INLAND WETLANDS
COMMISSION
Telephone (203) 563-0180
Fax (203) 563-0284

TOWN HALL
238 Danbury Road
Wilton, Connecticut 06897

APPLICATION FOR A SIGNIFICANT REGULATED ACTIVITY

For Office Use Only:

WET#_____

Filing Fee $_____ Wilton Land Record Map# _____

Date of Submission _____ Volume # _____ Page # _____

Date of Acceptance_____ Assessor's Map # _____ Lot# _____

APPLICANT INFORMATION:

Applicant CHRISTOPHER SMITH

Address 12 MIDDLEBROOK LANE
WILTON, CT 06897

Telephone _____

Email cdsmith81@gmail.com

Agent (if applicable) KATE THROCKMORTON (ELS)

Address 8 KNIGHT ST, STE 203
NORWALK, CT 06851

Telephone 203-855-7879

Email Kate@elsllc.net

PROJECT INFORMATION:

Property Address 230 RIDGEFIELD RD

Acres of altered Wetlands On-Site 0.9 AC

Linear Feet of Watercourse 1915' ±

Linear Feet of Open Water -0-

Sq. Ft. of proposed and/or altered impervious coverage -0-

Site Acreage 20.49± AC.

Cu. Yds. of Material Excavated 18 YD±

Cu. Yds. of Material to be Deposited 40 YD±

Acres of altered upland buffer 0.3AC (14,400 SF)

Sq. Ft. of disturbed land in regulated area 0.9AC (43,500 SF)

APPLICATION REQUIREMENTS:

Is The Site Within a Public Water Supply Watershed Boundary? NO ✓ YES* ____

Is The Site Within 500 Feet of a Town Boundary? NO ✓ YES* ____

* If the answer is yes, then the applicant is responsible for notifying the appropriate water authority and/or adjoining community's Wetlands Department. Instructions for notification are available at the office of the commission.

Project Description and Purpose: Resolve a cease + desist for clearing + Trail work in and around the on site wetland + watercourse. Removal of a dam.. See report for additional information.

In addition, the applicant shall provide eleven (11) collated copies of the following information as well as an electronic submission via email to mike.conklin@wiltonct.org & elizabeth.larkin@wiltonct.org **

- ✓ A. Written consent from the owner authorizing the agent to act on his/her behalf
- ✓ B. A Location Map at a scale of 1" = 800'
- ✓ C. ***A Site Plan showing existing and proposed features at a scale not to exceed 1" = 40'*** accurate to the level of a A-2 property and T-2 topographic surveys
- ✓ D. Sketch Plans depicting the alternatives considered
- ✓ E. Engineering Reports and Analysis and additional drawing to fully describe the proposed project
- ✓ F. Sedimentation and Erosion Control Plan, including the Construction Sequence
- ✓ G. Names and addresses of adjoining property owners
- ✓ H. A narrative describing, in detail
  - a. the proposed activity
  - b. the alternatives considered
  - c. impacts
  - d. proposed mitigation measures
- ✓ I. Soils Report prepared by a Certified Soil Scientist and Wetlands Map prepared by a Registered Land Surveyor
- ✓ J. A Biological Evaluation prepared by a biologist or other qualified professional
- ✓ K Description of the chemical and physical characteristics of fill material to be used in the Regulated Area
- ✓ L. Description and maps detailing the watershed of the Regulated Area
- ✓ M. Envelopes addressed to adjacent neighbors, the applicant, and/or agent, with ***certified*** postage and no return address

****Application materials shall be collated and copies of documents more than two pages in length shall be double sided.**

See Section 7 of the Wetlands and Watercourses Regulations of the Town of Wilton for a more detailed description of applications requirements.

The Applicant or his/her agent certifies that he is familiar with the information provided in this application and is aware of the penalties for obtaining a permit through deception, inaccurate or misleading information.

By signing this application, permission is hereby given to necessary and proper inspections of the subject property by the Commissioners and designated agents of the Commission or consultants to the Commission, at reasonable times, both before and after a final decision has been rendered.

Applicant's Signature: CDSith Date: 5/4/21

Environmental Land Solutions, LLC

Landscape Architecture & Environmental Planning
8 Knight Street, Suite 203, Norwalk, CT 06851
Tel: (203) 855-7879 Fax: (203) 855-7836

May 7, 2021

Wilton Inland Wetlands Commission
Wilton Town Hall Annex
238 Danbury Road
Wilton, CT 06897

Re: 230 Ridgefield Road, Cease and Desist - Resolution
Wilton, Connecticut

Dear Commissioners:

Environmental Land Solutions, LLC (ELS) has been retained by Christopher Smith to submit an Inland Wetlands application for a Corrective Action Permit for un-permitted clearing and site work relating to recreational uses at the referenced properties. ELS has completed a Significant Application to resolve this violation, and the following environmental assessment. To complete this report, ELS made site inspections on March 4, 16, 25 and April 14, 2021.

EXISTING CONDITIONS:

The subject 20.4± acres is a rear parcel located between Ridgefield Road and Middebrook Farm Road, with a drive access off Ridgefield Road, and a paper right of way to Middlebrook Farm Road. Christopher and Melinda Smith recently purchased this parcel, which is adjacent to their residence at 12 Middlebrook Lane. The primary reason for purchasing the site was to prevent the potential 8-lot residential development by the prior owner, and to preserve the existing open space for privacy and recreation for their family.

The site was previously maintained as a single-family residence until 2005 when it was purchased and prepared for subdivision. During this period, the house and outbuildings were not used and fell into disrepair. The site was used as active recreation by the previous owner that included motor bikes and four-wheeler trails throughout the property. The existing dilapidated house and outbuildings are in the process of being demolished, in accordance with a previously issued demolition permit. The other remaining residential improvements include an in-ground pool that is proposed to be filled, a meadow in the previous lawn area, and an asphalt driveway. The remainder of the site is naturalized woods. The site also has two dilapidated dams on the Comstock Brook.

The site's upland woodland area is composed of a canopy of Black Locust in the west, and a

Maple Hickory forest over the remaining wooded portions. The understory is open and easily walked through most of the site. Nonnative invasive plants are noted throughout the understory.

The Comstock Brook is the predominate watercourse on the site, and includes a small tributary along the eastern property line, with a floodplain wetland is associated with the Comstock Brook. A wooded wetland extends from the Comstock Brook tributary to the northeast corner of the site. The width of the floodplain wetlands is dependent on the adjoining topography. Where the brook's edge is adjoining steep topography, the wetland is very narrow, as in the southeastern section. In the southern portion of the site, the wetland expands up to and over 100' from the brook and the topography is gentle and near level with the brook. The wetland line shown on the plans was established in 2005 by Eric Davidson, of Davidson Environmental. These wetland flags were rehung by the surveyor during April 2021. Eric Davidson is in the process of certifying the newly hug flags.

Recent site work within the wetland and upland review areas includes three different areas.

1. The partial clearing of topsoil leaves and woody debris in preparation for a walking trial with a wood chip surface. Portions of these areas are stabilized with native wood chips. The purpose of this work was to create walking trail along the west side of the Comstock Brook. The owner asserts an existing motor bike trail existed along this route. The length of the existing trail is 2700'± and is approximately 5-6' in width. The trail within the wetland areas is 800± sf. The trail within the upland review area is 1600± sf.

2. The installation of a 12" diameter culvert approximately 10' in length, and earth fill to cross the watercourse for the walking path. This work has filled a portion wetland. The area of wetland impact is 580± sf. The owner reports that this was an existing crossing for the dirt bike trails and included a smaller culvert which was removed.

3. Woody vegetation removal within the wetland in the northeastern corner of the property, targeted to remove of fallen and rotted trees, nonnative invasive shrubs, and some native understory shrubs. This activity is approximately 38,700± sf in area.

The affected wetlands area is 43,500± sf.

Regulated Areas

The regulated area for this property includes the wetlands, watercourse, and their upland review area. The site does include an extended upland review area where slopes over 20% occur. The area is noted on the site plans.

Impacts to Watercourses and Wetlands

The combined site work areas (0.96± acre) have included the removal of several rotted or

fallen trees, soil disturbance, wetland filling (culvert). The work could have temporary impacts to the wetlands function. However, it is the intent of the submitted plans to restore all wetland areas.

Potential short-term impacts expected from the work listed above include the following:

1. Loss of wetland vegetation.
2. Soil erosion/sedimentation.

Most of the existing disturbed soil areas were covered with native wood chips and are stable. Areas that were left exposed at the time of the cease and desist have been covered with a temporary hay mulch, as directed by Mike Conkin, to prevent soil movement from work areas. ELS reviewed these areas on April 14 and noted the areas are currently stable.

There is not expected to be any potential long-term impacts since all regulated areas will be restored. With the removal of invasive species from the wetland areas, the replanting of that area and the on-going management of invasive plants, the on-site wetland habitat is expected to be improved from the previous condition.

PROPOSED CONDITIONS:

The overriding purpose of this application is to mitigate intrusions into the wetland and allow for passive recreation by the owner while maintaining, enhancing, and restoring wetlands functions in areas that were impacted. The overall plan is intended to immediately resolve unpermitted activity, while reflecting the long range and holistic plan for the date with items that area intended to be implemented over several years. It is also the intent of the owner to remove and restore the larger dam on the property, but due to the scope of that work it the application was unable to include that work in this permit. The listed work noted below includes the short term resolution of the violation and long range goals listed separately.

The following is a comprehensive list of immediate corrective actions and comprehensive work that is anticipated on the property.

1. Proposed Corrective Actions. The following is a summary of the proposed mitigation measures and enhancements for the work that was started without a permit. Stabilize the installation of the walking path in the regulated areas.

   A. Restore disturbed pathway of 2700 lineal feet.

   B. Remove and restore area of the installed culvert.

   C. Hand rake ruts and remove wood chip in wetland area.

   D. Replant wetland where several trees and understory was removed, primarily composed of invasive plants. Replanting of cleared areas in wetland (38,700

sf). The plan proposed to plan 11 shade trees, 33 understory trees, and 53 shrubs. Exposed soil areas will be seeded and mulched. Planting will be done by hand.

2. Proposed new long range activities for the property include:

A. Install stone dust path 1600'±(6' wide) along the existing trail route in the upland areas.

B. Install a wood chip path 800'± (6' wide) crossing the wetland areas.

C. Construct 170'± linear feet of 6' wide raised broad walk to cross the northeast wetland.

D. Construct one broad walk section (10' in length) in wetlands to cross saturated soil conditions adjacent to the Comstock Brook. This will also include a rerouting of the existing trail.

E. Installation of a 4' wide walking bridge (30') and removal of the culvert at the stream crossing. Restoration of watercourse channel by exhuming existing rock surface and the hand replacement of stone on channel as needed to restore stable surfaces.

F. On-going removal of invasive plants throughout the site.

G. Small Dam Removal: This work is being done in conjunction with Trout Unlimited. Jeff Yates and associates visited the site on March 25, 2021 with ELS to review their proposed recommendations for the work. The property line runs along the center line of the brook at this section. This work has been prepared in conjunction with Jeff Yates, from Trout Unlimited. Since this is a relatively small dam and there is a well contained rocky substrate, this is viewed only as conservation and restoration work to restore a fish passage and reportedly does not require State permits.

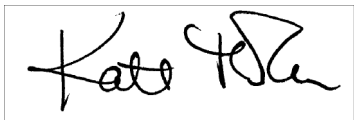
SUMMARY:

The goal of this application is to resolve the cited violation, provide long term enhancements to the woodland and wetland areas on the site, remove the small on-site dam, provide long-term guidelines for the proper maintenance of natural areas, and provide long- term guidelines for the management of nonnative invasive plants.

The proposed mitigation measures will provide the site with short-term protection to correct the wetland disturbances, reduce nonnative invasive plants, and expand wetland functions. When completed in accordance with the plans, the site will provide for long-term enhancements that will expand existing wetlands function on the site while providing for

increased recreational opportunities for the owners.

Sincerely,



Kate Throckmorton, ASLA
Landscape Architect

Ridgefield Rd 230-wilton-ea.docx

Properties located adjacent to 230 Ridgefield Road, Wilton, CT (Map 89, Lot #11)
Provided for a permit application for the Inland Wetlands Commission
(April 2021)

Map#/Lot #	Property Owner
89/ 10-4	David Anspach 232 Ridgefield Road Wilton, CT 06897
89/10-3	The Wilton Land Trust P.O Box 77 Wilton, CT 06897
89/8-4	n/f Middlebrook Lane Associates, LLC (4 Middlebrook Lane) 237 Post Road West Westport, CT 06897
89/2 & 89/3	Christopher Smith 12 Middlebrook Lane Wilton, CT 06897
75/6	n/f Peter and Kate Denious 39 School Road Wilton, CT 06897
75/13	John & Diane McDermott 11 Hunting Ridge Lane Wilton, CT 06897
75/3	Town of Wilton c/o Town Clerk 239 Danbury Road Wilton, CT 06897
75/4-1	William & Elliot Patty 174 Ridgefield Road Wilton, CT 06897
89-17	Laurie & Michael Sherman 182 Ridgefield Road Wilton, CT 06897
89/15-1	Marie Ann Moran 184 Ridgefield Road Wilton, CT 06897

89/15	Gina Lafferty 186 Ridgefield Road Wilton, CT 06897
89/15	Pierrs Mourier 216 Ridgefield Road Wilton, CT 06897
89/13	Paul & Victoria Mavis 226 Ridgefield Road Wilton, CT 06897
89/12	Susan & Jeffery Thompson 232 Ridgefield Road Wilton, CT 06897

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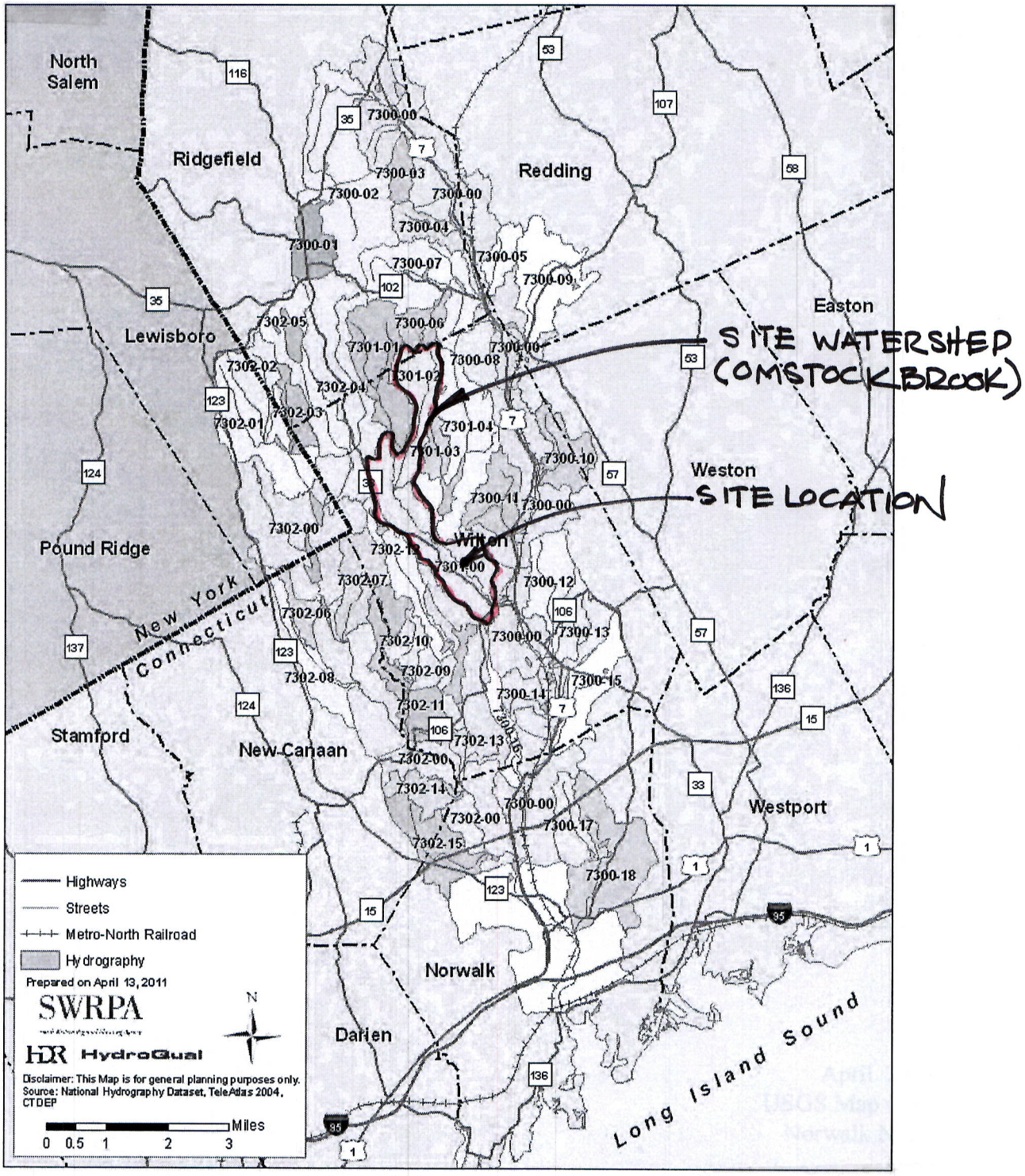


Figure 3-11. Sub-watersheds in the Norwalk River and its Tributaries

230 Ridgefield Road
Wilton, Connecticut
Scale: 1" = 1000' ±

Environmental Land Solutions, LLC
8 Knight St., Suite 203, Norwalk, CT 06851
Tel: (203) 855-7879 Fax: (203) 855-7836

Tighe&Bond

28-5153-001-01
April 28, 2021

Mr. Chris Smith
230 Ridgefield Road
Wilton, Connecticut 06897

Re: **Trail Mitigation**
Floodplain Impact Assessment

Dear Mr. Smith:

The proposed remediation project includes a trail around the perimeter of the property that consists of either stone dust or woodchips placed at grade. There are limited areas where the trail is elevated on a boardwalk to minimize impact to soils and to accommodate natural depressions and the free movement of stormwater runoff. The boardwalk consists of a wood deck supported by wood girders that are in turn supported on helical anchors. Transition from the elevated boardwalk sections back to existing grade will be achieved by a short set of steps at the ends of each boardwalk section.

The Flood Insurance Study (FIS) for Fairfield County, effective June 18, 2010 shows that there is a Special Flood Hazard Area (SFHA) associated with Comstock Brook, and that a portion of the trail crosses the floodplain and floodway. The portion of the trail in the SFHA is located upstream of the breached dam, along the portion of Comstock Brook that flows north as it winds its way around the bend. In this location, there is a single 12-foot long boardwalk section that elevates the path above ground level.

The Town of Wilton's Zoning Regulations 29.9.F.7 require equal conveyance and compensatory storage within floodways and floodplains. Essentially, the floodplain volume taken up by a structure must be compensated for by an equivalent volume of excavation that is hydraulically connected to the floodplain. Hydraulically connected means that the volume created must allow for the free flow of floodwater into and out of the volume, such that the volume created is available for the movement of floodwaters for the entire duration of the event. A simple pit dug into the ground is not hydraulically connected, since during the flood it will fill, the captured floodwaters would be unable to flow out, making the volume of the pit unavailable for the duration of the flood.

The first step in our analysis was to identify the base flood elevation. Consulting Flood Insurance Rate Map (FIRM) Panel No. 09001C0374F, the location of the short boardwalk sections falls between cross sections L and M, upstream of the dam. FIS Profile 73P shows that the dam creates a backwater area with level BFE extending to Cross Section M. The two short boardwalk sections are included in the backwatered area. Based upon the profile in the FIS, the base flood elevation in this area is 294.7 NAVD88.

Once we identified the base flood elevation, the next step was to determine the floodplain volume occupied by the boardwalk sections. ELS informs us that the bottom of the boardwalk would be set to above the base flood elevation, such that only the piers and the stairs will be within the floodplain. We assumed that the piers would be 4 inches in diameter, with 2 piers per beam. We also assumed that the piers would be placed 4 feet on center. We computed that the total displaced floodplain volume as a result of both boardwalk sections, including piers and stairs, would be a total of 9 cubic feet. ELS will identify this compensatory volume on its plans, and show it hydraulically connected to the floodplain.

The other element that must be considered is the impact on the base flood elevation. Typically, encroachments into the floodway would be supported by hydraulic analyses. However, the proposed encroachment is very small in relation to the entire volume of the floodplain. FEMA Publication 480, "NFIP Floodplain Management Requirements: A Study Guide and Desk Reference for Local Officials", offers some guidance on Page 5-23: "Some projects are too small to warrant an engineering study and the certification. Many of these can be determined using logic and common sense: a sign post or telephone pole will not block flood flows." By comparison, the width of a typical street sign post is 3-1/2 inches, which is comparable to the 4-inch diameter of the helical piles.

The stairs will have open risers that would allow floodwaters to pass through freely, and since the boardwalk girder system is above the floodplain supported on piles, floodwaters can freely pass beneath the boardwalk as well.

The proposed boardwalk location is closest to Cross Section M of the FIS study. The floodway data table indicates that the total cross sectional area is 561 square feet of floodplain. By comparison, The 6-foot wide boardwalk occupies 1.5 square feet of cross sectional floodplain area, or 0.2 percent of the cross sectional area, which is insignificant compared to the overall cross sectional area of the floodplain.

Based on our analysis, the proposed mitigation plan prepared by ELS will not have a negative impact on base flood elevations along Comstock Brook.

Very truly yours,

TIGHE & BOND, INC.

Joseph Canas, PE, LEED AP, CFM
Principal Engineer

John W. Block, PE, LS
Senior Vice President

Enclosures: Flood Insurance Rate Map
FIS Profile 73P

Copy: Kate Throckmorton, ELS

J:\S\S5153 Chris Smith\001 230 Ridgefield Rd Trail Mitigation\Correspondence\Outgoing\S5153-001 2021_04-22 letter c smith re floodplain impact.docx

National Flood Hazard Layer FIRMette

FEMA

73°27'10"W 41°12'21"N

73°26'32"W 41°11'54"N

Feet 1:6,000

0 250 500 1,000 1,500 2,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- B 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

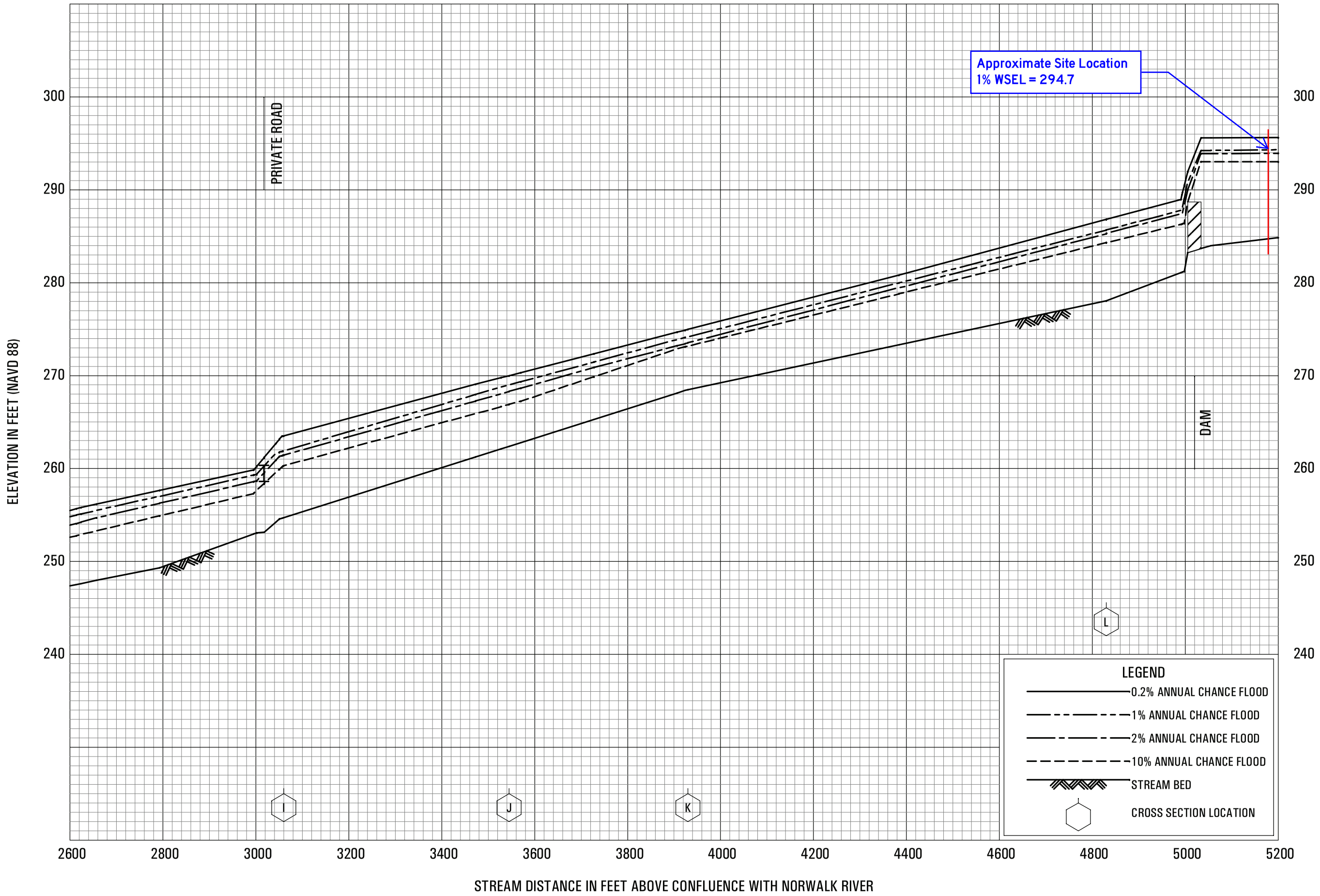
N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/22/2021 at 3:47 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



FLOOD PROFILES

COMSTOCK BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

FAIRFIELD COUNTY, CT

(ALL JURISDICTIONS)

Tighe&Bond

Compensatory Volume Computations
230 Old Ridgefield Road – Trail Mitigation
Date: April 22, 2021
Prepared by: J. Canas

Pier Volume

Assume piers are 4 inches in diameter

Cross sectional area per pier:

$A = .25\ \pi\ d^2$

$A = .25\ \pi\ (0.333\ ft)^2$

$A = .25\ \pi\ (0.1111\ ft^2)$

$A = 0.0873\ ft^2$, cross sectional area per pier.

Two piers per beam, so the pier cross sectional area per beam is:

$A_{pier\ (per\ beam)} = 2 \times 0.0873\ ft^2 = 0.1745\ ft^2$

The boardwalk segment is 12 feet long. Assuming beams are spaced 4 feet apart, there are 4 beams per segment. (One on each end, and two in the middle). Therefore, the pier cross sectional area is:

$A_{pier} = 4 \times 0.1745\ ft^2 = 0.6981\ ft^2$

Based on the survey, the lowest spot elevation in the general area of the boardwalk segments is 292.4 NAVD88. The beams will be placed above the BFE, so only the piers will be below the BFE occupying flood volume. Therefore, the height, H, of the piers occupying floodplain volume is:

$H = 294.7 - 292.4 = 2.3$ feet

The volume of the piers in the floodplain is as follows:

$V = H \times A_{pier}$

$V = 2.3\ ft \times 0.6981\ ft^2 = 1.61\ ft^3$

Stair Volume

Additionally, there will be steps needed to get down from the elevated boardwalk back to grade. Based upon a drawing of a typical stair section, the cross sectional area below the BFE, per stair, is as follows:

<u>Treads</u>

Two treads, each 12 inches deep and 6 feet wide and 2 inches thick, will be placed below the BFE:

$2 \times 6\ ft \times 1\ ft \times (2/12)\ ft = 2.00\ ft^3$ per stair

<u>Stringers</u>

Additionally, three stringers with an area of 3.26 ft^2 below the BFE will be used to support the stair treads. Stringers are 2" wide. (Area obtained from scaled AutoCAD drawing)

$$3 \times 3.26\ ft^2 \times (2/12)\ ft = 1.63\ ft^3 \text{ per stair}$$

Therefore, the total volume per stair is:

$$1.63\ ft^3 + 2.00\ ft^3 = 3.63\ ft^3$$

Since there are two stairs in total:

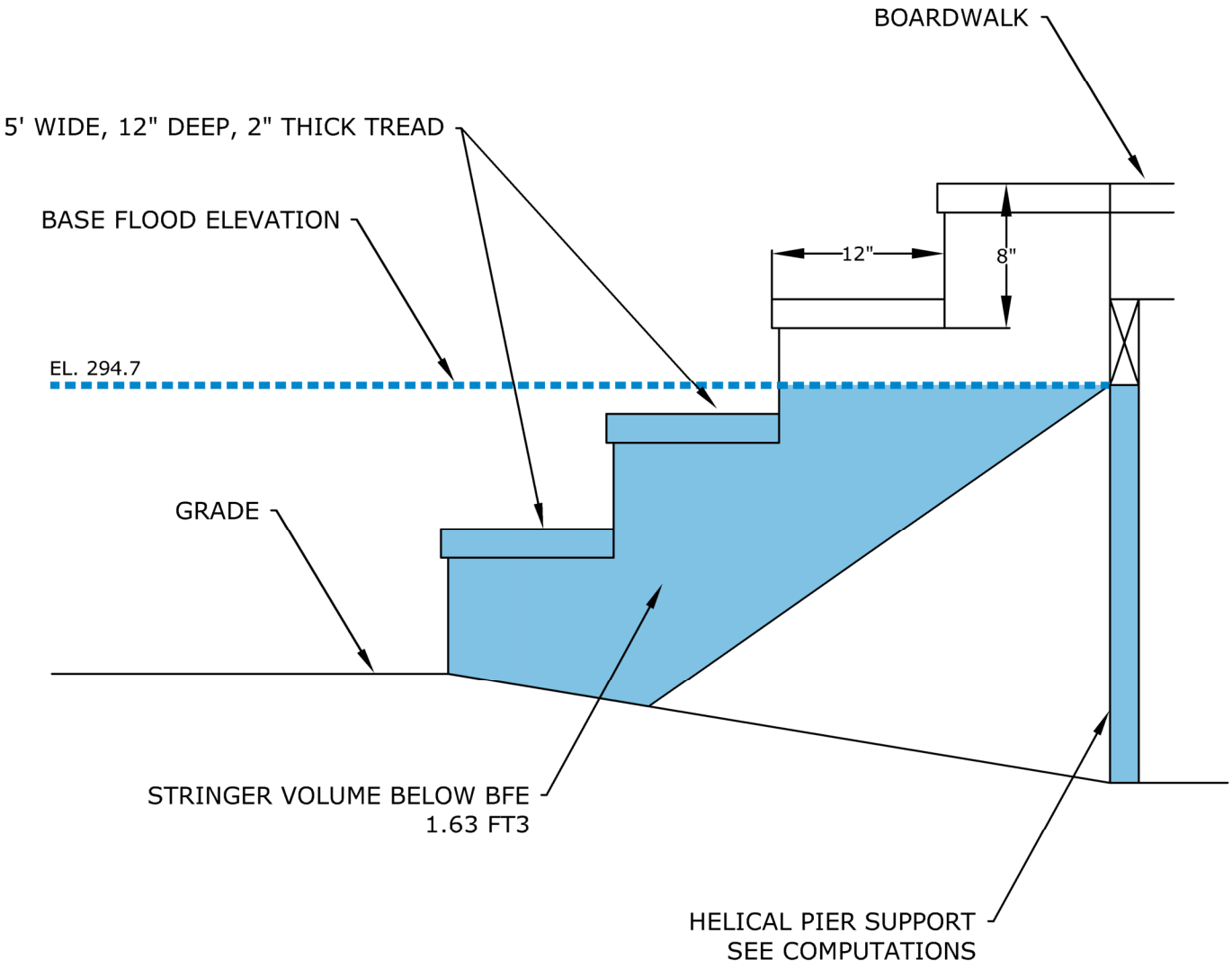
$$2 \times 3.63\ ft^3 = 7.26\ ft^3$$

Total Volume to be Compensated

Therefore, the total volume to be compensated is:

V_{stairs}	7.26 ft^3
V_{piers}	+ 1.61 ft^3
	8.87 ft^3

J:\S\S5153 Chris Smith\001 230 Ridgefield Rd Trail Mitigation\Data\S5156-001 2021_04-22 Compensatory Volume Computations.docx



230 OLD RIDGEFIELD ROAD
WILTON, CONNECTICUT

BOARDWALK STAIR VOLUME
COMPUTATION SKETCH

DATE: 04/22/2021
SCALE: 1" = 1'
FIGURE 01

Tighe&Bond

Apr 28, 2021-1:15pm Plotted By: Canas]
Tighe & Bond, Inc. J:\S\S5153 Chris Smith\001 230 Ridgefield Rd Trail Mitigation\Drawings_Figures\AutoCAD\Sheet\R5153-001 Stair Volume.dwg

DAVISON ENVIRONMENTAL

10 Maple Street
Chester, CT 06412
860-803-0938
www.davisonenvironmental.com

Biodiversity Studies • Wetland Delineation & Assessment • Habitat Management • GIS Mapping • Permitting • Forestry

WETLANDS / WATERCOURSES DELINEATION REPORT

Date of Work: *5/6/2021*

Project Location: *230 Ridgefield Rd, Wilton*

Client:
Kate Throckmorton
Environmental Land Solutions
8 Knight Street, Suite 203
Norwalk, CT 06851

IDENTIFICATION OF WETLANDS AND WATERCOURSES RESOURCES

Wetlands and watercourses present on property? Yes ☒ No ☐

Wetlands:		Watercourses:		Identification Method:	
Inland Wetlands	☒	Perennial Streams	☒	Auger and Spade	☒
Tidal Wetlands	☐	Intermittent Watercourses	☐	Backhoe Pits	☐

Numbering Sequences:

1-119

Wetland Plant Communities Present:

Forest ☒
Sapling/Shrub ☐
Wet Meadow ☐
Marsh ☐
Pond ☐

Definitions and methodology for identification of state regulated wetlands & watercourses

Wetlands and watercourses are regulated in the State of Connecticut General Statutes, Chapter 440, sections 22a-28 to 22a-45. The Statutes are divided into the Inland Wetlands and Watercourses Act (sections 22a-36 to 22a-45) and the Tidal Wetlands Act (sections 22a-28 to 22a-35). Inland Wetlands "means land, including submerged land, not regulated pursuant to sections 22a-28 to 22a-35, inclusive, which consists of any of the soil types designated as poorly drained, very poorly drained, alluvial, and floodplain by the National Cooperative Soils Survey, as may be amended from time to time, of the National Resources Conservation Service (NRCS) of the United States Department of Agriculture" section 22a-38(15). Watercourses "means rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private which are contained within, flow through or border upon this state or any portion thereof, not regulated pursuant to sections 22a-28 to 22a-35, inclusive. Intermittent watercourses shall be delineated by a defined permanent channel and bank and the occurrence of two or more of the following characteristics: (A) Evidence of scour or deposits of recent alluvium or detritus, (B) the presence of standing or flowing water for a duration longer than a particular storm incident, and (C) the presence of hydrophytic vegetation" section 22a-38(16). Tidal Wetlands are defined as "those areas which border on or lie beneath tidal waters, such as, but not limited to banks, bogs, salt marsh, swamps, meadows, flats, or other low lands subject to tidal action, including those areas now or formerly connected to tidal waters, and whose surface is at or below an elevation of one foot above local extreme high water; and upon which may grow or be capable of growing some, but not necessarily all of the following" (includes plant list) section 22a-29(2).

DRAFT

WETLAND SOIL TYPES

Wetland soils consist of the Ridgebury, Leicester and Whitman complex, as well as the Pootatuck series. Ridgebury, Leicester and Whitman is an undifferentiated mapping unit consisting of two poorly drained (Ridgebury and Leicester) and one very poorly drained (Whitman) soil developed on glacial till in depressions and drainageways in uplands and valleys. Their use interpretations are very similar, and they typically are so intermingled on the landscape that separation is not practical. The Ridgebury and Leicester series have a seasonal high water table at or near the surface (0-6") from fall through spring. They differ in that the Leicester soil has a more friable compact layer or hardpan, while the Ridgebury soils have a dense to very dense compact layer. The Whitman soil has a high water table for much of the year and may frequently be ponded.

The Pootatuck series consists of very deep, moderately well drained loamy soils formed in alluvial sediments. They are nearly level soils on floodplains subject to common flooding. Slope ranges from 0 to 3 percent. Permeability is moderate or moderately rapid in the loamy upper horizons and rapid or very rapid in the sandy substratum layers.

NON-WETLAND SOILS

Non-wetland soils consist of Udorthents, the Canton and Charlton complex, and the Woodbridge series. Udorthents is a miscellaneous land type used to denote moderately well to excessively drained earthen material which has been so disturbed by cutting, filling, or grading that the original soil profile can no longer be discerned.

The Canton series consists of very deep, well drained soils formed in a loamy mantle underlain by sandy glacial till. They are on nearly level to very steep glaciated plains, hills, and ridges. Slope ranges from 0 to 35 percent. Permeability is moderately rapid in the solum and rapid in the substratum. The soils developed in a fine sandy loam mantle over acid sandy glacial till of Wisconsin age derived mainly from granite and gneiss and some fine-grained sandstone.

The Charlton series is a very deep, well drained loamy soil formed in friable till. They are nearly level to very steep soils on till plains and hills. Depth to bedrock and the seasonal high water table is commonly more than 6 feet.

The Woodbridge series consists of moderately well drained loamy soils formed in compact, subglacial till. They are very deep to bedrock. They are nearly level to moderately steep soils

DRAFT

on till plains, hills, and drumlins. Depth to the compact layer (hardpan) is 18 to 40 inches. Depth to bedrock is commonly more than 6 feet. Woodbridge soils have a seasonal high water table on top of the compact layer (18-40”) from fall through late spring.

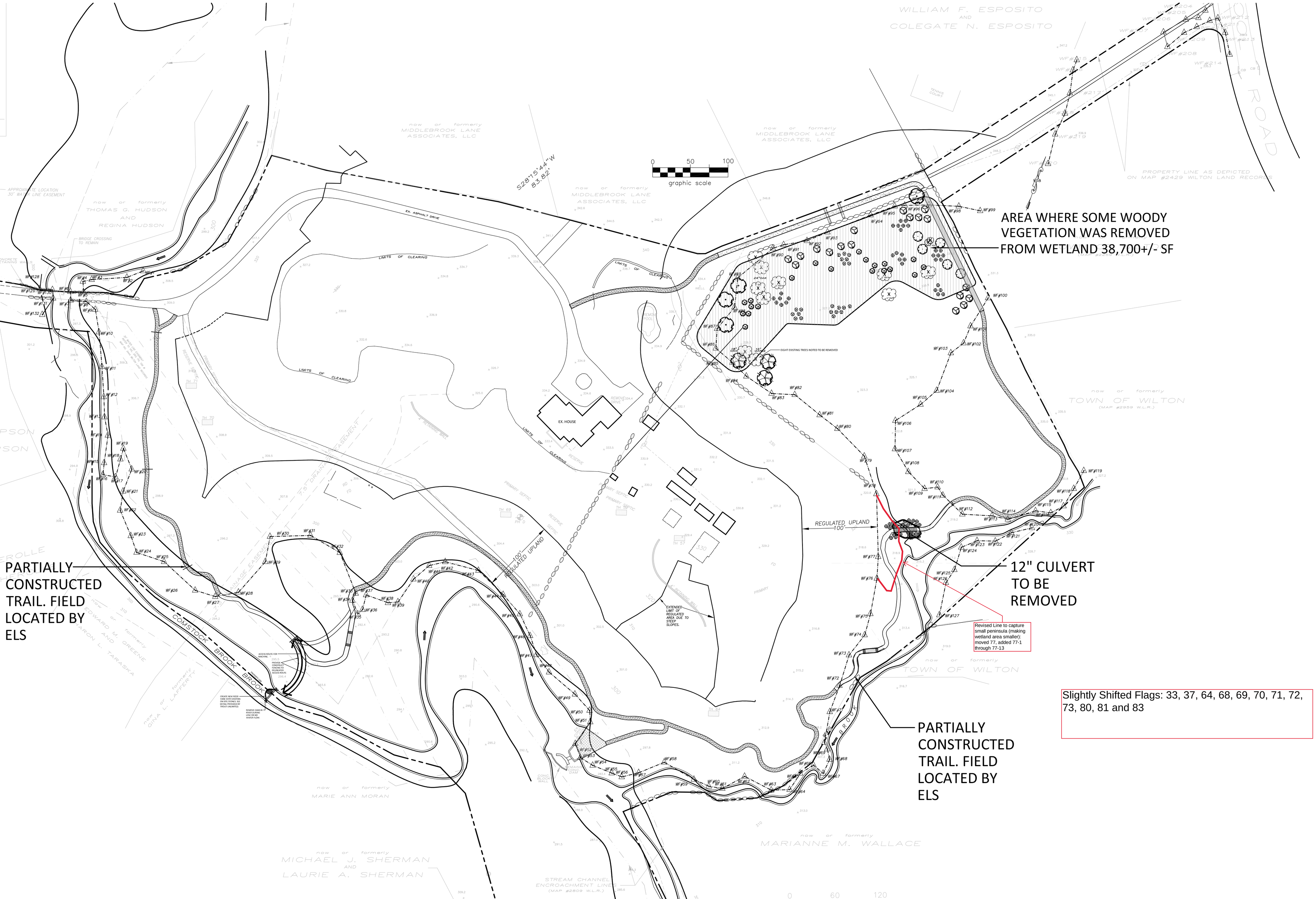
SUMMARY of FINDINGS

Wetlands present on the site consist of forested wetlands and floodplain wetlands (alluvial soils) that border upon or drain to Comstock Brook. This was a reconfirmation of a delineation I completed over ten years ago. The previous flag locations were reset in the field by survey, and I walked the limits and examined the flag locations. I made a minor (± 15ft) adjustment to the following flags: 33, 37, 64, 68, 69, 70, 71, 72, 73, 80, 81 and 83. In addition, I refined the flagging between #76 and #78, to include a narrow upland peninsula that had previously been undefined.

If you have any questions regarding my findings, please feel free to contact me.

Eric Davison
Certified Professional Wetland Scientist
Registered Soil Scientist

DRAFT


AREA WHERE SOME WOODY VEGETATION WAS REMOVED FROM WETLAND 38,700+/- SF
PARTIALLY CONSTRUCTED TRAIL. FIELD LOCATED BY ELS
12" CULVERT TO BE REMOVED
PARTIALLY CONSTRUCTED TRAIL. FIELD LOCATED BY ELS
Revised Line to capture small peninsula (making wetland area smaller): moved 77, added 77-1 through 77-13
Slightly Shifted Flags: 33, 37, 64, 68, 69, 70, 71, 72, 73, 80, 81 and 83
graphic scale
0 50 100
S28°15'44"W 83.82'
EX. ASPHALT DRIVE
LIMITS OF CLEARING
EX. HOUSE
REGULATED UPLAND 100'
EXTENDED LIMIT OF REGULATED AREA DUE TO STEEP SLOPES.
EIGHT EXISTING TREES NOTED TO BE REMOVED
COMSTOCK BROOK
WILLIAM F. ESPOSITO AND COLEGATE N. ESPOSITO
now or formerly MIDDLEBROOK LANE ASSOCIATES, LLC
now or formerly THOMAS G. HUDSON AND REGINA HUDSON
now or formerly TOWN OF WILTON (MAP #2959 W.L.R.)
now or formerly MARIE ANN MORAN
now or formerly MICHAEL J. SHERMAN AND LAURIE A. SHERMAN
now or formerly MARIANNE M. WALLACE
STREAM CHANNEL ENCROACHMENT LINE (MAP #2809 W.L.R.)
PROPERTY LINE AS DEPICTED ON MAP #2429 WILTON LAND RECORDS
0 60 120

ANY REPRODUCTION, ALTERATION, OR REPRINTING WITHOUT THE SURVEYOR'S KNOWLEDGE AND APPROVAL, WILL VOID ANY CERTIFICATIONS, AND NO LIABILITY SHALL BE ASSUMED BY THE SURVEYOR FOR THE SAME.

THIS MAP NOT VALID WITHOUT THE SURVEYOR'S LIVE SIGNATURE AND EMBOSSED SEAL.

UNDERGROUND UTILITIES, STRUCTURES, AND FACILITIES NOT FIELD LOCATED. THE SIZE, LOCATION, EXISTENCE OR NON-EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES. CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455.

REFERENCE MADE TO MAPS #5118, AND 5449 OF THE TOWN CLERK'S OFFICE.

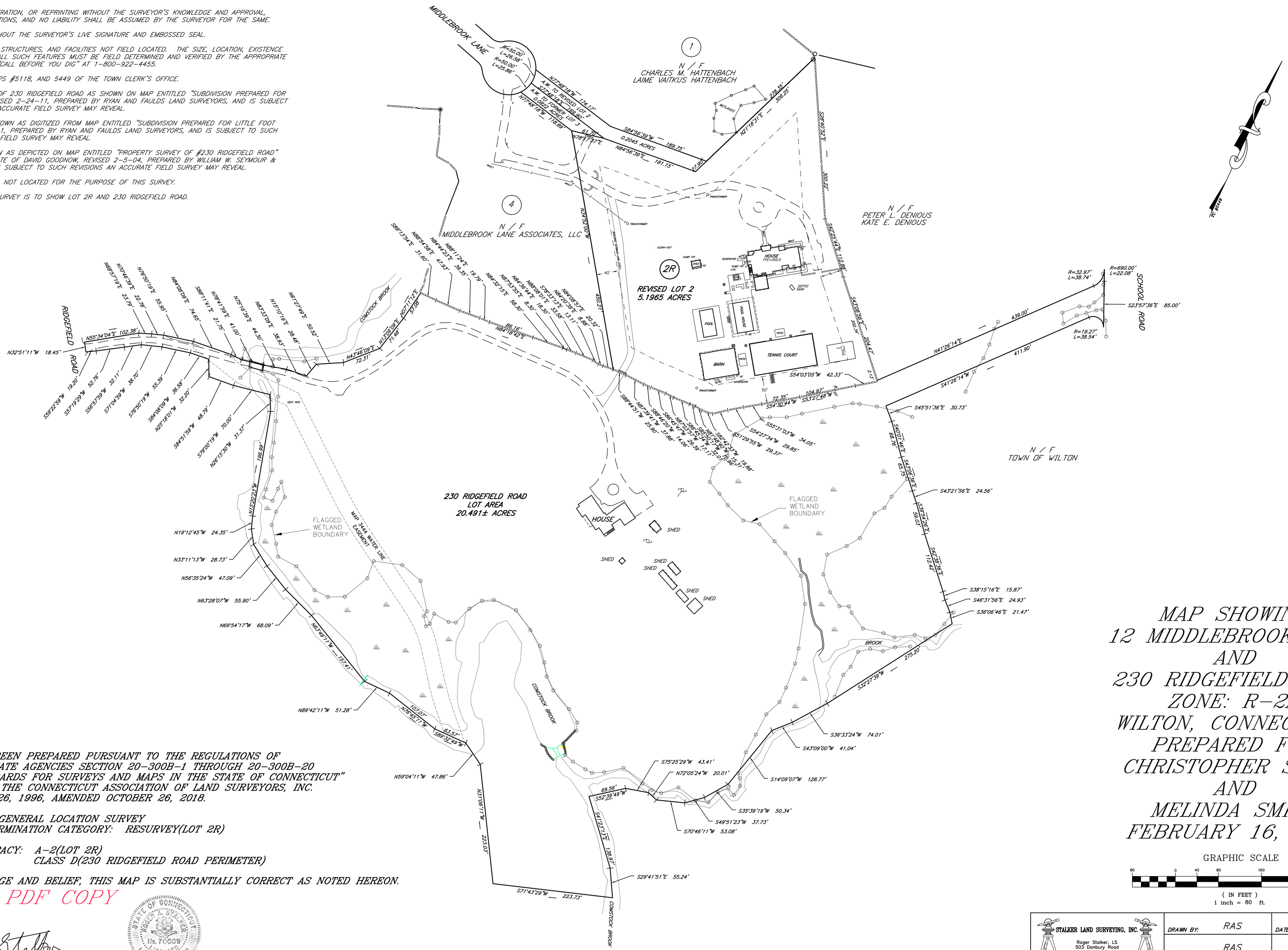
PERIMETER BOUNDARIES OF 230 RIDGEFIELD ROAD AS SHOWN ON MAP ENTITLED "SUBDIVISION PREPARED FOR LITTLE FOOT FARMS" REVISED 2-24-11, PREPARED BY RYAN AND FAULDS LAND SURVEYORS, AND IS SUBJECT TO SUCH REVISIONS AN ACCURATE FIELD SURVEY MAY REVEAL.

WETLAND BOUNDARIES SHOWN AS DIGITIZED FROM MAP ENTITLED "SUBDIVISION PREPARED FOR LITTLE FOOT FARMS" REVISED 2-24-11, PREPARED BY RYAN AND FAULDS LAND SURVEYORS, AND IS SUBJECT TO SUCH REVISIONS AN ACCURATE FIELD SURVEY MAY REVEAL.

COMSTOCK BROOK SHOWN AS DEPICTED ON MAP ENTITLED "PROPERTY SURVEY OF #230 RIDGEFIELD ROAD" PREPARED FOR THE ESTATE OF DAVID GOODNOW, REVISED 2-5-04, PREPARED BY WILLIAM W. SEYMOUR & ASSOCIATES, P.C., AND IS SUBJECT TO SUCH REVISIONS AN ACCURATE FIELD SURVEY MAY REVEAL.

ENCROACHMENTS, IF ANY, NOT LOCATED FOR THE PURPOSE OF THIS SURVEY.

THE PURPOSE OF THIS SURVEY IS TO SHOW LOT 2R AND 230 RIDGEFIELD ROAD.



THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 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, AMENDED OCTOBER 26, 2018.

SURVEY TYPE: GENERAL LOCATION SURVEY
BOUNDARY DETERMINATION CATEGORY: RESURVEY(LOT 2R)

CLASS OF ACCURACY: A-2(LOT 2R)
CLASS D(230 RIDGEFIELD ROAD PERIMETER)

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.
CERTIFIED BY: PDF COPY

STATE OF CONNECTICUT ROGER A. STALKER No. 70009 LICENSED LAND SURVEYOR

Roger Stalker

ROGER A. STALKER, LS # 70009

MAP SHOWING 12 MIDDLEBROOK LANE AND 230 RIDGEFIELD ROAD ZONE: R-2A WILTON, CONNECTICUT PREPARED FOR CHRISTOPHER SMITH AND MELINDA SMITH FEBRUARY 16, 2021

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

STALKER LAND SURVEYING, INC.
Roger Stalker, LS
503 Danbury Road
Wilton, Connecticut 06897
TEL (203) 563-0048
www.StalkerLS.com

DRAWN BY:	RAS	DATE:	2-16-21
CHECKED BY:	RAS	DRAWING NO.:	230 RR
JOB NO.:	0032021	SHEET 1 OF 1	

AREA WHERE SOME WOODY VEGETATION WAS REMOVED FROM WETLAND 38,700+/- SF

CONSTRUCT 150' LENGTH BROAD WALK

END STONE DUST PATH BEGIN BROAD WALK

BEGIN STONE DUST PATH

END STONE DUST PATH

EXISTING POOL SHALL BE CRUSHED AND FILLED IN RESEED WITH NATIVE MEADOW GRASS

REMOVE POOL EQUIPMENT AND FENCE

EXISTING BUILDINGS IN THE PROCESS OF DEMOLITION

EXISTING WOODLAND PATH

EXIST TRAIL WITH WOOD CHIP COVER TO BE BE CONVERTED TO STONE DUST

END STONE DUST PATH BEGIN WOOD CHIP PATH

END WOOD CHIP PATH BEGIN STONE DUST PATH

PARTIALLY CONSTRUCTED TRAIL. FIELD LOCATED BY ELS

12" CULVERT TO BE REMOVED

END WOOD CHIP PATH BEGIN STONE DUST PATH

ABANDON 90' EXISTING TRAIL THROUGH SMALL PONDING AREAS

ONE 12' SECTION OF BOARDWALK

REROUTE EXISTING TRAIL TO NOTED LOCATION

END STONE DUST PATH BEGIN WOOD CHIP PATH

ONE SECTION OF BOARDWALK OVER SATURATED SOILS

PARTIALLY CONSTRUCTED TRAIL. FIELD LOCATED BY ELS

SEED EXPOSED SOIL AREAS WITH NOTED SEED MIX. HAND REMOVE INVASIVES AROUND THE CLEARED AREA.

EXTENDED LIMIT OF REGULATED AREA DUE TO STEEP SLOPES.

EIGHT EXISTING TREES NOTED TO BE REMOVED

REGULATED UPLAND 100'

100' UPLAND REVIEW BOUNDARY

LIMITS OF CLEARING

EX. ASPHALT DRIVE

EX. HOUSE

S28°15'44"W 83.82'

graphic scale 0 50 100

now or formerly THOMAS G. HUDSON AND REGINA HUDSON

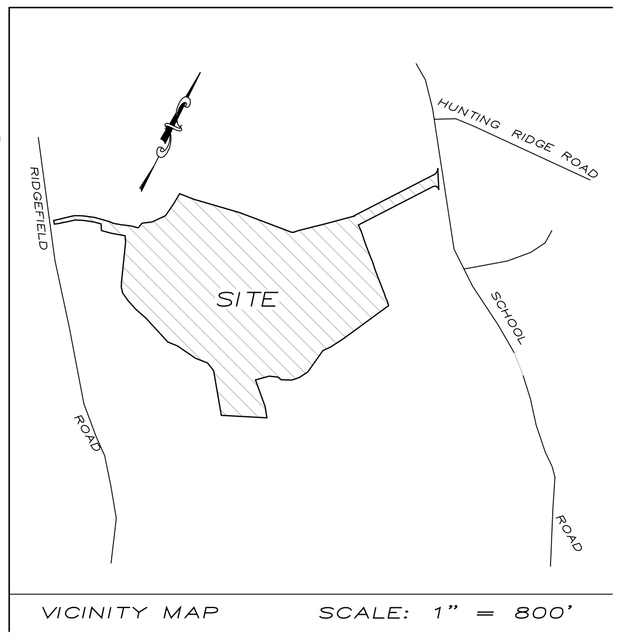
now or formerly MIDDLEBROOK LANE ASSOCIATES, LLC

now or formerly TOWN OF WILTON (MAP #2959 W.L.R.)

now or formerly MARIE ANN MORAN

COVISTOCK BROOK

PROPERTY LINE AS DEPICTED ON MAP #2429 WILTON LANE



VICINITY MAP SCALE: 1" = 800'

REVISIONS:

DRAWING TITLE: TRAIL OVERVIEW

PROJECT: SMITH FAMILY
230 RIDGEFIELD ROAD
WILTON, CONNECTICUT

ENVIRONMENTAL LANDSCAPE ARCHITECTURE PLANNING ELS

ENVIRONMENTAL LAND SOLUTIONS, LLC
Landscape Architecture and Environmental Planning

8 KNIGHT STREET, SUITE 203
NORWALK, CONNECTICUT 06851

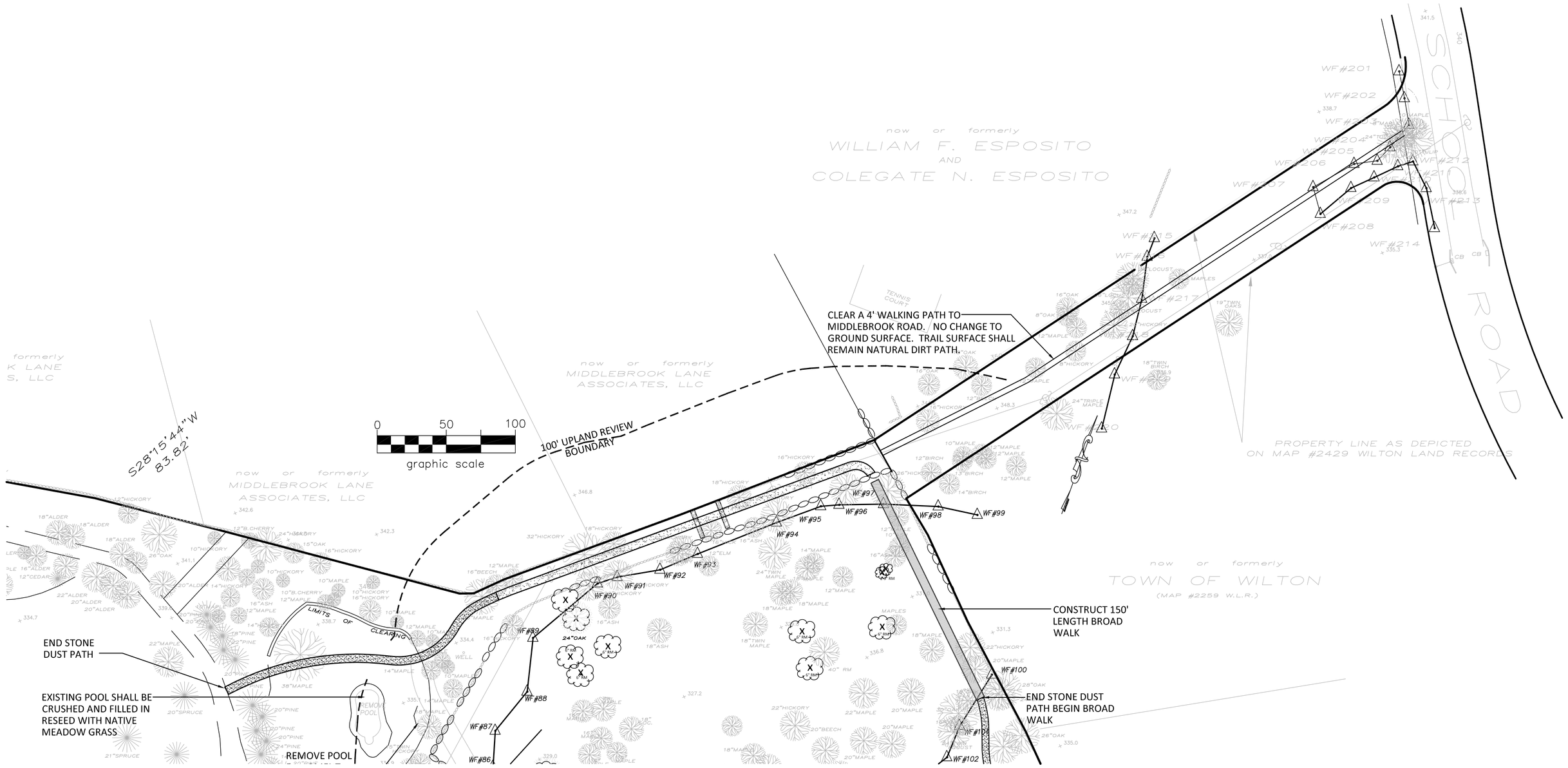
Tel: (203) 855-7879 Fax: (203) 855-7836
info@elsllc.net www.elsllc.net

SEAL:

DATE: MAY 7 2021

SCALE: 1"=50'

DRAWING NO.: WP-2



REVISIONS:		

DRAWING TITLE:
ACCESS TO MIDDLEBROOK ROAD

PROJECT:
SMITH FAMILY
230 RIDGEFIELD ROAD
WILTON, CONNECTICUT

ENVIRONMENTAL LANDSCAPE ARCHITECTURE
ELS PLANNING
ENVIRONMENTAL LAND SOLUTIONS, LLC
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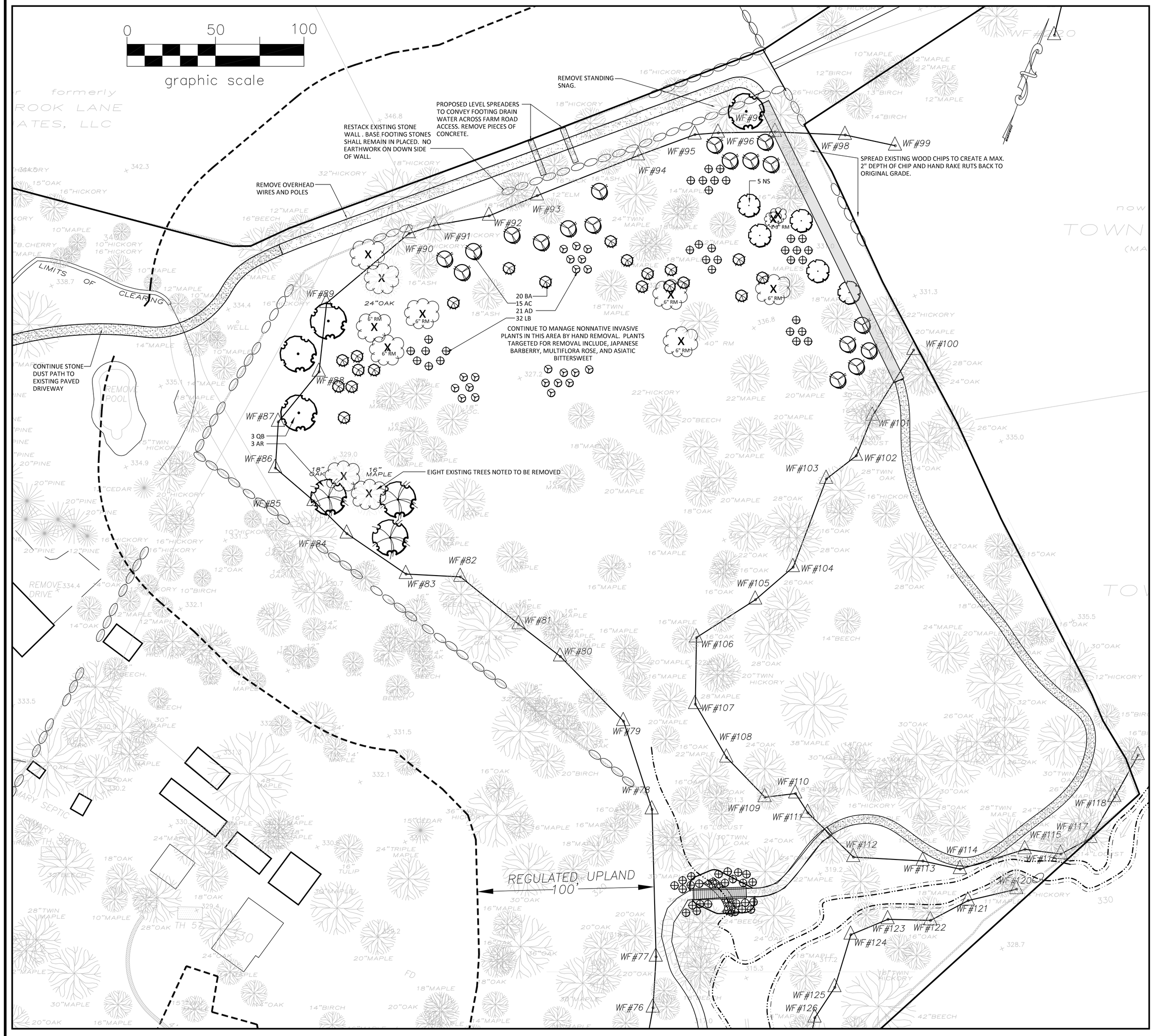
info@elsllc.net www.elsllc.net

SEAL:

DATE: MAY 7, 2021

SCALE: 1"=50'

DRAWING NO.: WP-3



LEGEND

- PROPERTY LINE
- WETLAND LINE
- WATERCOURSE LINE
- 100' UPLAND REVIEW AREA
- NEW SILT FENCE
- EX. EVERGREEN/DECIDUOUS TREE TO REMAIN (APPROX. LOCATION)
- TREES RECENTLY REMOVED
- NEW EVERGREEN TREE
- NEW DECIDUOUS SHADE TREE
- NEW SMALL FLOWERING TREE
- NEW SHRUB
- NEW / EX. LAWN

PLANT LIST

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
3	AR	ACER RUBRUM	RED MAPLE	2-2.5" CAL.	B&B	FULL
15	AC	AMELANCHIER CANADENSIS	SHAD	5-6' HT.	B&B	MULTI-STEM
20	BA	BETULA ALLEGHANIENSIS	YELLOW BIRCH	WHIPS		
5	NS	NYSSA SYLVATICA	BLACK GUM	8-9' HT.	B&B	
3	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	2-2.5" CAL.	B&B	FULL
SHRUBS						
21	AD	ALNUS INCARNA	SPECKLES ALDER	2-3' HT.	CONT.	
32	32	LINDERA BENZOIN	SPICEBUSH	2-3' HT.	CONT.	

GRAPHIC SCALE
0' 15' 30' 60'

REVISIONS:

DRAWING TITLE: MITIGATION PLAN

PROJECT:
SMITH FAMILY
230 RIDGEFIELD ROAD
WILTON, CONNECTICUT

ENVIRONMENTAL LANDSCAPE ARCHITECTURE PLANNING
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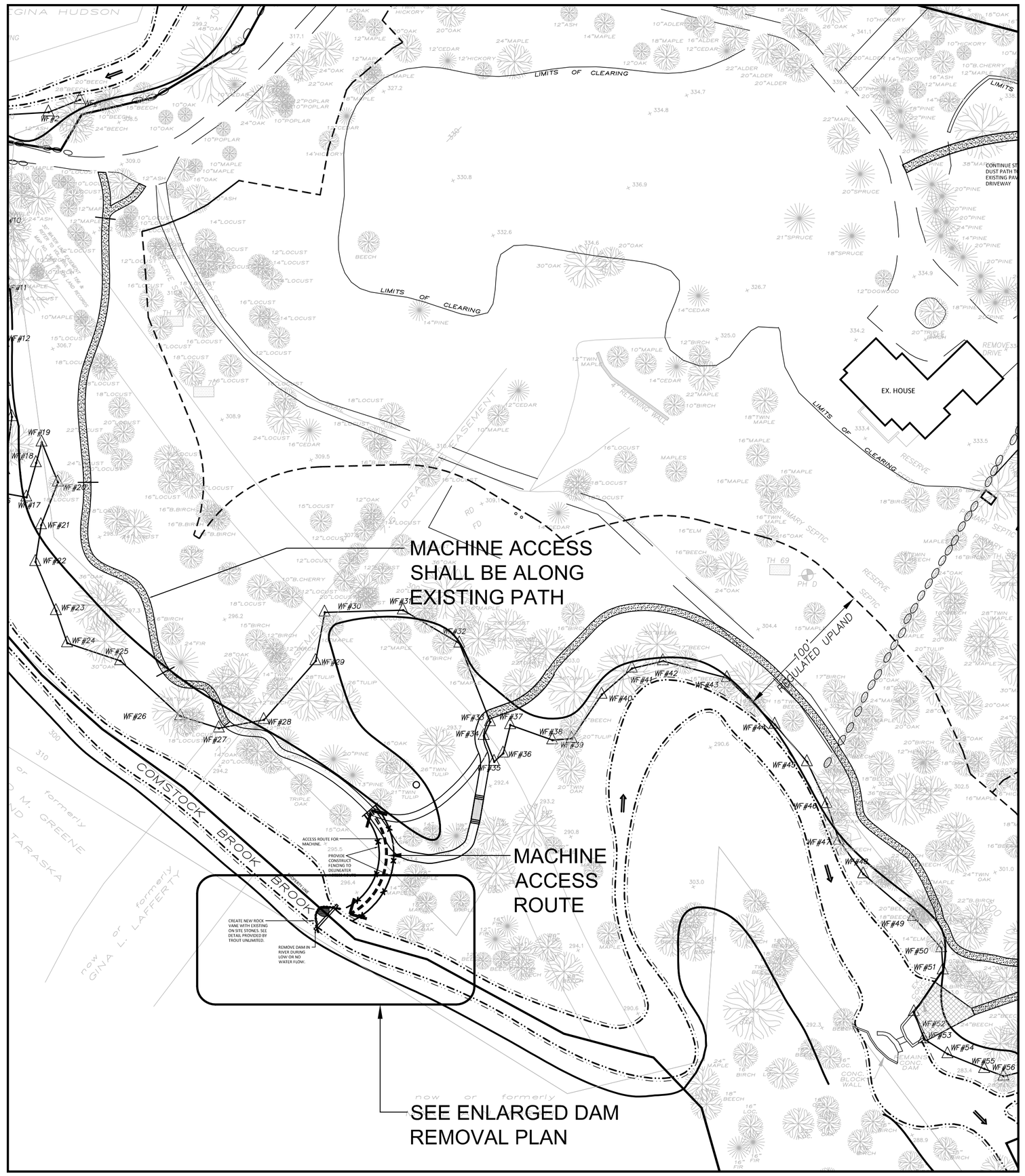
info@elsllc.net www.elsllc.net

SEAL:

DATE: MAY 7, 2021

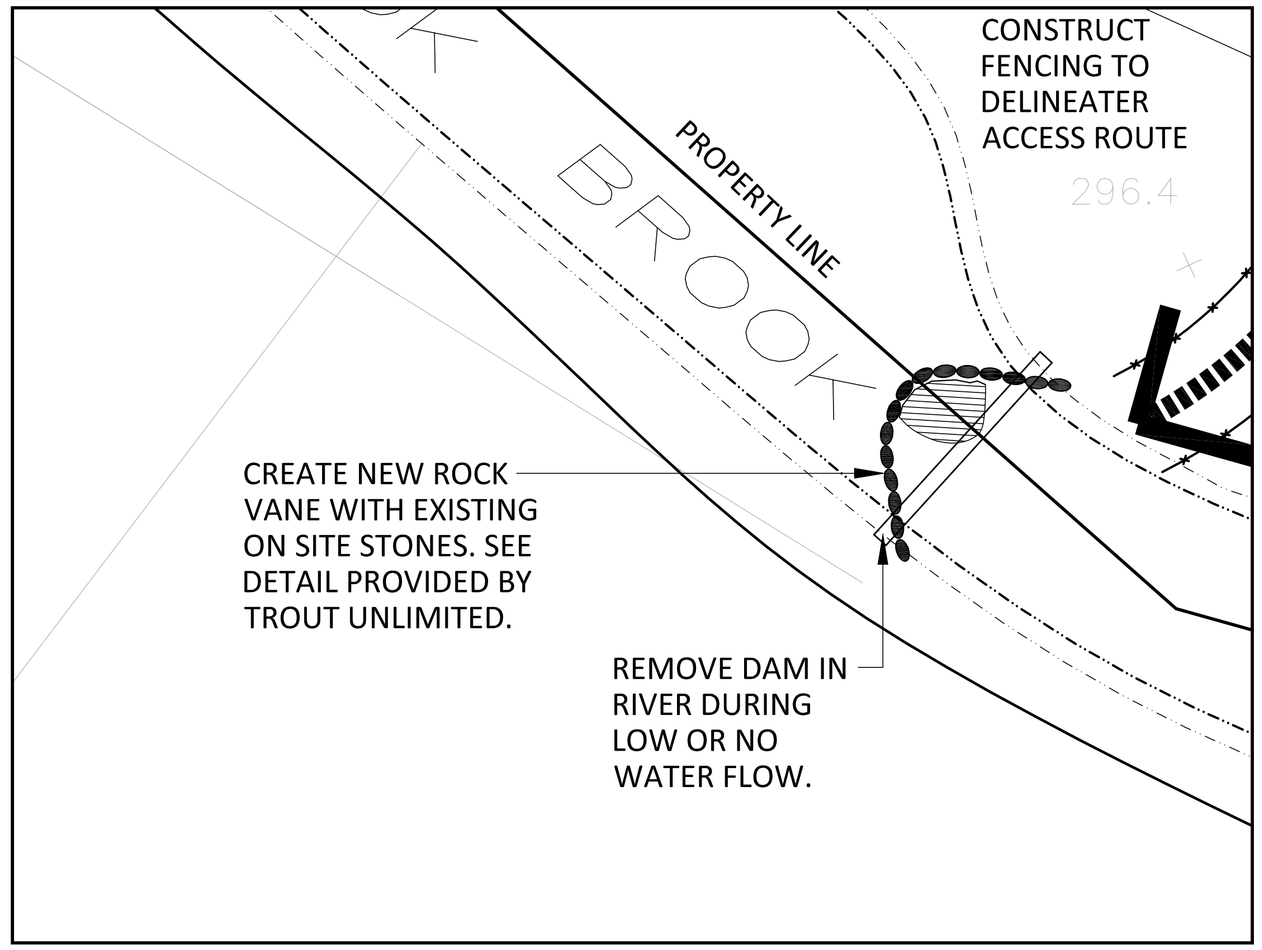
SCALE: 1"=30'

DRAWING NO.: WP-4



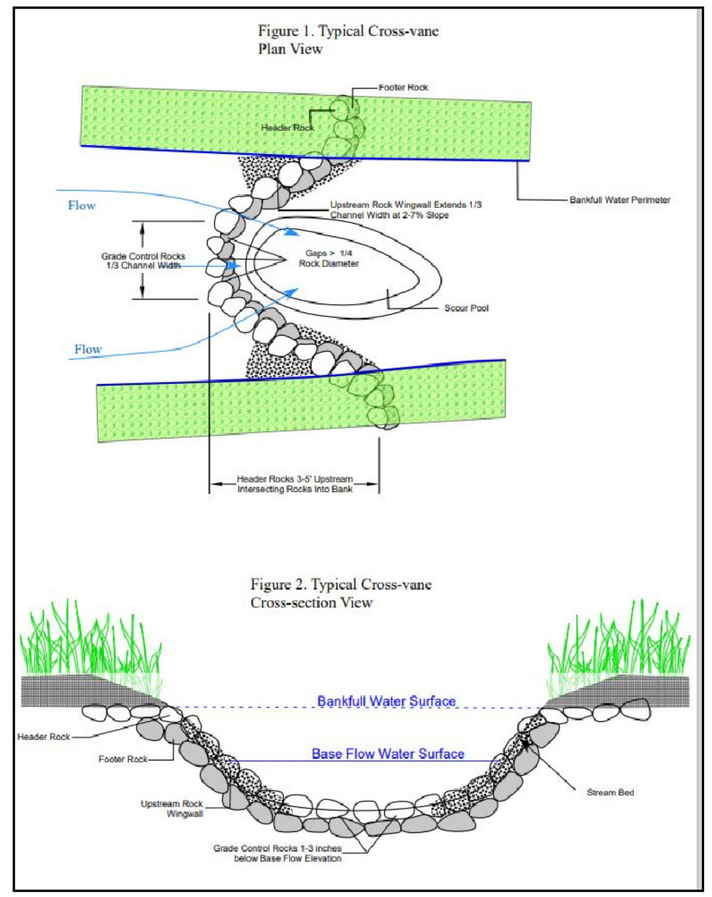
SCALE 1"=50'

ACCESS ROUTE FOR MACHINE



SCALE 1"=20'

DAM REMOVAL PLAN



ROCK VANE DETAIL

NTS

NOTES

1. DETAIL PROVIDED BY TROUT UNLIMITED

CONSTRUCTION SEQUENCE (GENERAL):

1. THE CONTRACTOR SHALL READ AND COMPLY WITH ALL REQUIRED PRE-CONSTRUCTION PERMIT CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION SITE MEETING WITH STAFF FROM THE TOWN'S INLAND WETLANDS AGENCY AND ENVIRONMENTAL LAND SOLUTIONS, LLC TO REVIEW THE PROJECT SCOPE.
3. WORK SHALL TAKE PLACE DURING LOW OR NO FLOW CONDITIONS.
4. INSTALL TREE PROTECTION FENCING AROUND SIGNIFICANT TREES TO REMAIN AND AS SHOWN ON THE SITE PLAN. IT IS THE INTEND TO RETAIN ALL TREES IN AND AROUND THE WORK AREA.
5. DISMANTLE EXISTING CONCRETE BLOCK SLABS INTO 4 PIECES FOR REMOVAL.
6. REMOVE DEBRIS TO DUMPSTER OFF PAVED DRIVEWAY.
7. CONSTRUCT ROCK VANE, IN ACCORDANCE WITH THE DETAIL PROVIDED BY TROUT UNLIMITED. EXPECTED TIME FRAME TO REMOVE DAM AND CONSTRUCT ROCK VANE IS LESS THAN ONE WEEK.
8. STABILIZE ALL STREAM AREA PRIOR TO COMPLETION USING IN STREAM ROCK AND STONE.
9. SITE CLEAN-UP.

EROSION CONTROL NOTES:

1. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. RESTABILIZATION OF DISTURBED SOILS SHALL BE COMPLETED AS SOON AS POSSIBLE.
2. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS NOTED IN THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", DEP BULLETIN 34, 2002.
3. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD AS NEEDED AT THE CONTRACTOR'S EXPENSE. THE TOWN WETLAND DEPARTMENT STAFF AND THE PROJECT LANDSCAPE ARCHITECT SHALL HAVE THE AUTHORITY IN DETERMINING THE NEED FOR ADDITIONAL CONTROLS.
4. DISTURBED AREAS TO BE LEFT EXPOSED FOR MORE THAN 21 DAYS SHALL BE SEEDED WITH RYEGRASS AT THE RATE OF 1 IBS. PER 1000 SQUARE FEET WITHIN SEVEN DAYS OF THE OCCURRENCE OF THE DISTURBANCE. APPLY SOIL AMENDMENTS AND MULCH AS NEEDED TO ESTABLISH A DENSE, UNIFORM AND HEALTHY VEGETATION STAND OVER SEEDED AREAS.
5. IF CONSTRUCTION OPERATIONS ARE DELAYED FOR ANY REASON ONCE SITE DISTURBANCE HAS OCCURRED, THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER ROUTINE MAINTENANCE AND INSPECTION OF THE EROSION CONTROL MEASURES DURING THIS PERIOD.
6. HYDRO-SEED DISTURBED LANDSCAPE AREAS WITH A HYDRAULIC MULCH (SUCH AS FLEXTERRA BY PROFILE) AND A HIGH QUALITY FAST GROWING TURF MIXTURE.
7. SEEDED AREAS THAT ARE ON SLOPES ON OR GREATER THAN 10% SHALL BE COVERED WITH AN EROSION CONTROL BLANKET (INCLUDING ANCHOR STAPLES) THAT IS PLASTIC-FREE AND 100% BIODEGRADABLE OR PHOTODEGRADABLE WITHIN TWO YEARS.

SEEDING NOTES:

1. IF EXPOSED SOIL IS CREATED DURING SITE WORK. ALL EXPOSED SOIL SHALL BE IMMEDIATELY SEEDED AND MULCHED WITH HAY FOR STABILIZATION.
2. SEED AREAS AT THE METHODS AND 125% THE RATE RECOMMENDED BY THE MANUFACTURER. A NURSE CROP OF PERENNIAL RYE GRASS (AT A RATE OF 50 LBS./ACRE) SHALL BE ADDED TO THE SEED MIX ON SLOPES OF EXCESS OF 10% AND AS SPECIFIED. SEED SHALL BE OBTAINED FROM AN APPROVED SUPPLIER. SEED MIX SUBSTITUTIONS SHALL BE EQUIVALENT TO THAT SPECIFIED AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER PRIOR TO USE. SEED AREAS AS PER THE FOLLOWING SCHEDULE:

   A. WETLAND BUFFERS (UPLAND AREAS):
   SEED THIS AREA WITH "NEW ENGLAND CONSERVATION / WILDLIFE SEED MIX" BY FROM NEW ENGLAND WETLAND PLANTS, INC. (413-548-8000) OR APPROVED EQUAL.

   B. WETLAND AREAS:
   SEED THIS AREA WITH "WETMIX" BY NEW ENGLAND WETLAND PLANTS, INC. (413-548-8000).
3. THE SEED SHALL BE SPREAD ON THE PREPARED SEEDING SOIL, RAKED LIGHTLY TO ESTABLISH GOOD SOIL CONTACT, AND MULCHED WITH A 2 INCH LOOSE LAYER OF CLEAN OAT STRAW OR COMMERCIAL WOOD FIBER PRODUCTS APPLIED BY HAND OR BY HYDROSEEDING ON SLOPES LESS THAT 10%. SEEDED SLOPES ON OR GREATER THAN 10 PERCENT SHALL BE COVERED WITH A PLASTIC-FREE EROSION CONTROL BLANKET.

REVISIONS:

DRAWING TITLE: DAM REMOVAL PLAN

PROJECT: SMITH FAMILY
230 RIDGEFIELD ROAD
WILTON, CONNECTICUT

ENVIRONMENTAL LANDSCAPE ARCHITECTURE PLANNING
ELS
ENVIRONMENTAL LAND SOLUTIONS, LLC
Landscape Architecture and Environmental Planning
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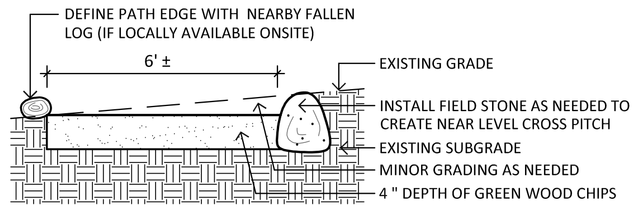
Tel: (203) 855-7879 Fax: (203) 855-7836
info@elsllc.net www.elsllc.net

SEAL:

DATE: APRIL 26, 2021

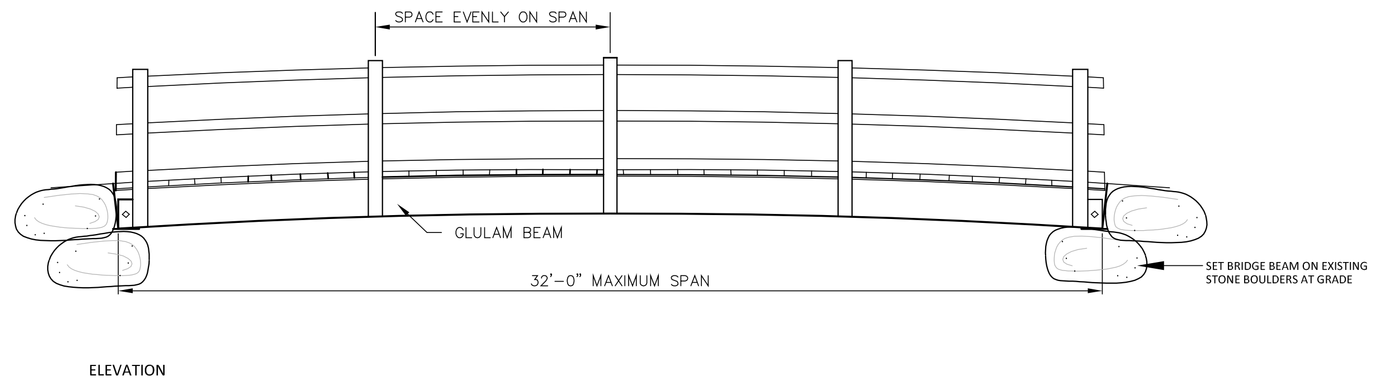
SCALE: AS NOTED

DRAWING NO.: WP-5

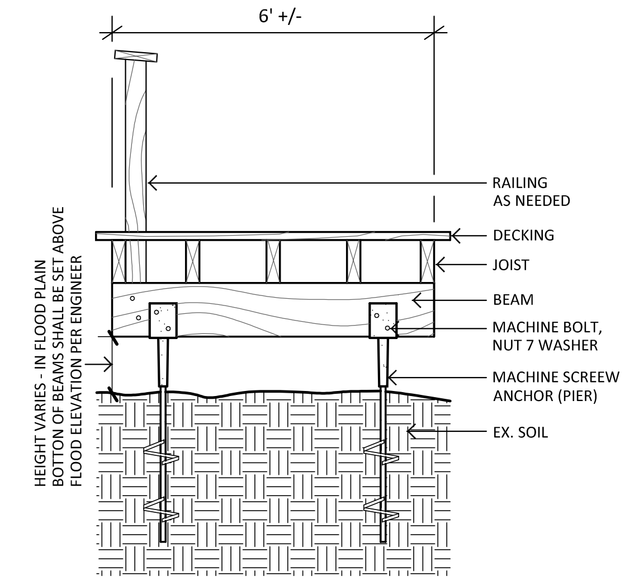


WOODCHIP PATH

SCALE: NOT TO SCALE



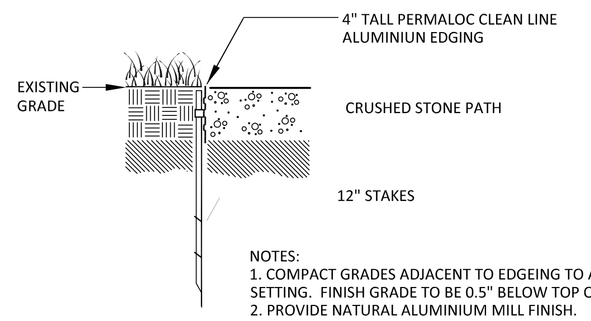
FOOTBRIDGE W/GLUELAM SUPPORT SET ON EXISTING STONES TO REPLACE CULVERT



NOTE:
1. INSTALL SCREW ANCHOR PIERS AND CROSS BRACE PER MANUFACTURER'S RECOMMENDATIONS. PIER SYSTEM BY CHANCE HELICAL-PIER (1-800-282-7453) OR EQUIVALENT.

BOARDWALK SECTION (TYP.)

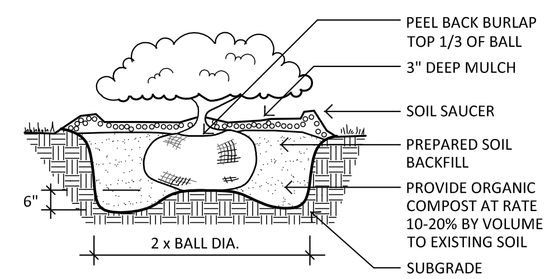
SCALE: NOT TO SCALE



NOTES:
1. COMPACT GRADES ADJACENT TO EDGEING TO AVOID SETTING. FINISH GRADE TO BE 0.5" BELOW TOP OF EDGING.
2. PROVIDE NATURAL ALUMINIUM MILL FINISH.

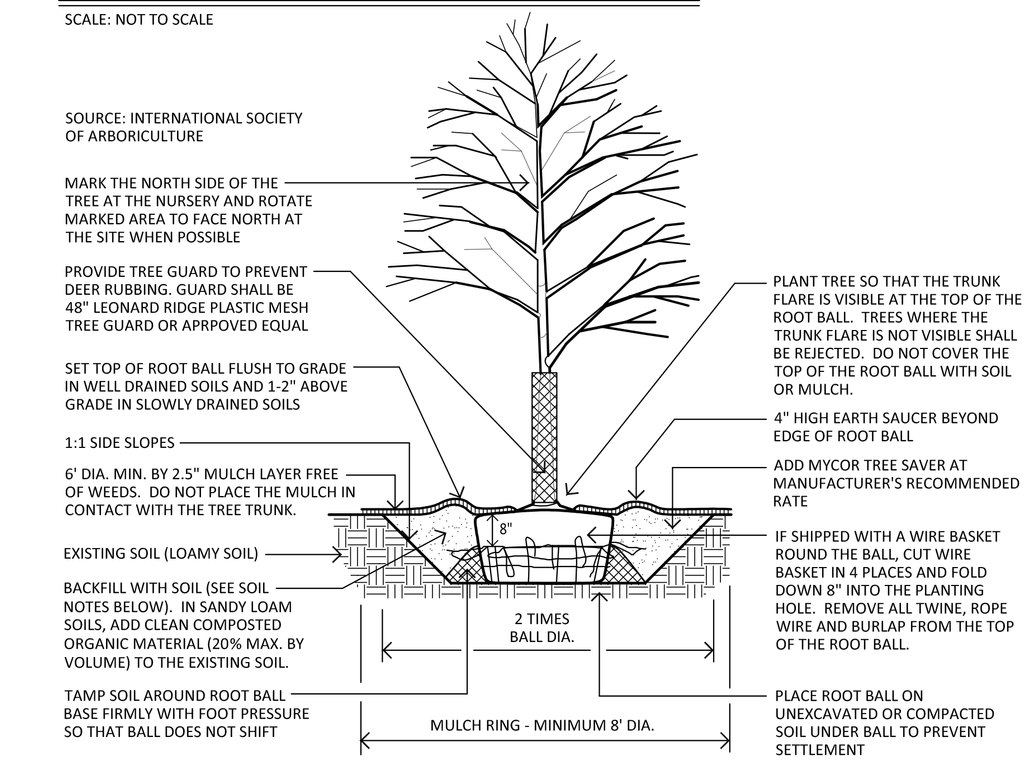
ALUMINUM LANDSCAPE BED EDGING

SCALE: NOT TO SCALE



SHRUB PLANTING DETAIL

SCALE: NOT TO SCALE



PLANTING NOTES:

1. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
2. WRAP TREE TRUNKS ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

SOIL NOTES:

1. CLEAN FILL MATERIAL SHALL BE A LOAMY SOIL. LOAMY SOILS INCLUDE THE FOLLOWING USDA TEXTURAL CLASSIFICATIONS AND HAVE A CLAY CONTENT BETWEEN 7% TO 27%: LOAM, SANDY LOAM AND SILT LOAM. NOTE THAT SOILS AT THE OUTER LIMITS OF THE LOAM CLASSIFICATION MAY PRESENT SPECIAL PLANTINGS PROBLEMS NOT ANTICIPATED BY THE DETAIL. THE SOIL STRUCTURE SHALL NOT BE PLATY OR MASSIVE. A SUITABLE PLANTING SOIL IS 65 % SAND, 20% COMPOST, AND 15% CLAY LOAM.
2. LOAMY SOILS ARE DEFINED AS A GRANULAR OR BLOCKY FRIABLE SOILS, A MIXTURE OF SAND, SILT AND CLAY PARTICLES WITH A WITH A MINIMUM OF 1.5% BY DRY WEIGHT OF ORGANIC MATTER. THE SOIL MUST NOT BE SO COMPACTED AS TO IMPEDED ROOT GROWTH OR DRAINAGE.

STAKING NOTES:

1. STAKE TREES ONLY IF IT IS EXPECTED THAT THE TREE WILL NOT BE ABLE TO SUPPORT ITSELF AND REMAIN STRAIGHT. STAKE TREES FOR THE FOLLOWING REASONS:
   A. THE TREE IS INSTALLED WITHIN VERY SANDY SOIL OR VERY WET CLAY SOIL.
   B. THE TREE IS LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS.
2. CONTACT THE PROJECT LANDSCAPE ARCHITECT FOR STAKING DETAIL IF NEEDED.

TREE PLANTING DETAIL

SCALE: NOT TO SCALE

NONNATIVE INVASIVE SPECIES CONTROL NOTES:

1. REMOVAL OF NONNATIVE INVASIVE PLANTS TO BE ONGOING OVER A FIVE (5) YEAR PERIOD (OR LONGER). SCOPE OF WORK MAY VARY YEAR TO YEAR BASED ON FINANCIAL LIMITATIONS.

2. THE LANDSCAPE CONTRACTOR SHALL CONTACT THE PROJECT ENVIRONMENTAL CONSULTANT WITH ANY QUESTIONS REGARDING THE CONTROL OR IDENTIFICATION OF INVASIVE NONNATIVE SPECIES.

3. THE LANDSCAPE CONTRACTOR SHALL FOLLOW THE METHODS AND RECOMMENDATIONS RECOMMENDED BY THE HERBICIDE MANUFACTURER AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS. A PERMIT FROM DEEP IS REQUIRED FOR ANY PESTICIDE APPLICATION TO A BODY OF WATER.

4. ALL CUT OR PULLED INVASIVE NONNATIVE PLANT MATERIALS SHALL BE DISPOSED OF APPROPRIATELY AND COMPLY WITH THE 2004 DEEP / UCONN "GUIDELINES FOR DISPOSAL OF TERRESTRIAL INVASIVE PLANTS." ALL CUTTINGS SHALL BE COLLECTED AND PLACED ONSITE ON A PLASTIC TARP (OR ON AN ASPHALT PAVEMENT AREA) AND SUN DRIED UNTIL DEAD. AVOID CUTTINGS FROM BEING IN CONTACT WITH ANY SOIL. DEAD PLANTS SHALL BE BAGGED AND DEPOSITED AT AN INCINERATOR WASTE FACILITY (NOT A COMPOSTING FACILITY).

5. CONTINUE INVASIVE PLANT SPECIES CONTROL OVER ENTIRE SITE. DOCUMENT ACTIONS AND PROGRESS TO HELP GUIDE ON GOING CONTROL METHODS. CONFIRM CONTRACTORS ARE KNOWLEDGEABLE ON PLANT TYPE PRIOR TO REMOVAL. CONSULT WITH LANDSCAPE ARCHITECT BEFORE REMOVALS. CURRENT TARGET SPECIES AREA JAPANESE BARBERRY AND ASIATIC BITTERSWEET:

   A. FOR JAPANESE BARBERRY, EUONYMUS AND ASIATIC BITTERSWEET.

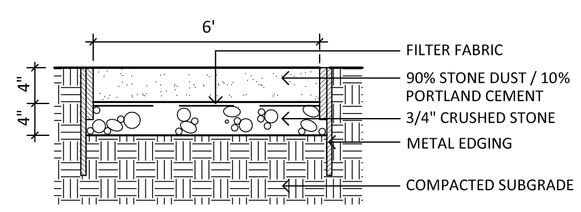
      STEP #1: THE PRIMARY CONTROL SHALL CONTINUE TO BE REMOVAL BY CUTTING AND HAND PULLING. WITH LARGE PLANTS (OVER 1" DIAMETER) HERBCIDE CAN BE APPLIED WITH THE FOLLOWING METHOD.

      STEP #2: (PRIOR TO HERBICIDE TREATMENT): CUT PLANT DOWN TO GRADE LEVEL DURING THE GROWING SEASON (LATE SUMMER OR EARLY FALL IS PREFERABLE). REMOVE ASIATIC BITTERSWEET ROOTS IF FEASIBLE. DISPOSE OF CUT PLANT MATERIAL AS OUTLINED ABOVE.

      STEP #3: IMMEDIATELY AFTER CUTTING, TREAT CUT STEMS WITH AN APPROPRIATE HERBICIDE (SUCH AS ROUND-UP) AT THE RATE AND METHODS RECOMMENDED BY THE MANUFACTURER. CARE SHALL BE TAKEN TO AVOID HERBICIDE CONTACT WITH NATIVE OR OTHER DESIRABLE VEGETATION.

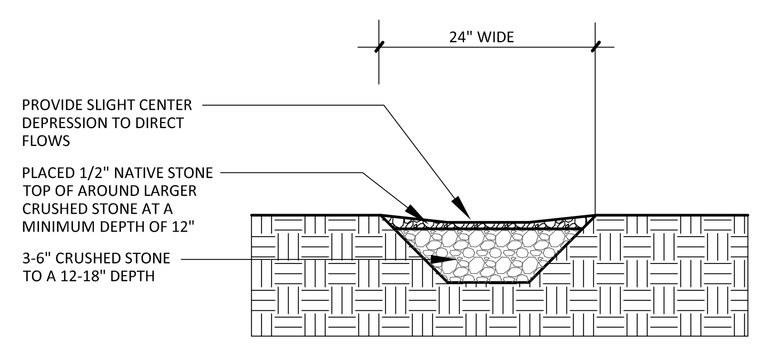
      STEP #4: CHECK CONTROL AREA MONTHLY DURING THE GROWING SEASON FOR NEW GROWTH. SPOT TREAT NEW GROWTH WITH AN APPROPRIATE HERBICIDE AS NEEDED FOR CONTROL.

6. CARE SHALL BE TAKEN TO AVOID HERBICIDE CONTACT WITH NATIVE OR OTHER DESIRABLE VEGETATION. IN AREAS WHERE NATIVE PLANTS ARE GROWING NEAR PLANTS TO BE CONTROLLED, THE HERBICIDE SHALL NOT BE SPRAYED ONTO THE TARGET PLANTS. IN THESE AREAS THE HERBICIDE SHALL BE APPLIED WITH A BRUSH OR CLOTH.



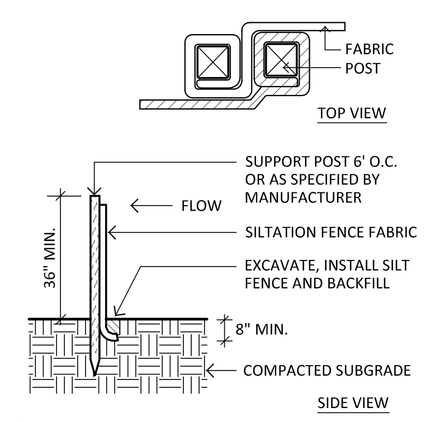
STONE DUST PATH

SCALE: NOT TO SCALE



STONE LEVEL SPREADER FOR FOOTING DISCHARGES

SCALE: NOT TO SCALE



NOTES:

1. POSITION POSTS TO OVERLAP AS SHOWN ABOVE, MAKING CERTAIN THAT FABRIC FOLDS AROUND EACH POST ONE FULL TURN.

2. DRIVE POSTS TIGHTLY TOGETHER AND SECURE POST TOPS BY TYING OFF WITH CORD OR WIRE TO PREVENT FLOW-THROUGH OF BUILT-UP SEDIMENT AT JOINT.

SILT FENCE

SCALE: NOT TO SCALE

REVISIONS:			DRAWING TITLE: DETAILS AND NOTES
			PROJECT: THE SMITH FAMILY 230 RIDGEFIELD ROAD WILTON, CONNECTICUT
			SEAL:

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