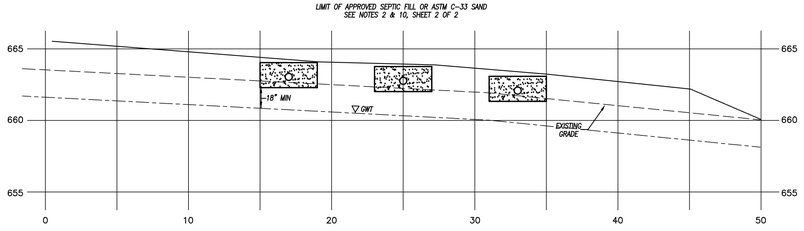


CROSS SECTION "A–A"

SCALE: 1" = 5'

PERCOLATION TEST RESULT – March 23, 2022
NORTHEAST DISTRICT DEPARTMENT OF HEALTH

HOLE 1
Depth = 22" Rate = 6.7 min./in.

Time	Reading
9:35	5"
9:40	7.5"
9:45	9"
9:50	10.5"
9:55	11.5"
10:00	12.5"
10:05	13.25"
10:10	14"
10:15	17.75"

TEST HOLE DATA – March 23, 2022
Northeast District Department of Health

TEST PIT	DEPTH	PROFILE
1	0"–8"	Topsoil/Organics
	8"–23"	Loamy Sand
	23"–60"	Mottled Grey Comp Pan
	60"–73"	Groundwater
	Ledge	N/A
	GWT	60" Seeps @ 39"
	Mottling	23"
	Restrictive	23"
2	0"–13"	Topsoil/Organics
	13"–24"	Loamy Sand
	24"–60"	Mottled Grey Comp Pan
	60"–72"	Groundwater
	Ledge	N/A
	GWT	60" Seeps @ 33"
	Mottling	24"
	Restrictive	24"
3	0"–11"	Topsoil/Organics
	11"–23"	Loamy Sand
	23"–66"	Mottled Grey Comp Pan
	66"–79"	Groundwater
	Ledge	N/A
	GWT	66" Seeps @ 36"
	Mottling	23"
	Restrictive	23"

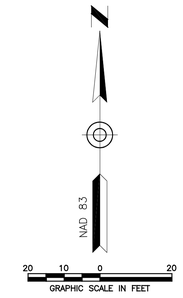
SEPTIC SYSTEM DESIGN DATA

Percolation Rate	=	6.7 min. / in.
4 bedroom house requires	=	577.5 s.f. effective leaching area
Effective Leaching area	=	3 s.f. / l.f. of trench
Length Required	=	577.5/3 = 192.5 l.f.
Length Provided	=	3 (65') = 195 l.f.
Min. Leaching System Spread (MLSS)	=	34 x 1.5 x 1.0 = 51'
MLSS Provided	=	195'

LEACHING FIELD

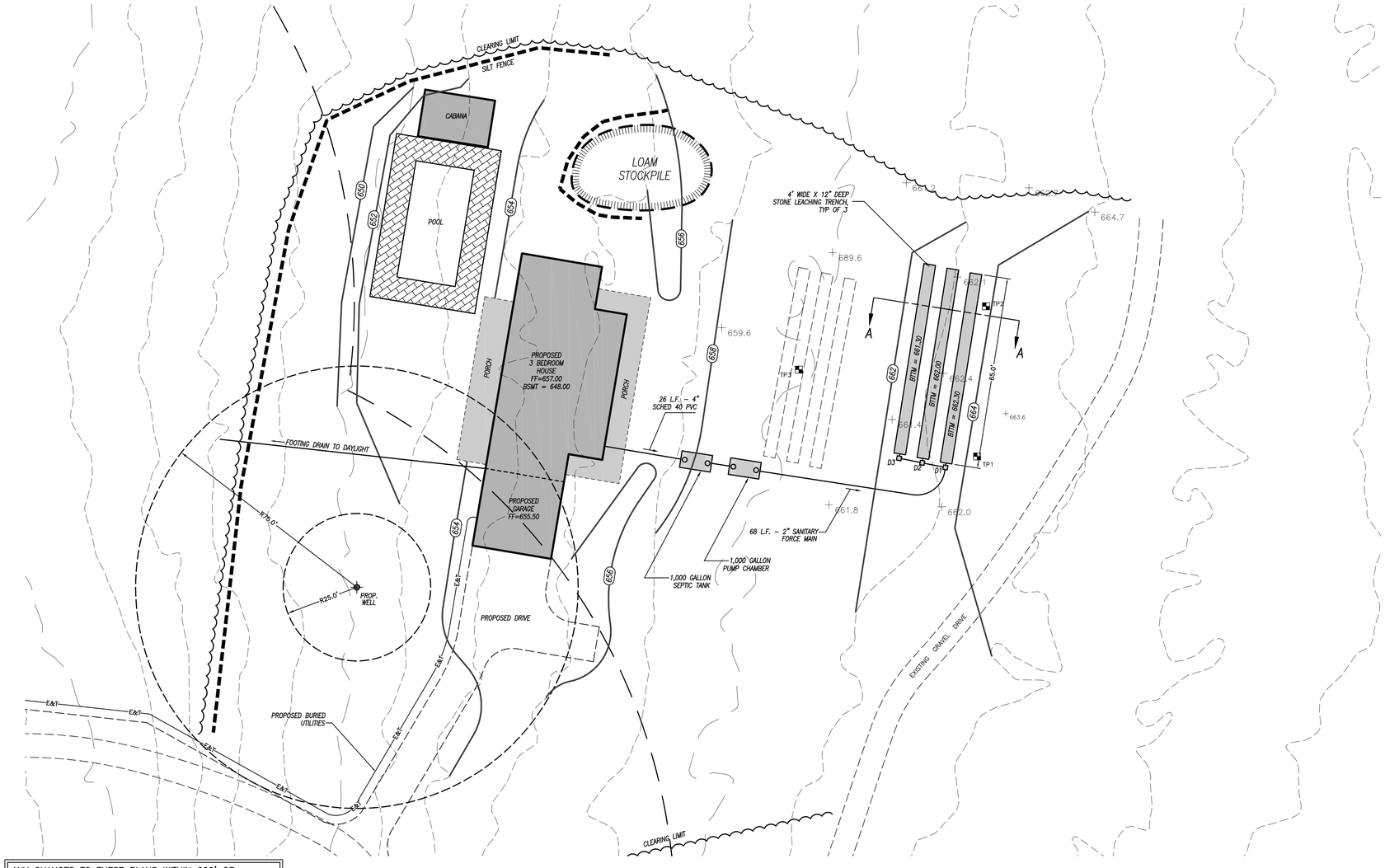
3 Trenches @ 65 l.f. each

Maximum depth into existing grade = 5"



SURVEYOR SHALL SET A BENCH MARK IN THE AREA OF THE SEPTIC SYSTEM AT THE TIME OF CONSTRUCTION STAKE–OUT.

SEPTIC TANK
1000 GALLON TWO COMPARTMENT F/L IN = 663.00 F/L OUT = 662.75
PUMP CHAMBER
1000 GALLON TWO COMPARTMENT F/L IN = 662.50 F/L OUT = 662.25
DISTRIBUTION BOXES
D–1 (BAFFLED W/ OVERFLOW) F/L IN = 662.97 F/L OUT = 662.80 OVERFLOW = 663.05
D–2 (OVERFLOW) F/L IN = 662.67 F/L OUT = 662.50 F/L OUT = 662.75
D–3 (STANDARD) F/L IN = 661.97 F/L OUT = 661.80



LEGEND

F.F.	FINISHED FLOOR
∅	UTILITY POLE
100	EXISTING CONTOURS
100	PROPOSED CONTOURS
#	INLAND WETLANDS FLAG
SB	BUILDING SETBACK LINE
	PERCOLATION TEST HOLE
	TEST HOLE
	STONE WALL
	SILT FENCE

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CHAIRMAN DATE

LINE	BEARING	DISTANCE
L1	S 24°13'34" E	4.88'
L2	S 72°00'23" W	13.51'
L3	N 77°17'21" W	18.55'
L4	N 71°52'49" W	24.60'
L5	N 20°29'50" E	7.00'
L6	N 04°30'03" E	14.80'
L7	N 04°30'03" E	28.52'
L8	S 78°21'30" E	37.56'

NORMAND THIBEAULT, JR., P.E. No. 22834 DATE

NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20–300b–1 through 20–300b–20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996;
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   - Topographic features conform to a Class "T–2", "V–2" vertical accuracy.
   - Survey Type: General Location Survey.
2. This map was prepared from record research, other maps, limited field measurements and other sources, it is not to be construed as a Property/Boundary or Limited Property/ Boundary Survey and is subject to such facts as said surveys may disclose.
3. Zone = RD.
4. Parcel is shown as Lot #2 on Assessors Map #242.
5. Owner of record: Jim Collins
   666 Upper Maple Street Suite A
   Danielson, CT 06239
   See Volume 1375, Page 391
6. Elevations shown are based on an assumed datum. Contours shown are taken from actual field survey. Contour interval = 2'.
7. Wetlands shown were delineated in the field by Joeseph Theroux, Certified Soil Scientist, in November 30, 2021.

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SEPTIC SYSTEM DESIGN PLAN
PREPARED FOR

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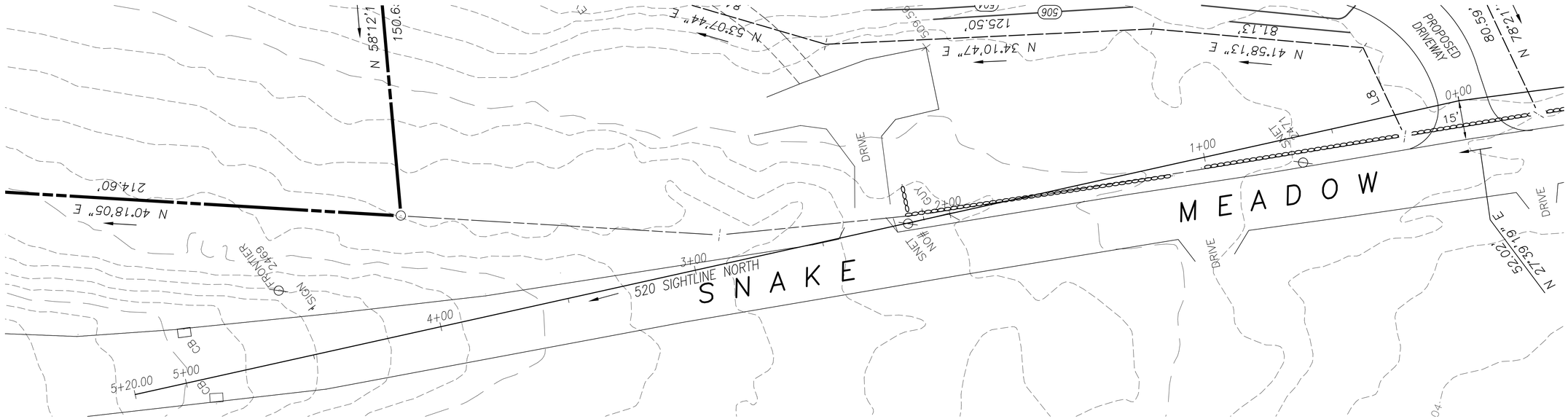


SIGHTLINE PLAN VIEW

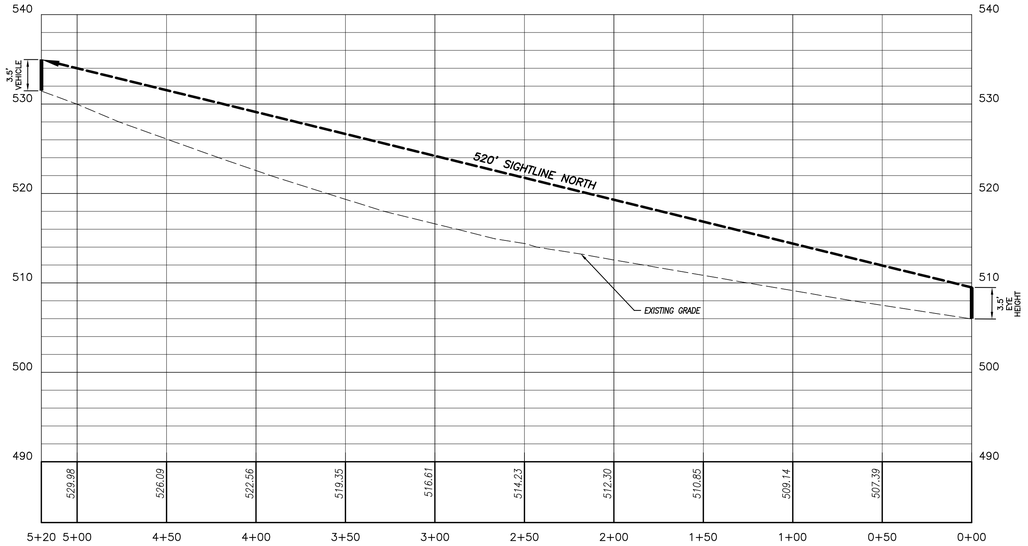
SCALE = 1" = 20'

POSTED SPEED LIMIT = 35 M.P.H.

NAD 83

20 10 0 20

GRAPHIC SCALE IN FEET



SIGHTLINE PROFILE

HORIZONTAL SCALE = 1" = 40'

VERTICAL SCALE = 1" = 4'

40 20 0 40

GRAPHIC SCALE IN FEET

LEGEND

- IRON PIN FOUND
- SIGN
- UTILITY POLE
- CB — CATCH BASIN
- 100 — EXISTING CONTOURS
- 100 — PROPOSED CONTOURS
- INLAND WETLANDS FLAG
- BSBL — BUILDING SETBACK LINE
- STONE WALL

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L1	S 24°13'14" E	4.88'
L2	S 72°00'23" W	15.51'
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L4	N 71°52'49" W	124.69'
L5	N 20°29'50" E	7.00'
L6	N 04°30'03" E	14.80'
L7	N 04°30'03" E	28.52'
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GENERAL LOCATION SURVEY
SIGHT LINE DEMONSTRATION PLAN
PREPARED FOR

JAMES COLLINS

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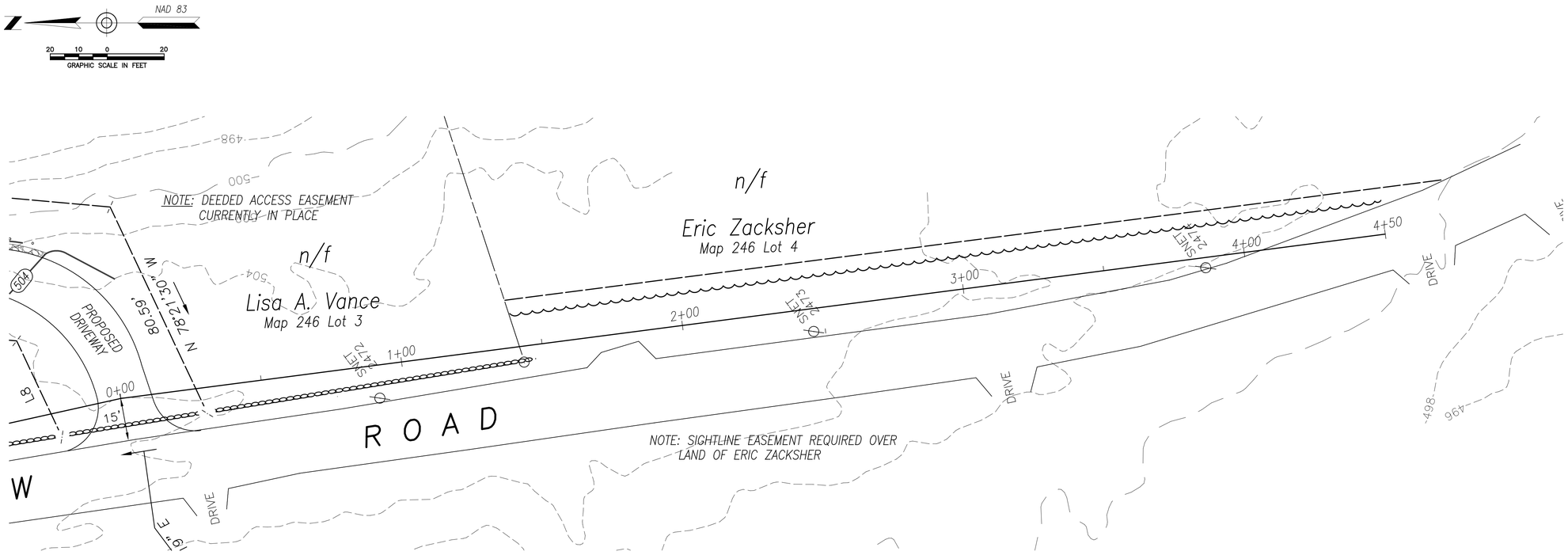

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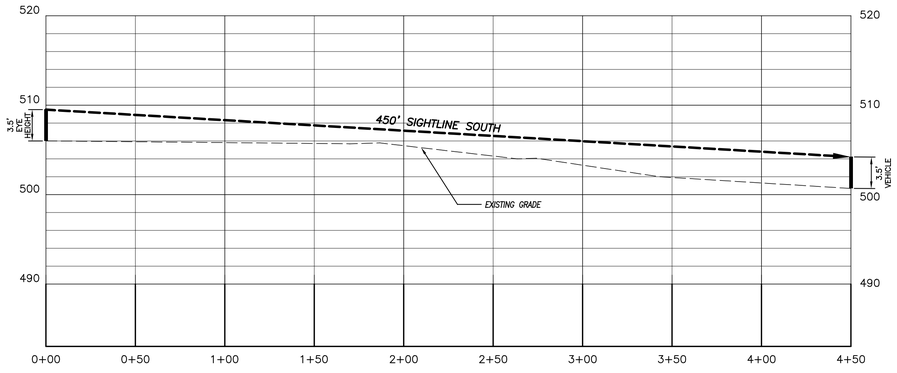
SCALE = 1" = 20'

POSTED SPEED LIMIT = 35 M.P.H.



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40 20 0 40

GRAPHIC SCALE IN FEET

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- BSL — BUILDING SETBACK LINE
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EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, sequencing and construction scheduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and "last things last" with proper attention given to the inclusion of adequate erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or tree wells.
- Route traffic patterns within the site to avoid existing or newly planted vegetation.
- Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential for construction.
- Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into them.
- Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil and the construction of impervious surfaces.

- Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
- Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off-site generated runoff with sediment laden runoff generated on-site until after adequate filtration of on-site waters has occurred.

- Segregate construction waters from clean water.
- Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub-drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off-site damage that it can cause is reduced. It is generally more expensive to correct off-site damage than it is to install proper internal controls.

- Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.
- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off-site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or watercourse.

SEPTIC SYSTEM CONSTRUCTION NOTES

1. The building, septic system and well shall be accurately staked in the field by a licensed Land Surveyor in the State of Connecticut, prior to construction.
2. Topsoil shall be removed and in the area of the primary leaching field scarified, prior to placement of septic fill. Septic fill specifications are as follows:

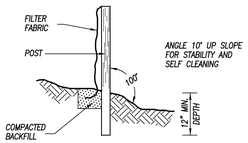
   – Max. percent of gravel (material between No. 4 & 3 inch sieves) = 45%

   GRADATION OF FILL (MINUS GRAVEL)

SIEVE SIZE	PERCENT PASSING (WET SIEVE)	PERCENT PASSING (DRY SIEVE)
No. 4	100%	100%
No. 10	70% – 100%	70% – 100%
No. 40	10% – 50%	10% – 75%
No. 100	0% – 20%	0% – 5%
No. 200	0% – 5%	0% – 2.5%

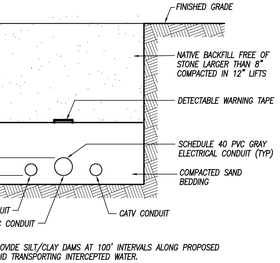
   Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of five feet (5') around the perimeter of the system. Common fill shall extend an additional five feet (5') down gradient of the system (10' total) before tapering off at a maximum slope of 2H:1V.
3. Septic tank shall be two compartment precast 1,500 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
4. Distribution boxes shall be 4 hole precast concrete as manufactured by Jolley Precast, Inc. or equal.
5. All precast structures such as septic tanks, distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.
6. Solid distribution pipe shall be 4" diameter PVC meeting ASTM D–3034 SDR 35 with compression gasket joints. It shall be laid true to the lines and grades shown on the plans and in no case have a slope less than 0.125 inches per foot.
7. Perforated distribution pipe shall be 4" diameter PVC meeting ASTM D–3034 or ASTM F1760 for SDR 35, or ASTM F810 for SDR 38.
8. Sewer pipe from the foundation wall to the septic tank shall be schedule 40 PVC meeting ASTM D 1785. It shall be laid true to the grades shown on the plans and in no case shall have a slope less than 0.25 inches per foot.
9. Solid footing drain outlet pipe shall be 4" Diameter PVC meeting ASTM D 3034, SDR 35 with compression gasketed joints. Footing drain outlet pipe shall not be backfilled with free draining material, such as gravel, broken stone, rock fragments, etc.
10. Septic sand shall meet the requirements of ASTM C–33 with less than 10% passing a 100 sieve and less than 5% passing a 200 sieve

SIEVE SIZE	% PASSING
0.375	100
#4	95–100
#8	80–100
#16	60–85
#30	25–60
#50	10–30
#100	<10
#200	<5



SILT FENCE

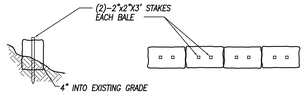
NOT TO SCALE



NOTE: CONTRACTOR SHALL PROVIDE SILT/CLAY DAMS AT 100' INTERVALS ALONG PROPOSED UTILITY TRENCH TO AVOID TRANSPORTING INTERCEPTED WATER.

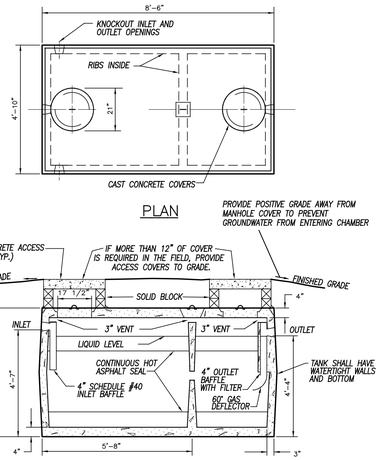
UNDERGROUND UTILITY TRENCH

NOT TO SCALE



HAYBALE BARRIER

NOT TO SCALE

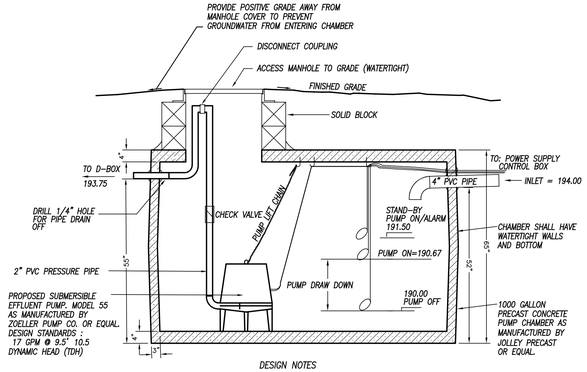


1000 GALLON
2 COMPARTMENT
SEPTIC TANK

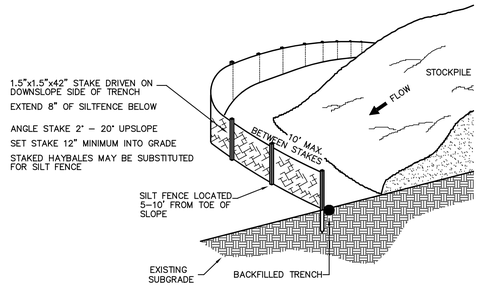
NOT TO SCALE

1000 GALLON SANITARY
PUMP CHAMBER

NOT TO SCALE



1) ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT.
2) ALL INLETS AND OUTLETS HAVE STATE–APPROVED SEALS.
3) AVAILABLE WITH 8" HEAVY DUTY TOP.
4) TYPE II CEMENT ASTM C150–81.
5) CONCRETE STRENGTH 5000 PSI. MIN. 28 DAYS.
6) DOSING AT 15 GALLONS PER SECTION X 11 SECTIONS = 165 GALLONS PER DOSE

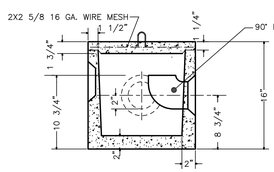


SILT FENCE @ TOE OF SLOPE APPLICATION

NOT TO SCALE

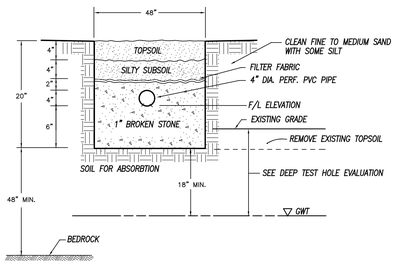
APPROVED BY THE TOWN OF
KILLINGLY INLAND WETLANDS COMMISSION

CHAIRMAN DATE



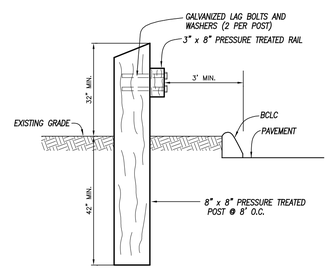
OVERFLOW D–BOX

NOT TO SCALE



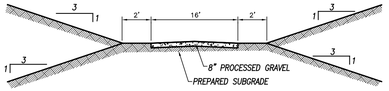
TYPICAL LEACHING
TRENCH SECTION

NOT TO SCALE



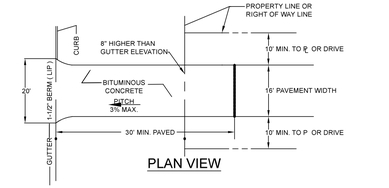
WOOD GUIDE RAIL

NOT TO SCALE

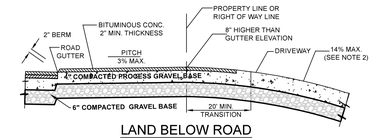


GRAVEL DRIVE DETAIL

NOT TO SCALE



PLAN VIEW

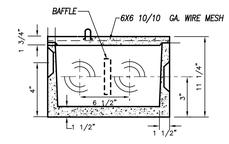


LAND BELOW ROAD

(SECTION)

TOWN OF KILLINGLY
STANDARD DRIVEWAY
DETAIL

NOT TO SCALE



6 HOLE D–BOX W/BAFFLE

NOT TO SCALE

DATE	DESCRIPTION

REVISIONS

DETAIL SHEET

PREPARED FOR

JAMES COLLINS

SNAKE MEADOW ROAD (S.R. 664)
KILLINGLY, CONNECTICUT

NORMAND THIBEAULT, JR., P.E. No. 22834 DATE

Killingly Engineering Associates
Civil Engineering & Surveying
114 Westcott Road
P.O. Box 421
Killingly, Connecticut 06241
(860) 779-7299
www.killinglyengineering.com

DATE: 06/22/2022	DRAWN: RGS
SCALE: NOT TO SCALE	DESIGN: NET
SHEET: 8 OF 8	CHK BY: ---
DWG. No: CLIENT FILE	JOB No: 21112

K:\21112\Drawings\08_Det.dwg Sep 29, 2022 - 12:00 PM

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 # : 22-1555
Date Submitted: 11/7/2022
Date of Receipt by Comm.: 12/5/2022
Fee: ~~$~~ T.O.K.
Staff Initials: AMA

KILLINGLY INLAND WETLANDS & WATERCOURSES COMMISSION APPLICATION

A $100.00 base fee (or, for a proposed subdivision, $100.00 per lot, whichever is greater) **plus** $60.00 state fee must accompany each application **(Total fee: $160.00)**. 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: Town of Killingly
Day Phone #: 860-779-5360 Evening Phone #: _____
Mailing Address: 172 Main ST Killingly CT 06239
Owner of Record: Town of Killingly
Mailing Address: 172 Main St. Killingly CT 06239 Phone #: 860-779-5360

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

Authorization of property owner: _____

LOCATION OF PROPERTY:

House # and Street: 580 Hartford Pike
Tax Map Number: _____ Block: 114 Lot: 43
Zoning District: VC/LD Lot Size: 50 acres Lot Frontage: 420 FT
Easements and/or deed restrictions: _____

PURPOSE:

Provide the purpose and description of the proposed activity, including a list of all proposed regulated activities:
Dredge pond to increase capacity for irrigation of recreational fields

RECEIVED
NOV 07 2022
PLANNING & ZONING DEPT.
TOWN OF KILLINGLY

ON-SITE WETLANDS AND WATERCOURSES:
Windham County wetland soil types and areas of each type: The 1.10 acre of pond sediment surrounding area is comprized of udorthents -complex moderately well drained soils that have been disturbed and are covered by buildings

Watercourse(s) – type (pond, stream, marsh, bog, drainage ditch, etc.), manmade or natural, and area of each:
Pond is 1.10 acre

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:
Well drilling was considered. However use of surface water poses less long term problems than the use of ground water

MATERIALS:
Provide the volume (cubic yard) and nature of materials to be deposited and/or extracted:
approximetly 14,000 cy will be removed from the pond and stored onthe adjacent track infield. once it dewaters the soil will be brought to the Davis property for field construction.

MITIGATIVE MEASURES:
List measures to be taken to minimize or avoid any adverse impact on the regulated area:
SIT Fence and or staked Hay bales/wattles etc. Dewatering Basin

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:
The pond cuttently holds water fowl, fish and other amphibians. The fish will be relocated to the extent possible. The habitat will be restored once dredging is completed.

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: Daniel Cepurka Date: 10/24/22

Owner of Record: Town of Killingly Date: 10/24/22

1003
97.89
IP1 SET

94.65
INV IN

95.06
MW2

98.07
MW1

98.69
MAG3

118
95.36
W.E

VOLUME: 904,622.33 GAL
AREA: 1.1 AC
DEPTH: 5 FT
TOP OF WATER: 95.00 FT
BOTTOM OF POND: 90.00 FT

90.00
91.00
92.00
93.00
94.00
95.00

95.92
MW3

97.16
MAG1

96.31
MAG4

Proj. Mgr.:	
Designed : A.E.	
Drawn : A.E.	
Checked : ___	
Scale : 1"=30'	
Date : JULY, 2021	

TOWN OF KILLINGLY
ENGINEERING DEPARTMENT
172 MAIN STREET DANIELSON, CONNECTICUT 06239
(860) 779-5360 fax (860) 779-5367

OWEN BELL PARK
EXISTING POND

TOWN OF KILLINGLY
ENGINEERING DEPARTMENT

N

250.6

101.14
MAG2

1003
97.89
IP1 SET

94.63
INV

95.06
MW2

98.07
MW1

98.69
MAG3

TREES TO BE REMOVED

27.8612

47.5713

37.8886

39.8210

LIMITS OF EXISTING POND

VOLUME: 4,088,866.49 GAL
AREA: 1.35 AC
DEPTH: 13.33 FT
CUT: 13802.64 CY
TOP OF WATER: 95.00 FT
BOTTOM OF POND: 81.67 FT

82.00
85.00
90.00
95.00

97.16
MAG1

96.31
MAG4

250

290

0 40' 80'

Proj. Mgr.:	
Designed : A.E.	
Drawn : A.E.	
Checked : ___	
Scale : 1"=30'	
Date : JULY, 2021	

TOWN OF KILLINGLY
ENGINEERING DEPARTMENT
172 MAIN STREET DANIELSON, CONNECTICUT 06239
(860) 779-5360 fax (860) 779-5367

OWEN BELL PARK
PROPOSED POND #1

TOWN OF KILLINGLY ENGINEERING DEPARTMENT

N

250.6

101.14
MAG2

1003
97.89
IP1 SET

94.65
INV

95.06
MW2

98.07
MW1

98.69
MAG3

118
95.36
W.E

VOLUME: 3,161,987.788 GAL
AREA: 1.1 AC
DEPTH: 13.3 FT
CUT: 11,177.49 CY
TOP OF WATER: 95.00 FT
BOTTOM OF POND: 81.67 FT

95.32
MW3

82.00
85.00
90.00
95.00

97.16
MAG1

96.31
MAG4

250

260

0 40' 80'

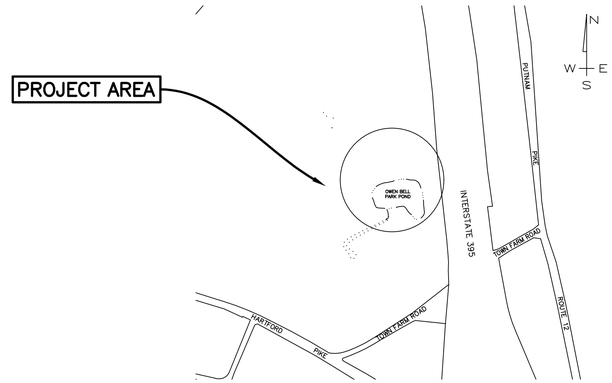
Proj. Mgr.:	
Designed : A.E.	
Drawn : A.E.	
Checked : ___	
Scale : 1"=30'	
Date : JULY, 2021	

TOWN OF KILLINGLY
ENGINEERING DEPARTMENT
172 MAIN STREET DANIELSON, CONNECTICUT 06239
(860) 779-5360 fax (860) 779-5367

OWEN BELL PARK
PROPOSED POND #2

TOWN OF KILLINGLY ENGINEERING DEPARTMENT

TOWN OF KILLINGLY
PLANS



LOCATION PLAN

NOT TO SCALE

FOR IMPROVEMENTS TO

OWEN BELL PARK POND

LEGEND

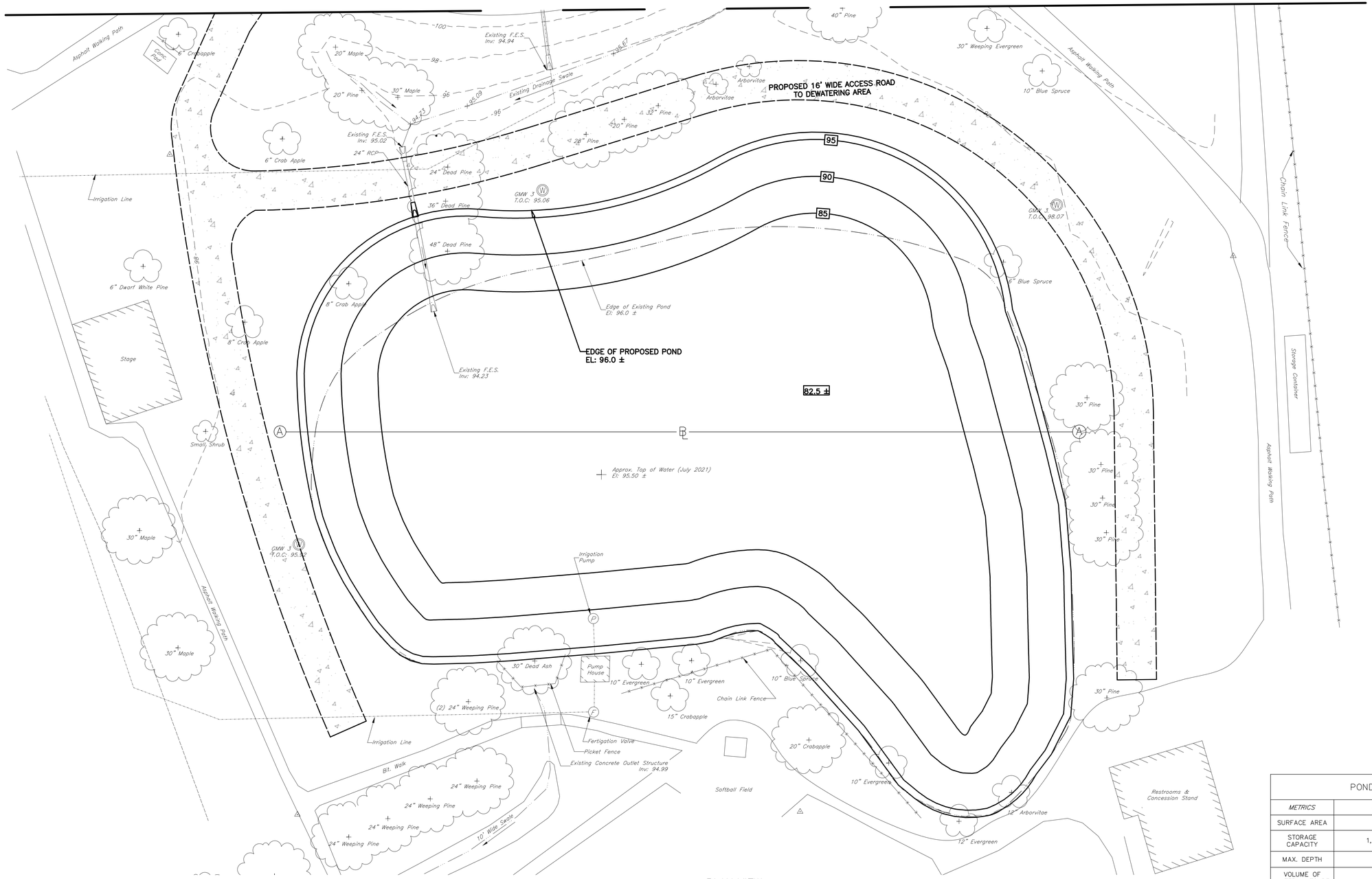
----------	IRRIGATION LINE
————	APPROX. RIGHT OF WAY LINE
-+-+-+-+-	SILT FENCE
	IRON PIN FOUND
	SURVEY TRAVERSE POINT
	UTILITY POLE
WV	WATER GATE
	EXISTING CATCH BASIN
	TEST PIT
V.C.T.P.	VITRIFIED CLAY TILE PIPE
P.V.C.	POLYVINYL CHLORIDE PIPE
R.C.P.	REINFORCED CONCRETE PIPE

PREPARED BY
ENGINEERING DEPARTMENT

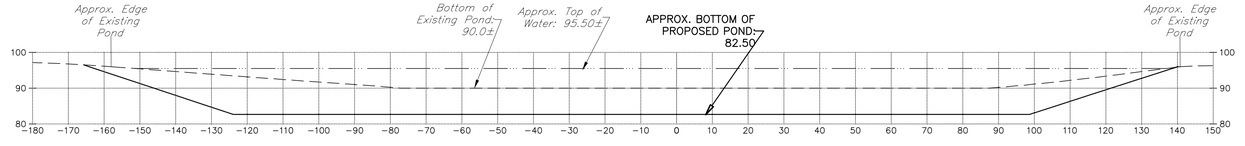
NOVEMBER, 2022

INDEX TO DRAWINGS

MATCH LINE SEE SHEET 3



PLAN VIEW
1"=20'



SECTION VIEW
H: 1"=20'
V: 1"=20'

POND COMPARISON TABLE		
METRICS	EXISTING POND	PROPOSED POND
SURFACE AREA	51,047 SF	58,997.15 SF
STORAGE CAPACITY	1,306,135.562 GAL	4,088,761.656 GAL
MAX. DEPTH	+/- 4.5 FT	+/- 13 FT
VOLUME OF MATERIAL TO BE REMOVED	-	14,495.50 CY

DREDGING PLAN & SECTION

TOWN OF KILLINGLY, CT
Engineering Department

PROPOSED IMPROVEMENTS
TO
OWEN BELL PARK POND

drawn by	checked by	date	scale	sheet no.
A.B.E.		NOV. 22'	AS SHOWN	2 OF 4

N
W
E
S

Existing F.E.S.
Inv: 99.65
Block Ret. Wall
Shed
18" RCP
Existing Drainage Swale
8" HDPE (Full of Debris)
Inv: 100.27
Inv: 100.10
Paved Shoulder
Existing F.E.S.
Inv: 97.24
Asphalt Walking Path
24" RCP
6" Hemlock
6" Hemlock
40" Pine
-102-
-100-
-98-
-100-
-98-

Yard Drain 2 (Not Found)
TF: 100.96
Inv: 97.95
Yard Drain 3
TF: 100.81
Inv: 97.25
Yard Drain 4
TF: 100.67
Inv: 96.45
8" HDPE
8" HDPE
8" HDPE

Conc. Pad
Yard Drain 1
TF: 100.64
Inv Out: 99.75
8" HDPE
Field Events Area
Soccer Goal
Soccer Field
TP 1
Storage Garage
Conc. Pad
Soccer Goal
Field Events Area
8" HDPE
Type 'CL' CB
Tf: 100.85
Inv Out:
Irrigation Line
15" RCP

PROPOSED DEWATERING SITE
AREA: 173,610 SF

MATCH LINE SEE SHEET 2

Storage Garage
Conc. Pad
36" Ash
30" Ash
30" Dead Ash
-102-
20" Ash
16" Maple
30" Maple
20" Ash
18" Oak
30" Maple
30" Pine
24" Pine

Irrigation Line
8" HDPE
8" HDPE
8" HDPE
Irrigation Line
Yard Drain 5
TF: 100.62
Inv Out: 98.04
Yard Drain 6
TF: 100.94
Inv: 97.25
Yard Drain 7 TF: 100.75
Inv: 96.45
Arborvitae
3'x4' Rock
Asphalt Walking Path
40" Pine
30" Pine
30" Pine
Paved Shoulder
Conc. Pad
Steel Poles
Exercise Bars
Light Pole
6" Dwarf Pine
Exposed Electrical
Conc. Pad
Water Spigot
Conc. Pad
Light Pole
3" Japanese Maple

PROPOSED EROSION CONTROL BARRIER

PROPOSED DEWATERING AREA PERIMETER CONTROL

PLAN VIEW
1"=20'

DEWATERING PLAN

TOWN OF KILLINGLY, CT
Engineering Department

PROPOSED IMPROVEMENTS
TO
OWEN BELL PARK POND

drawn by	checked by	date	scale	sheet no.
A.B.E.		NOV. 22'	AS SHOWN	3 OF 4

GENERAL NOTES:

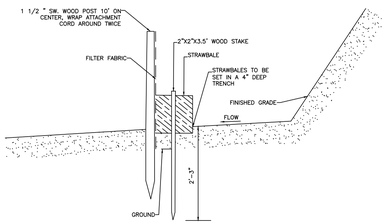
1. THE HORIZONTAL DATUM SHOWN HEREON IS THE NORTH AMERICAN DATUM OF 1983 (NAD 83) CONNECTICUT STATE PLANE COORDINATE SYSTEM, FEET.
2. THE VERTICAL DATUM FOR TOPOGRAPHY SURROUNDING THE POND AND BATHYMETRY IN THE POND REFERENCES NAVD88.
3. POND BOTTOM CONTOURS ARE IN FEET, AND WERE GENERATED USING AUTOCAD CIVIL 3D. DATA TO CREATE CONTOURS FROM WATER DEPTH MEASUREMENTS IN THE FIELD BY THE TOWN OF KILLINGLY STAFF IN JULY 2021 AND CAN ONLY BE CONSIDERED TO REPRESENT CONDITIONS EXISTING AT THAT TIME. THE WATER SURFACE ELEVATION AT THE TIME OF FIELD MEASUREMENTS WAS 95.50 FEET AND ALL WATER DEPTHS ARE REFERENCED TO THIS ELEVATION.
4. PROPOSED DREDGE AND EXCAVATION CONTOURS SHOWN ARE APPROXIMATE. PROJECT OBJECTIVE IS TO DREDGE AND EXCAVATE ACCUMULATED SOFT SEDIMENT WITHIN THE PROJECT LIMITS AND CREATE A BASIN WITH A MAXIMUM DEPTH OF 13 FEET BELOW WATER SURFACE, CONTOURS SHOWN RESULT IN A DREDGE VOLUME OF APPROXIMATELY
5. SEDIMENT DEWATERING TO OCCUR ON ADJACENT SOCCER FIELD TO THE NORTH AS SHOWN ON PLANS.

SEDIMENTATION & EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES, AS SPECIFIED ON THE DRAWINGS AS NECESSARY, AND IS REQUIRED BY THE PERMITS.
2. PERIMETER SOIL, AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITIES, CONTRACTOR TO NOTIFY THE ENGINEER AT LEAST 38 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ALL SOIL AND EROSION CONTROLS SHALL BE CHECKED AND REPAIRED AS NECESSARY BY THE CONTRACTOR.
3. ALL STOCKPILE AREAS SHALL BE SURROUNDED BY EROSION CONTROL BARRIERS UNTIL SUCH TIME AS THE MATERIAL IS RESPREAD AND STABILIZED OR TRANSPORTED OFFSITE.
4. TEMPORARY STOCKPILES OF DREDGED/EXCAVATED MATERIAL SHALL BE LOCATED ON-SITE. WITHIN THE DESIGNATED AREAS, ANY MATERIAL NOT RE-USED ON-SITE SHALL BE TRUCKED TO AN ACCEPTABLE OFF-SITE DISPOSAL LOCATION IN ACCORDANCE WITH THE PROJECTS PERMITS.
5. EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY AND DURING AND AFTER EVERY RAIN EVENT, ANY NECESSARY REPLACEMENT OR REPAIR SHALL BE PERFORMED PROMPTLY BY THE CONTRACTOR.
6. DUST SHALL BE CONTROLLED IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE REGULATIONS.
7. THE CONTRACTOR SHALL PHASE DREDGING OPERATIONS TO MINIMIZE THE AREA DISTURBED OR OPEN TO THE ELEMENTS AT ANY GIVEN TIME.
8. THE SITE SHALL BE LEFT AT A STABLE CONDITION AT THE CLOSE OF EACH DAY.

CONSTRUCTION NOTES:

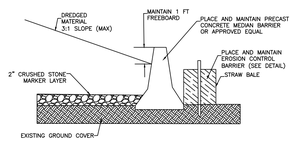
1. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-800-344-7223 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
2. THE CONTRACTOR SHALL, UNDER THE DIRECTION OF THE ENGINEER, ESTABLISH "CONSTRUCTION LIMITS" ON THE SITE BY ACCEPTABLE VISIBLE MARKERS. ALL WORK AND EQUIPMENT SHALL BE CONFINED TO WITHIN THESE LIMITS, UNLESS OTHERWISE SPECIFICALLY AUTHORIZED.
3. NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE ENGINEER & OR THE TOWN OF KILLINGLY.
4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC.
5. ALL SURFACES DISTURBED BY THIS WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AS DETAILED OR SPECIFIED BY THE ENGINEER.
6. DREDGING SEQUENCE SHALL BE COORDINATED TO MINIMIZE DISTURBANCE OF EXISTING CONDITIONS AND OPERATIONS.
7. DREDGING SHALL TAKE PLACE WITHIN APPROVED WORK WINDOWS.
8. ALL EXISTING PIPING AND STRUCTURES EXPOSED DURING EXCAVATION SHALL BE ADEQUATELY SUPPORTED, BRACED, OR OTHERWISE PROTECTED DURING DREDGING ACTIVITIES.
9. WORK SHALL COMPLY WITH APPLICABLE MUNICIPAL, STATE, AND FEDERAL PERMITS AND REQUIREMENTS.
10. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH ALL AUTHORIZATIONS NECESSARY FOR CONSTRUCTION AND DREDGED MATERIAL TRANSPORT VEHICLE ENTRY/EXIT/TRAVEL ON STATE AND LOCAL ROADS.
11. NO DREDGED MATERIAL CONTAINING FREE DRAINING LIQUIDS (AS DETERMINED BY THE EPA PAINT FILTER TEST) SHALL BE TRANSPORTED OVER STATE OR LOCAL ROADS.



SECTION

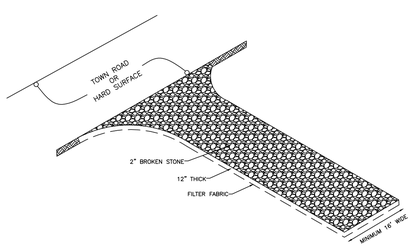
STRAWBALES AND SILT FENCE (EROSION CONTROL BARRIER)

N.T.S.



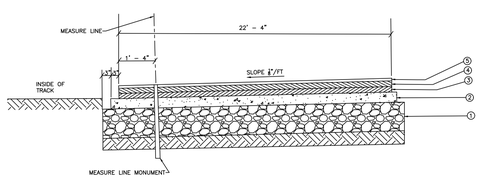
DEWATERING AREA PERIMETER CONTROL

N.T.S.



STABILIZED TEMPORARY CONSTRUCTION ENTRANCE

N.T.S.



RESILIENT TRACK SURFACE

N.T.S.

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF KILLINGLY

PROJECT NAME: PROPOSED EXPANSION OF POND AT OWEN BELL PARK
LOCATION: 550 HARTFORD PKE., KILLINGLY, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET: LINE & STA. / N. COORDINATE / E. COORDINATE

SURFACE ELEV.: HOLE NO. MW-1
GROUND WATER OBSERVATIONS: AT 5.0 FT. AFTER 0 HOURS — START DATE 4/14/21
AT FT. AFTER HOURS — FINISH DATE 4/14/21

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	3-4-8-9	0.0'-2.0'		TOPSOIL — 1.0	
					LIGHT BR.FINE SAND AND SILT — 2.0	
	2	4-4--2-3	2.0'-4.0'		LIGHT GREY/BR.SILT, SOME FINE SAND	
5	3	2-2-2-5	4.0'-6.0'			
	4	8-8-9-12	6.0'-8.0'			
10	5	6-20-28	10.0'-11.5'		GREY/BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL — 10.5	
					DARK GREY/BR.FINE-CRS.SAND, LITTLE GRAVEL, TRACE SILT, FEW COBBLES — 13.0	
15	6	20-28-20	15.0'-16.5'			
					GREY/BR.FINE-CRS.SAND, SOME SILT, LITTLE GRAVEL — 18.0	
20	7	13-20-25	20.0'-21.5'			
25	8	27-23-17	25.0'-26.5'			
					BOTTOM OF BORING @ 26.5' — 26.5	
30					2" DIA.WELL @ 25.0'	
					10.0' SCREEN	
					14.5' RISER	
					SAND FROM 26.5' TO 20.0'	
					BACKFILLED FROM 20.0' TO 14.0'	
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:
SHEET 1 OF 2 | HOLE NO. MW-1

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF KILLINGLY

PROJECT NAME: PROPOSED EXPANSION OF POND AT OWEN BELL PARK
LOCATION: 550 HARTFORD PKE., KILLINGLY, CT

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET: LINE & STA. / N. COORDINATE / E. COORDINATE

SURFACE ELEV.: HOLE NO. MW-2
GROUND WATER OBSERVATIONS: AT 3.0 FT. AFTER 0 HOURS — START DATE 4/14/21
AT FT. AFTER HOURS — FINISH DATE 4/14/21

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	1-2-3-3	0.0'-2.0'		TOPSOIL	
	2	3-5-18-15	2.0'-4.0'		DARK GREY/BR.FINE-CRS.SAND, LITTLE GRAVEL, TRACE SILT, FEW COBBLES — 3.0	
5	3	11-28-32-18	4.0'-6.0'			
10	4	12-26-40	10.0'-11.5'			
15	5	9-27-29	15.0'-16.5'			
					GREY FINE-MED.SAND, SOME SILT, LITTLE GRAVEL — 18.0	
20	6	8-14-17	20.0'-21.5'			
25	7	17-26-29	25.0'-26.5'			
					BOTTOM OF BORING @ 26.5' — 26.5	
30					2" DIA.WELL @ 24.5'	
					10.0' SCREEN	
					14.0' RISER	
					SAND FROM 26.5' TO 13.0'	
					BENTONITE SEAL FROM 13.0' TO 11.0'	
					BACKFILLED FROM 11.0' TO SURFACE	
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:
SHEET 1 OF 1 | HOLE NO. MW-2

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF KILLINGLY

PROJECT NAME: PROPOSED EXPANSION OF POND AT OWEN BELL PARK
LOCATION: 550 HARTFORD PKE., KILLINGLY, CT

SURFACE ELEV.: HOLE NO. MW-3
GROUND WATER OBSERVATIONS: AT 4.0 FT. AFTER 0 HOURS — START DATE 4/14/21
AT FT. AFTER HOURS — FINISH DATE 4/14/21

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	2-3-15-13	0.0'-2.0'		TOPSOIL	
					BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL - FILL — 1.0	
	2	4-3-2-3	2.0'-4.0'		TOPSOIL - FILL — 2.0	
5	3	2-3-1-6	4.0'-6.0'		GREY/BR.SILT AND FINE SAND — 4.0	
10	4	11-7-9	10.0'-11.5'		GREY FINE-CRS.SAND, LITTLE GRAVEL, TRACE SILT — 9.0	
15	5	5-8-17	15.0'-16.5'			
					GREY FINE-MED.SAND, SOME SILT, TRACE GRAVEL — 16.0	
20	6	4-6-60	20.0'-21.5'			
	7	60	22.0'-22.1'		BOTTOM OF BORING @ 22.0' (AUEGR REFUSAL) — 22.0	
25					2" DIA.WELL @ 21.5'	
					10.0' SCREEN	
					11.0 RISER	
					SAND FROM 22.0' TO 9.0'	
					BENTONITE SEAL FROM 9.0' TO 7.0'	
30					BACKFILLED FROM 7.0' TO SURFACE	
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:
SHEET 1 OF 1 | HOLE NO. MW-3

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF KILLINGLY

PROJECT NAME: PROPOSED EXPANSION OF POND AT OWEN BELL PARK
LOCATION: 550 HARTFORD PKE., KILLINGLY, CT

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
40					BENTONITE SEAL FROM 14.0' TO 12.0'	
					BACKFILLED FROM 12.0' TO SURFACE	
45						
50						
55						
60						
65						
70						
75						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:
SHEET 2 OF 2 | HOLE NO. MW-1

GEOTECHNICAL BORING LOGS

DETAILS & NOTES

TOWN OF KILLINGLY, CT
Engineering Department

PROPOSED IMPROVEMENTS
TO
OWEN BELL PARK POND

drawn by	checked by	date	scale	sheet no.
A.B.E.		NOV. 22'	AS SHOWN	4 OF 4

All Habitat SERVICES, LLC.

CT DEEP #PMBR.02020
NYS DEC# 13326
CT HIC.0647669

2 Tipping Drive
P.O. Box 231
Branford, CT 06405
Phone: 203.245.1212
www.allhabitat.com

October 19, 2022

Meriam and Joel Smith
10 Kies Road
Killingly, CT 06239

Dear Meriam and Joel,

Thank you for your interest in All Habitat Services, LLC for invasive species management needs at your 10 Kies Rd property in Killingly, CT. Based on our site visit and the provided CT DEEP forester recommendations, we are pleased to offer the following proposal for your consideration.

Within your 33-acre property, several areas have been identified for invasive species management. The primary area of concern is the wetland forest stand (Stand 2) containing understory with dominant infestations of Japanese barberry (*Berberis thunbergii)*, multiflora rose (*Rosa multiflora)*, Oriental bittersweet (*Celastrus orbiculatus*), bush honeysuckles (*Lonicera spp.),* winged euonymus (*Euonymus alatus*), and Japanese stilt grass (*Microstegium vimineum*). The stonewall boundary around the house and fields and up to the forest edge is currently threatened by pressure from Japanese barberry (*Berberis thunbergii)*, multiflora rose (*Rosa multiflora)*, Oriental bittersweet (*Celastrus orbiculatus*), poison ivy (*Toxicodendron radicans),* bush honeysuckles (*Lonicera spp.),* winged euonymus (*Euonymus alatus*), Japanese stilt grass (*Microstegium vimineum*), Japanese knotweed (*Polygonium cuspidatum*), and wild grape vine (*Vitis riparia*). In addition, the fields to the north and east of the house that have been proposed for pollinator habitat conversion are currently a mix of orchard grasses and infestations of Japanese stilt grass (*Microstegium vimineum*). These areas range in density from low to moderate and will managed using methods and chemical prescriptions based on the phenological differences of the plants.

Invasive shrub, tree and vine species colonize by root sprouts and seeds that are dispersed primarily by birds. They form dense stands in the understory of bottomland forests and exclude native plants, drastically altering wildlife habitat. In Stand 2, the best method of control for these species on wetland soils is with a selective spot spray application of a thin invert emulsion comprised of the aquatic labelled herbicides Roundup Custom® (Glyphosate) and Polaris AC Complete® (Imazapyr) at a rate of five gallons per acre to the target vegetation. As the herbicide contacts the foliage, it moves through the plant structures into the root system where it disrupts plant growth cycles. Application will be conducted on-foot with low-volume backpack sprayers to reduce drift and any off-target damage to native vegetation.

Along the stonewall, we suggest a thin invert emulsion foliar application with 8% Rodeo® (Glyphosate), 1% Polaris® (Imazapyr), and 0.5% Escort XP® (Metsulfuron methyl) at a rate of five gallons per acre to the target shrub and herbaceous vegetation. Tall growing or large diameter tree, shrub, and vine species such as Oriental bittersweet (*Celastrus orbiculatus*), bush

honeysuckles (*Lonicera spp.),* and winged euonymus (*Euonymus alatus*) will be controlled using basal bark applications of an herbicide with the active ingredient Triclopyr in an ester formulation, such as Garlon4®, mixed in a methylated seed oil carrier. This herbicide penetrates the bark and is translocated throughout the plant, killing the root system. This application is conducted using a low-volume backpack sprayer to wet the entire circumference of the bottom 12 inches of the stem.

To control infestations of Japanese stilt grass (*Microstegium vimineum*) and established grasses in the fields, we recommend a broadcast application of the broad spectrum herbicides Rodeo® (Glyphosate) and Plateau® (Imazapic). These herbicides will efficiently translocate throughout the plant, immediately arresting the growth cycle and limiting the extent of their above ground biomass. Application will be conducted using a UTV machine with a 50- gallon spray tank and low-pressure adjustable spray gun to treat the target areas. We must treat the fields with an herbicide application to ensure any existing grasses, noxious weeds and invasive species have been removed prior to pollinator habitat seeding. Once at least two broadcast herbicide treatments are complete, the entire area should be mowed and cleared of any small debris (i.e. rocks, roots, small branches, etc.) prior to seeding. Once all site preparation is completed, we will bring our GreenScape® seeder to the site in Fall 2024. The seeder is a multi-step system that aerates the soil, drills holes for the seed, and then drills the seed into the provided holes at a pre-set depth.

Based on the prescription we have developed and the density of target species within the management area, we have produced the following assessment of treatment costs.

10 Kies Road Invasive Species Management 2 Year Plan & Pricing				
Work Activity	**Target Area**	**Acreage**	**Price Per Acre**	**Total Cost**
2023				
Selective Herbicide Application with Follow-up	Stand 2	6.5	$880.00	$5,720.00
Selective Herbicide Application with Follow-up	Stonewalls	0.2	$880.00	$176.00
Total Cost 2023				**$5,896.00**
2024				
Selective Herbicide Application with Follow-up	Stand 2	6.5	$640.00	$4,160.00
Selective Herbicide Application with Follow-up	Stonewalls	0.2	$640.00	$128.00
Broadcast Herbicide Applications (2)	Fields	1.5 (2)	$600.00	$1,800.00
Site Preparation (Mowing, York raking, etc.)	Fields	1.5	$1,800.00	$2,700.00
*Conservation Drill Seeding	Fields	1.5	$2,200.00	$3,300.00
Total Cost 2024				**$12,088.00**

*Conservation drill seeding not inclusive of seed cost. Seed to be purchased by client in advance of scheduled seeding date (to be determined). Seed availability and prices are subject to changes.

We are confident that the treatment prescription and methods outlined above will provide the best control of the target species. The proposed prescriptions can be sequenced to coincide with specific management priorities. Follow up treatments will take place 4-6 weeks after the initial treatments as needed. Continued site monitoring in concurrence with best management practices will aid in producing the desired reduction of the target invasive species in the management areas.

It is a pleasure to have the opportunity to be considered for this project and we hope that this proposal meets with your approval. Please feel free to contact us again if we may be of any further assistance to you.

Best Regards,

David Roach PMCS.0003538
General Manager
All Habitat Services, LLC

Invasive Species Management

Meriam and Joel Smith
10 Kies Road
Killingly,CT 06239

TOWN OF KILLINGLY

INLAND WETLANDS AND WATERCOURSES COMMISSION (IWWC)
Killingly Town Hall
172 Main Street
Danielson, CT
REGULAR MEETING MINUTES
Monday, May 2, 2022 @ 7:00 PM

This meeting was held in person and virtual with connections via live stream and video conferencing.

I. Call to order: Chairman Sandy Eggers called the meeting to order at 7:03 p.m.

Members Present: Chairman Sandy Eggers, Vice Chairman Rodney Galton, Fred Ruhlemann & Corina Torrey.

Also Present: Jonathan Blake, Town Planner/Zoning Enforcement Officer.

II. Adoption of Minutes:

A. February 7, 2022 Regular Meeting:

MOTION #1 made by Rodney Galton **SECONDED BY** Fred Ruhlemann that the Inland Wetlands and Watercourses Commission approve February 7, 2022 Regular Meeting Minutes – as presented
VOICE VOTE: UNANIMOUS; **MOTION CARRIED**

III. Citizens' Participation:

Mark Allaire was present to ask for direction from the Commission regarding his proposed activity of creating an agricultural pond. He noted there is no encroachment to wetlands. There is a natural spring on site that runs year round.

Mr. Blake noted the proposed activity is a use as of right. Rodney Galton recommended review by Army Corp of Engineers/USDA if there is any re-direction of water flow / watercourse as a result of creating the pond.

Overall, IWWC recommended Mr. Allaire review proposed activity with the USDA.

IV. Unfinished Business:

A. **Application #21-1544, Erik Brown:** for construction of single family residence with driveway, house, well, and septic system in the 200' upland review area; 189 Coomer Hill Rd., Map ID 9057; Alt ID 171-19; Rural Development Zone

APPLICANT / PRESENTATION: Mr. Greg Glaude, Killingly Engineering Associates, was present to represent the applicant. Mr. Glaude reviewed project activities and referred to the site plan as submitted. Wetlands were delineated by Mr. Joseph Theroux, Professional Soil Scientist. NDDH approval has been received and submitted into the record. It was noted, there is the possibility of a shared driveway.

IWWC COMMENTS: There is concern the proposed driveway is in close proximity to wetlands. The Commission referenced prudent alternatives and recommended the driveway entrance be changed to come off Coomer Hill Extension.

Mr. Glaude respectfully noted he looked into that as an option but determined such a re-design would only gain approximately 5 feet. Mr. Glaude offered installation of a grass swale along the eastern side of the proposed driveway to manage water flow and minimize potential for erosion in the area.

MOTION #2 made by Rodney Galton **SECONDED BY** Fred Ruhlemann that the Inland Wetland and Watercourses Commission approve Application #21-1544, Erik Brown, with the following condition:

1. Design is modified to include grass swale along the east side of the driveway

VOICE VOTE: UNANIMOUS; **MOTION CARRIED**

V. New Business:

VI. Correspondence to the Commission:

Revision Policy for Sale of Town Land: This revision is to outline what Town-owned properties should be eligible for sale; partially land acquired as part of sub-divisions, tax sale, estates, conservation, recreational use, and open space etc. IWWC ideas, changes, additions are welcomed and will be passed to the town manager for consideration.

VII. Staff Report:

A. Authorized Agent Approval:

1. App #22-1545 of Michael & Tina Leavitt for construction of new single-family residence, well, septic system and driveway within 200' upland review area; 380 Ledge Road; Map ID 10008, Alt ID 169-3.2; RD Zone – Authorized Agent Approved with conditions on April 13, 2022. Legal Ad was published on April 15th. No action required.
2. App #22-1543 of William & Kellee Peckham for demolition of existing cottage and construction of new single-family residence (31' x 42' footprint including front porch & 10' x 27' rear deck); 4 Lawton Ln; Map ID 4281, Alt ID 87-31; RD Zone / ALZOD – Authorized Agent Approved with conditions on March 22, 2022. Legal Ad was published on March 25, 2022. No action required.

B. Monthly Zoning/Wetlands Report: N/A

C. Other: N/A

VIII. Town Council Liaison:

IX. Adjournment:

MOTION #3: made by Rodney Galton **SECONDED BY** Corina Torrey that the Inland Wetland Watercourses Commission adjourns the meeting at 7:56 PM.
VOICE VOTE: UNANIMOUS; **MOTION CARRIED**

Respectfully submitted,
Sherry Pollard,
IWWC Recording Secretary