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May 10, 2018

Robert Stein, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Greenhill to Bokum Upgrade Project

Dear Chairman Stein:

Attached are an original and fifteen (15) copies of a petition on behalf of The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource") requesting a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modifications to the 1342 transmission line in the Towns of Madison, Killingworth, Clinton, Westbrook, Essex and Old Saybrook ("Petition").

Prior to submitting this Petition, representatives from Eversource briefed municipal officials in Madison, Killingworth, Clinton, Westbrook, Essex and Old Saybrook about the Project and Eversource provided written notice of the proposed work to all abutters and the Petition being filed with the Council. Maps and line lists identifying the abutting property owners who were notified of the Project are provided in Attachment A: Greenhill to Bokum Upgrade Project - Aerial Maps.

A check in the amount of \$1250 was filed with Petition No. 1343 on April 18, 2018 with the understanding that the remaining \$625 would be applied for this Petition. A copy of that check is attached.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kathleen M. Shanley".

Kathleen M. Shanley

Enclosure

cc:

Clinton

First Selectman Christine Goupil

Westbrook

First Selectman Noel Bishop

Essex

First Selectman Norman Needleman

Old Saybrook

First Selectman Carl P. Fortuna

Killingworth

First Selectwoman Catherine Lino

Madison

First Selectman Tom Banisch

THE CONNECTICUT LIGHT AND POWER COMPANY
doing business as
EVERSOURCE ENERGY

**PETITION TO THE CONNECTICUT SITING COUNCIL
FOR A DECLARATORY RULING OF
NO SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT
FOR THE PROPOSED MODIFICATIONS TO THE EXISTING
1342 LINE IN THE TOWNS OF MADISON, KILLINGWORTH, CLINTON, WESTBROOK,
ESSEX, and OLD SAYBROOK, CONNECTICUT**

1. The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource" or the "Company") hereby petitions the Connecticut Siting Council ("Council") for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need ("Certificate") is required pursuant to Section 16-50g et seq. of the Connecticut General Statutes for the modifications to the 1342 transmission line within an existing Eversource right-of-way (the "ROW") from Madison to Old Saybrook (the "Project") that are described herein. Eversource submits that no such Certificate is required because the proposed modifications would not have a substantial adverse environmental effect.

2. Purpose of the Project

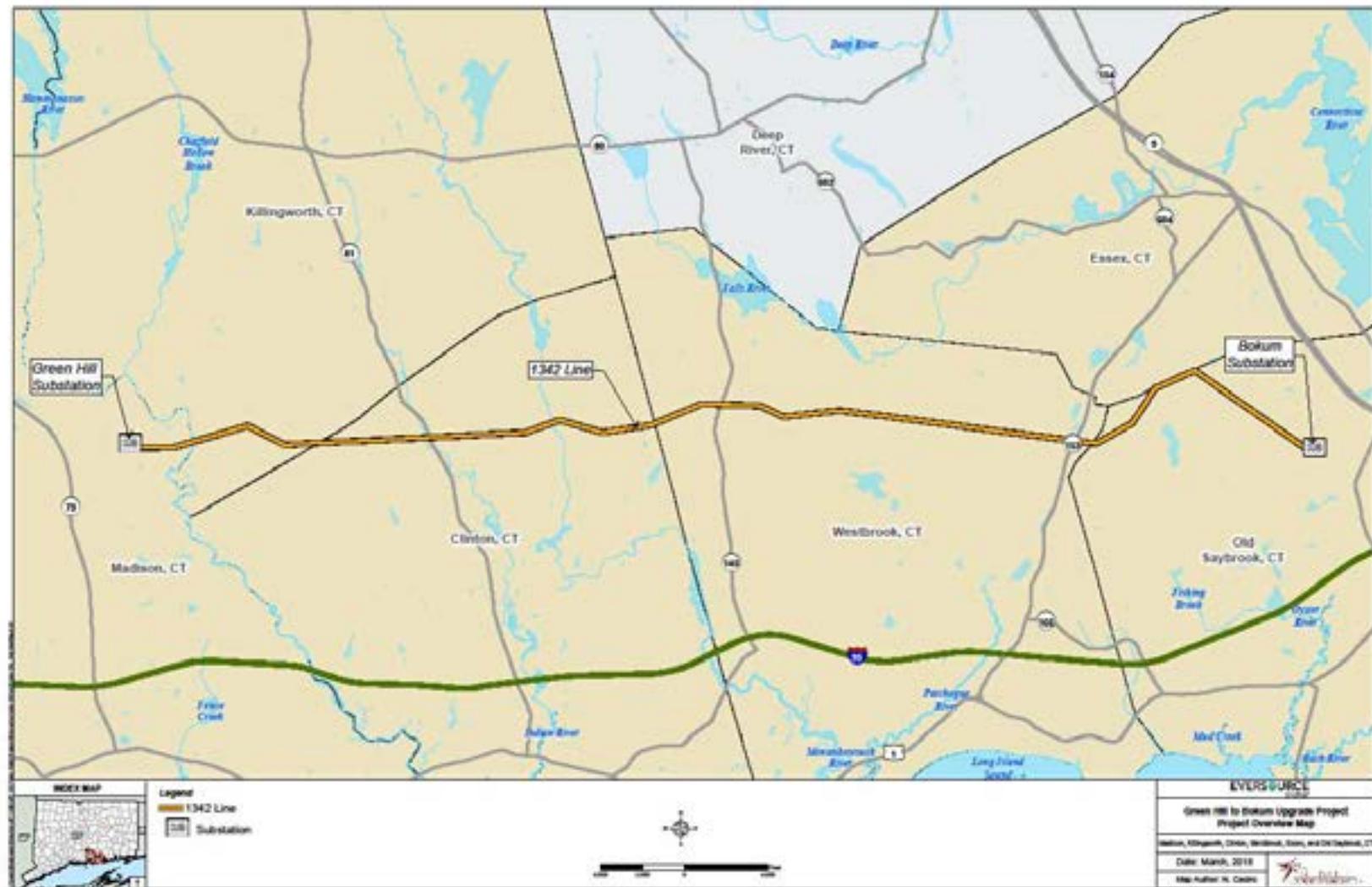
The purpose of the Project is to replace all but six (116 of 122 structures) of the structures along approximately 11 miles of the 115,000-Volt ("115-kV") 1342 Line, located entirely within the ROW between Green Hill Substation, located at 775 Green Hill Road in Madison and Bokum Substation, located at 49 Bokum Road in Old Saybrook.

The 1342 Line was originally constructed in 1976 on 121 single-circuit wood structures and one three-pole wood structure. Most of wood structures have passed their expected life of 40 years and most have been determined to currently have one or more of the following deficiencies: rotting, cracks, split tops and/or woodpecker damage. The structures have also experienced failures of the laminated wood arms¹.

Figure 1 illustrates the general location of the proposed Project.

¹ Six laminated cross arms were replaced between 2012 - 2015

Figure 1: Project Overview Map



3. Project Description

The proposed Project scope is to replace 116¹ wood structures supporting the 1342 Line between Green Hill Substation and Bokum Substation, which is a distance of approximately 11 miles.

Detail of the Project scope would be as follows:

- a) Replacement of 116 existing single-circuit wood monopole structures with 116 single-circuit weathering steel direct embedded monopole structures;
- b) Replacement of the existing 7#8 Alumoweld ground wire with two fiber optic ground wires ("OPGW") along the 1342 Line;
- c) Installation of lightning arresters (approximately every third structure); and
- d) Relocation of the existing 115-kV 795 kcmil conductors to the new structures.

The heights of the existing 1342 Line structures range between 61 to 93 feet above ground level. Thirty-six of the replacement structures will have no increase in height from the existing structures. The remaining 80 proposed structure replacements will have height increases of approximately 1 to 9 feet taller than the existing monopole structures, with the tallest proposed structure being 97 feet above ground level. The reason for the increase in structure heights is to comply with the most recent (2017) National Electric Safety Code clearance requirements and Eversource's engineering standards.

All replacement structures will be direct-embedded. Each proposed structure would be located in-line with the existing structures, and most of the replacement structures would be approximately 10 feet from the existing structure to be replaced. Six of the proposed replacement structures would be located more than 10 feet from the existing structures to avoid and/or minimize wetland impacts. In addition, Structure 4896 would be located out of the wetlands to an upland area approximately 100 feet to the east, across Essex Road (Route

¹ Six structures were replaced in 2012.

153) and within the state highway ROW, in order to minimize potential impacts to the wetland during construction and to facilitate access for future maintenance.

4. Existing Environment, Effects and Mitigation

The proposed transmission line work described above would not have a substantial adverse environmental effect, for the reasons explained more fully below.

The upgrades would be constructed within Eversource's existing ROW. All work within environmentally sensitive areas, such as in water resources or habitat areas identified through the National Diversity Data Base ("NDDB") for state-listed species, would be conducted in accordance with required environmental permits and through the implementation of the Company's 2016 *Best Management Practices Manual for Massachusetts and Connecticut (Construction and Maintenance Environmental Requirements)* ("BMPs"). Work in these areas would employ measures to avoid, minimize and/or mitigate potential adverse environmental effects.

Existing Right-of-Way

The 1342 Line was originally constructed in 1976. The existing structure types include single-circuit wood monopoles, and one three-pole wood structure. The width of the existing ROW is typically 150 feet wide. The currently maintained portion of the ROW varies in width approximately 60 to 80 feet. See Attachment B: Existing/Proposed Cross Section.

Land Use

Land uses adjacent to the Project area consist of a mix of rural, residential, recreational areas (state land), and other undeveloped lands, such as forest areas, and rivers. Though the Project would be traversing through some of these areas, it will not impact adjacent land uses. Eversource will work with any affected property owners on restoration upon completion of the Project.

Clearing and Vegetation Removal

Some tree clearing (an additional ten feet on each side of the ROW) and vegetation removal is required to accommodate access road installation and improvements, for work and pull pad installation, and along the Project ROW where conductor clearance is inadequate. This would

result in a total forest conversion (to scrub-shrub or herbaceous habitat) area of approximately 38.48 acres. No tree clearing is proposed in wetlands. Converting forest (including forested wetland) to shrubland, or emergent vegetation along the transmission line ROW would modify, but not adversely affect, habitat. The creation of additional shrubland and early successional habitat (and the preservation of such existing habitat) along the ROW would represent a long-term benefit for many species of wildlife because shrubland habitat is otherwise declining in New England.

During vegetation removal, construction mats would be used to provide a stable base for equipment across watercourses or within wetlands and may also be utilized in floodplain areas unless dry conditions allow for conventional access. Such temporary support would minimize rutting in wetlands, and the mats would be removed after the activities are complete.

Scenic, Recreational and Cultural Resources

No state or local designated scenic roads or vistas were identified within the Project area.

The Project crosses undeveloped land in Essex and Old Saybrook located between Essex Road (Route 153) and Bokum Substation and is known as “The Preserve”. The Preserve was recognized as the largest remaining unprotected coastal forest between Boston and New York before its acquisition for conservation in 2015. A portion of the Preserve, including areas needed for off-ROW Project access in Essex, are owned and managed by the Essex Land Trust, with the majority of the remaining acreage jointly owned by the State of Connecticut and the Town of Old Saybrook. The Preserve is managed as part of the state forest system and open to the public for passive recreation through a network of trails and publicly accessible trail-heads. There are several trail crossings of the ROW within the Project area. Eversource would coordinate with the owners or managers of these public recreational areas to develop measures to maintain public safety during Project construction, while also avoiding or minimizing short-term impacts to recreational users.

Cultural resources assessments of the Project area are being conducted by Heritage Consultants, LLC (“Heritage”). A Phase 1 (preliminary archaeological and historical resources assessment) was completed.

Based on the results of the Phase 1 assessment, a Phase 1B cultural resources reconnaissance survey (shovel testing) was recommended where Project activities are

proposed in areas that were determined to have a moderate/high potential for yielding intact archaeological (below ground) deposits. Tribal Historic Preservation Office(s) ("THPO") of the Mashantucket Pequot Tribal Nation and the Mohegan Tribe of Connecticut Indians were notified of the intent to perform a Phase 1B survey. The Phase 1B survey was completed in April 2018 and it was determined that no additional testing of these areas is recommended prior to construction. No National or State Registers of Historic Places ("NHRP/SRHP") eligible archaeological resources were identified. The results of the Phase 1B surveys will be provided to the Connecticut State Historic Preservation Office ("SHPO") and THPOs upon completion of the final report documenting the results of the shovel testing.

No NRHP or SRHP listed properties or historic districts (built or above-ground resources) are located within or adjacent to the Project. See Attachment C: Cultural Heritage Report.

Wetlands, Watercourses, Waterbodies and Flood Zones

Davison Environmental identified and delineated water resources in the vicinity of the Project in spring and summer 2016 (see Attachment D: Wetlands and Watercourses Report and Attachment E: Vernal Pool Survey and Recommended Protection Measures). Water resources within the Project area include inland wetlands, watercourses (perennial and intermittent streams), ponds, vernal pools, and Federal Emergency Management Agency ("FEMA") Flood Zones. All work in or near these areas would be conducted in accordance with the Eversource's BMPs and with the conditions of applicable regulatory permit conditions and approvals. Detail on each of these resource areas is provided below.

Wetlands

Wetlands in the Project area were identified and delineated in accordance with industry standard methodology. A total of 65 wetlands were identified in or proximate to the Project area.

Permanent wetland effects would result from the replacement of four existing monopole structures (4818, 4827, 4879, 4908) which are located in wetlands. The replacement of these structures would result in approximately 219 square feet of permanent wetland effects. In order to minimize disturbance to the wetland, the existing wood monopole structure will be cut approximately 6 inches above grade and removed, and the pole butt left in place.

The Project will result in approximately 3.32 acres of temporary effects to wetlands, which are associated with the temporary use of construction mats for access roads and work pads. All construction mats will be promptly removed upon Project completion and wetland areas will be restored in accordance with Eversource's BMPs.

Watercourses and Waterbodies

A total of 27 watercourses and waterbodies were delineated within the Project area. These include two rivers, 10 perennial watercourses (two named and eight unnamed), 10 intermittent watercourses, and five unnamed ponds. Named watercourses include the Hammonasset River, Menunketesuck River, Plane Brook, and Trout Brook.

No new permanent access road or work pad watercourse crossings will be required. Existing culverted access road crossings will be used at various locations throughout the Project ROW. In addition, a total of 13 temporary watercourse crossings will be required during construction, including five for work pads and eight for access roads. Each of these crossings will be spanned using temporary construction mats. All construction mats will be promptly removed upon Project completion and wetland areas will be restored in accordance with Eversource's BMPs. The following Table W-1 provides a summary of Project effects to wetlands:

Table W-1: Summary of Project Effects to Wetlands

Wetland / Watercourse ID	200 Scale Map Sheet	Wetland/Watercourse* Effects (± square feet / acres)	
		Temporary (Matting)	Permanent (Structures)**
W2 / S2	02	2,856 / 0.07	0
W5	03	14,242 / 0.33	50 / 0.001
W8	04	6,914 / 0.16	0
W9	04	14,809 / 0.34	46 / 0.001
W11 / S6 / S7 / S8	05	20,761 / 0.48	0
W14 / S9	06	1,383 / 0.03	0
W15 / S10	06	667 / 0.02	0
W16 / S11	06	153 / 0.004	0
W17 / S12	06	7,162 / 0.16	0
W18	07	2,337 / 0.05	0
W27 / S16	09	2,681 / 0.06	0
W31	10	5,771 / 0.13	0
W37	11	6,073 / 0.14	0
W43	12	5,677 / 0.13	23 / 0.0005
W46	13	8,471 / 0.19	0
W48	13	1,605 / 0.04	0
W51	14	2,074 / 0.05	0
W53 / S20	15	5,305 / 0.12	0
W54	15	21,040 / 0.48	0
W55 / S21	15	893 / 0.002	0
W56	16	869 / 0.02	0
W59	17	669 / 0.02	0
W60	17	7,123 / 0.16	50 / 0.001
W64	18	1,397 / 0.03	0
W65	19	3,839 / 0.09	0
TOTAL		144,771 sq ft / 3.32 acres	169q ft / 0.004

* Watercourses will be spanned, no direct effects (temporary or permanent fill) are proposed.

** Assumes 8' diameter total fill.

Vernal Pools

The Project area was surveyed for vernal pools in spring 2016. Survey methods used included visual surveys to identify adults, larvae and egg masses, audial surveys to record breeding choruses and dip-net surveys to identify amphibian larvae. A total of 23 vernal pools were identified and delineated. Vernal pools and vernal pool envelopes (area within 100 feet of a vernal pool depression) are shown in Attachment A: Greenhill to Bokum Upgrade Project Aerial Maps. The survey results and recommended protection measures are provided in Attachment E: Vernal Pool Survey.

The Project ROW lies within the Eastern Coastal Ecoregion (Dowhan and Craig, 1976), along the northern limits of Connecticut's Coastal Slope. This area is characterized by small, disconnected rocky ridges with abundant shallow-to-bedrock soils that support perched wetlands and vernal pools, as well as headwater swamps.

Due to the proximity of vernal pools to existing structures proposed for replacement, approximately 11,106 square feet of temporary matting will be required in vernal pools 4 and 13 (at structures 4827 and 4879). In addition, utilizing an existing access to structure 4902 will require matting over a small portion of vernal pool 20. This crossing has been historically used for access, and represents a small, disturbed portion of a larger vernal pool that extends off-ROW.

To minimize potential effects to vernal pools, Eversource has adopted the recommended protection measures detailed in Attachment E. These protection measures, and details regarding Eversource's adoption of these measures (*in italics*) are summarized as follows:

1. Avoidance and/or minimization of construction activities in vernal pools where feasible;

Due to the location of existing structures proposed for replacement, the placement of temporary matting for work pads in vernal pools is unavoidable at two locations. At one location (structure 4879) the existing and proposed structures are located along the edge of vernal pool 13. Based on a field review of this location, Eversource determined that moving this structure east or west would result in more disturbance to vernal pool 13 due to the configuration of the pool along the transmission line, vernal pool to the west, bedrock outcrops to the east (which require significant earthwork to remove), and the presence of an historic access road to the existing structure location that can be utilized during construction with temporary matting.

At the remaining work pad location, the proposed structure has been shifted 20 feet away from the vernal pool, a distance sufficient to minimize work in this vernal pool during future maintenance work (since the existing structure is currently located less than 10 feet away, avoidance during Project construction was not possible).

2. Work in vernal pools should be conducted between November 2018 and March 2019, outside of the high sensitivity period for both spring (e.g., spotted salamander and wood frog) and fall migrating/breeding (marbled salamander) vernal pool indicator species. High sensitivity periods include the migration/breeding period and the metamorph emergence/early dispersal periods;

Project civil construction, including work in vernal pools, is scheduled to occur between November 2018 and March 2019 outside of the high sensitivity period for both spring and fall breeding vernal pool species.

3. Work pads in vernal pools should be minimized to the greatest extent practicable. Matting in vernal pools should be limited to previously disturbed areas within the maintained ROW and elevated on runners to minimize ground contact and potential alteration of pool microtopography;

Where work pads in vernal pools are required, the sizes of these pads have been minimized to the greatest extent possible by scheduling the work at these locations during planned Project outages, thereby minimizing the size of the pads needed to safely perform work. Work pads will be limited to previously disturbed areas within the maintained ROW, and matting proposed in vernal pools will be elevated on runners to minimize ground contact and potential impact to pool microtopography.

4. Permanent alteration of habitat should be avoided within vernal pool envelopes. Temporary matting should be utilized for access roads and work pads in vernal pool envelopes;

Temporary matting will be utilized for access roads and work pads in vernal pool envelopes, where feasible. In some locations, grading may be required to safely install matting, however no permanent deposition of gravel is proposed. Temporary matting would be removed from vernal pool envelopes after the Project is complete.

5. If possible, no tree clearing should occur within vernal pool envelopes;

No tree clearing is proposed in vernal pool envelopes. Where potential conflicts were identified, work pads were reconfigured to avoid tree clearing.

FEMA Flood Zones

The Project ROW extends across 100- and 500-year FEMA flood zones associated with the Hammonasset River in Madison, the Menunketesuck River and three additional unnamed water resources in Clinton, and three unnamed water resources in Westbrook.

Four replacement structures (4834, 4843, 4844, 4858) are proposed to be located within a 100-year flood zone. In addition, work activities and materials would be located within 100-year flood zones at structures 4834, 4837, 4842, 4843, 4844, 4858, and 4896. Two temporary work pads, and one temporary access road are proposed within 500-year flood zones.

Eversource would utilize its BMPs to minimize any impacts in these areas including the use of construction mats for work pads and access roads to ensure that hydrology is not adversely affected. All construction mats would be removed after the Project is complete. Areas of disturbance would be promptly stabilized in order to minimize the potential for soil erosion and the discharge of sediment into nearby resource areas. Prior to significant storm events, Eversource will secure the construction mats to impede lateral movement during temporary flooding. Accordingly, the Project would have only a de minimis effect on the flood storage capacity of the affected flood zones.

Water Supply

The Project is not located within a public water supply watershed and no public water supply reservoirs are located within the Project area. Residences within the Project area are generally served by public and private water supply wells. A review of the most recently (September 2017) updated Aquifer Protection Area ("APA") mapping maintained by the Connecticut Department of Energy and Environmental Protection ("CT DEEP"), indicates that structures 4895 through 4900 in the vicinity of Essex Road (Route 153) in Westbrook and Old Saybrook are located within the Holbrook APA.

The Holbrook APA is associated with a public water supply well in the Connecticut Water Company's ("CT Water") Guilford Water System, which serves customers in the towns of Guilford, Madison, Clinton, Westbrook and Old Saybrook. The water supply well is located approximately 100 feet south of the ROW near Structure 4896 (proposed for replacement). Structure 4896 is located adjacent to Essex Road in a wetland (now a beaver impoundment/pond) within both the Holbrook APA and on CT Water property. Due to the location of this structure, a temporary work pad and access road may be required within the wetland. Eversource is working with the Connecticut Department of Transportation to obtain access to this structure from Essex Road (Route 153), which would eliminate the need for a temporary work pad and access in the wetland.

In order to minimize potential impacts to this area, both during Project construction and future maintenance, Eversource has proposed to locate new structure 4896 approximately 100 feet to the east in an upland area across Essex Road. Since the work pad in the wetland will be required for removal of the existing structure only, the pad size has been reduced to 80 feet by 75 feet, from 125 feet by 75 feet.

Eversource will adhere to best management practices for the proper storage, secondary containment, and handling of diesel fuel, motor oil, grease and other lubricants to protect water quality within this area.

Wildlife and Habitat

The Project would not have a substantial adverse environmental effect on wildlife or wildlife habitat. Eversource has corresponded with the CT DEEP Bureau of Natural Resources Wildlife Division NDDB regarding protection of state-listed species within the Project area. Eversource is awaiting a response from CT DEEP and will adhere to any additional recommendations and or protection strategies that may be identified.

The Project ROW crosses a New England Cottontail (“NEC”) Focus Area in The Preserve. Conservation focus areas help biologists and habitat managers concentrate efforts in areas where they will have the greatest effect. Almost all known NEC populations in Connecticut occur within the designated focus areas. In 2015, the USFWS announced that due to ongoing conservation efforts, the NEC would no longer be listed as a having threatened or endangered status. However, a critical factor in reaching this decision was that NEC conservation efforts continue. Shrubland habitat, which is maintained by Eversource within transmission line ROWs, provides optimal NEC habitat. Working with The Preserve, Eversource is proposing to reduce all constructed gravel work pads to 50 feet by 50 feet, to minimize potential effects to NEC habitat. This information was also included in the Project’s NDDB correspondence with CT DEEP.

The Federal Endangered Species Act Compliance map (dated February 1, 2016) indicates that there is currently no known Northern long-eared bat (“NLEB”) areas of concern (hibernacula or maternity roost trees) in proximity to the Project area. The NLEB was also state-listed endangered in August 2015. If the Project’s NDDB consultation indicates the potential presence of NLEB in proximity to Project activities, Eversource will adhere to any recommended protection strategies that may be requested.

Visual Effects

Some clearing is required for the Project in order to accommodate the works pads, pull pads and access roads. All replacement structures will utilize weathering steel and will look similar to the original wood structures. Replacement structures would be located near existing structure locations, except for structure 4896 which will be relocated to state highway right-of-way, as noted earlier. The height of the proposed structures would generally be approximately 1 to 9 feet higher than the existing structures, 36 structures will remain the same height. The height differences are not anticipated to result in a significant change to the visual effect of the structures and line.

Air Quality

Short-term, localized effects on air quality may result from the work, primarily from fugitive dust and equipment emissions. To minimize the amount of dust generated by construction activities, the extent of exposed/disturbed areas at any one time would be minimized. Temporary gravel tracking pads would be installed at points of construction vehicle ingress/egress to minimize the potential for equipment to track dirt onto local roads. To further minimize dust, water may be used to wet down disturbed soils or work areas with heavy tracking as needed. Vehicle emissions will be limited by requiring contractors to properly maintain construction equipment and vehicles, and by minimizing the idling time of equipment and vehicles, including diesel construction equipment, in accordance with Connecticut regulatory requirements.

Noise

During construction, any impacts to existing noise levels would be short-term and localized in the vicinity of the work sites. There would be no permanent changes to the noise levels along the transmission ROW from the Project.

Radio and Television Interference

No radio or television interference would result from the Project.

5. Traffic, Construction Sequence and Methods

Traffic/Traffic Management

Construction vehicles and equipment associated with the work would include pickup trucks, bucket trucks, concrete trucks, drill rigs, front loaders, reel trailers, bulldozers, wood chippers, cranes, forklifts, side booms, dump trucks and cranes. Pullers, tensioners and helicopters will be used for the OPGW installation.

Construction-related vehicular and equipment movements would occur on public roads in the Project area. However, the Project-related traffic is generally expected to be temporary and highly localized in the vicinity of the ROW and staging areas. Due to phasing of construction work, these Project-related traffic movements are not expected to significantly affect transportation patterns or levels of service on public roads.

To safely move construction vehicles and equipment onto and off of the ROW while minimizing disruptions to vehicular traffic along public roads, Eversource or its Project contractor would, as appropriate, work with town and local representatives and/or the Connecticut Department of Transportation to develop and implement traffic management procedures, as needed. The construction contractor is typically responsible for posting and maintaining construction warning signs along public roads near work sites and for coordinating the use of flaggers or police personnel to direct traffic, as necessary.

Construction Sequence

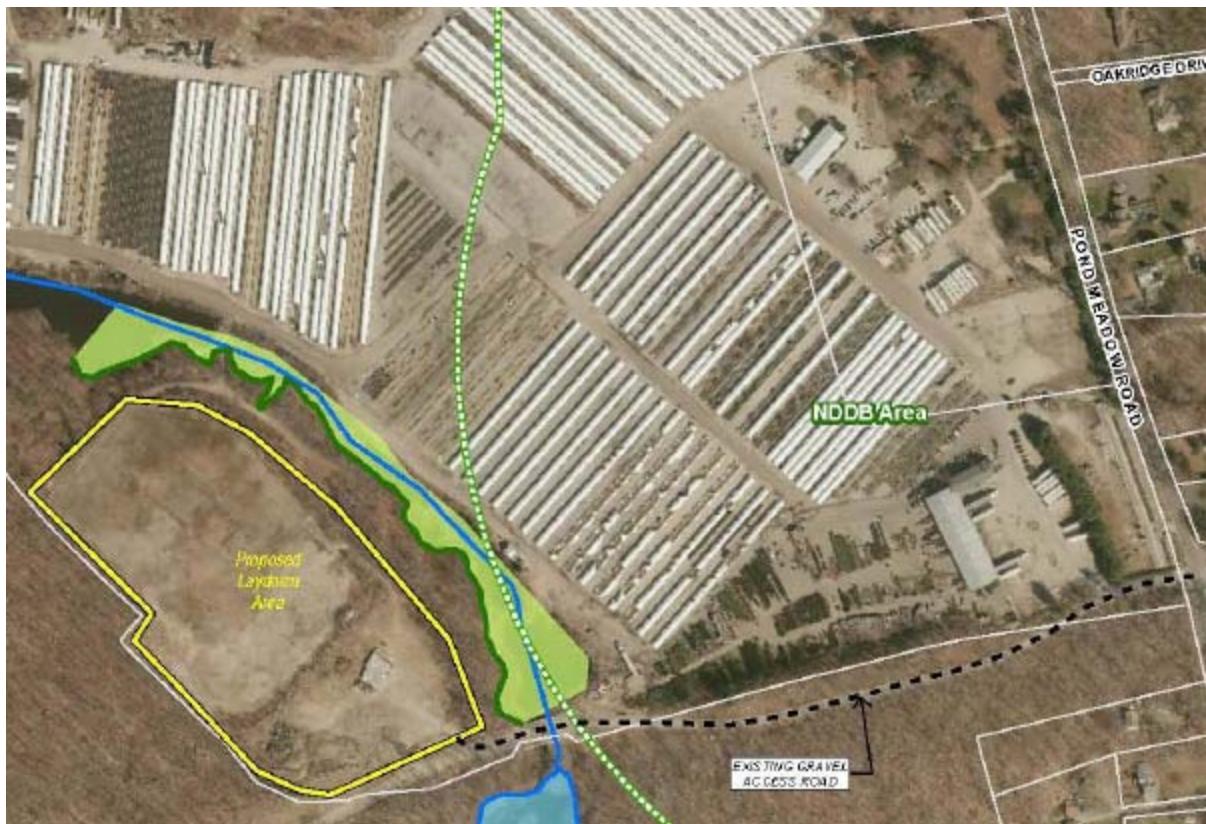
Preparation of the ROW would include the following activities:

Establishing Staging Areas

Eversource would be storing equipment and materials at the existing staging area/laydown yard at 517 Pond Meadow Road, Westbrook (See Figure 2). On February 9, 2018, the CSC approved the staging area/laydown yard under Petition No. 1337. Office trailers and components removed during the work (structures, conductor, hardware and insulators) may be temporarily accumulated and stored at the staging area prior to removal off-site for salvage and/or disposal. The staging area would also be used by construction crew members for parking personal vehicles as well as for construction vehicles and equipment

storage, and for performing minor maintenance, when needed, on construction equipment.

Figure 2: Staging Area/Laydown Yard



Clearing and Vegetation Removal

Preparation of the ROW, would include vegetation removal, trimming or mowing within the managed portion of the ROW to accommodate the construction of access roads and work/pull pads. Additionally, approximately 10 feet of vegetation edge clearing on both sides of the ROW would be required in order to provide the required clearances for the reliable operation of the transmission line. See Attachment B: Existing/Proposed Cross Section. Eversource would conduct tree clearing and vegetation removal activities in accordance with its BMPs.

During tree clearing and vegetation removal, construction mats will be used to provide a stable base for equipment across watercourses or within wetlands. Such temporary

support would minimize rutting in wetlands and would be removed after the vegetation removal activities are completed.

Eversource would require the contractor to use low-impact mowing/vegetation removal methods, where possible, to maintain vegetation and to protect wetlands, watercourses, threatened and endangered species and their habitats, and cultural resources. Low-impact mowing/vegetation removal incorporates a variety of approaches, techniques, and equipment to minimize site disturbance. Eversource would require the contractor to use such low-impact methods, depending on site-specific considerations, as:

- Take into consideration soil and weather conditions when scheduling vegetation removal activities such as heavy rainfall.
- Maximize the use of uplands for access routes.
- Use appropriate equipment for the site conditions to minimize impacts to the extent practicable.
- Cut shrubs close to the ground, leaving root systems and stumps, where practical, to provide additional soil stability.

Soil Erosion and Sediment Control Installation, Inspection, and Maintenance

Project construction would conform to best management practices for E&S control, including those provided in the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control* ("Connecticut Guidelines") and Eversource's BMPs. This will include the development of a project specific Stormwater Pollution Control Plan ("SWPCP") and registration under CT DEEP's *General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, effective 10/1/13* ("General Permit").

Typical E&S control measures include, but are not limited to, straw blankets, straw bales, silt fencing, rock construction entrances, soil and slope protection, water bars, check dams, berms, swales, and sediment basins. Silt fence would be installed where necessary prior to construction to intercept and retain sediment and/or construction materials from disturbed areas and prevent such materials from discharging to water resources or off ROW. Temporary E&S control measures would be inspected and maintained throughout the Project to ensure their integrity and effectiveness and for compliance with the General Permit. The SWPCP inspections will be in accordance with the General Permit

requirements. Following completion of construction, seeding and mulching would be undertaken to permanently stabilize the areas disturbed by the work. The temporary E&S control measures would remain in place until the Project work is complete and all disturbed areas have been deemed and remain stabilized.

Access Roads and Work Pads

Access to each proposed transmission structure location is required for Project construction. As a result of the operation and maintenance of the existing transmission lines within this ROW, the access roads are already established and minimal new access roads would be required.

The existing access roads may need to be graded, widened, and/or reinforced with additional material in order to accommodate the safe passage of construction vehicles and equipment. Access road improvements typically include trimming adjacent vegetation and widening roads as needed to provide a minimum travel surface that is approximately 12 to 16 feet wide (additional width may be needed at turning or passing locations). Access roads would typically be graveled; however, where access roads traverse streams or wetlands, construction mats would be used. E&S controls would be installed as necessary before the commencement of any improvements to or development of access roads.

Additionally, off-ROW access roads, some requiring improvement, would also be utilized to access the Project ROW in some locations. Access roads and off-ROW access roads to be used for the proposed Project are illustrated on the maps in Attachment A.

At each transmission structure site, a work pad would be required to stage material for final on-site structure assembly and/or removal, and to provide a safe, level work base for the construction equipment. Typical work pads would be approximately 150 feet by 125 feet and the pulling areas would be approximately 125 feet by 75 feet, as limited by the size of the ROW contours.

The preliminary location and configuration of the work pads, as determined based on the environmental field studies and constructability reviews, are shown on Attachment A.

A typical (upland) installation of a work pad at a structure location involves several steps: (1) removal of vegetation, if necessary; (2) the work pad site would be graded to create a

level work area, and; (3) the upper three to six inches of topsoil (which is typically unsuitable to support the necessary construction activities) would be removed. The topsoil would be temporarily stockpiled within the ROW, typically near the work pad. A rock base, which allows drainage, would be layered on top of filter fabric, if necessary. Additional layers of rock with dirt/rock fines are typically placed over this rock base.

To facilitate transmission line maintenance, access roads and work pads located in uplands would be left in place, unless the property owner requests their removal. Stone walls that will be encountered during the work, may be temporary removed during construction. No new permanent work pads are proposed in wetlands or streams. Excavated soils that are generated during construction activities would not be stored or stockpiled inside of a wetland, or adjacent to a watercourse. Materials that cannot be utilized as back fill would be disposed in accordance with CT DEEP regulations.

Foundation Installation

The proposed structures will all be direct-embedded. Following the installation of work pads, a corrugated steel can would be installed for the direct-embedment foundation. The construction would require equipment such as: augers, drill rigs, cranes, excavators and dump trucks for crushed rock backfill. If groundwater is encountered, pumping (vacuum) trucks or other suitable equipment would be used to pump water from the excavated areas before structure erection. The water would then be discharged in accordance with applicable local, state, and federal requirements.

As needed, counterpoise installation would also take place at this time. Depending on site-specific soil conductivity, supplemental grounding will be installed. Backhoes or excavators would be used to install the counterpoise.

Structure Assembly/Installation

Sections for the new monopoles, structure components and hardware would be delivered to each individual structure location using a flat-bed truck and then assembled and erected using a crane and bucket trucks.

Conductor and Shield Wire

Once all the new structures are erected the existing conductor will be transferred, sagged and clipped to the new monopole structures. The existing structures will then be demolished and removed and the OPGW installation will commence. The equipment required for these activities would be generally the same as required for installing the new structures with the addition of pullers and tensioner required for the OPGW installation.

Restoration

Restoration cleanup and restoration activities within the ROW would include the removal of signs, flagging, as well as the removal of temporary construction mats and work/pull pads within improved areas. Areas affected by construction would be re-graded as practical and stabilized by using revegetation or other measures before removing the temporary E&S controls. Eversource will work with affected property owners for the restoration of stone walls that may be impacted during construction.

Waste Management

Waste materials, such as structure components (i.e., structural steel, shield wire, associated hardware, etc.) and any other construction debris would be disposed of in accordance with Eversource's BMPs, applicable regulations or recycled consistent with Eversource policies.

Excess soils would be managed in accordance with the *Connecticut Guidelines*, the Eversource's BMPs, applicable regulations and disposal facility policies.

Dewatering during construction activities would be conducted in accordance with 2002 *Connecticut Guidelines for Soil Erosion and Sediment Control*, the Eversource's BMPs and applicable regulations.

Construction Schedule and Work Hours

Normal work hours would be Monday through Saturday from 7:00 AM to 7:00 PM. Sunday work hours may be necessary due to delays caused by inclement weather and/or outage constraints. Multiple crews may work concurrently on different sections of the line.

6. Electric and Magnetic Fields

Electric and magnetic fields (“EMF”) are forms of energy that surround an electrical device when it is operable and/or operating. Electric fields (“EF”) are produced within the area surrounding a conducting object (e.g., a wire) when a voltage is applied to it and are measured in units of kilovolts per meter (“kV/m”). The level of an EF near an energized power line depends on the applied voltage, the distance between the conductors, and the distance to the measurement location.

Magnetic fields are produced within the area surrounding a conductor or device that is carrying an electric current and are measured in units of milliGauss (“mG”). The level of the magnetic field near line conductors carrying current depends on the magnitude of the current, the distance between conductors, and the distance from the conductors to the measurement location.

Electric and magnetic field levels along the Project transmission corridor are expected to remain relatively unchanged as a result of this project.

Calculated fields under Average Annual Loading Conditions are summarized in Table E-1 below. See Figure 1 for the calculated magnetic fields and Figure 2 for the calculated electric fields below.

While there are no state or federal guidelines that govern electric and magnetic fields, the scientific community has identified limits for safe exposure. These limits are identified by the International Council on Non-Ionizing Radiation Protection (“ICNIRP”) and the International Council on Electromagnetic Safety (“ICES”) and are tabulated in Table E-2. It should be noted that the fields from the proposed Project are well below these limits.

Table E-1 - Summary of Calculated Electric and Magnetic Fields

Electric Field (kV/m)			
	North Edge of ROW	Maximum in ROW	South Edge of ROW
Existing	0.54	0.98	0.06
Proposed	0.56	0.96	0.07
Magnetic Field (mG)			
	North Edge of ROW	Maximum in ROW	South Edge of ROW
Existing	24.5	60.2	5.2
Proposed	25.2	61.7	5.4

Table E-2 - Reference levels for whole body exposure to 60-Hz fields: general public

	EF (kV/m)	MF (mG)
ICNIRP	4.2	2,000
ICES	5.0	9,040

Figure E-1 - Calculated Magnetic Fields

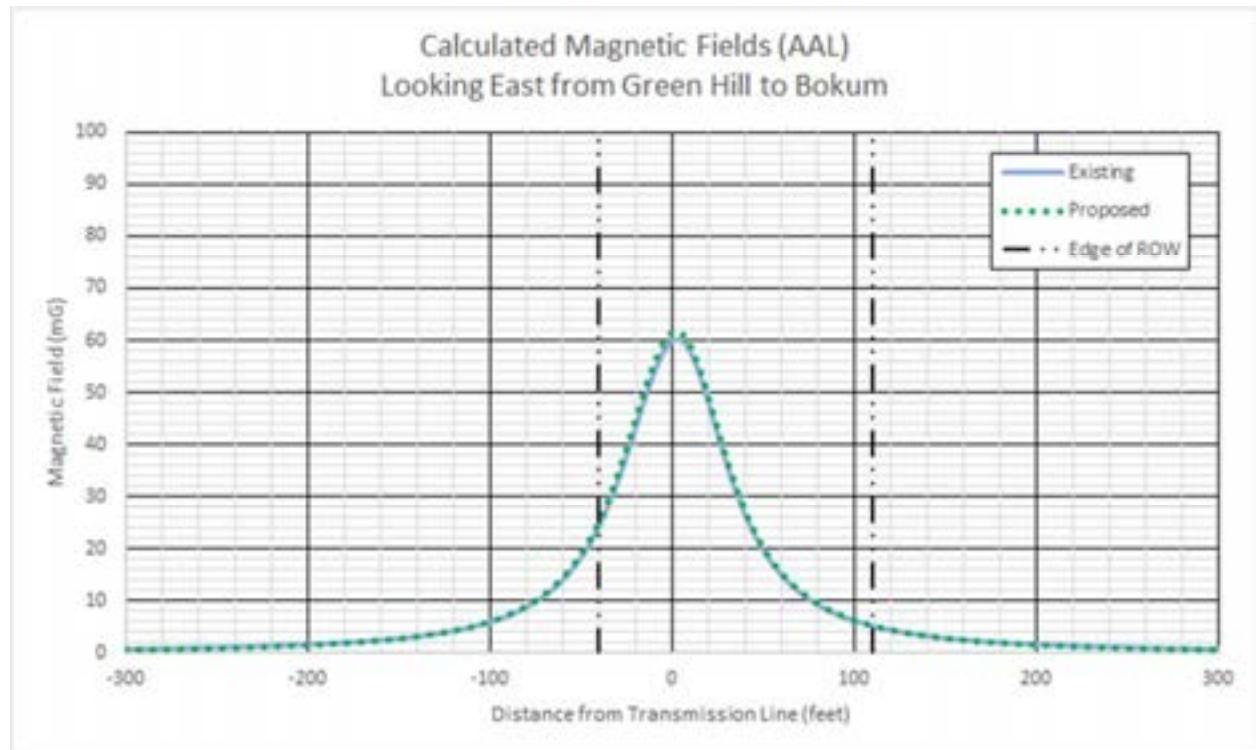
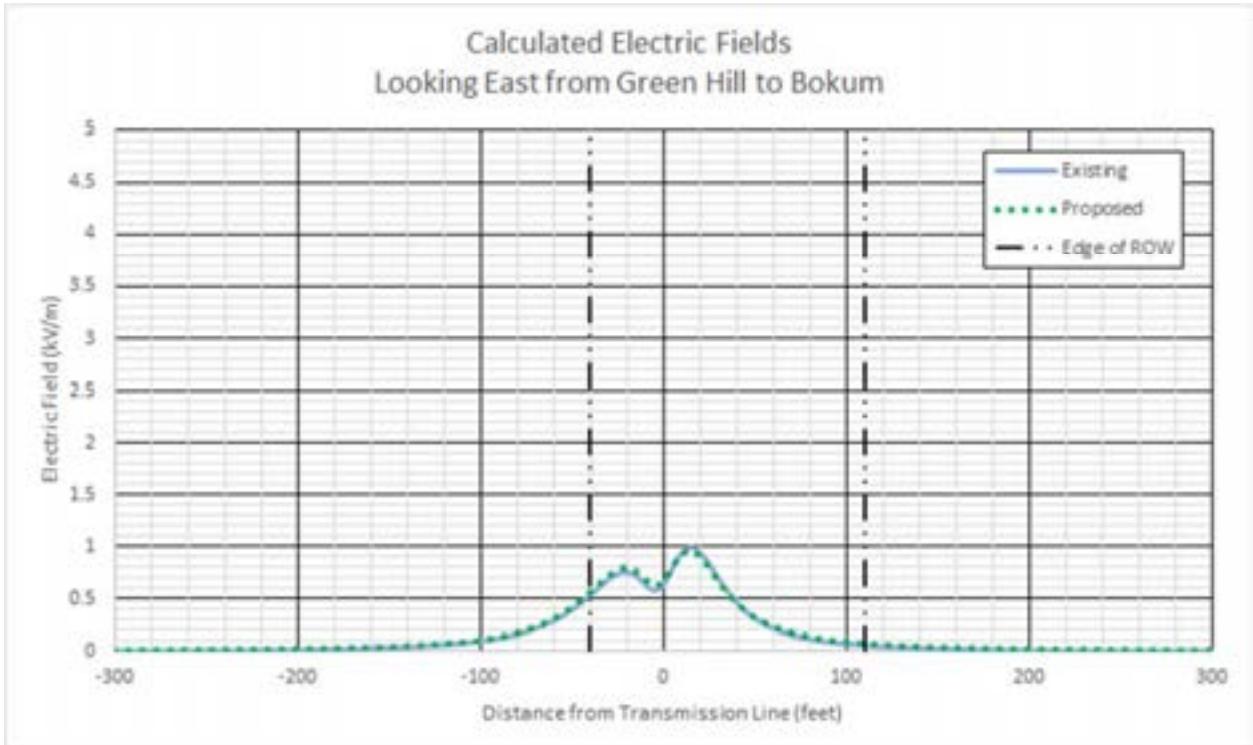


Figure E-2 - Calculated Electric Fields



7. Municipal and Property Owner Outreach

In February and March 2018, Eversource consulted with the municipal officials in the Towns of Madison, Killingworth, Clinton, Westbrook, Essex and Old Saybrook to brief them on the proposed Project. Eversource also provided representatives of the Towns with written notice of the Petition filing.

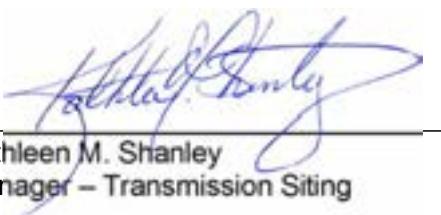
In February 2018, Eversource initiated outreach to property owners located along the ROW. In addition to conducting outreach to those directly abutting the ROW, Project Outreach representatives conducted door-to-door outreach to an expanded area of abutters in locations where it is anticipated other nearby property owners may see or hear construction due to the presence of a nearby access road, substation or other proposed project impact. In conjunction with the submission of this Petition, all abutting property owners were notified of the filing and provided information on how to obtain additional information on the Project, as well as how to submit comments to the Council. Further, Eversource representatives will contact abutting and nearby property owners to provide advance notification to them as to the start of construction activities and will continue to update property owners throughout construction and restoration.

- 8.** Section 16-50k(a) of the Connecticut General Statutes provides that a Certificate of Environmental Compatibility and Public Need is needed for proposed modifications of a facility that the Council determines may have a "substantial adverse environmental effect." Eversource respectfully submits that the proposed modifications would not result in a substantial adverse effect on the environment or ecology, nor would they damage existing scenic, historical or recreational values. Accordingly, Eversource requests that the Council issue a declaratory ruling that the proposed modifications would have no substantial adverse environmental effect and, therefore, no Certificate is required.

9. Communications regarding this Petition for a Declaratory Ruling should be directed to:

Kathleen M. Shanley
Manager – Transmission Siting
Eversource Energy
PO Box 270
Hartford, CT 06141-0270
Telephone: (860) 728-4527

By:



Kathleen M. Shanley
Manager – Transmission Siting

List of Attachments

- Attachment A: Green Hill to Bokum Upgrade Project – Aerial Map
- Attachment B: Existing/Proposed Cross Section
- Attachment C: Cultural Heritage Report
- Attachment D: Wetlands and Watercourses Report
- Attachment E: Vernal Pool Survey
- Attachment F: Letter to the Abutters and Affidavit

ATTACHMENT A



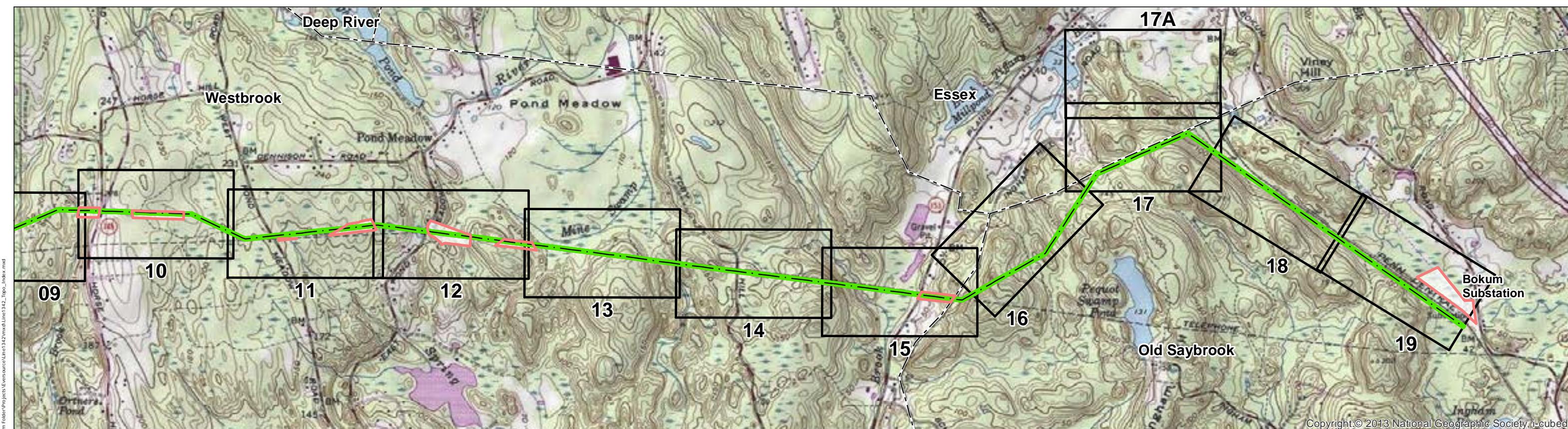
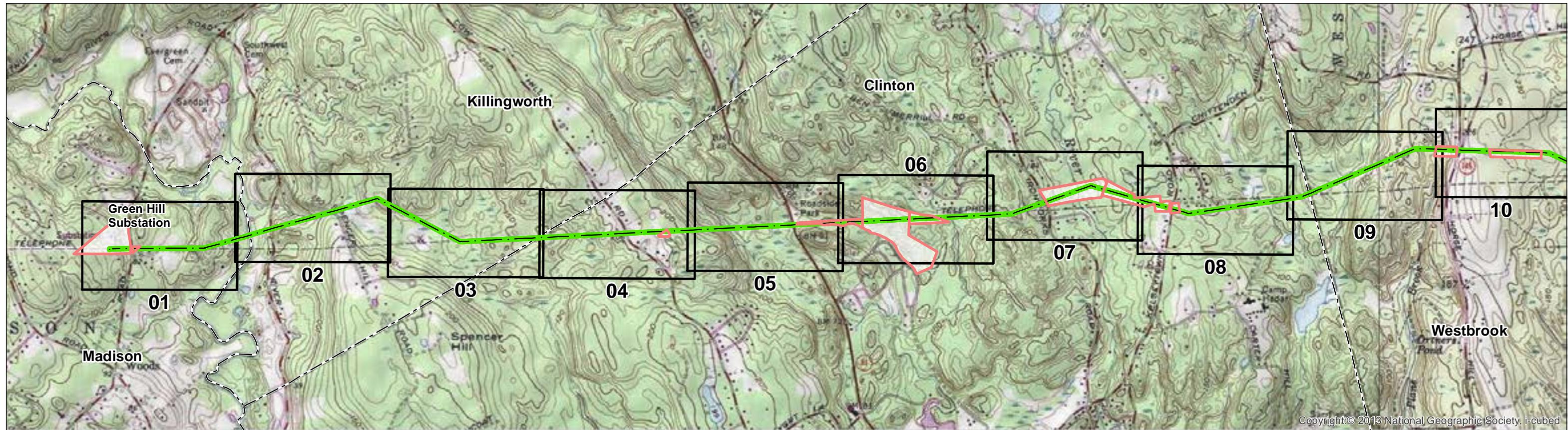
Green Hill to Bokum Upgrade Project

Aerial Maps

**Towns of Madison, Killingworth, Clinton, Westbrook,
Essex, and Old Saybrook Connecticut**

May 9, 2018

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MAPSHEET 1 of 19

Green Hill to Bokum Upgrade Project

Green Hill Substation to Existing Structure 4810

Town of Madison, Connecticut

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Residential
- Eversource owned property (Green Hill Substation)
- Natural Diversity Database Area

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use & Resource Areas

- Maintained ROW
- Residential from structure 4805 to 4810
- Eversource owned property adjacent to structure 4804 (Green Hill Substation) and 4805
- Natural Diversity Database Area near structure 4810

Water Resources

- Wetlands – None
- Wetland Cover Types – N/A
- Watercourses – None
- Vernal Pools - None

Wetland and Watercourse Crossings

- None

Right-of-Way Vegetation

- Scrub-shrub
- Forest
- House/yard

Access

- Structure 4804: existing access from Green Hill Substation (Green Hill Road)
- Structure 4805: from Beekman Place
- Structure 4806 and 4807: existing access from Saint James Court

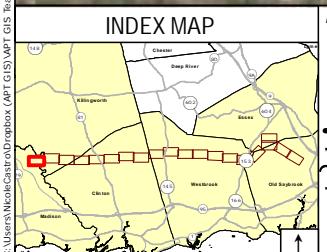
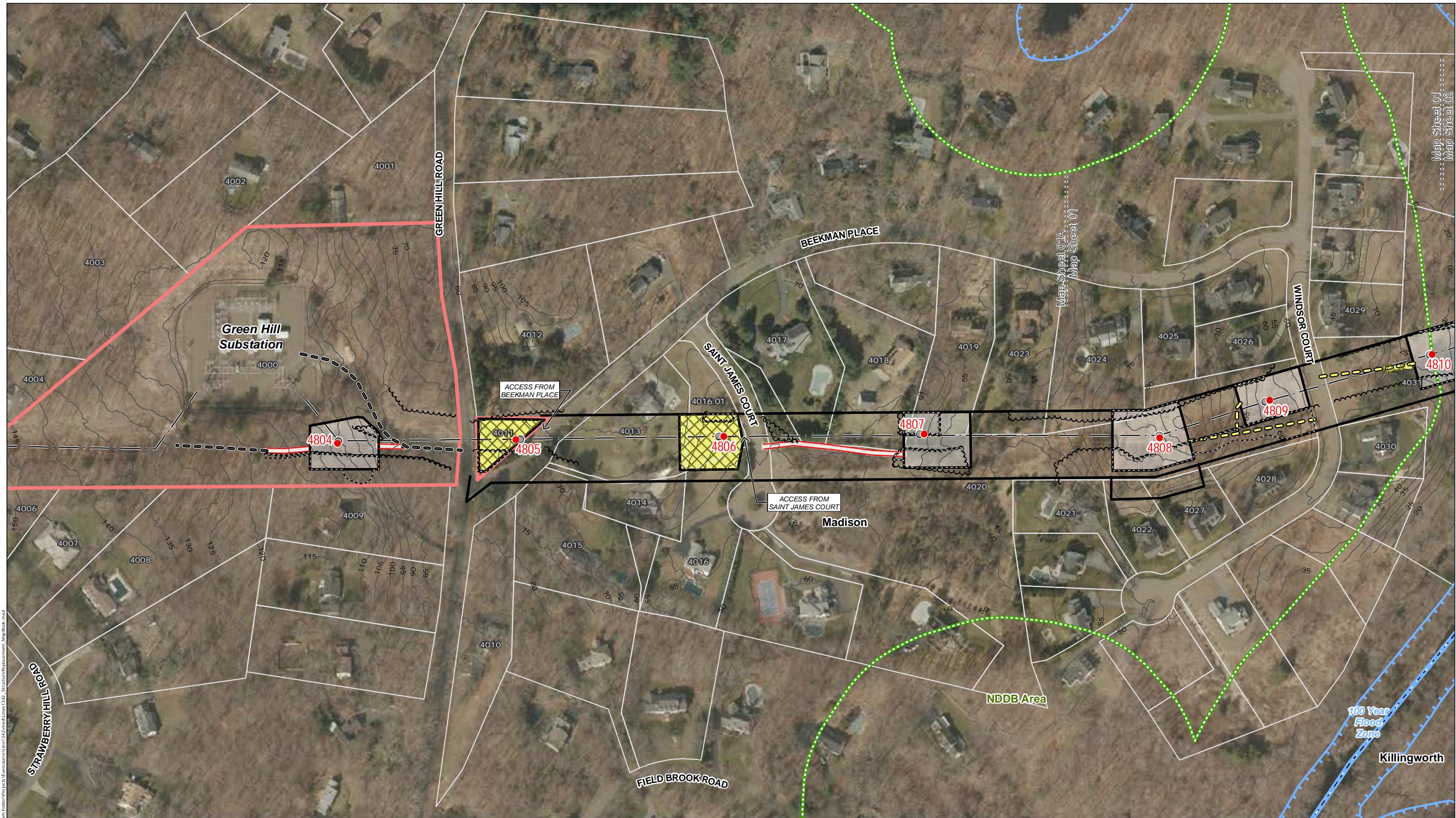
Road Crossings

- Green Hill Road
- Beekman Place
- Saint James Court

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4000	775 GREEN HILL ROAD	MADISON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4001	789 GREEN HILL ROAD	MADISON	CT	FREDERICK W & CAROL B HARTUNG TRUSTEES HARTUNG FAMILY TRUST
4002	42 GROUSE LANE	MADISON	CT	NEIL S & JOAN P ZIMMERMAN
4003	WHITE BIRCH ROAD	MADISON	CT	MADISON LAND CONSERVATION TRUST INC
4004	43 WHITE BIRCH ROAD	MADISON	CT	GEORGE & GIFTY ARTHUR
4006	78 STRAWBERRY HILL ROAD	MADISON	CT	DAVID & SALLY SULLIVAN
4007	72 STRAWBERRY HILL ROAD	MADISON	CT	PAUL E & ISABELLE M DAVIS
4008	66 STRAWBERRY HILL ROAD	MADISON	CT	TERRY & ROSEANNE STYSLY
4009	761 GREEN HILL ROAD	MADISON	CT	ROGER A FORTIER
4010	8 BEEKMAN PLACE	MADISON	CT	RUTH M BRENNAN
4011	GREEN HILL ROAD	MADISON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4012	770 GREEN HILL ROAD	MADISON	CT	KAREN P KOLB
4013	18 BEEKMAN PLACE	MADISON	CT	CRAIG F & CYNTHIA A MORGAN
4014	12 BEEKMAN PLACE	MADISON	CT	SUSAN B & DEWITT P ZUSE III
4015	10 BEEKMAN PLACE	MADISON	CT	PAUL & SANDRA H BECKMAN
4015.01	BEEKMAN PLACE	MADISON	CT	PAUL BECKMAN
4016	20 ST JAMES COURT	MADISON	CT	JUDITH KEANE
4017	34 BEEKMAN PLACE	MADISON	CT	GREG & JAN SCOTT
4018	38 BEEKMAN PLACE	MADISON	CT	RICHARD L CHORNEY
4019	56 BEEKMAN PLACE	MADISON	CT	MARILYN S COPPOLA
4020	WINDSOR COURT	MADISON	CT	MADISON LAND CONSERVATION TRUST INC
4021	148 WINDSOR COURT	MADISON	CT	ALAN & LINDA NIETLISBACH
4022	144 WINDSOR COURT	MADISON	CT	JAMES & JOANNE TORNOS
4023	60 BEEKMAN PLACE	MADISON	CT	ROBERT W & LEONORA D TOBIN
4024	66 BEEKMAN PLACE	MADISON	CT	SIDRA BERMAN
4025	72 BEEKMAN PLACE	MADISON	CT	WILMINGTON SAVINGS FUND SOC FSB DBA CHRISTIANA TRUSTEE
4026	122 WINDSOR COURT	MADISON	CT	JAMES A & DEBORAH G THOMAS
4027	138 WINDSOR COURT	MADISON	CT	MARK D & LYNDA ZITO ENRIGHT
4028	132 WINDSOR COURT	MADISON	CT	MICHAEL H & ASHLEY C COTTON
4029	117 WINDSOR COURT	MADISON	CT	PATRICK D & JOANNA C SAUCIER
4030	127 WINDSOR COURT	MADISON	CT	RONALD L KRAUSS
4031	WINDSOR COURT	MADISON	CT	MADISON LAND CONSERVATION TRUST INC



**Transmission Line Maintenance
Green Hill to Bokum Upgrade Project**

Madison, CT

Map Sheet 01 of 19

May, 2018

Legend:

- Proposed Structure
- Existing Structure to be Removed
- Existing Structure to Remain
- Existing Structure
- Existing Right-of-way (ROW)
- Overhead Eversource Line
- Existing Tree Line
- Existing Tree Line
- Railroad
- Gate
- Culvert
- Hiking Trail
- Existing Driveway
- Existing Access
- Existing Access Road to be improved
- Proposed Access
- Proposed Alternate Access
- Pull Pad
- Stone Work Pad
- Existing Gravel Work Pad
- Temporary Construction Matting
- Proposed Tree Clearing
- Delineated Intermittent Watercourse
- Delineated Perennial Watercourse
- Ordinary High Water Mark
- Delineated Wetland Boundary Outline
- Field Delineated Wetland
- Open Water
- Critical Habitat (2009)
- FEMA 100 Year Flood Zone
- FEMA 500 Year Flood Zone
- Eversource Owned Property
- State-Owned Property
- Approximate Parcel Boundary
- Municipal Boundary
- 100' Vernal Pool Envelope
- 100' Vernal Pool Edge
- Aquifer Protection Area (CTDEEP)
- Natural Diversity Database Area (Dec. 2017)
- 5' Contour Line
- Map Sheet Matchline

Map Notes:
 Not for Construction. Parcel and ROW boundaries are approximate (not survey).
 Parcel data provided by Comerstone Energy, LLC (02/2018).
 Repairs to existing access roads within wetlands with permanent fills are exempt discharges under 323.4(a)(2) provided that the limit of fill does not exceed the footprint of the existing fill through wetlands areas. Maintenance repairs do not include modifications that change the character, scope, and size of the original fill design.
 Temporary impacts associated with construction mats in previously disturbed wetland and upland areas either within vernal pool (VP) depressions or management area (100' of VP's edge) are eligible under the Army Corps of Engineers CT General Permit as a Self-Verification eligible activity.

Base Map Source: 2016 CTECO Orthophotography

0 100 200 Feet

1 inch = 200 feet

NO. DATE REVISIONS BY CHK APP APP

May, 2018

EVERSOURCE ENERGY

TRANSON ENVIRONMENTAL

ALL-POINTS TECHNOLOGY CORPORATION

MAPSHEET 2 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4811 to 4816****Town of Killingworth, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Residential
- Undeveloped, forest
- Hammonasset River
- Unnamed pond
- Natural Diversity Database Area

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Residential adjacent to structure 4811
- Hammonasset River west of structure 4811
- Natural Diversity Database Area from structure 4812 to 4813

Water Resources

- Wetlands – W1, W2, W3
- Wetland Cover Types – PFO, PSS, PEM, POW
- Watercourses – S1 (Hammonasset River), S2, S3, Unnamed Pond
- Vernal Pools - None
- 100-year Flood Zone of Hammonasset River

Wetland and Watercourse Crossings

- Wetland W2 / Watercourse S2 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest
- House/yard

Access

- Structure 4811: proposed access from River Road
- Structure 4812 to 4813: existing and proposed access from Spencer Hill Road
- Structure 4814: from Spencer Hill Road
- Structure 4815 to 4816: existing off-ROW access from Spencer Hill Road

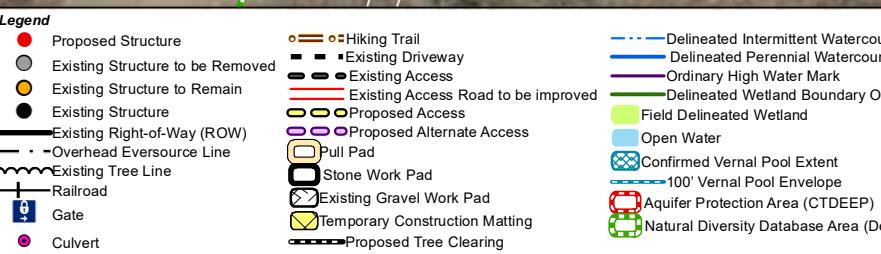
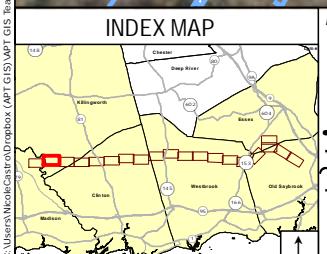
Road Crossings

- River Road
- Spencer Hill Road

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4031	WINDSOR COURT	MADISON	CT	MADISON LAND CONSERVATION TRUST INC
4032	185 RIVER ROAD	KILLINGWORTH	CT	WAYNE AUSTIN & MELISSA KRALLE
4033	189 RIVER ROAD	KILLINGWORTH	CT	DANIEL E & ELAINE M JOHNSON
4036	188 RIVER ROAD	KILLINGWORTH	CT	H PRICE & PEGGY B VAN DER SWAAGH
4037	180 RIVER ROAD	KILLINGWORTH	CT	BRETT PARENT
4038	172 RIVER ROAD	KILLINGWORTH	CT	JEFFREY L SIGNORE
4039	29 SPENCER HILL ROAD	KILLINGWORTH	CT	KURT A ALLETZHAUSER
4040	31 SPENCER HILL ROAD	KILLINGWORTH	CT	CARL V & CARL PEARSON
4041	33 SPENCER HILL ROAD	KILLINGWORTH	CT	DUSTIN D & JENNIFER L ASBURY
4042	21 SPENCER HILL ROAD	KILLINGWORTH	CT	BRIAN JONES & PAULA A MCLEAN
4043	30 SPENCER HILL ROAD	KILLINGWORTH	CT	ROBERT S HALL
4044	32 SPENCER HILL ROAD	KILLINGWORTH	CT	ANDREA L NEMERGUT
4045	36 SPENCER HILL ROAD	KILLINGWORTH	CT	WAYNE & JEANNETTE T CLEGG
4046	SPENCER HILL ROAD	KILLINGWORTH	CT	CEDAR KNOLL HOMEOWNERS ASSOC C/O GREG & HEATHER KENNEDY



Map Notes:
 Not for Construction. Parcel and ROW boundaries are approximate (not survey).
 Parcel data provided by Comerstone Energy, LLC (2/2018).
 Repairs to existing access roads within wetlands with permanent fills are exempt discharges under 323.4(a)(2) provided that the limit of fill does not exceed the footprint of the existing fill through wetlands areas. Maintenance repairs do not include modifications that change the character, scope, and size of the original fill design. Temporary impacts associated with construction mats in previously disturbed wetland and upland areas either within vernal pool (VP) depressions or management area (100' of VP's edge) are eligible under the Army Corps of Engineers CT General Permit as a Self-Verification eligible activity.

Base Map Source: 2016 CTECO Orthophotography

1 inch = 200 feet

EVERSOURCE
ENERGY

Transmission Line Maintenance
Green Hill to Bokum Upgrade Project

Killingworth, CT

Map Sheet 02 of 19

May, 2018



MAPSHEET 3 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4817 to 4823****Towns of Killingworth and Clinton, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Unnamed pond

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4044	32 SPENCER HILL ROAD	KILLINGWORTH	CT	ANDREA L NEMERGUT
4046	SPENCER HILL ROAD	KILLINGWORTH	CT	CEDAR KNOLL HOMEOWNERS ASSOC C/O GREG & HEATHER KENNEDY
4047	143 COW HILL ROAD	KILLINGWORTH	CT	SANDRA M LAUTZ
4047.01	COW HILL ROAD	KILLINGWORTH	CT	SCOTT, AMY BETH & SHIRLEY T LAUTZ REVOCABLE TRUST TRUSTEE
4048	56 OLDE ORCHARD ROAD	CLINTON	CT	CLINTON LAND CONSERVATION TRUST INC

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW

Water Resources

- Wetlands – W4, W5, W6, W7
- Wetland Cover Types – PFO, PSS, PEM, POW
- Watercourses – S4, Unnamed Pond
- Vernal Pools – VP1

Wetland and Watercourse Crossings

- Wetland W5 – construction mats for work pads

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

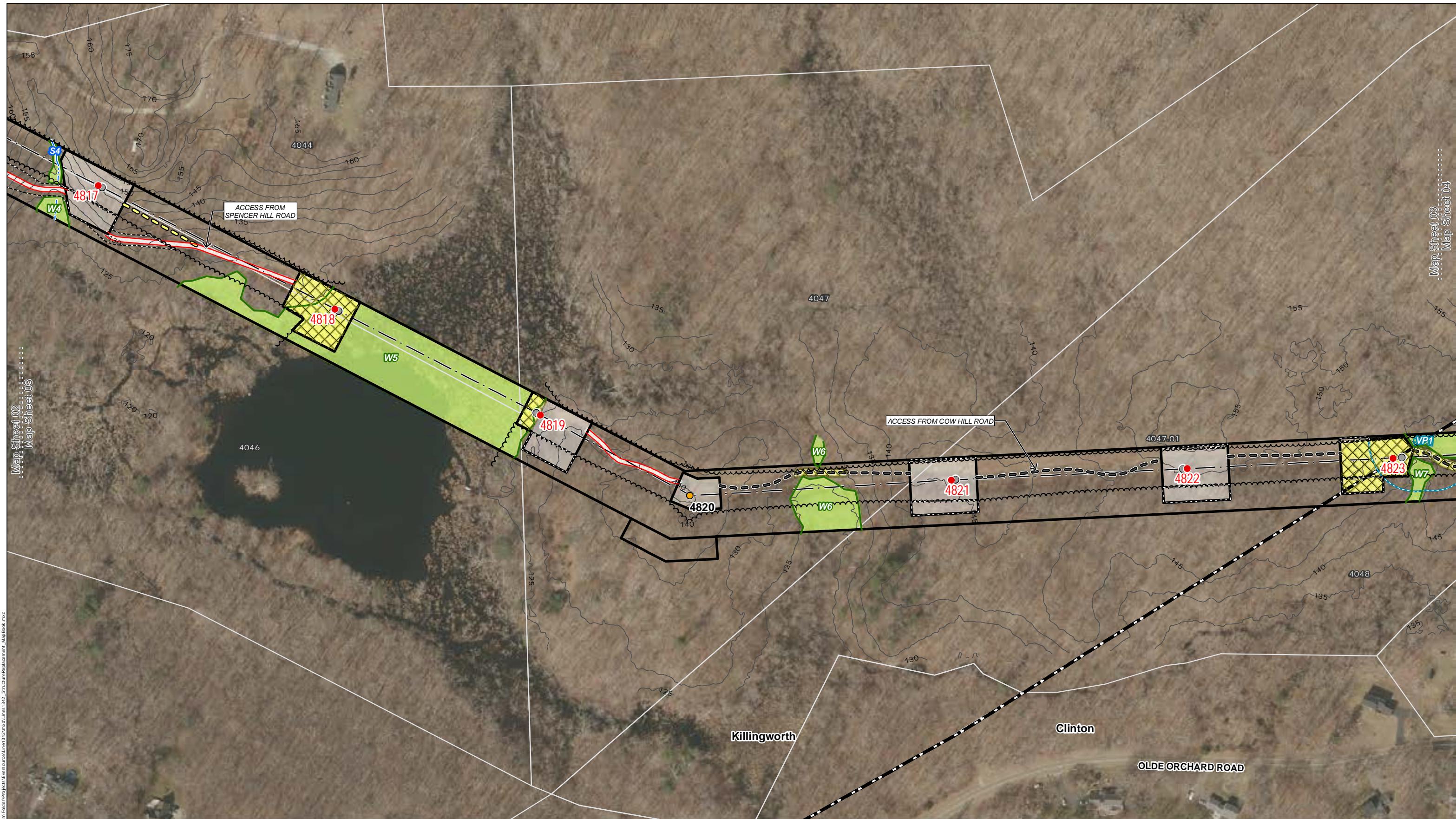
- Structure 4817 to 4818: existing access from Spencer Hill Road
- Structure 4819 to 4823: existing access from Cow Hill Road

Road Crossings

- None

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet



MAPSHEET 4 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4824 to 4830****Town of Clinton, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- Eversource owned property
- Natural Diversity Database Area

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Residential at structure 4826, and 4829 through 4830
- Natural Diversity Database Area from structure 4825 through 4830
- Eversource owned property between structure 4828 and 4829

Water Resources

- Wetlands – W7, W8, W9, W10
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – S5
- Vernal Pools – VP2, VP3, VP4, VP5

Wetland and Watercourse Crossings

- Wetland W8 – construction mats for work pad
- Wetland W9 / Vernal Pool VP4 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest
- House/yard

Access

- Structure 4824 to 4828: existing access from Cow Hill Road
- Structure 4829 to 4830: proposed access from Silver Birch Lane

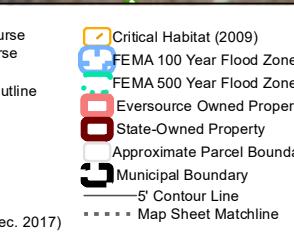
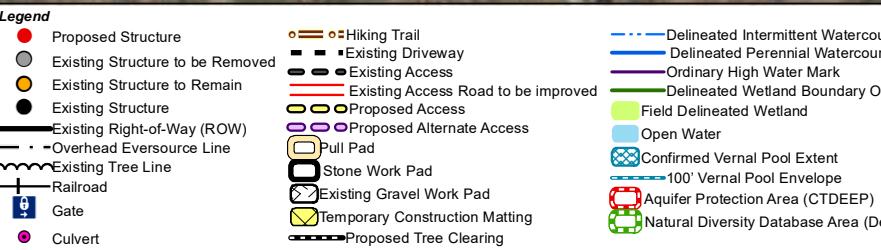
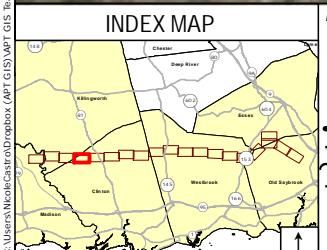
Road Crossings

- Cow Hill Road

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4047	143 COW HILL ROAD	KILLINGWORTH	CT	SANDRA M LAUTZ
4047.01	COW HILL ROAD	KILLINGWORTH	CT	SCOTT, AMY BETH & SHIRLEY T LAUTZ REVOCABLE TRUST TRUSTEE
4048	56 OLDE ORCHARD ROAD	CLINTON	CT	CLINTON LAND CONSERVATION TRUST INC
4049	203B COW HILL ROAD	CLINTON	CT	JOANNE J & FRANK CADWELL
4050	201-A COW HILL ROAD	CLINTON	CT	THOMAS J CONGDON & LYNNE M PANTALEO
4051	201 COW HILL ROAD	CLINTON	CT	GUIDO GERMINI
4052	181 COW HILL ROAD	CLINTON	CT	JAMES W & LOVETTE E TOWER
4053	248 COW HILL ROAD	CLINTON	CT	BLANCHE & MINER T VINCENT
4054	246 COW HILL ROAD	CLINTON	CT	BRUCE J ZIRA JR
4055	244 COW HILL ROAD	CLINTON	CT	BRUCE J ZIRA & BRUCE J ZIRA JR
4056	242 COW HILL ROAD	CLINTON	CT	JEFFRY & PEGGY CRETELLA
4057	COW HILL ROAD (REAR)	CLINTON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4058	236 COW HILL ROAD	CLINTON	CT	JOHN W & JOHN F & KIMBERLY ANDREWS
4059	234 COW HILL ROAD	CLINTON	CT	GENEVIEVE S ERICKSON
4060	11 SILVER BIRCH LANE	CLINTON	CT	SALLY A PENDLETON
4061	1 WHITE OAK DRIVE	CLINTON	CT	RAYMOND E & AMY C SWAN
4062	3 WHITE OAK DRIVE	CLINTON	CT	DENNIS J DIPINO
4063	9 SILVER BIRCH LANE	CLINTON	CT	CAROLYN HALE GBUNBLEE & FLUMO HILL JR



Map Notes:
 Not for Construction. Parcel and ROW boundaries are approximate (not survey).
 Parcel data provided by Comerstone Energy, LLC (02/2018).
 Repairs to existing access roads within wetlands with permanent
 fills are exempt discharges under 323.4(a)(2) provided that the limit
 of fill does not exceed the footprint of the existing fill through
 wetlands areas. Maintenance repairs do not include modifications
 that change the character, scope, and size of the original fill design.
 Temporary impacts associated with construction mats in previously
 disturbed wetland and upland areas either within vernal pool (VP) depressions
 or management area (100' of VP's edge) are eligible under the Army Corps
 of Engineers CT General Permit as a Self-Verification eligible activity.

Session Line Maintenance to Bokum Upgrade Project

MAPSHEET 5 of 19

Green Hill to Bokum Upgrade Project

Existing Structures 4831 to 4836

Town of Clinton, Connecticut

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Undeveloped, forest
- Residential
- Unnamed Pond
- Eversource owned property
- Natural Diversity Database Area

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use & Resource Areas

- Maintained ROW
- Residential near structure 4831
- Eversource owned property from structure 4835 through 4836
- Natural Diversity Database Area west of structure 4831

Water Resources

- Wetlands – W11, W12, W13
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – S6, S7, S8
- Vernal Pools – VP6
- 100-year Flood Zone of unnamed perennial watercourses and pond

Wetland and Watercourse Crossings

- Wetland W11 / Watercourses S6, S7, S8 – construction mats for work pads and access

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4831 and 4832: proposed access from Silver Birch Lane
- Structure 4833 to 4834: existing and proposed off-ROW access from Silver Birch Lane
- Structure 4835 to 4836: existing access from Killingworth Turnpike

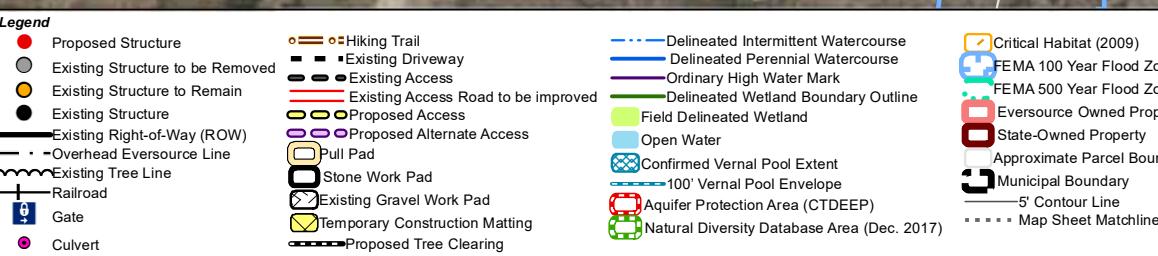
Road Crossings

- Silver Birch Lane
- Killingworth Turnpike

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4060	11 SILVER BIRCH LANE	CLINTON	CT	SALLY A PENDLETON
4061	1 WHITE OAK DRIVE	CLINTON	CT	RAYMOND E & AMY C SWAN
4063	9 SILVER BIRCH LANE	CLINTON	CT	CAROLYN HALE GBUNBLEE & FLUMO HILL JR
4064	22 SILVER BIRCH LANE	CLINTON	CT	BRADLEY M WAITE & DIANA L ROGERS
4065	KILLINGWORTH TURNPIKE	CLINTON	CT	TOWN OF CLINTON
4066	18 SILVER BIRCH LANE	CLINTON	CT	DEBORA GOULD
4067	KILLINGWORTH TURNPIKE	CLINTON	CT	TOWN OF CLINTON
4068	24 SILVER BIRCH LANE	CLINTON	CT	WILLIAM S & DANA WILSON II
4069	26 SILVER BIRCH LANE	CLINTON	CT	LAURA D THURSTON
4070	28 SILVER BIRCH LANE	CLINTON	CT	GARRETT J & RUTH A SHAWHAN
4071	30 SILVER BIRCH LANE	CLINTON	CT	WILLIAM W & BARBARA D OLDS
4072	270 KILLINGWORTH TURNPIKE	CLINTON	CT	TOWN OF CLINTON
4073	277 KILLINGWORTH TURNPIKE	CLINTON	CT	ESTATE OF SUSAN J TREGELLES, C/O RICHARD L TREGELLES EXEC
4074	279 KILLINGWORTH TURNPIKE	CLINTON	CT	PAULA A & EDWARD W TAUTKUS III
4075	KILLINGWORTH TURNPIKE	CLINTON	CT	THE CHILDRENS CENTER OF HAMDEN INC
4076	KILLINGWORTH TURNPIKE	CLINTON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4077	KILLINGWORTH TURNPIKE	CLINTON	CT	CHB MANAGEMENT CORPORATION



Map Notes:
 Not for Construction. Parcel and ROW boundaries are approximate (not survey).
 Parcel data provided by Comerstone Energy, LLC (02/2018).
 Repairs to existing access roads within wetlands with permanent fills are exempt discharges under 323.4(a)(2) provided that the limit of fill does not exceed the footprint of the existing fill through wetlands areas. Maintenance repairs do not include modifications that change the character, scope, and size of the original fill design. Temporary impacts associated with construction mats in previously disturbed wetland and upland areas either within vernal pool (VP) depressions or management area (100' of VP's edge) are eligible under the Army Corps of Engineers CT General Permit as a Self-Verification eligible activity.

Base Map Source: 2016 CTECO Orthophotography

1 inch = 200 feet
 0 100 200 Feet

EVERSOURCE
ENERGY

Transmission Line Maintenance
Green Hill to Bokum Upgrade Project

Clinton, CT

Map Sheet 05 of 19

May, 2018

DAVISON ENVIRONMENTAL
ALL-POINTS
TECHNOLOGY CORPORATION

MAPSHEET 6 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4837 to 4844****Town of Clinton, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- Eversource owned property

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Eversource owned property from structure 4837 through 4841

Water Resources

- Wetlands – W14, W15, W16, W17
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – S9, S10, S11, S12
- Vernal Pools – VP7
- 100-year Flood Zone of unnamed watercourses

Wetland and Watercourse Crossings

- Wetland W14 / Watercourse S9 – construction mats for work pad
- Wetland W15 / Watercourse S10 – construction mats for access
- Wetland W16 / Watercourse S11 – construction mats for access
- Wetland W17 / Watercourse S12 – construction mats for work pads

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4837 to 4844: existing and proposed access from Killingworth Turnpike and Ironworks Road

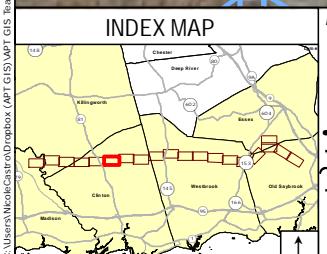
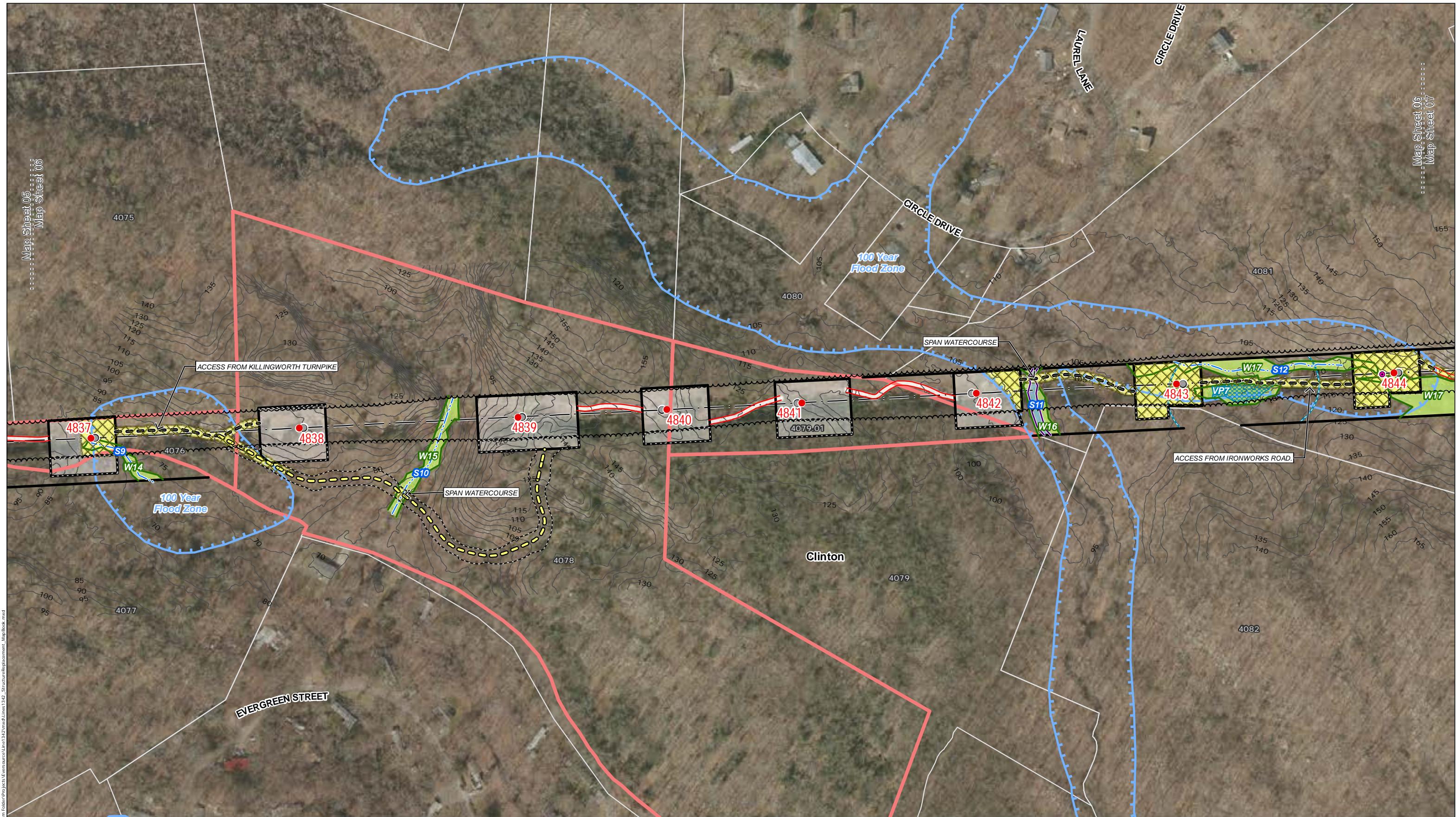
Road Crossings

- None

*Existing Maintained Right-of-Way Width / Proposed Right-of-Way**Clearing*

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4074	279 KILLINGWORTH TURNPIKE	CLINTON	CT	PAULA A & EDWARD W TAUTKUS III
4075	KILLINGWORTH TURNPIKE	CLINTON	CT	THE CHILDRENS CENTER OF HAMDEN INC
4076	KILLINGWORTH TURNPIKE	CLINTON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4077	KILLINGWORTH TURNPIKE	CLINTON	CT	CHB MANAGEMENT CORPORATION
4078	CREAM POT ROAD	CLINTON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4079	CREAM POT ROAD	CLINTON	CT	CLINTON LAND CONSERVATION TRUST INC
4079.01	CREAM POT ROAD	CLINTON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4080	13 CIRCLE DRIVE	CLINTON	CT	ANDREA F LAWTON & DONALD T SHAMP
4081	67 IRONWORKS ROAD	CLINTON	CT	PENELOPE B CHITTENDEN IRREVOCABLE TRUST
4082	65 IRONWORKS ROAD	CLINTON	CT	SALLY & JOSHUA & ALYSSA LEVY



Legend

- Proposed Structure
- Existing Structure to be Removed
- Existing Structure to Remain
- Existing Structure
- Existing Right-of-Way (ROW)
- Existing Overhead Eversource Line
- Existing Tree Line
- Existing Railroad
- Existing Gate
- Culvert
- Hiking Trail
- Existing Driveway
- Existing Access
- Existing Access Road to be improved
- Proposed Access
- Proposed Alternate Access
- Pull Pad
- Stone Work Pad
- Existing Gravel Work Pad
- Temporary Construction Matting
- Proposed Tree Clearing
- Delineated Intermittent Watercourse
- Delineated Perennial Watercourse
- Ordinary High Water Mark
- Field Delineated Wetland
- Open Water
- Confirmed Vernal Pool Extent
- 100' Vernal Pool Envelope
- Aquifer Protection Area (CTDEEP)
- Natural Diversity Database Area (Dec. 2017)
- Critical Habitat (2009)
- FEMA 100 Year Flood Zone
- FEMA 500 Year Flood Zone
- Eversource Owned Property
- State-Owned Property
- Approximate Parcel Boundary
- Municipal Boundary
- 5' Contour Line
- Map Sheet Matchline

Map Notes:
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Parcel data provided by Comerstone Energy, LLC (02/2018).
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Base Map Source: 2016 CTECO Orthophotography

1 inch = 200 feet
0 100 200 Feet

EVERSOURCE
ENERGY

Transmission Line Maintenance
Green Hill to Bokum Upgrade Project

Clinton, CT

Map Sheet 06 of 19

May, 2018



MAPSHEET 7 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4845 to 4849****Town of Clinton, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- Eversource owned property
- Unnamed Pond
- Mennunketesuck River

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Eversource owned property from structure 4847 through 4849
- Mennunketesuck River between structure 4847 and 4848

Water Resources

- Wetlands – W17, W18, W19, W20, W21
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – S13, S14 (Mennunketesuck River)
- Vernal Pools – None
- 100-year Flood Zone of Mennunketesuck River

Wetland and Watercourse Crossings

- Wetland W18 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4845 to 4847: existing access from Ironworks Road
- Structure 4848 to 4849: existing access from Kelseytown Road

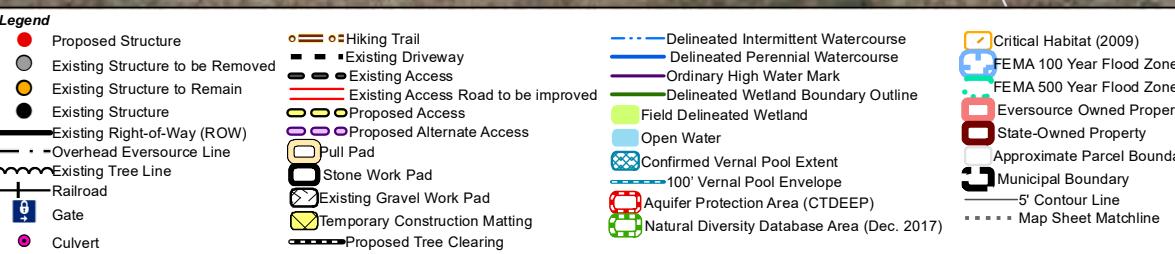
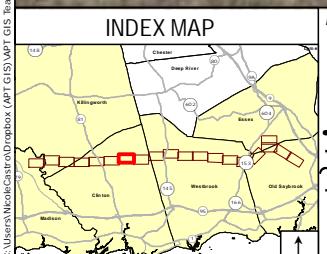
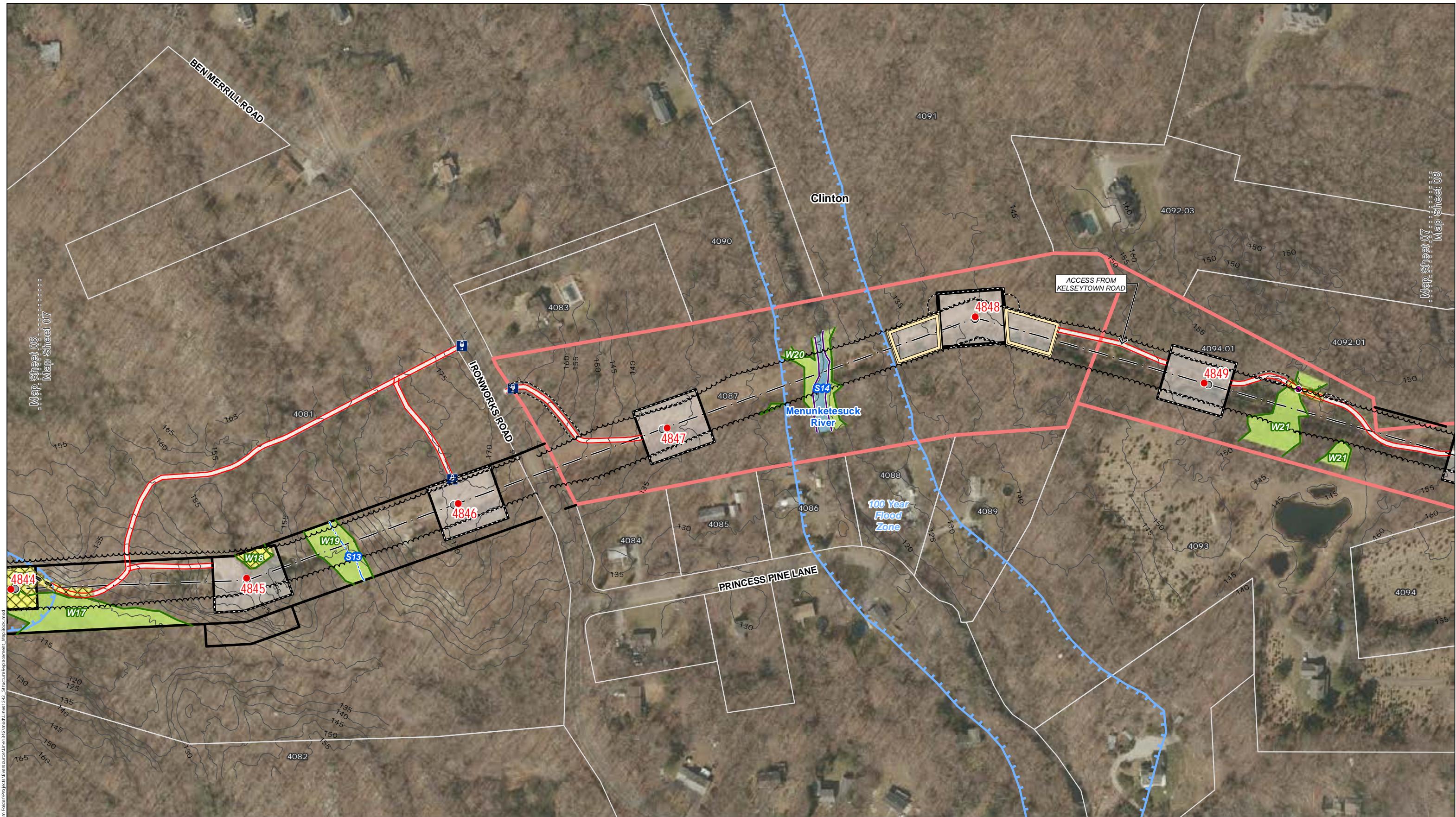
Road Crossings

- Ironworks Road

*Existing Maintained Right-of-Way Width / Proposed Right-of-Way**Clearing*

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4081	67 IRONWORKS ROAD	CLINTON	CT	PENELOPE B CHITTENDEN IRREVOCABLE TRUST
4082	65 IRONWORKS ROAD	CLINTON	CT	SALLY & JOSHUA & ALYSSA LEVY
4083	72 IRONWORKS ROAD	CLINTON	CT	MICHAEL J & LISA N DONOVAN
4084	2 PRINCESS PINE LANE	CLINTON	CT	SHANNON C TISO
4085	4 PRINCESS PINE LANE	CLINTON	CT	FATIMA PERRY
4086	6 PRINCESS PINE LANE	CLINTON	CT	CARL J & KAREN LEE MARSDEN
4087	66 IRONWORKS ROAD	CLINTON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4088	8 PRINCESS PINE LANE	CLINTON	CT	GERALD & ANGELA SCALZO
4089	10 PRINCESS PINE LANE	CLINTON	CT	KATHLEEN A WEHRLE
4090	IRONWORKS ROAD	CLINTON	CT	CLINTON LAND CONSERVATION TRUST INC
4091	KELSEYTOWN ROAD	CLINTON	CT	WARREN W & WARREN H RICHARDS
4092.01	81 KELSEYTOWN ROAD	CLINTON	CT	THE RED WING FOUNDATION INC
4092.03	83 KELSEYTOWN ROAD	CLINTON	CT	ALAN A & GEORGIANN NERI JR
4093	67 KELSEYTOWN ROAD	CLINTON	CT	TODD R & BRENDA E DAVENPORT
4094	69 KELSEYTOWN ROAD	CLINTON	CT	HAROLD K & JOANN C DOLAN JR
4094.01	KELSEYTOWN ROAD	CLINTON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)



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 of fill does not exceed the footprint of the existing fill through
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 Temporary impacts associated with construction mats in previously
 disturbed wetland and upland areas either within vernal pool (VP) depressions
 or management area (100' of VP's edge) are eligible under the Army Corps
 of Engineers CT General Permit as a Self-Verification eligible activity.

EVERSOURCE ENERGY



Divison Environmental
ALL-POINTS
TECHNOLOGY CORPORATION

MAPSHEET 8 of 19

Green Hill to Bokum Upgrade Project

Existing Structures 4850 to 4855

Town of Clinton, Connecticut

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Undeveloped, forest
- Residential
- Eversource owned property
- Unnamed Pond

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use & Resource Areas

- Maintained ROW
- Eversource owned property from structure 4850 through 4851

Water Resources

- Wetlands – W22, W23, W24, W25, W26
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – Unnamed Pond
- Vernal Pools – VP8, VP9
- 100-year Flood Zone of unnamed pond

Wetland and Watercourse Crossings

- None

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4850 to 4854: existing access from Kelseytown Road
- Structure 4855: proposed access from Lindera Lane

Road Crossings

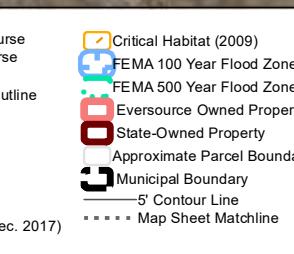
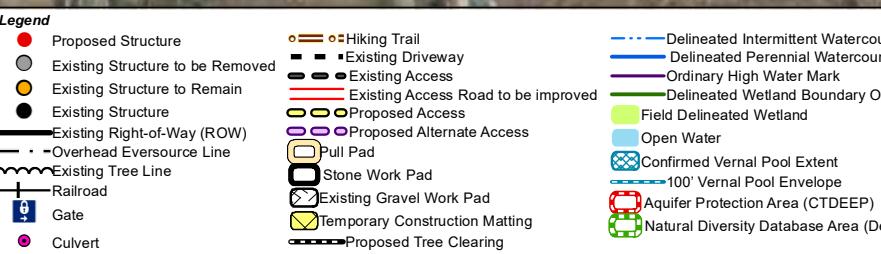
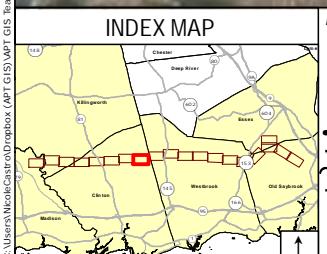
- Kelseytown Road
- Lindera Lane

Existing Maintained Right-of-Way Width / Proposed Right-of-Way

Clearing

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4092.01	81 KELSEYTOWN ROAD	CLINTON	CT	THE RED WING FOUNDATION INC
4092.02	79 KELSEYTOWN ROAD	CLINTON	CT	JOHN D & JENNIFER W BENCHIMOL
4092.03	83 KELSEYTOWN ROAD	CLINTON	CT	ALAN A & GEORGIANN NERI JR
4093	67 KELSEYTOWN ROAD	CLINTON	CT	TODD R & BRENDA E DAVENPORT
4094	69 KELSEYTOWN ROAD	CLINTON	CT	HAROLD K & JOANN C DOLAN JR
4094.01	KELSEYTOWN ROAD	CLINTON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4095	77 KELSEYTOWN ROAD	CLINTON	CT	WAYNE A LACROSS
4096	3 JANES LANE	CLINTON	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4097	KELSEYTOWN ROAD	CLINTON	CT	DAVID & SAMUEL C FISCHER C/O CARTER HILL ASSOCIATE
4098	5 JANES LANE	CLINTON	CT	ELLEN & THOMAS HUGHES
4099	7 JANES LANE	CLINTON	CT	DAVID L & JO H COLE
4100	9 JANES LANE	CLINTON	CT	SUSAN H & BRADFORD L BRIGGS
4101	11 JANES LANE	CLINTON	CT	ARNOLD & CYNTHIA M EININGER
4102	13 JANES LANE	CLINTON	CT	FRANCIS J & DIANE BYRNE III
4103	18 CHITTENDEN HILL ROAD	CLINTON	CT	MARK A & MARIA ROSE PARISI
4104.03	12 LINDERA LANE	CLINTON	CT	MICHAEL A DIDONATO & JENNIFER GRISWALD
4104.04	14 LINDERA LANE	CLINTON	CT	WILLIAM P & JANIS L BLENCOWE
4104.05	18 LINDERA LANE	CLINTON	CT	LAURETTA M BELLOCCHIO
4104.06	20 LINDERA LANE	CLINTON	CT	MARK GIACONIA & ZORAIDA VAZQUEZ
4104.07	19 LINDERA LANE	CLINTON	CT	CRISTALLE M WALSH & TIMOTHY C JACOBSON
4104.08	15 LINDERA LANE	CLINTON	CT	MICHAEL JAMES DELAPORTA
4104.09	13 LINDERA LANE	CLINTON	CT	JUSTIN E & SANCHA D CHRISTOPHERON
4104.14	17 LINDERA LANE	CLINTON	CT	THE RED WING FOUNDATION INC
4104.15	16 LINDERA LANE	CLINTON	CT	THE RED WING FOUNDATION INC



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 Temporary impacts associated with construction mats in previously
 disturbed wetland and upland areas either within vernal pool (VP) depressions
 or management area (100' of VP's edge) are eligible under the Army Corps
 of Engineers CT General Permit as a Self-Verification eligible activity.

Session Line Maintenance to Bokum Upgrade Project

MAPSHEET 9 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4856 to 4862****Towns of Clinton and Westbrook, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- Eversource owned property

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Eversource owned property east of structure 4862

Water Resources

- Wetlands – W26, W27, W28, W29
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – S16, S17, S18 (Plane Brook)
- Vernal Pools – VP10
- 100-year Flood Zone of unnamed perennial watercourse

Wetland and Watercourse Crossings

- Watercourse S16 – construction mats for access

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4856 to 4862: existing access from Lindera Lane and Horse Hill Road (Route 145)

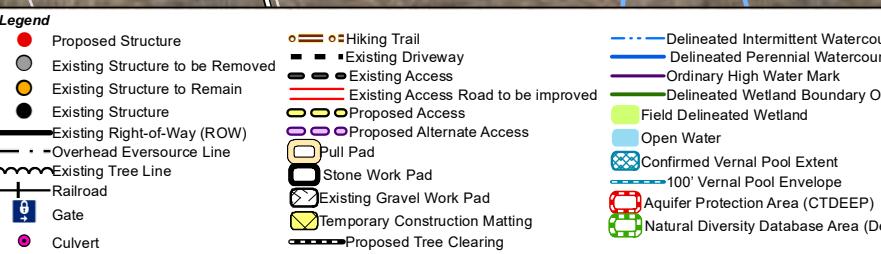
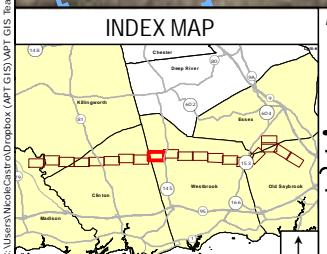
Road Crossings

- None

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4104.07	19 LINDERA LANE	CLINTON	CT	CRISTALLE M WALSH & TIMOTHY C JACOBSON
4104.08	15 LINDERA LANE	CLINTON	CT	MICHAEL JAMES DELAPORTA
4104.09	13 LINDERA LANE	CLINTON	CT	JUSTIN E & SANCHA D CHRISTOPHERON
4104.14	17 LINDERA LANE	CLINTON	CT	THE RED WING FOUNDATION INC
4104.16	19 HOUPERTS WAY	CLINTON	CT	RED WING FOUNDATION
4105	HORSE HILL ROAD	WESTBROOK	CT	TOWN OF WESTBROOK
4106	CHITTENDEN HILL ROAD	WESTBROOK	CT	RICHARD C BROSE & OLIVE J HIE HILL FOUNDATION
4108	HORSE HILL ROAD	WESTBROOK	CT	TOWN OF WESTBROOK
4109	HORSE HILL ROAD	WESTBROOK	CT	WOOD PROPERTIES LLC
4110	351 CHITTENDEN HILL ROAD	WESTBROOK	CT	JEAN E & JEAN MARIE WIGGLESWORTH
4111	19 HORSE HILL ROAD	WESTBROOK	CT	WOOD PROPERTIES LLC
4112	HORSE HILL ROAD	WESTBROOK	CT	TOWN OF WESTBROOK
4113	HORSE HILL ROAD	WESTBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4114	3 OLD HORSE HILL ROAD	WESTBROOK	CT	NANCY B PYTLIK



Map Notes:

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Base Map Source: 2016
 CTECO Orthophotography



1 inch = 200 feet

0 100 200
 Feet

Session Line Maintenance to Bokum Upgrade Project

MAPSHEET 10 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4863 to 4868****Town of Westbrook, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- Eversource owned property
- Natural Diversity Database Area

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Eversource owned property from structure 4865 through 4867
- Natural Diversity Database Area from structure 4866 through 4868

Water Resources

- Wetlands – W29, W30, W31, W32, W33, W34, W35
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – S19

Wetland and Watercourse Crossings

- Wetland W31 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4863: from Horse Hill Road (Route 145)
- Structure 4864 to 4867: existing off-ROW access from Horse Hill Road (Route 145)
- Structure 4868: existing access from Pond Meadow Road

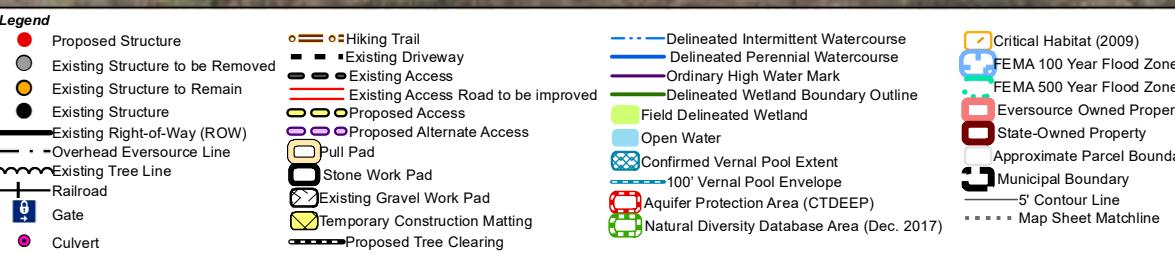
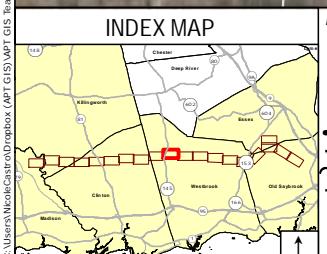
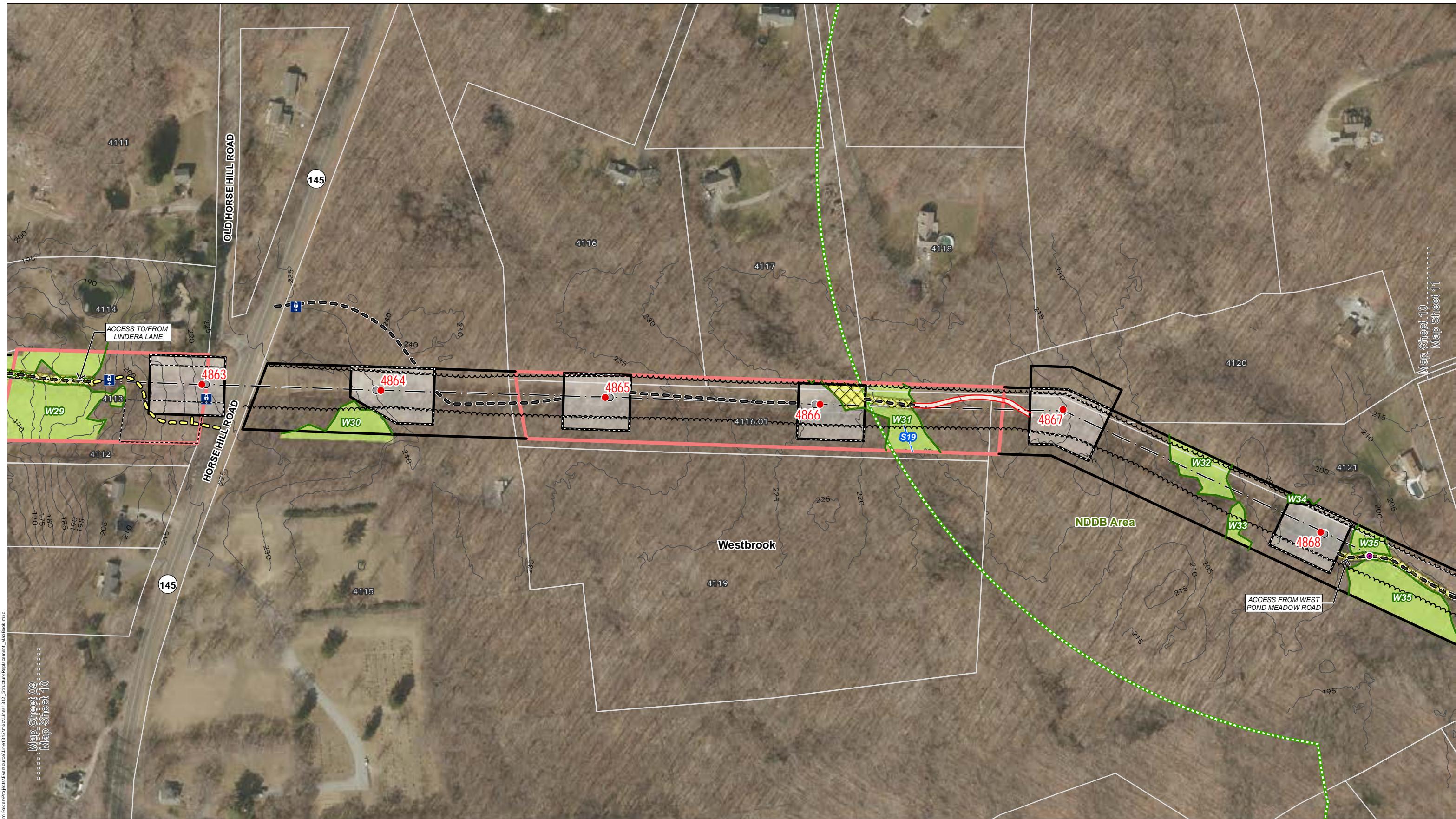
Road Crossings

- Horse Hill Road (Route 145)

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4111	19 HORSE HILL ROAD	WESTBROOK	CT	WOOD PROPERTIES LLC
4112	HORSE HILL ROAD	WESTBROOK	CT	TOWN OF WESTBROOK
4113	HORSE HILL ROAD	WESTBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4114	3 OLD HORSE HILL ROAD	WESTBROOK	CT	NANCY B PYTLIK
4115	1102 HORSE HILL ROAD	WESTBROOK	CT	NORWICH RC DIOCESAN CORPATION RESURRECTION CEMETARY
4116	49 CHRISTINA LANE	WESTBROOK	CT	DONALD A & DAVID W BECKER
4116.01	WEST POND MEADOW ROAD	WESTBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4117	67 CHRISTINA LANE	WESTBROOK	CT	MICHAEL J & JACQUELINE H HARTLEY
4118	69 CHRISTINA LANE	WESTBROOK	CT	GARY W DAVIS & BARBARA L TURNER
4119	HORSE HILL ROAD	WESTBROOK	CT	NORWICH RC DIOCESAN CORPATION RESURRECTION CEMETARY
4120	675 WEST POND MEADOW ROAD	WESTBROOK	CT	MICHAEL W TTEE BROMSON
4121	667 WEST POND MEADOW ROAD	WESTBROOK	CT	ROBERT T RILEY & MURIEL P MCGEE
4122	639 W POND MEADOW ROAD	WESTBROOK	CT	NATHAN J KARBOWSKI
4123	76 MEADOWLARK LANE	WESTBROOK	CT	JOHN W & LINDA H FIKE III



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EVERSOURCE ENERGY

Transmission Line Maintenance Green Hill to Bokum Upgrade Project

Westbrook, CT

May, 2018

MAPSHEET 11 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4869 to 4875****Town of Westbrook, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- Eversource owned property
- Natural Diversity Database Area

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Eversource owned property from structure 4873 to 4875
- Natural Diversity Database Area from structure 4869 to 4874

Water Resources

- Wetlands – W35, W36, W37, W38, W39
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – None
- 500-year Flood Zone

Wetland and Watercourse Crossings

- Wetland W37 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4869: existing access from West Pond Meadow Road
- Structure 4870: from West Pond Meadow Road
- Structure 4871 to 4875: existing access from West Pond Meadow Road

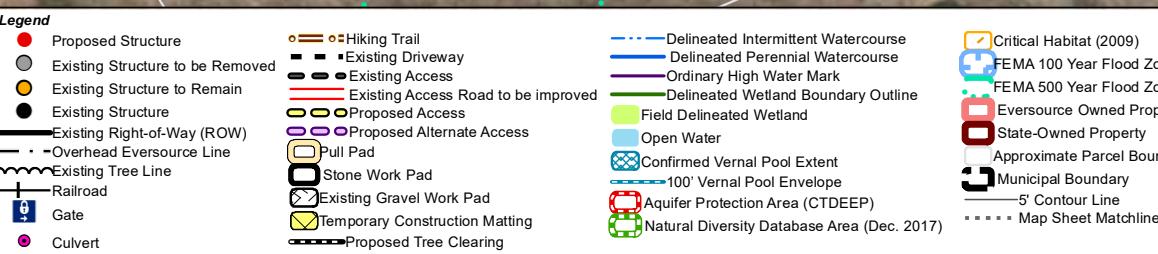
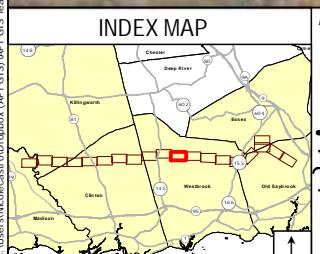
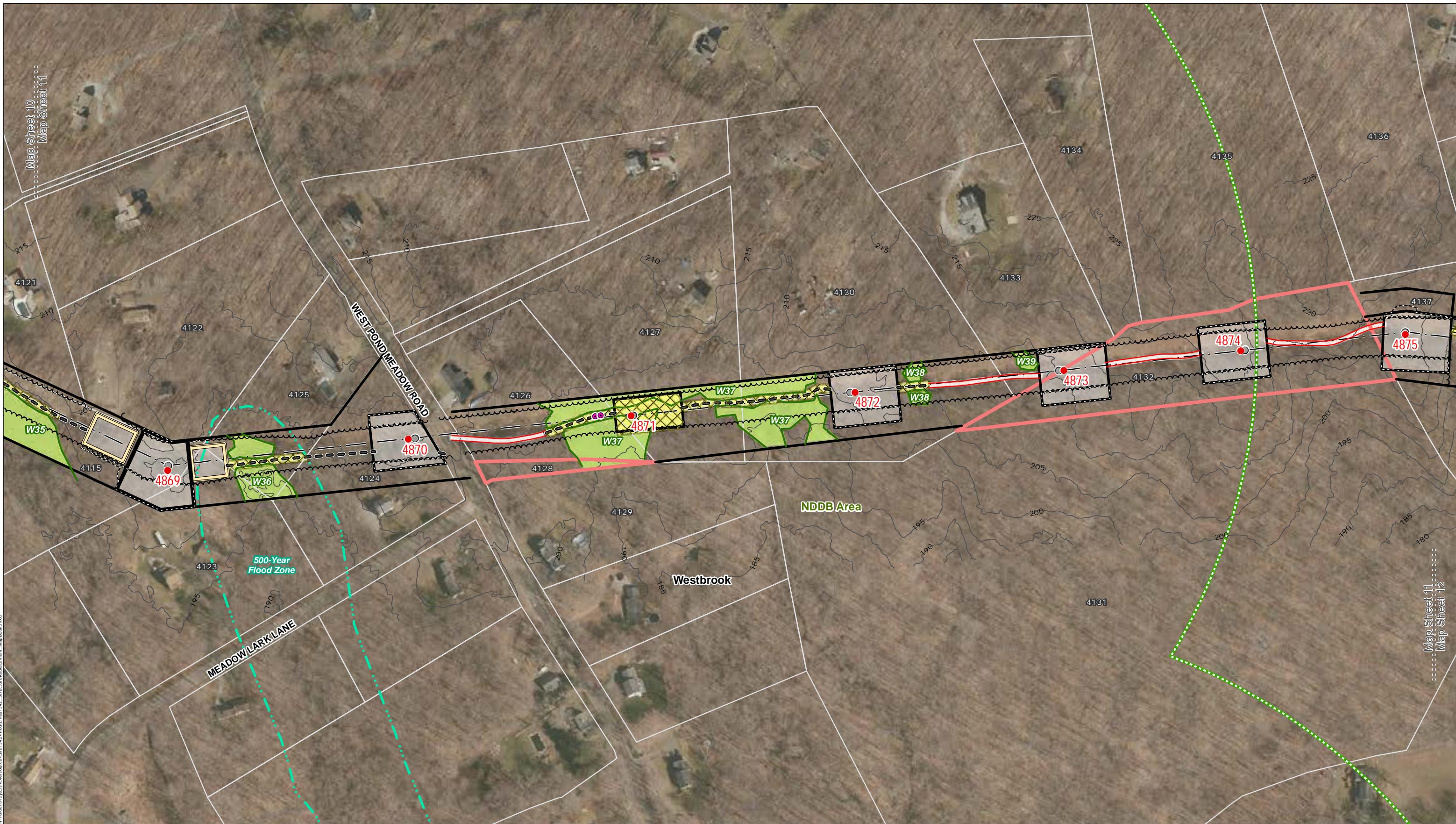
Road Crossings

- West Pond Meadow Road

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4115	1102 HORSE HILL ROAD	WESTBROOK	CT	NORWICH RC DIOCESAN CORPATION RESURRECTION CEMETARY
4120	675 WEST POND MEADOW ROAD	WESTBROOK	CT	MICHAEL W TTEE BROMSON
4121	667 WEST POND MEADOW ROAD	WESTBROOK	CT	ROBERT T RILEY & MURIEL P MCGEE
4122	639 W POND MEADOW ROAD	WESTBROOK	CT	NATHAN J KARBOWSKI
4123	76 MEADOWLARK LANE	WESTBROOK	CT	JOHN W & LINDA H FIKE III
4124	587 WEST POND MEADOW ROAD	WESTBROOK	CT	STEPHEN COLUMBUS
4125	623 W POND MEADOW ROAD	WESTBROOK	CT	PETER I & LOLA M BULLENKAMP
4126	604 W POND MEADOW ROAD	WESTBROOK	CT	JANET TTEES & WILLIAM STRONG T/I/C
4127	616 WEST POND MEADOW ROAD	WESTBROOK	CT	JEFFREY A & LORRAINE E SNELGROVE
4128	WEST POND MEADOW ROAD	WESTBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4129	560 WEST POND MEADOW RD	WESTBROOK	CT	MICHAEL P & LORI A SUSI
4130	626 WEST POND MEADOW ROAD	WESTBROOK	CT	WILLIAM & RITA TROJANOSKI
4131	W POND MEADOW ROAD	WESTBROOK	CT	GLORIA W ELLIOTT
4132	WEST POND MEADOW ROAD	WESTBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4133	111 DENNISON ROAD	WESTBROOK	CT	15 DOGWOOD KNOLL RD LLC
4134	195 DENNISON ROAD	WESTBROOK	CT	LISA WINCH
4135	DENNISON ROAD	WESTBROOK	CT	HELEN I VOELKEL
4136	DENNISON ROAD	WESTBROOK	CT	MANUEL C VEIGA & CATHERINE B LOCKHART
4137	EAST POND MEADOW ROAD	WESTBROOK	CT	JOHN L HALL III



Not for Construction. Parcel and ROW boundaries are approximate (not survey).
Parcel data provided by Comerstone Energy, LLC (02/2018).
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Base Map Source: 2016 CTECO Orthophotography

0 100 200 Feet

1 inch = 200 feet

EVERSOURCE ENERGY

Transmission Line Maintenance
Green Hill to Bokum Upgrade Project

Westbrook, CT

Map Sheet 11 of 19

May, 2018



MAPSHEET 12 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4876 to 4880****Town of Westbrook, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- Agricultural
- Unnamed Pond
- Eversource owned property

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Agricultural (pasture) from structure 4875 to 4876
- Eversource owned property from structure 4877 to 4878

Water Resources

- Wetlands – W40, W41, W42, W43, W44
- Wetland Cover Types – PFO, PSS, PEM, POW
- Watercourses – None
- Vernal Pools – VP11, VP12, VP13
- 500-year Flood Zone

Wetland and Watercourse Crossings

- Wetland W43 / Vernal Pool VP13 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4875 to 4876: existing access from West Pond Meadow Road
- Structure 4877 to 4880: existing access from East Pond Meadow Road

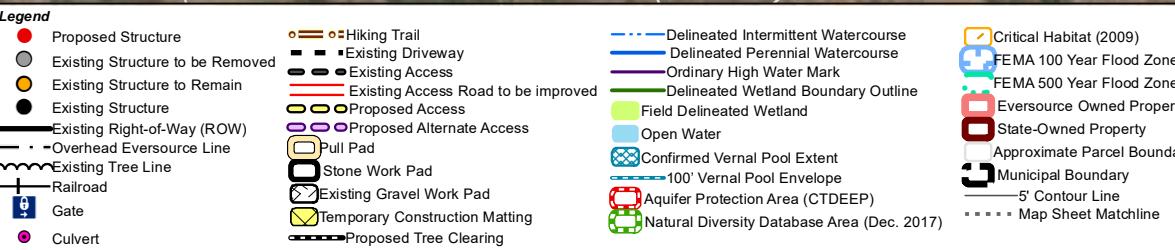
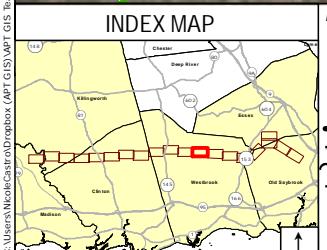
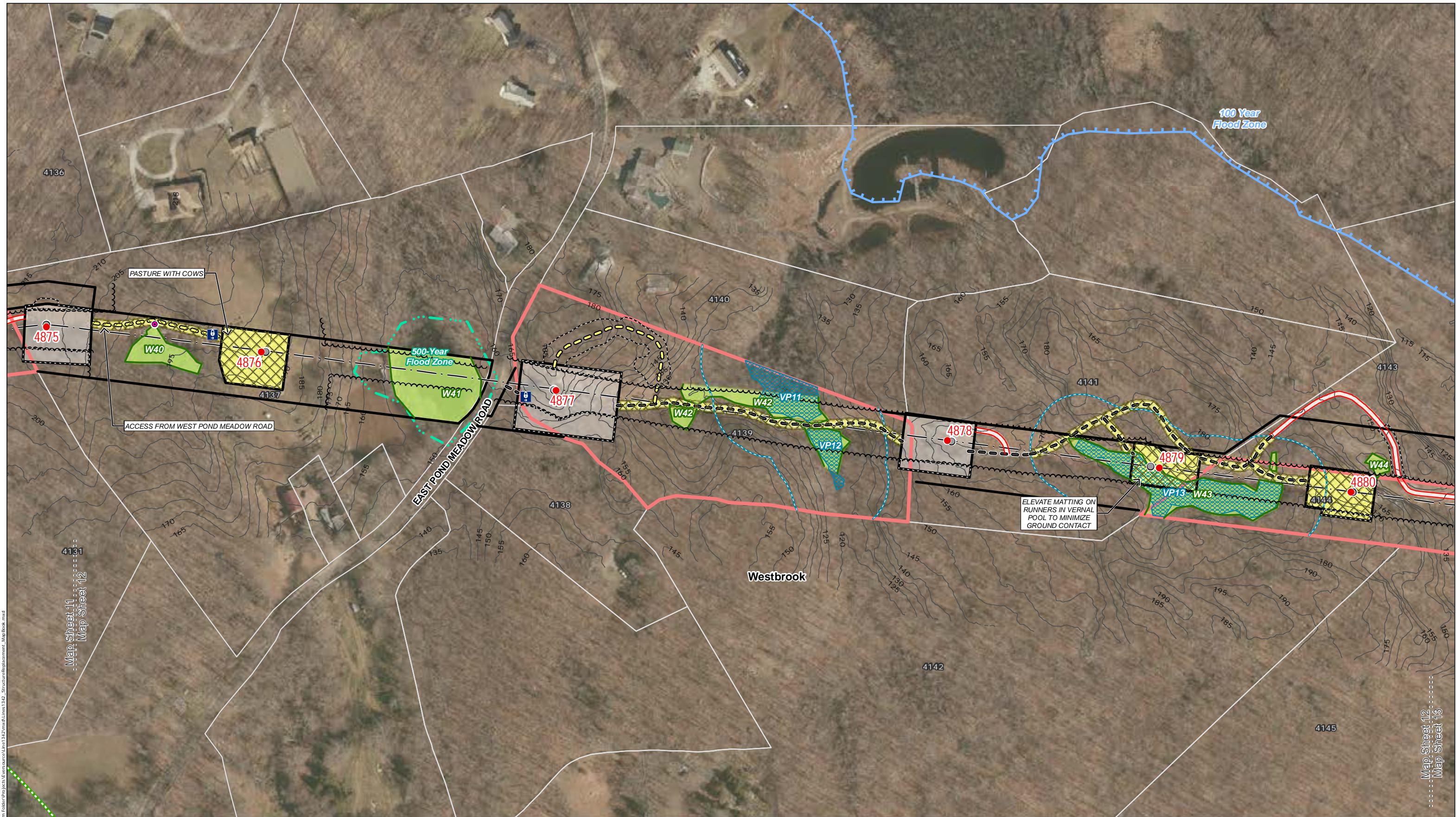
Road Crossings

- West Pond Meadow Road

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4131	W POND MEADOW ROAD	WESTBROOK	CT	GLORIA W ELLIOTT
4132	WEST POND MEADOW ROAD	WESTBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4136	DENNISON ROAD	WESTBROOK	CT	MANUEL C VEIGA & CATHERINE B LOCKHART
4137	EAST POND MEADOW ROAD	WESTBROOK	CT	JOHN L HALL III
4138	610 EAST POND MEADOW ROAD	WESTBROOK	CT	JOHN & BONNIE R HALL III
4139	616 EAST POND MEADOW ROAD	WESTBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4140	646 EAST POND MEADOW ROAD	WESTBROOK	CT	JAIMEE S DAZEY
4141	EAST POND MEADOW ROAD	WESTBROOK	CT	PETER & RONDA AURIGEMMA JR
4142	394 EAST POND MEADOW ROAD	WESTBROOK	CT	CORNELIA T WEBB
4143	EAST POND MEADOW ROAD	WESTBROOK	CT	PETER & RONDA AURIGEMMA
4144	EAST POND MEADOW ROAD	WESTBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4145	ANTHONY LANE	WESTBROOK	CT	CORNELIA T WEBB



Map Notes:

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Base Map Source: 2016 CTECO Orthophotography

1 inch = 200 feet

0 100 200 Feet

EVERSOURCE

Transmission Line Maintenance
Green Hill to Bokum Upgrade Project

Westbrook, CT

Map Sheet 12 of 19

May, 2018



MAPSHEET 13 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4881 to 4885****Town of Westbrook, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW

Water Resources

- Wetlands – W45, W46, W47, W48
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – None
- Vernal Pools – VP14, VP15, VP16
- 100-year Flood Zone

Wetland and Watercourse Crossings

- Wetland W46 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4881 to 4884: existing access from East Pond Meadow Road
- Structure 4885: existing off-ROW or proposed access from Toby Hill Road

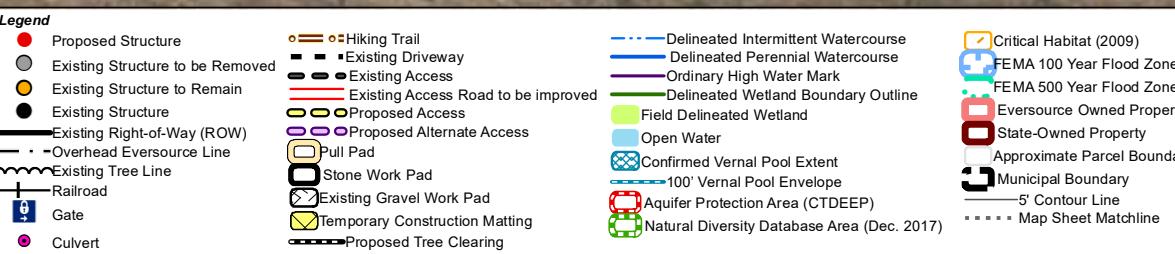
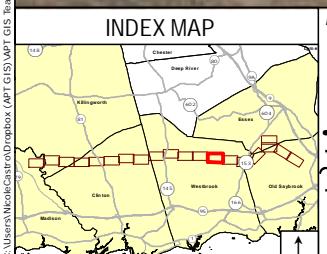
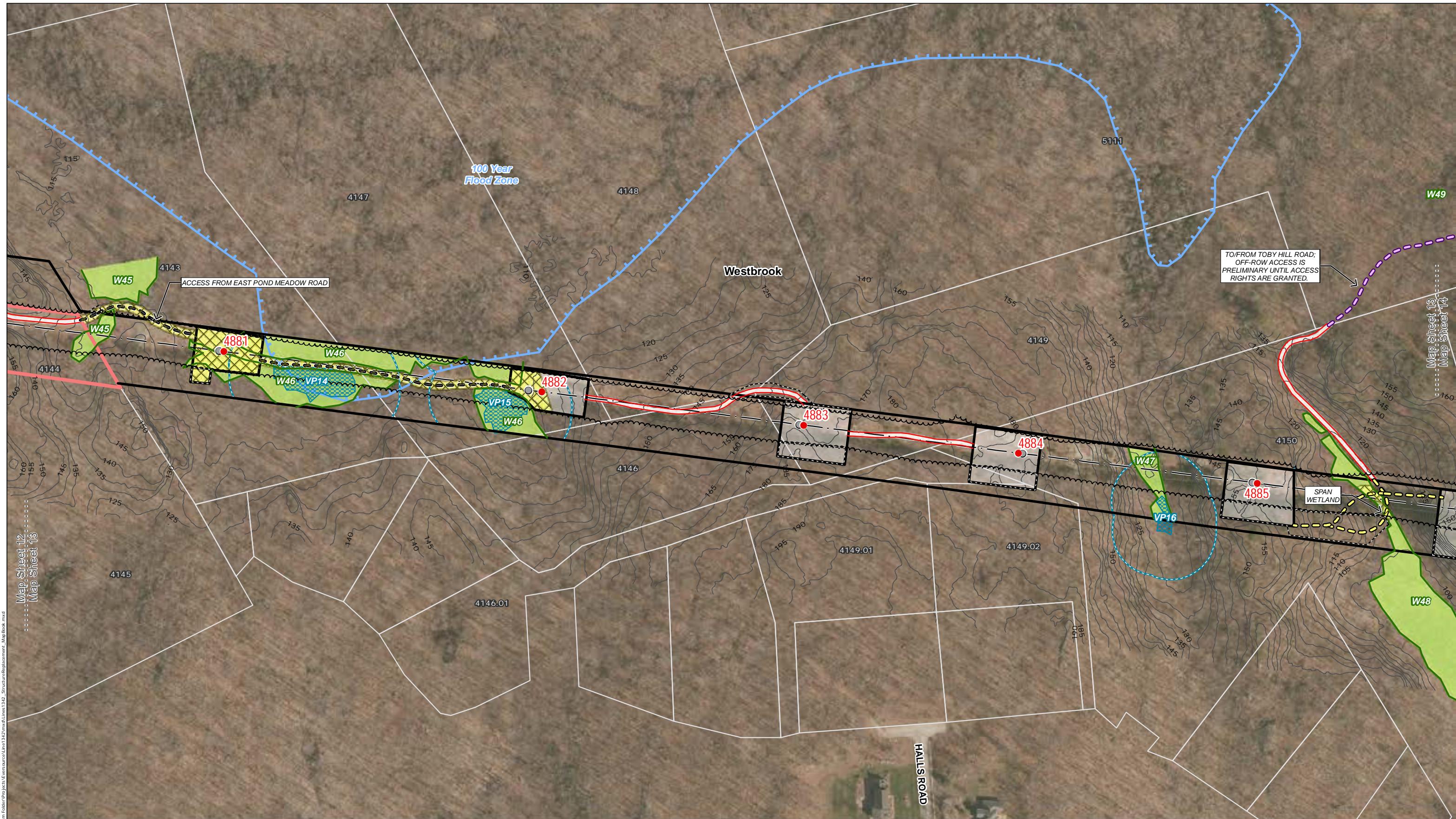
Road Crossings

- None

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4143	EAST POND MEADOW ROAD	WESTBROOK	CT	PETER & RONDA AURIGEMMA
4144	EAST POND MEADOW ROAD	WESTBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4145	ANTHONY LANE	WESTBROOK	CT	CORNELIA T WEBB
4146	EAST POND MEADOW ROAD	WESTBROOK	CT	TOWN OF WESTBROOK
4146.01	PRATT LANE	WESTBROOK	CT	TOWN OF WESTBROOK
4147	1032 EAST POND MEADOW ROAD	WESTBROOK	CT	FREDERICK J MALCARNE
4148	TOBY HILL ROAD	WESTBROOK	CT	FREDERICK J MALCARNE
4149	TOBY HILL ROAD	WESTBROOK	CT	TOWN OF WESTBROOK
4149.01	20 OLD STONE ROAD	WESTBROOK	CT	TOWN OF WESTBROOK
4149.02	14 OLD STONE ROAD	WESTBROOK	CT	TOWN OF WESTBROOK
4150	OLD STONE ROAD	WESTBROOK	CT	TOWN OF WESTBROOK
5111	TOBY HILL ROAD	WESTBROOK	CT	RUTH ANN CARLSON



Map Notes:
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MISSION LINE MAINTENANCE TO BOKUM UPGRADE PROJECT

MAPSHEET 14 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4886 to 4893****Town of Westbrook, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Residential from Toby Hill Road to structure 4888

Water Resources

- Wetlands – W48, W49, W50, W51
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – None
- Vernal Pools – VP17, VP18, VP19

Wetland and Watercourse Crossings

- Wetland W51 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4886 to 4893: existing and proposed access from Toby Hill Road

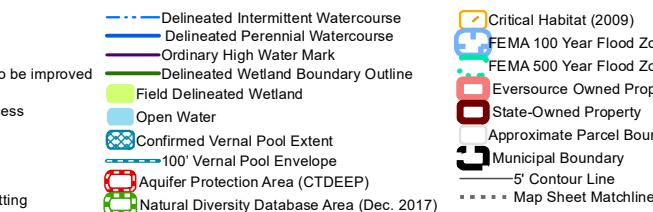
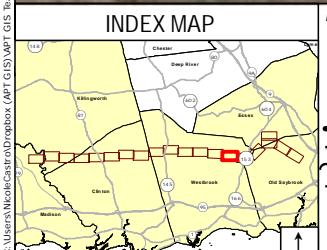
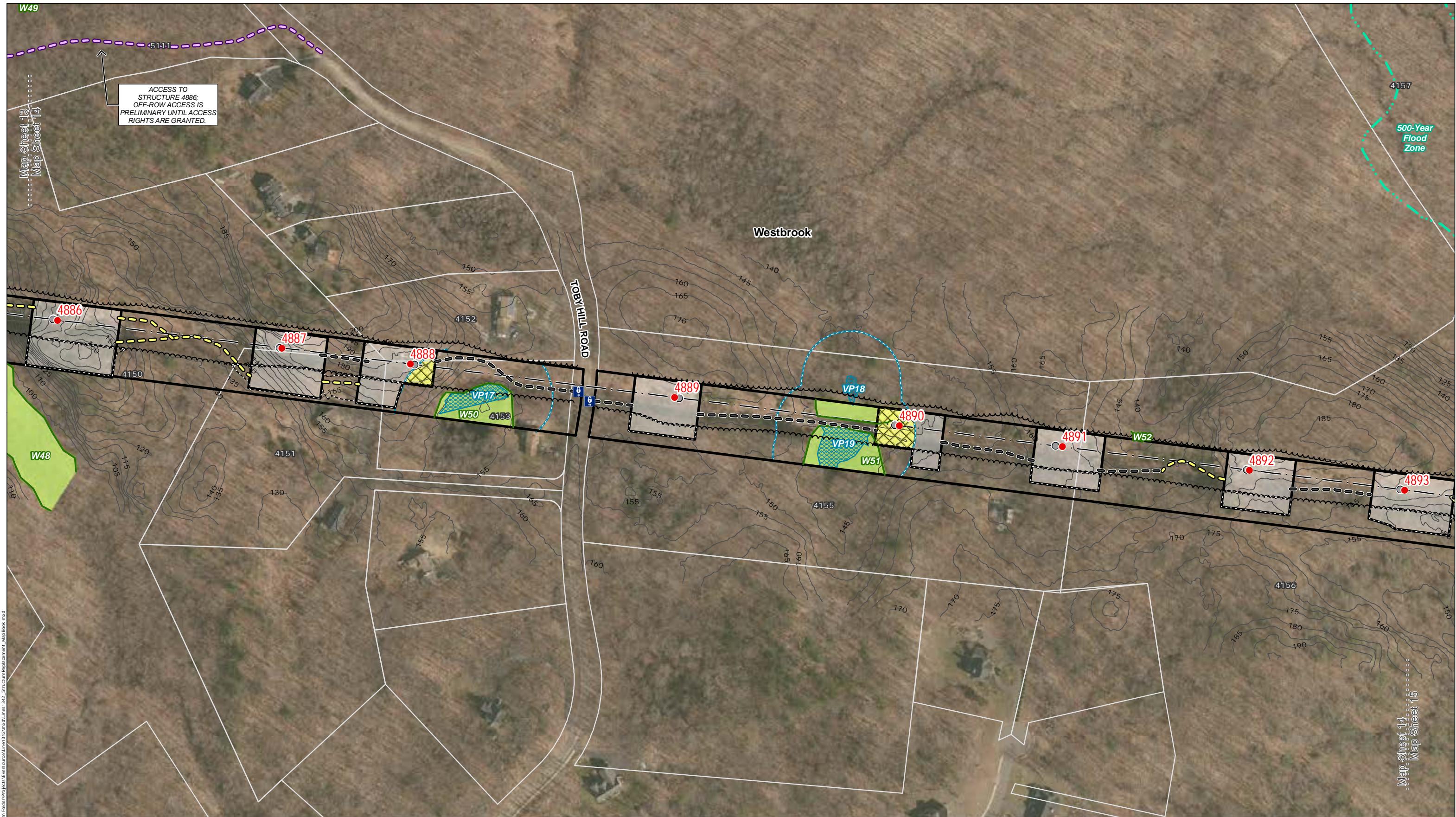
Road Crossings

- Toby Hill Road

*Existing Maintained Right-of-Way Width / Proposed Right-of-Way**Clearing*

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4150	OLD STONE ROAD	WESTBROOK	CT	TOWN OF WESTBROOK
4151	793 TOBY HILL ROAD	WESTBROOK	CT	LOVISA JOHNSSON
4152	823 TOBY HILL ROAD	WESTBROOK	CT	KEVIN M & LISA PALM
4153	797 TOBY HILL ROAD	WESTBROOK	CT	PATRICK T ENGLISH
4155	798 TOBY HILL ROAD	WESTBROOK	CT	TOBY HILL FARM LLC
4156	AUTUMN RIDGE ROAD	WESTBROOK	CT	WESTBROOK LAND CONSERVATION TRUST INC
4157	LAKE LOUISE DRIVE	WESTBROOK	CT	WESTBROOK LAND CONSERVATION TRUST INC
5111	TOBY HILL ROAD	WESTBROOK	CT	RUTH ANN CARLSON



Map Notes:
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Base Map Source: 2016 CTECO Orthophotography

1 inch = 200 feet
 0 100 200
 Feet

EVERSOURCE
 ENERGY

Transmission Line Maintenance
 Green Hill to Bokum Upgrade Project

Westbrook, CT

Map Sheet 14 of 19

May, 2018



MAPSHEET 15 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4894 to 4898****Towns of Westbrook and Old Saybrook, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- Unnamed Pond
- Aquifer Protection Area
- Water Company Land
- Public Water Supply Well
- State Land (The Preserve)
- Natural Diversity Database Area

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Unnamed Pond between structure 4895 and 4896
- Aquifer Protection Area from west of structure 4894 through 4898
- Water Company Land from structure 4895 to 4896
- State Land at structure 4898
- Natural Diversity Database Area from structure 4895 through 4898

Water Resources

- Wetlands – W53, W54, W55
- Wetland Cover Types – PFO, PSS, PEM, POW
- Watercourses – S20 (Trout Brook), S21
- Vernal Pools – None

Wetland and Watercourse Crossings

- Wetland W53 / Watercourse S20 – construction mats for access
- Wetland W54 – construction mats for work pads and access
- Wetland W55 / Watercourse S21 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4894 to 4896: existing and proposed access from Toby Hill Road
- Structure 4896 to 4897: from Essex Road (Route 153)
- Structure 4898: existing off-ROW access from Ingham Hill Road

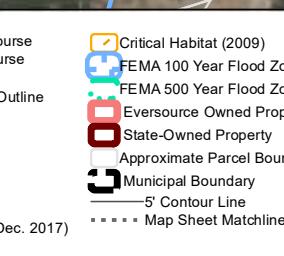
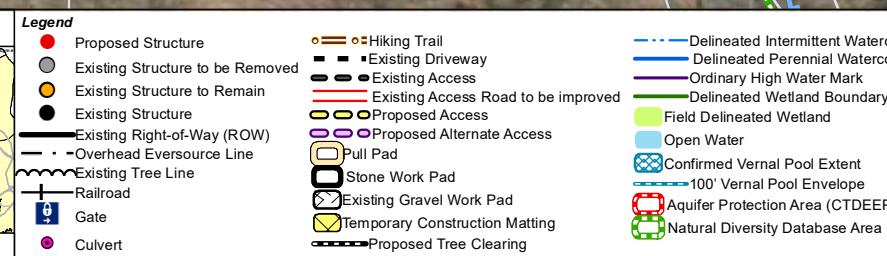
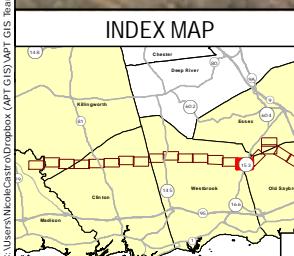
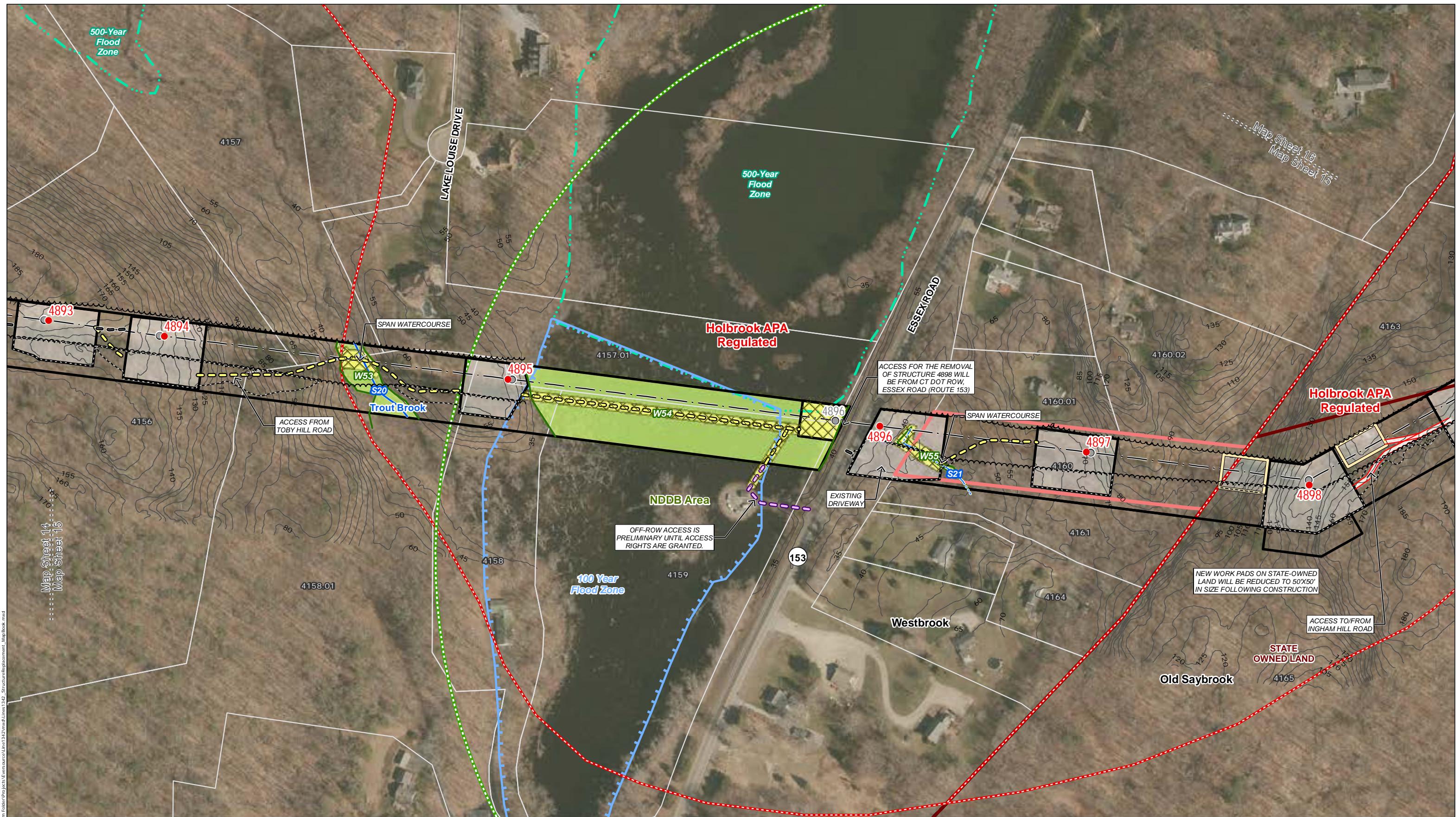
Road Crossings

- Essex Road (Route 153)

*Existing Maintained Right-of-Way Width / Proposed Right-of-Way**Clearing*

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4156	AUTUMN RIDGE ROAD	WESTBROOK	CT	WESTBROOK LAND CONSERVATION TRUST INC
4157	LAKE LOUISE DRIVE	WESTBROOK	CT	WESTBROOK LAND CONSERVATION TRUST INC
4157.01	6 LAKE LOUISE DRIVE	WESTBROOK	CT	MICHAEL W PILL
4158	1251 ESSEX ROAD	WESTBROOK	CT	1251 ESSEX RD, LLC
4158.01	1193 ESSEX ROAD	WESTBROOK	CT	NORLOU, LLC
4159	1333 ESSEX ROAD	WESTBROOK	CT	CONNECTICUT WATER COMPANY
4160	ESSEX ROAD	WESTBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4160.01	1406 ESSEX ROAD	WESTBROOK	CT	SHAWN A & DONNA J TRUE
4160.02	1412 ESSEX ROAD	WESTBROOK	CT	JEFFREY J & BARBARA M WESTWATER
4161	ESSEX ROAD	WESTBROOK	CT	TOWN OF OLD SAYBROOK & STATE OF CONNECTICUT AS T/I/C
4162	295 INGHAM HILL ROAD	OLD SAYBROOK	CT	ROGER J & PATRICIA C MAGORA
4163	INGHAM HILL ROAD	OLD SAYBROOK	CT	OLD SAYBROOK LAND TRUST INC
4164	1338 ESSEX ROAD	WESTBROOK	CT	LEE L & MARY ELLEN & ANNE P ARCHER
4165	INGHAM HILL ROAD	OLD SAYBROOK	CT	STATE OF CONNECTICUT & TOWN OF OLD SAYBROOK



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of fill does not exceed the footprint of the existing fill through
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Temporary impacts associated with construction mats in previously
disturbed wetland and upland areas either within vernal pool (VP) depressions
or management area (100' of VP's edge) are eligible under the Army Corps
of Engineers CT General Permit as a Self-Verification eligible activity.

mission Line Maintenance I to Bokum Upgrade Project

MAPSHEET 16 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4899 to 4905****Town of Old Saybrook, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- Aquifer Protection Area
- State Land (The Preserve)
- Natural Diversity Database Area

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4162	295 INGHAM HILL ROAD	OLD SAYBROOK	CT	ROGER J & PATRICIA C MAGORA
4163	INGHAM HILL ROAD	OLD SAYBROOK	CT	OLD SAYBROOK LAND TRUST INC
4165	INGHAM HILL ROAD	OLD SAYBROOK	CT	STATE OF CONNECTICUT & TOWN OF OLD SAYBROOK
4166	INGHAM HILL ROAD	ESSEX	CT	ESSEX LAND TRUST INC

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- Aquifer Protection Area from west of structure 4899 through 4900
- State Land from structure 4899 though 4905
- Natural Diversity Database Area from structure 4899 through 4905

Water Resources

- Wetlands – W56, W57, W58
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – S22
- Vernal Pools – VP20, VP21

Wetland and Watercourse Crossings

- Wetland W56 / Vernal Pool VP20 – construction mats for access

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

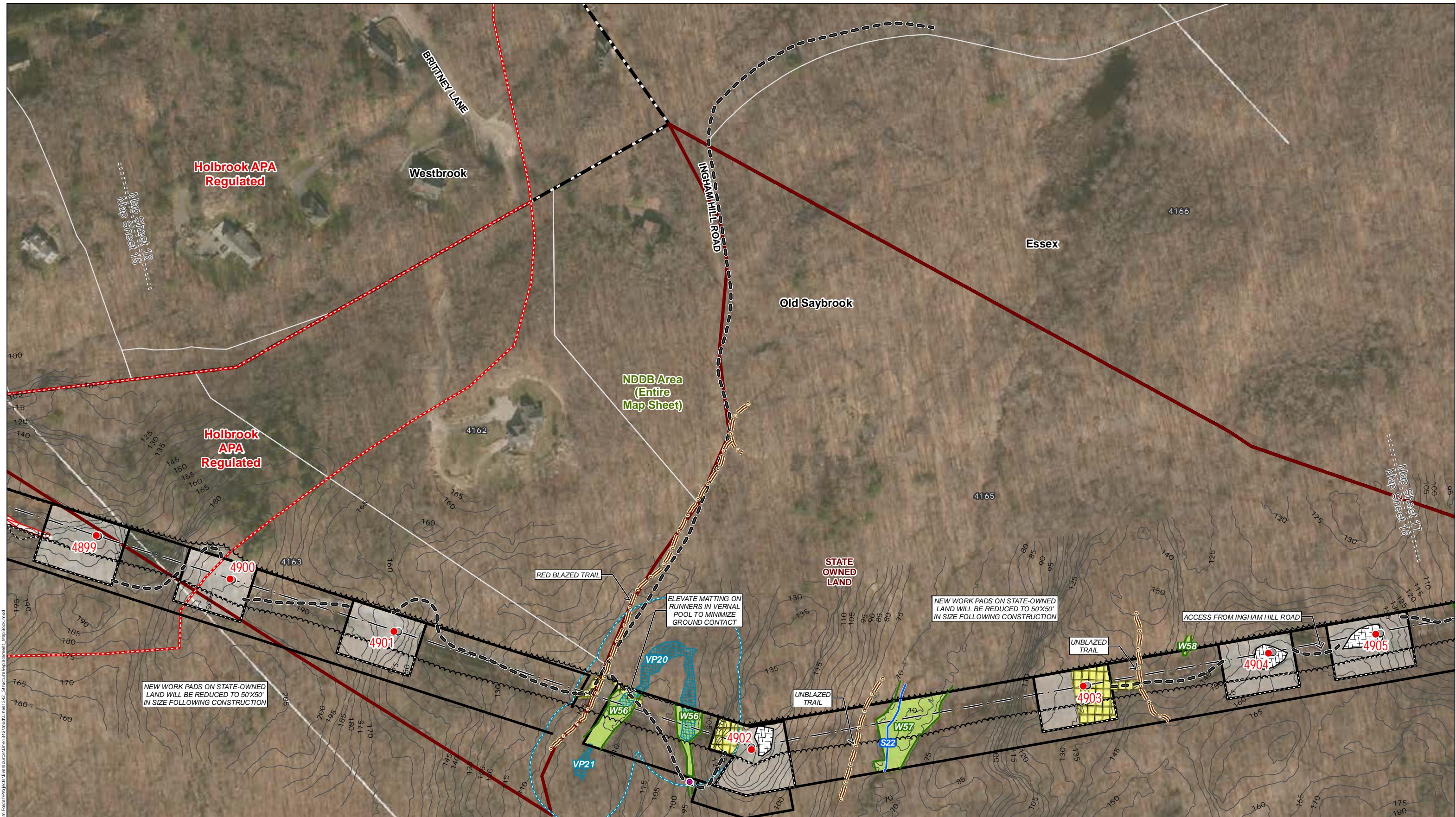
- Structure 4899 to 4905: existing off-ROW access from Ingham Hill Road

Road Crossings

- None

*Existing Maintained Right-of-Way Width / Proposed Right-of-Way**Clearing*

- 60 feet / 20 feet



MAPSHEET 17 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4906 to 4913****Town of Old Saybrook, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- State Land (The Preserve)
- Natural Diversity Database Area

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4165	INGHAM HILL ROAD	OLD SAYBROOK	CT	STATE OF CONNECTICUT & TOWN OF OLD SAYBROOK
4166	INGHAM HILL ROAD	ESSEX	CT	ESSEX LAND TRUST INC
4167	INGHAM HILL ROAD	OLD SAYBROOK	CT	TOWN OF OLD SAYBROOK
4168	61 INGHAM HILL ROAD	ESSEX	CT	BRUCE M & ANNE C GLOWAC
4169	INGHAM HILL ROAD	ESSEX	CT	ESSEX LAND TRUST INC
4170	MILL ROCK ROAD EAST	OLD SAYBROOK	CT	STATE OF CONNECTICUT
5128	53 INGHAM HILL ROAD	ESSEX	CT	TIMOTHY MICHAEL & KATHERINE MAE GLOWAC

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- State Land from structure 4906 though 4913
- Natural Diversity Database Area from structure 4909 through 4913

Water Resources

- Wetlands – W59, W60, W61 (off-ROW)
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – None
- Vernal Pools – VP22 (off-ROW)

Wetland and Watercourse Crossings

- Wetland W60 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

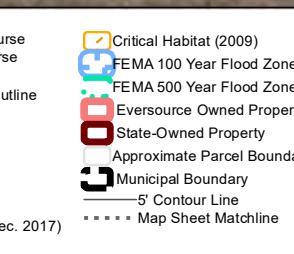
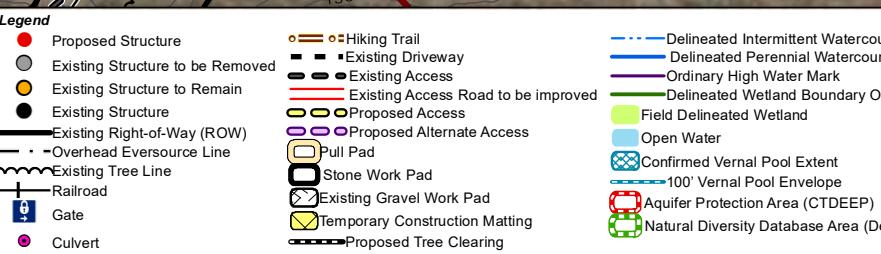
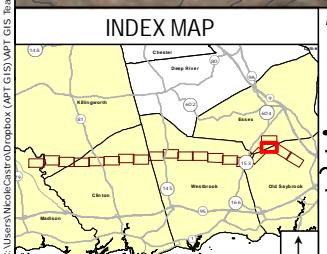
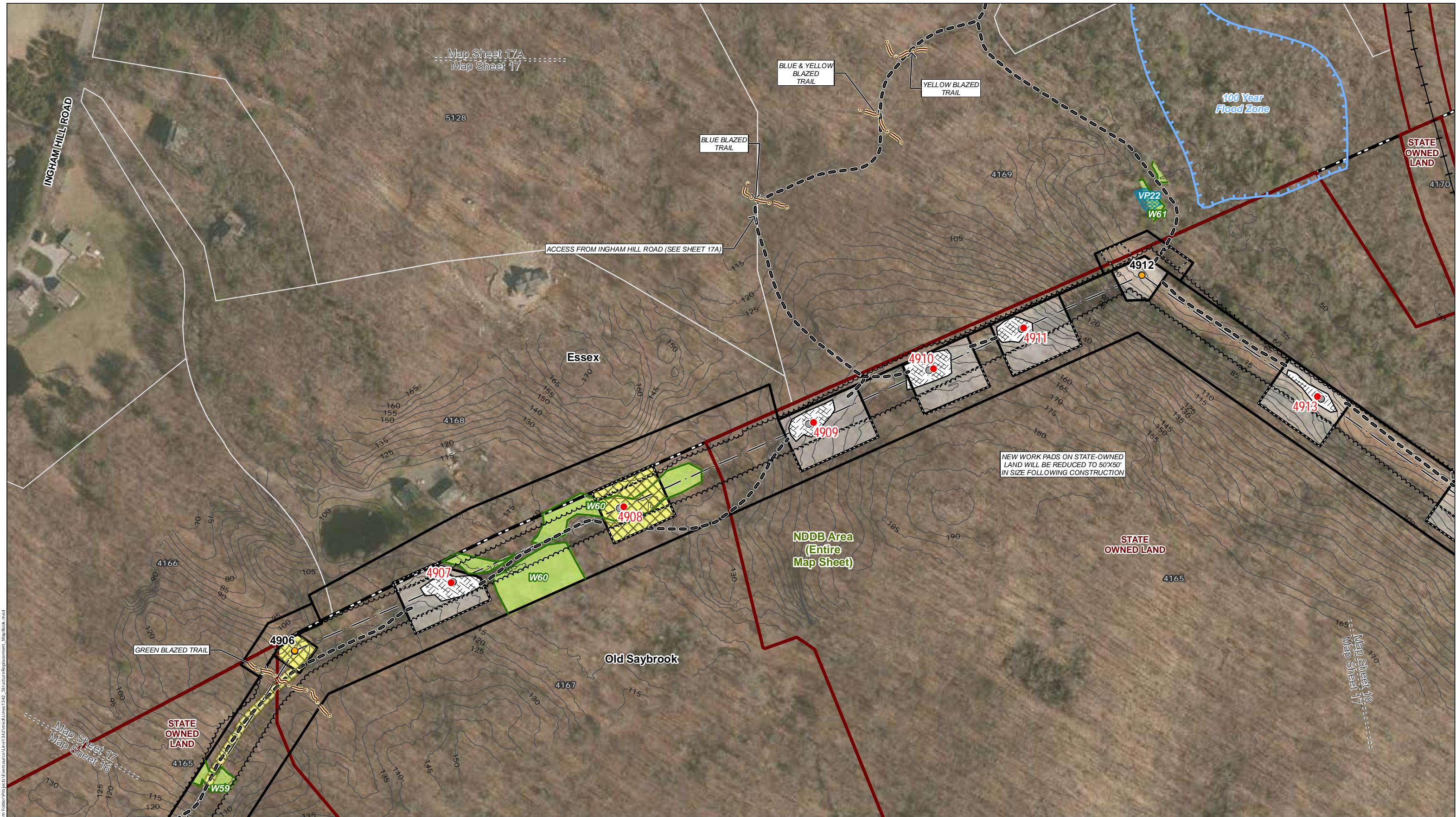
- Structure 4899 to 4905: existing off-ROW access from Ingham Hill Road

Road Crossings

- None

*Existing Maintained Right-of-Way Width / Proposed Right-of-Way**Clearing*

- 60 feet / 20 feet



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or management area (100' of VP's edge) are eligible under the Army Corps
of Engineers CT General Permit as a Self-Verification eligible activity.

Session Line Maintenance to Bokum Upgrade Project

MAPSHEET 17A of 19**Green Hill to Bokum Upgrade Project****Existing Off-ROW Access to Structures 4903 to 4924****Town of Essex, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- Commercial
- Natural Diversity Database Area

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4169	INGHAM HILL ROAD	ESSEX	CT	ESSEX LAND TRUST INC
4168	61 INGHAM HILL ROAD	ESSEX	CT	BRUCE M & ANNE C GLOWAC
4170	MILL ROCK ROAD EAST	OLD SAYBROOK	CT	STATE OF CONNECTICUT
5128	53 INGHAM HILL ROAD	ESSEX	CT	TIMOTHY MICHAEL & KATHERINE MAE GLOWAC

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Not Applicable

Water Resources

- Wetlands – W62, W63 (along off-ROW access road)
- Wetland Cover Types – PFO
- Watercourses – None
- Vernal Pools – None

Wetland and Watercourse Crossings

- None

Right-of-Way Vegetation

- Not Applicable

Access

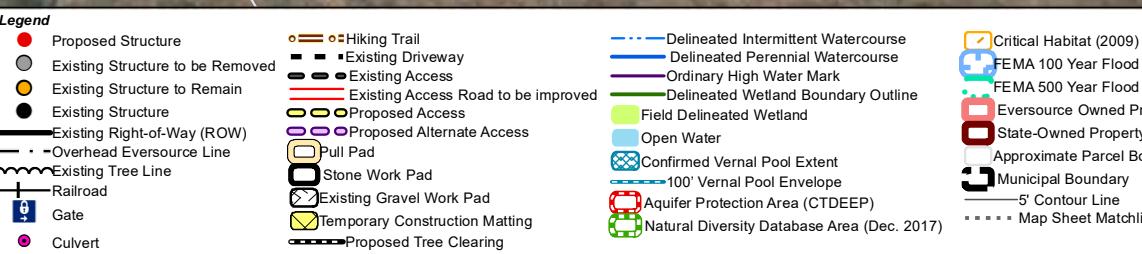
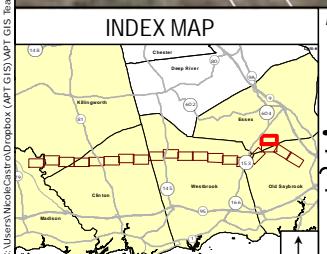
- Existing off-ROW access from Ingham Hill Road

Road Crossings

- None

*Existing Maintained Right-of-Way Width / Proposed Right-of-Way**Clearing*

- Not Applicable



Map Notes:

Not for Construction, Parcel and ROW boundaries are approximate (not survey).
 Parcel data provided by Comerstone Energy, LLC (02/2018).
 Repairs to existing access roads within wetlands with permanent fills are exempt discharges under 323.4(a)(2) provided that the limit of fill does not exceed the footprint of the existing fill through wetlands areas. Maintenance repairs do not include modifications that change the character, scope, and size of the original fill design. Temporary impacts associated with construction mats in previously disturbed wetland and upland areas either within vernal pool (VP) depressions or management area (100' of VP's edge) are eligible under the Army Corps of Engineers CT General Permit as a Self-Verification eligible activity.

Base Map Source: 2016 CTECO Orthophotography

0 100 200 Feet

EVERSOURCE
ENERGY

Transmission Line Maintenance
Green Hill to Bokum Upgrade Project

Essex, CT

Map Sheet 17A of 19

May, 2018



MAPSHEET 18 of 19

Green Hill to Bokum Upgrade Project
Existing Structures 4914 to 4919
Town of Old Saybrook, Connecticut

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4165	INGHAM HILL ROAD	OLD SAYBROOK	CT	STATE OF CONNECTICUT & TOWN OF OLD SAYBROOK
4170	MILL ROCK ROAD EAST	OLD SAYBROOK	CT	STATE OF CONNECTICUT

AREA DESCRIPTION*Existing Land Use & Resource Areas*

- Undeveloped, forest
- State Land (The Preserve)
- Valley Railroad
- Natural Diversity Database Area

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- State Land from structure 4914 though 4919
- Natural Diversity Database Area from structure 4914 through 4918

Water Resources

- Wetlands – W64
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – None
- Vernal Pools – VP23

Wetland and Watercourse Crossings

- Wetland W64 – construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

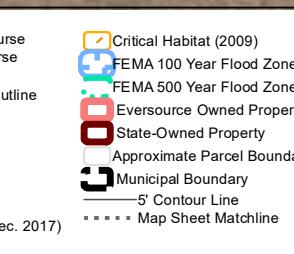
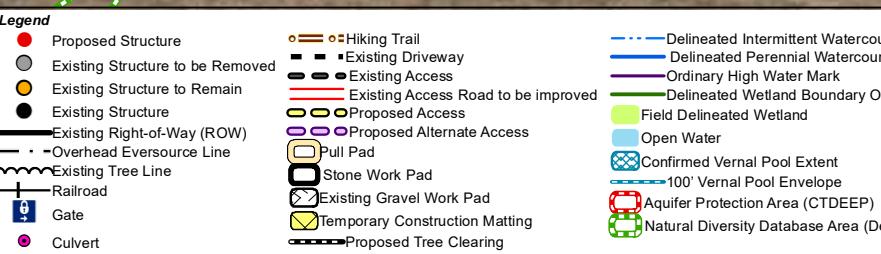
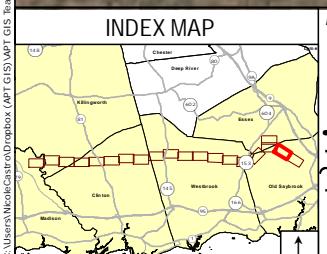
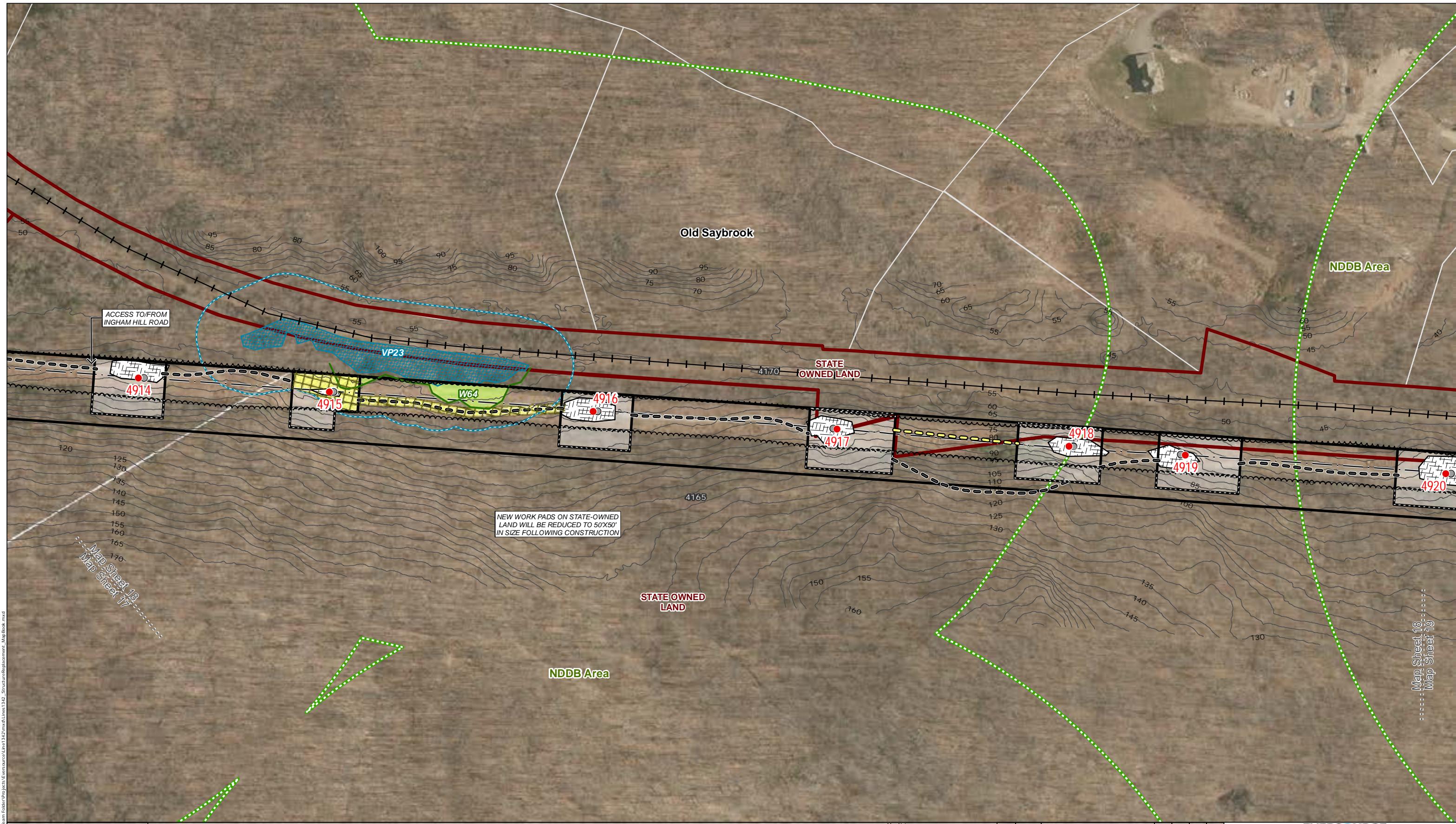
- Structure 4914 to 4919: existing off-ROW access from Ingham Hill Road

Road Crossings

- None

Existing Maintained Right-of-Way Width / Proposed Right-of-Way Clearing

- 60 feet / 20 feet



Map Notes:
 Not for Construction. Parcel and ROW boundaries are approximate (not survey).
 Parcel data provided by Comerstone Energy, LLC (02/2018).
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 fills are exempt discharges under 323.4(a)(2) provided that the limit
 of fill does not exceed the footprint of the existing fill through
 wetlands area. Maintenance repairs do not include modifications
 that change the character, scope, and size of the original fill design.
 Temporary impacts associated with construction mats in previously
 disturbed wetland and upland areas either within vernal pool (VP) depressions
 or management area (100' of VP's edge) are eligible under the Army Corps
 of Engineers CT General Permit as a Self-Verification eligible activity.

EVERSOURCE ENERGY

mission Line Maintenance I to Bokum Upgrade Project

MAPSHEET 19 of 19**Green Hill to Bokum Upgrade Project****Existing Structures 4920 to 4925****Town of Old Saybrook, Connecticut****AREA DESCRIPTION***Existing Land Use & Resource Areas*

- Undeveloped, forest
- Residential
- State Land (The Preserve)
- Eversource owned property (Bokum Substation)
- Valley Railroad
- Natural Diversity Database Area (including Critical Habitat)

RIGHT-OF-WAY DESCRIPTION*Right-of-Way Land Use & Resource Areas*

- Maintained ROW
- State Land from structure 4920 though 4925
- Natural Diversity Database Area from structure 4920 through 4925
- Valley Railroad between structure 4924 and 4925

Water Resources

- Wetlands – W65
- Wetland Cover Types – PFO, PSS, PEM
- Watercourses – S23
- Vernal Pools - None

Wetland and Watercourse Crossings

- Wetland W65 – construction mats for work pad and access

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structure 4920 to 4924: existing off-ROW access from Ingham Hill Road
- Structure 4925: proposed access from Eversource owned property

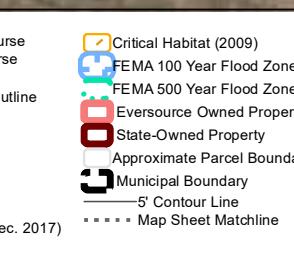
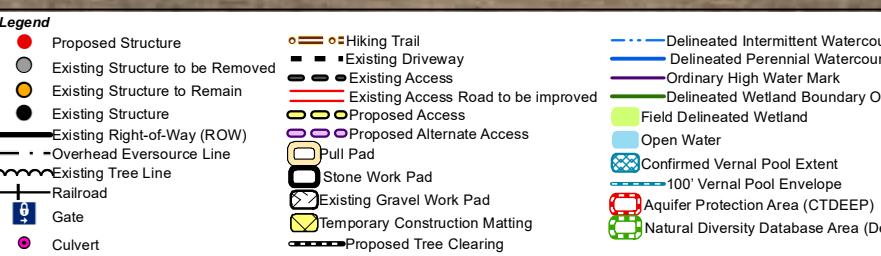
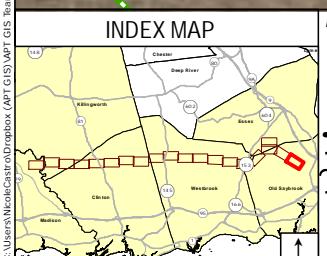
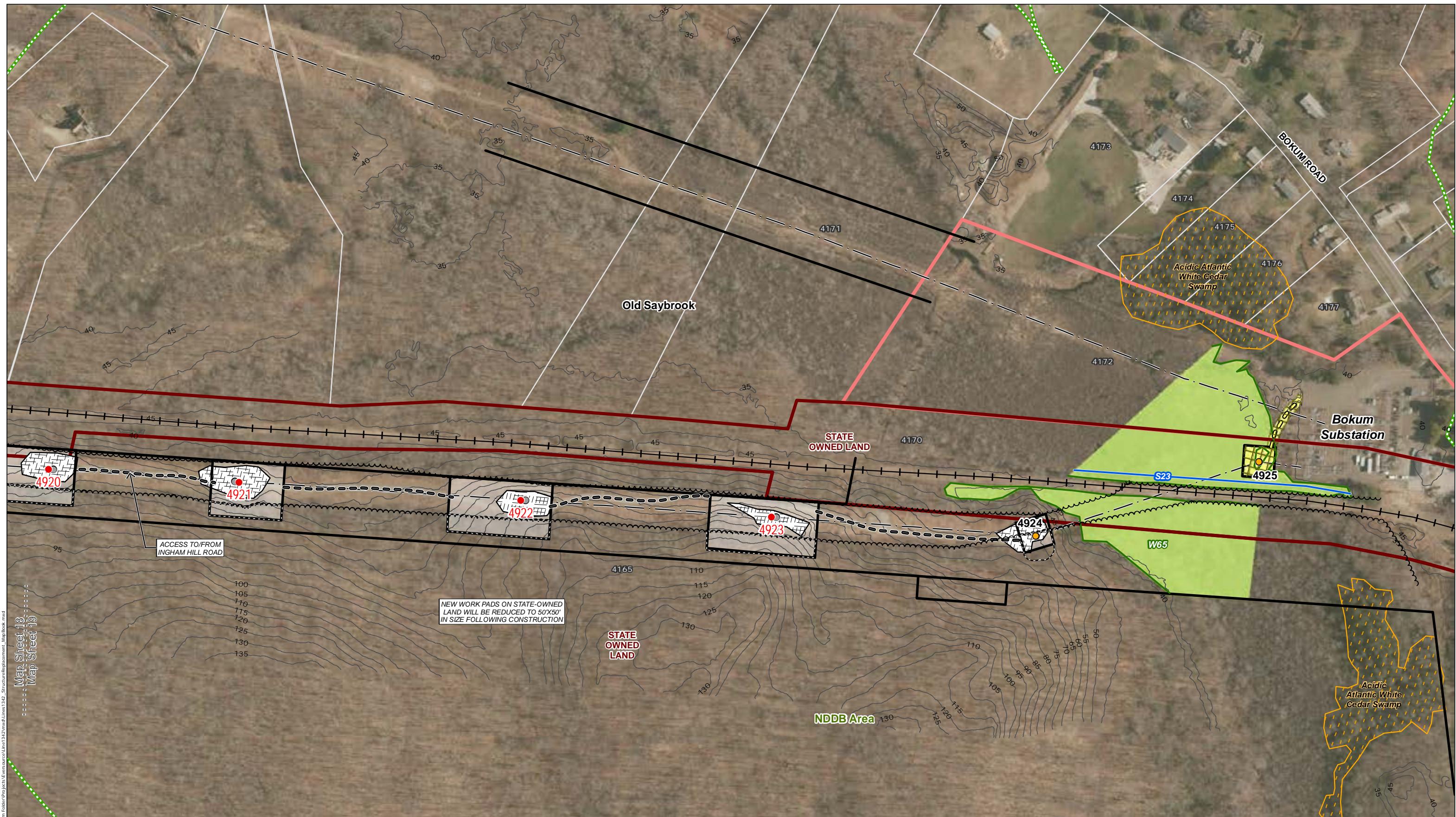
Road Crossings

- None

*Existing Maintained Right-of-Way Width / Proposed Right-of-Way**Clearing*

- 60 feet / 20 feet

<u>LLN Number</u>	<u>Parcel Address</u>	<u>City</u>	<u>State</u>	<u>Owner Name</u>
4165	INGHAM HILL ROAD	OLD SAYBROOK	CT	STATE OF CONNECTICUT & TOWN OF OLD SAYBROOK
4170	MILL ROCK ROAD EAST	OLD SAYBROOK	CT	STATE OF CONNECTICUT
4171	BOKUM ROAD	OLD SAYBROOK	CT	EUGENE M & LISA ANN EVANGELISTI
4172	49 BOKUM ROAD	OLD SAYBROOK	CT	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)
4173	65 BOKUM ROAD	OLD SAYBROOK	CT	LISA ANN & EUGENE M EVANGELISTI
4174	61 BOKUM ROAD	OLD SAYBROOK	CT	DAVID A & SUSAN D BELL
4175	59 BOKUM ROAD	OLD SAYBROOK	CT	CAROLANN MCGOWAN
4176	57 BOKUM ROAD	OLD SAYBROOK	CT	MICHAEL W CARPENTER
4177	55 BOKUM ROAD	OLD SAYBROOK	CT	EDMUND D YEAGER JR



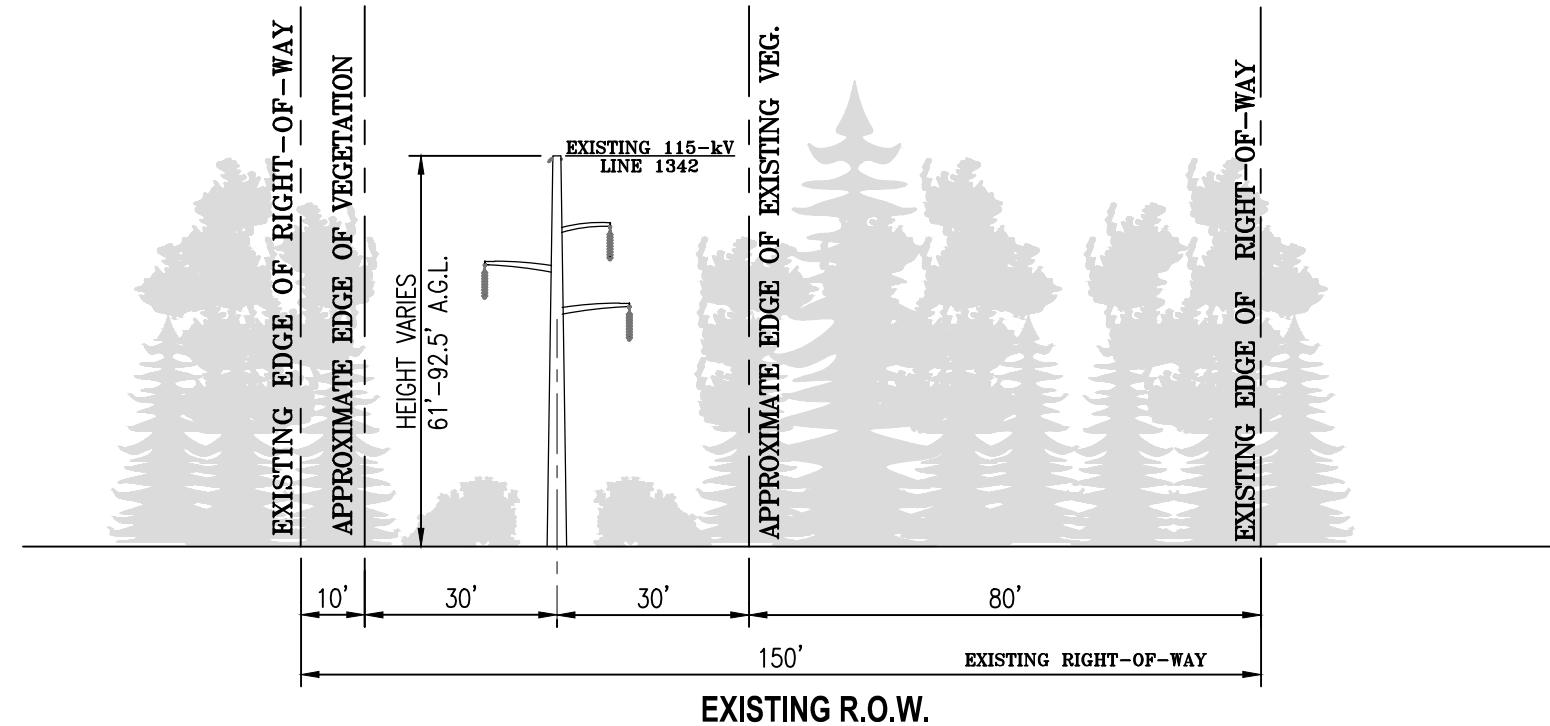
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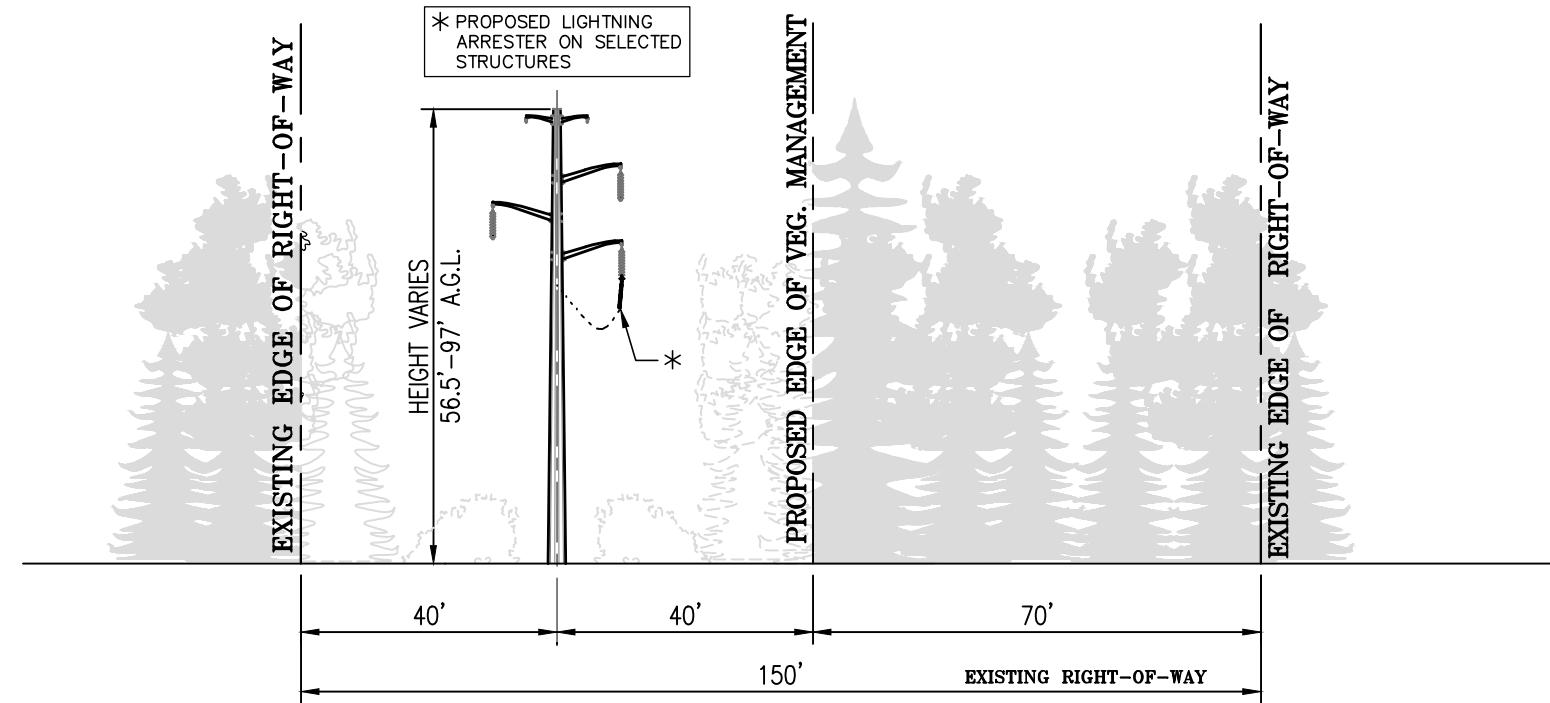
EVIRONMENTAL SOURCES ENERGY

Session Line Maintenance to Bokum Upgrade Project

ATTACHMENT B



LOOKING EAST
IN THE TOWNS OF MADISON, KILLINGWORTH, CLINTON,
WESTBROOK, AND OLD SAYBROOK, CT



LOOKING EAST
IN THE TOWNS OF MADISON, KILLINGWORTH, CLINTON,
WESTBROOK, AND OLD SAYBROOK, CT

EVERSOURCE ENERGY				
TITLE GREEN HILL SUBSTATION - BOKUM SUBSTATION LINE 1342				
EXISTING/ PROPOSED CROSS SECTION				
MADISON, KILLINGWORTH, CLINTON, WESTBROOK, OLD SAYBROOK, CT				
BY	RRH, RK	CHKD	EQ	APP
DATE	4/30/18	DATE	4/30/18	DATE
H-SCALE	1'=30'	SIZE	B	FIELD BOOK & PAGES
V-SCALE	1'=30'	V.S.		R.E. DWG
R.E. PROJ. NUMBER			DWG NO.	
			XS-1	

ATTACHMENT C



INTEGRATED HISTORIC PRESERVATION PLANNING

June 22, 2016

Matthew Davison
Senior Environmental Scientist
Tighe & Bond
213 Court Street, Suite 1100
Middletown, Connecticut 06457

RE: Cultural Resources Review of the Proposed Bokum to Green Hill Rebuild Project in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut

Mr. Davison:

Heritage Consultants, LLC, is pleased to have this opportunity to provide Tighe & Bond, in support of Eversource Energy, with the following preliminary archaeological assessment of the proposed Bokum to Green Hill Rebuild Project in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut (Figure 1; Sheets 1 through 8). The current review entailed completion of an existing conditions cultural resources summary based on the examination of data obtained from the Connecticut State Historic Preservation Office, as well as GIS data and historic maps, aerial photographs, and topographic quadrangles maintained by Heritage Consultants, LLC. This investigation is based upon project location information provided to Heritage Consultants, LLC by Tighe & Bond and Eversource Energy. The objectives of this study were: 1) to gather and present data regarding previously identified cultural resources situated within the vicinity of the proposed project corridor; 2) to investigate the proposed project corridor in terms of its natural and historical characteristics; and 3) to evaluate the need for completing additional cultural resources investigations. At this time, no field investigations have been conducted.

As seen in Figure 1; Sheets 1 through 8, the proposed Haddam to Bokum to Green Hill Rebuild project corridor is located in portions of Old Saybrook, Clinton, Westbrook, and Madison, Connecticut. It extends through a combination of suburban and rural areas. This region contains elevations ranging from approximately 12.2 to 85.3 m (40 to 280 ft) NGVD, and it crosses a single major ecozone that has been defined. This is Western Coastal ecoregion. The western Coastal ecoregion consists of a hilly terrain that extends from Connecticut's coastline to approximately 5 to 7 miles to the north of Long Island Sound (Dowhan and Craig 1976). It is characterized by "coastlands, including extensive tidal marshes, sand beaches, and estuaries, by relatively level but rolling near-shore lands, and by locally rugged and rocky protrusions of upland extending to the shoreline" (Dowhan and Craig 1976:38). Elevations in the Western Coastal ecoregion range from sea level to 152 m (500 ft) NGVD (Bell 1985). The bedrock of the area is primarily metamorphic in origin, and it composed of schists and gneisses deposited during the Paleozoic (Bell 1985). Soils in the region have developed on top of glacial till in upland locales and on top of stratified deposits of silts and sands in the valleys. Soils along the coast are developed upon coastal and tidal deposits (Dowhan and Craig 1976). This ecoregion is also characterized by numerous ponds, rivers, streams, brooks, and wetland areas. Freshwater sources located in close proximity to the proposed project corridor include Mine Swamp, Spring Brook, Birch Pond, Pequot Swamp Pond, Ortner's Pond, and Indian River.

A review of previously recorded cultural resources on file with the Connecticut State Historic Preservation Office was completed by Heritage Consultants, LLC during June of 2016 (Figure 2; Sheets 1 through 8 and Figure 3; Sheets 1 through 8). This literature review revealed that while no National Register of Historic Places properties were identified, a total of four previously identified archaeological sites are situated within or adjacent to the proposed project corridor. The previously identified archaeological sites include Sites 106-21, 106-28, and 106-29 in Old Saybrook and Site 154-9 in Westbrook. Each of these archaeological resources is described briefly below.

Site 106-21, also known as the Bokum Road Site, is described on the State of Connecticut form as a prehistoric occupation dating from an unknown time period. The site was reported by Dr. Fred Warner of Connecticut Archaeology Survey, Inc., in 1979. Dr. Warner indicated that Site 106-21 was situated at 100 ft NGVD along an unnamed stream. According to the submitted State of Connecticut site form, Site 106-21 consisted of a camp that yielded “several untyped projectile points” from surface collections made at the site over the years. Unfortunately, the types and variety of projectile points collected from the site area were not identified and the site could not be assigned to a particular time period or cultural affiliation. Site 106-21 was not assessed applying the National Register of Historic Places criteria for evaluation (36 CFR 60.4 [a-d]), and no recommendations concerning additional archaeological testing of the site area were made on the State of Connecticut site form.

Site 106-28, also called the Preserve Block S Site, was identified in 1999 by Gregory Walwer of Archaeological Consulting Services; it was classified as a short term hunting or collecting camp that appeared to be part of a larger mobile settlement pattern. The site was documented at 40 ft NGVD and next to a marsh, and according to Walwer, it produced “quartz flakes in low to moderate densities.” No temporally diagnostic artifacts were recovered during excavations and no data was collected from the area that could be used to assign Site 106-28 to a particular time period or cultural affiliation. Site 106-28 also was not assessed applying the National Register of Historic Places criteria for evaluation (36 CFR 60.4 [a-d]), and no recommendations concerning additional archaeological testing of the site area were made on the State of Connecticut site form.

Site 106-29, also known as the Lyon Dam Site, is described on the site form as dating from the twentieth century. The Lyon Dam Site also was reported by Gregory Walwer in 1999, who indicated that it was situated at the southwestern end of Pequot Swamp Pond. According to the State of Connecticut site form, the dam measured 75 ft in length, by 8 ft in height, by 3 ft in width. It was erected by the Lyon Family in the 1930s to turn the former swamp there into a pond. According to the State of Connecticut site form, Site 106-29 was assessed as not significant applying the National Register of Historic Places criteria for evaluation (36 CFR 60.4 [a-d]). No additional recordation of the dam was recommended.

Site 154-9, also known as the Bowie Site, is described on the State of Connecticut form as a prehistoric occupation dating from an unknown time period. The site was reported in 1979 by Dr. Fred Warner of Connecticut Archaeology Survey, Inc. Dr. Warner indicated that Site 154-9 was situated at 50 ft NGVD along Trout Brook. According to the submitted State of Connecticut site form, Site 154-9 consisted of a camp that yielded “quartz small stemmed points, quartz triangles, quartz debitage, and hearths.” Unfortunately, the types and variety of projectile points collected from the site area were not temporally diagnostic in nature and the site could not be assigned to a particular time period or cultural affiliation. Further, the site area had been destroyed. Site 154-9 was not assessed applying the National Register of Historic Places criteria for evaluation (36 CFR 60.4 [a-d]).

In order to further refine the archaeological context of the project region and to evaluate the likelihood that additional archaeological sites may be encountered along the proposed project corridor, Heritage

Consultants, LLC has reviewed aerial photographs, historic mapping, and soils distributions throughout the project region. Historic mapping and aerial images depicting the proposed project corridor indicate that these portions of Haddam, Chester, Deep River, Essex, and Old Saybrook have been actively settled since the late seventeenth century, and that, farming, logging, and ocean related activities formed the economic base of this region historically. It was not until after World War II ended that the region began to change substantially in character. The post war suburbanization process of the area was in full swing by the 1950s, when several housing subdivisions and highways were built throughout the region. This influx of new residents to this part of Connecticut was quickly followed by the establishment of new commercial and industrial facilities in the vicinity of the project corridor. Despite these historical changes, it is clear that some portions of the proposed project corridor remain undeveloped and have not been disturbed to a large degree. These are places where archaeological sites may still retain their depositional integrity.

Environmental characteristics frequently are used to predict the location of archeological sites. Typically distance to water, slope, and soil types are included as part of these predictive models. Favorable conditions for archaeological site locations are characterized by gently sloping, well-drained soils located in close proximity to fresh water sources. While sections of the proposed project corridor have been characterized as retaining a moderate/high potential to produce intact cultural deposits (see Figure 5, Sheets 1 through 8), other areas also been impacted by modern development or are characterized by Urban Land or Udorthent soils. These latter areas lack depositional integrity; thus, they retain little, if any, potential to retain intact cultural deposits. As a result, these areas were designated as having a no/low probability for containing archeological resources. Finally, during the current investigation, those areas identified as containing moderate to extremely sloping areas also have been designated as no/low potential areas in terms of their likelihood to produce intact archaeological deposits. Figure 5, Sheets 1 through 8 shows the locations of all areas deemed to retain a no/low archaeological potential.

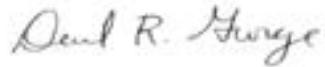
In contrast, those portions of the proposed project corridor that fall within areas of low slopes and in proximity to a freshwater sources or previously identified archaeological sites and have not been disturbed can be identified as moderate/high potential areas. This approach of stratifying project areas into no/low and moderate/high probability zones based on soil types, slope, and distance to water has been used by Connecticut archaeologists for decades and it is a proven method. Based on these criteria, it appears that approximately 35 to 40 percent of proposed project corridor should be considered to retain a moderate/high potential to yield intact cultural deposits from the prehistoric or historic periods. The remaining 60 to 65 percent of the line has been disturbed, contains steep slopes, soils not amenable to prehistoric or historic occupations, and/or is buried by paved surfaces or located within Udorthent soils or dumps; these areas retain little, if any, intact and/or dry soils that may contain archaeological deposits.

Based on the distribution of previously identified archaeological sites, data collected from historic maps and aerials, and the environmental nature of the area, it is the professional opinion of Heritage Consultants, LLC that, if possible, ground disturbance should be avoided in areas characterized as having a moderate/high archaeological sensitivity as depicted in Figure 5; Sheets 1 through 8. If, as it is likely, the moderate/high sensitivity areas noted above cannot be avoided during construction, it is recommended that timber matting should be employed during the construction process to avoid ground disturbance in these areas. If this is also not feasible, then a Phase IB Reconnaissance Survey of the moderate/high sensitivity areas should be conducted prior to construction. No additional examination of the no/low sensitivity areas is recommended, as these areas no longer retain the potential to yield intact archaeological sites.

Mr. Davison
June 22, 2016
Page 4

If you have any questions regarding this Technical Memorandum, or if we may be of additional assistance with this or any other projects you may have, please do not hesitate to call us at 860-667-3001 or email me at dgeorge@heritage-consultants.com. We are at your service.

Sincerely,



David R. George, M.A., R.P.A.
Heritage Consultants, LLC

References Cited

Bell, Michael
1985 *The Face of Connecticut: People, Geology, and the Land.* State Geological Natural History Survey of Connecticut Department of Environmental Protection.

Dowhan, J.J. and R.J. Craig
1976 *Rare and Endangered species of Connecticut and Their Habitats.* State Geological Natural History Survey of Connecticut Department of Environmental Protection, Report of Investigations No. 6.

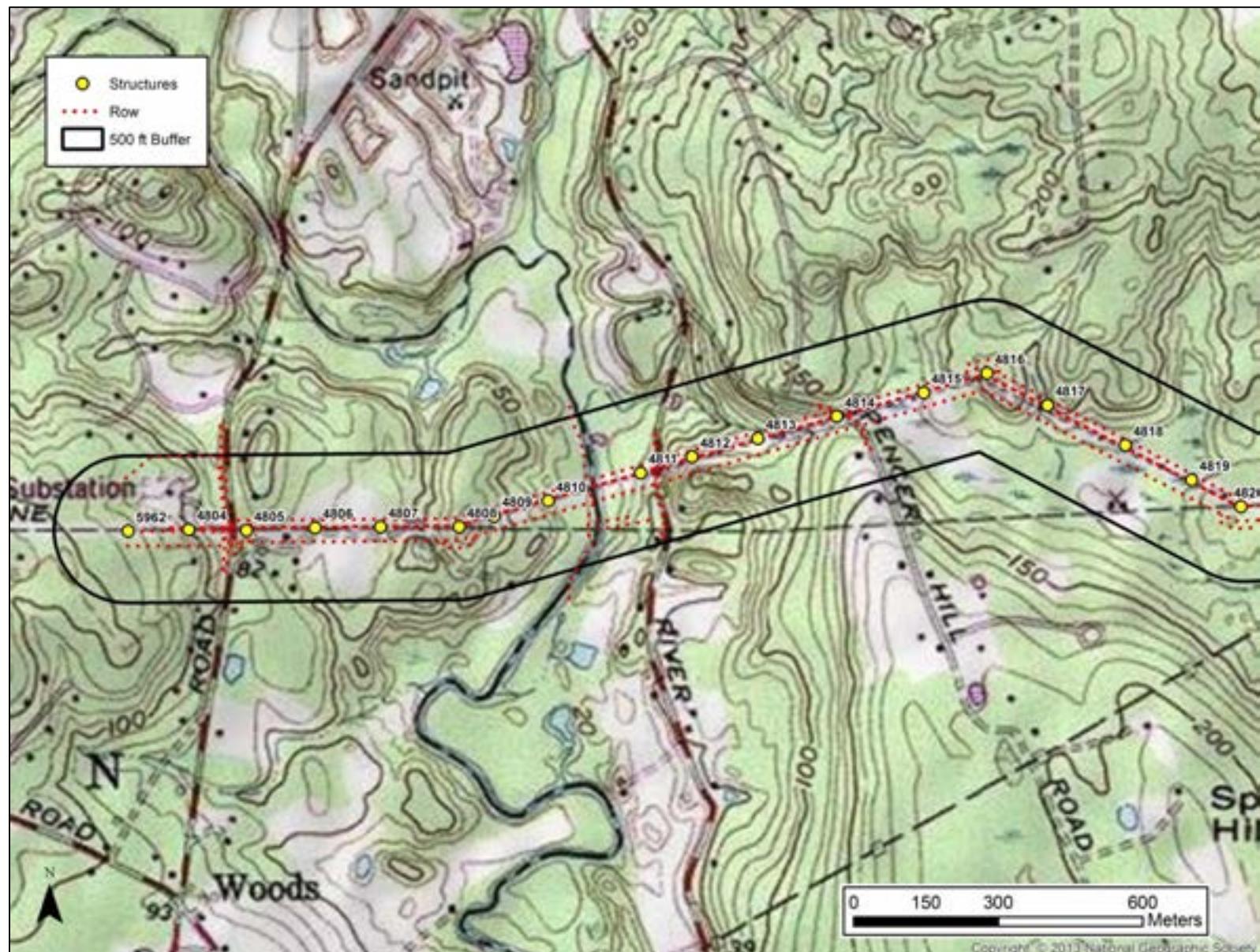
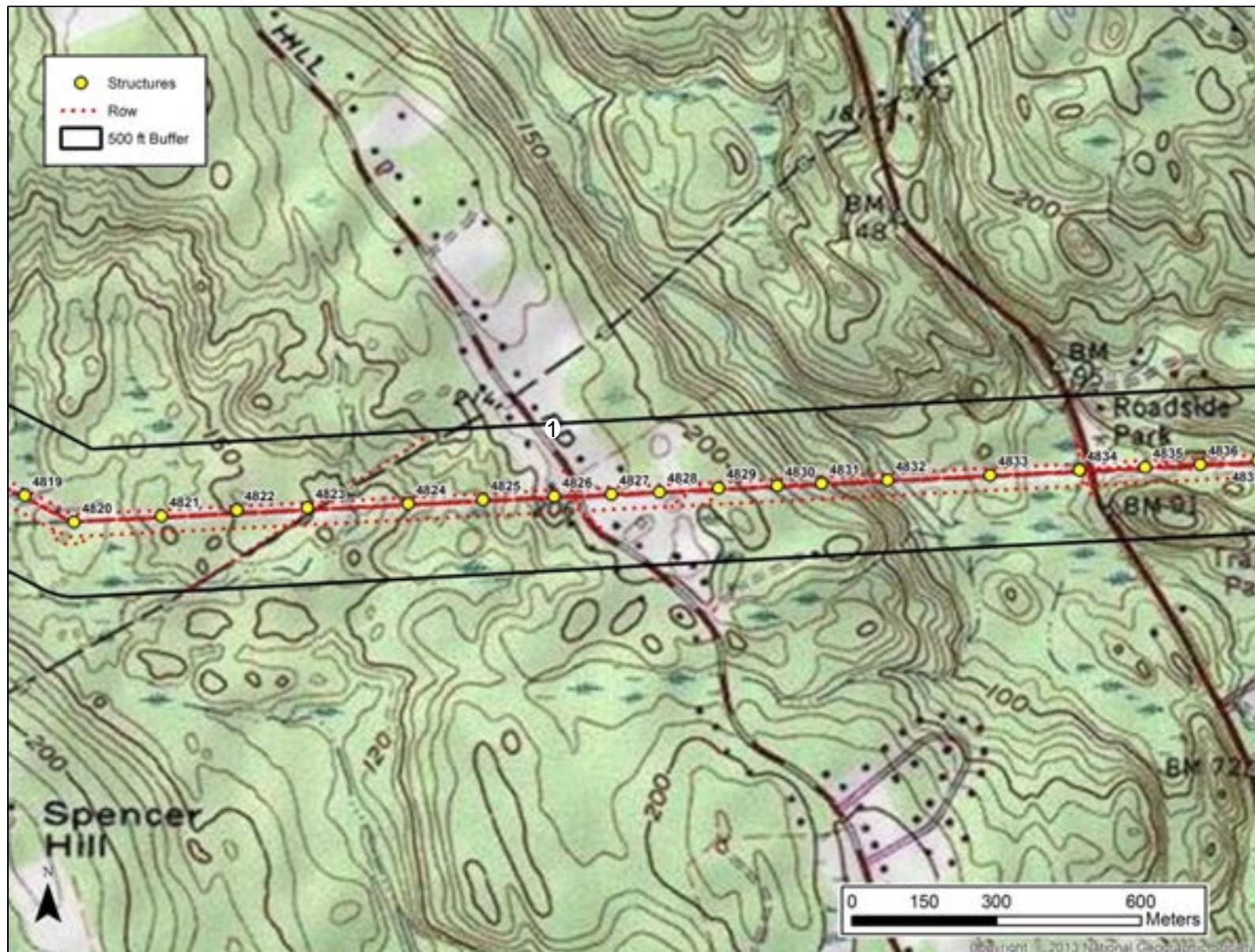


Figure 1, Sheet 1.

Excerpt from a USGS 7.5' series topographic quadrangle image showing locations of structures along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.



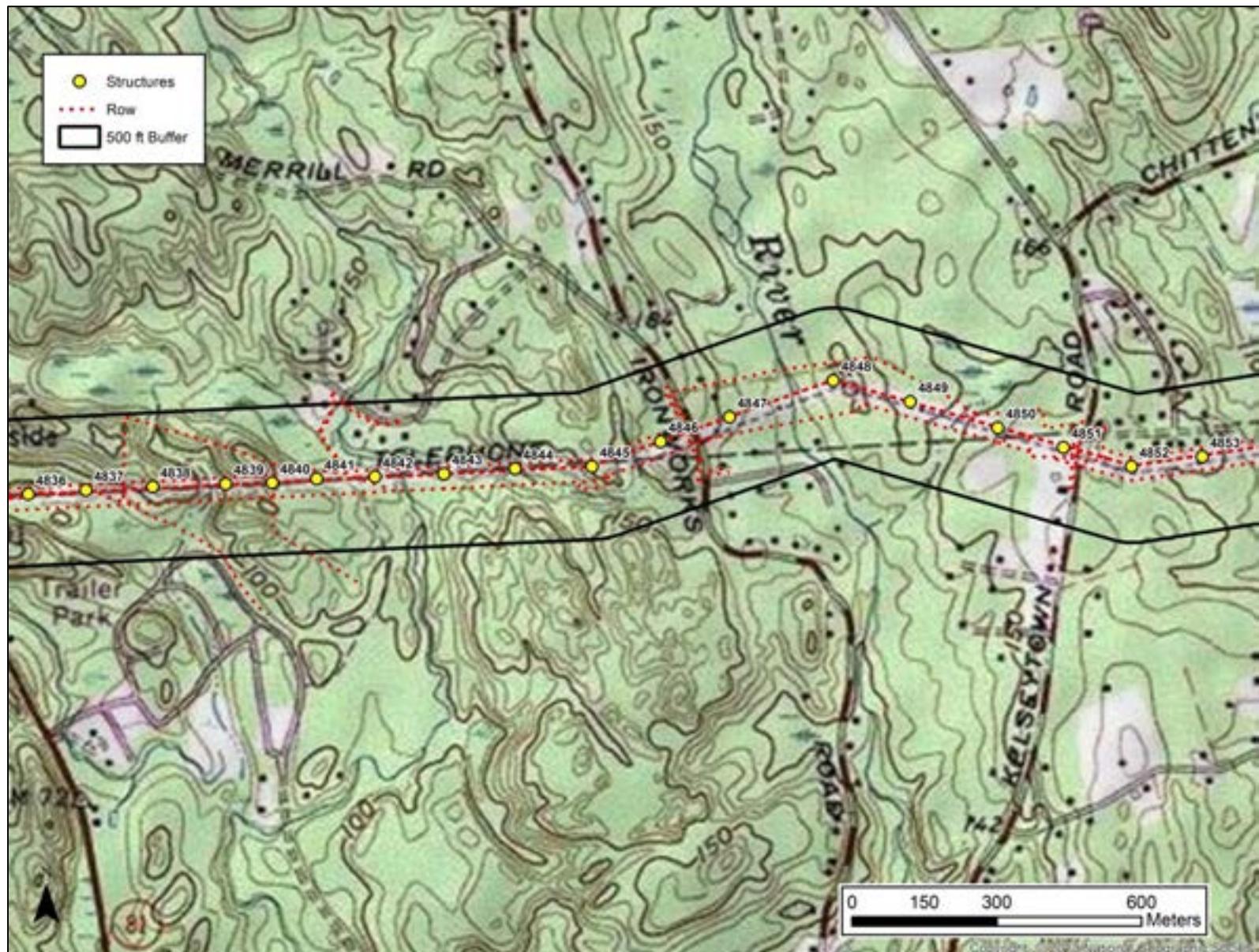


Figure 1, Sheet 3.

Excerpt from a USGS 7.5' series topographic quadrangle image showing the locations of structures along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

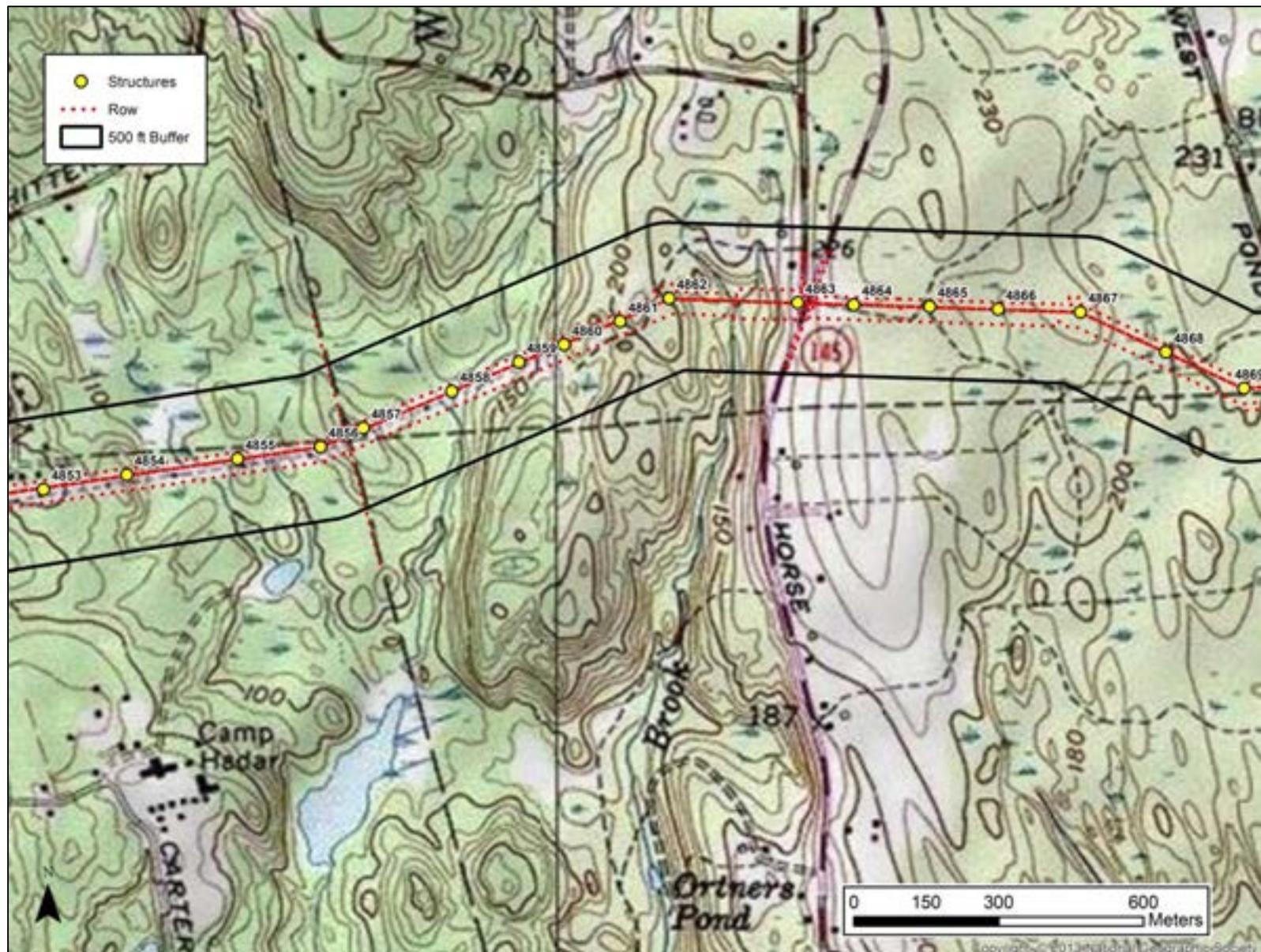


Figure 1, Sheet 4.

Excerpt from a USGS 7.5' series topographic quadrangle image showing the locations of structures along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

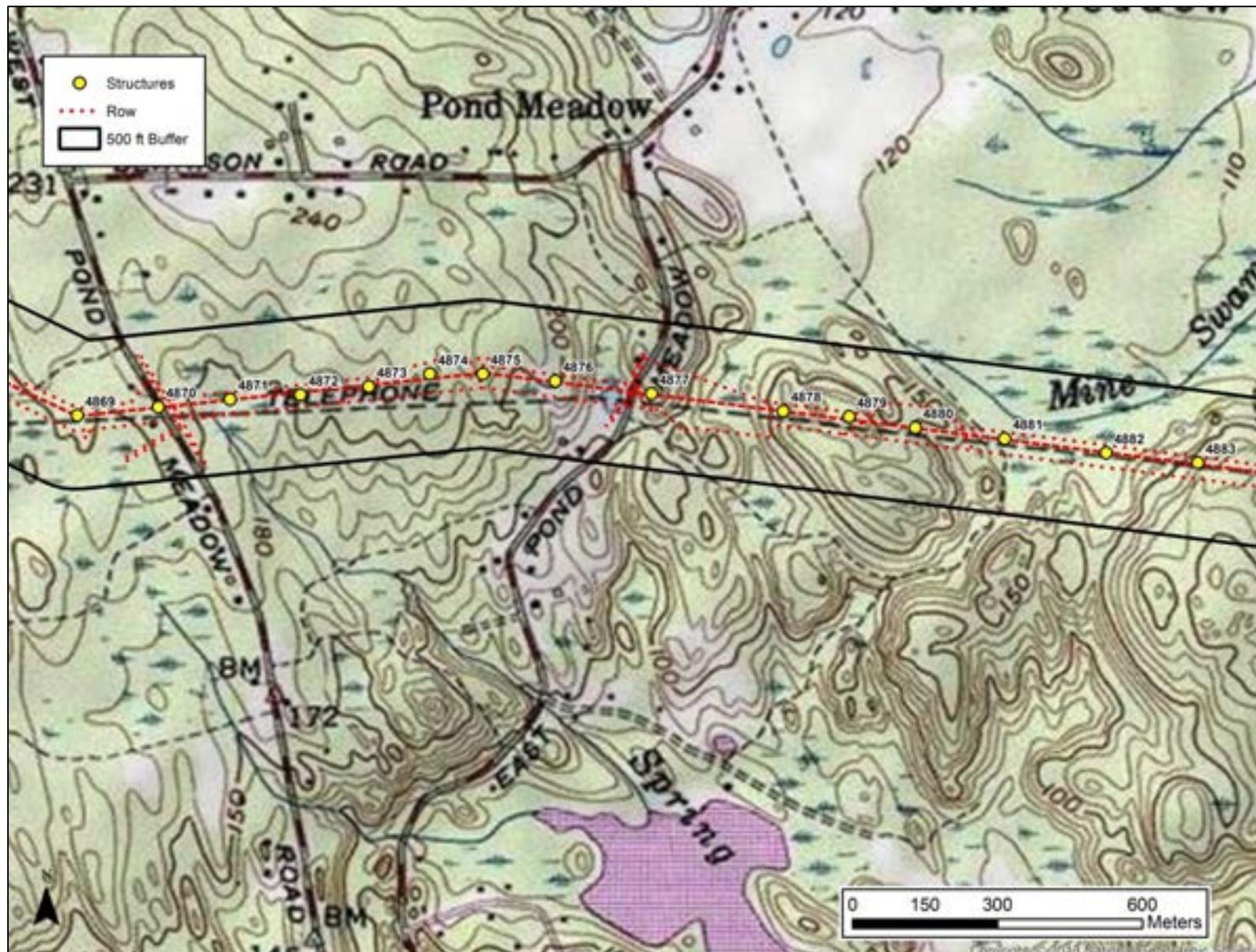
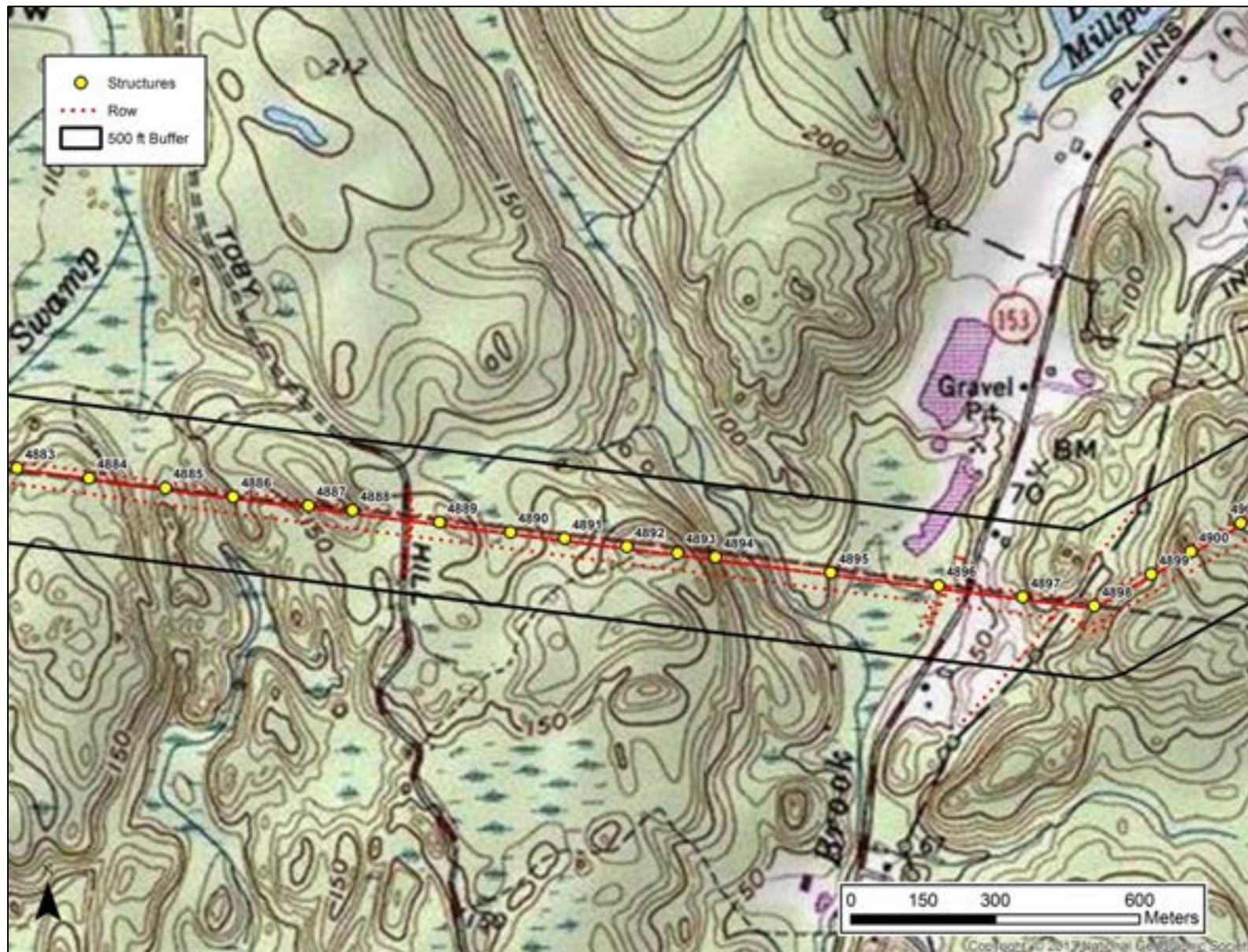
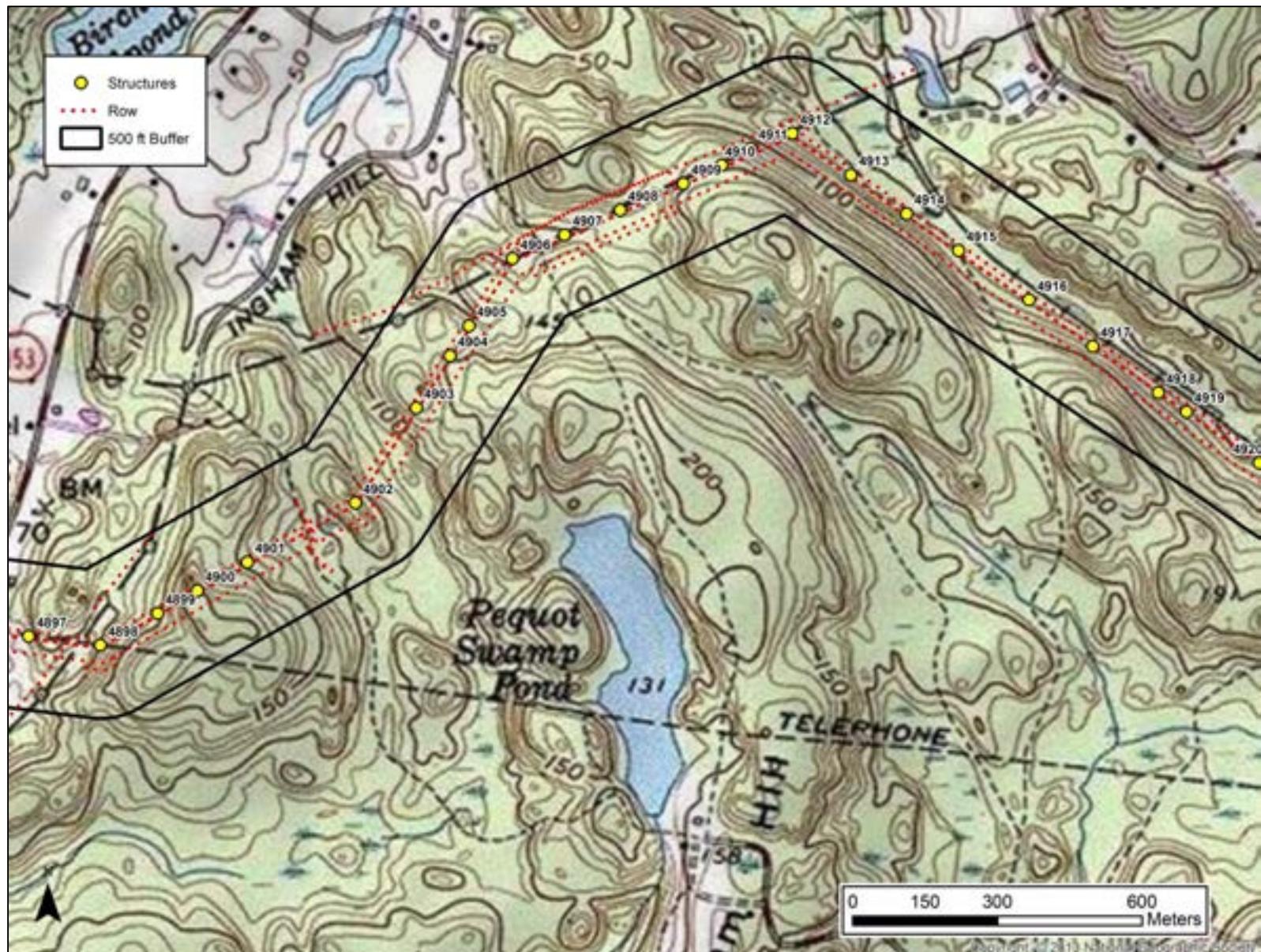


Figure 1, Sheet 5.

Excerpt from a USGS 7.5' series topographic quadrangle image showing the locations of structures along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.





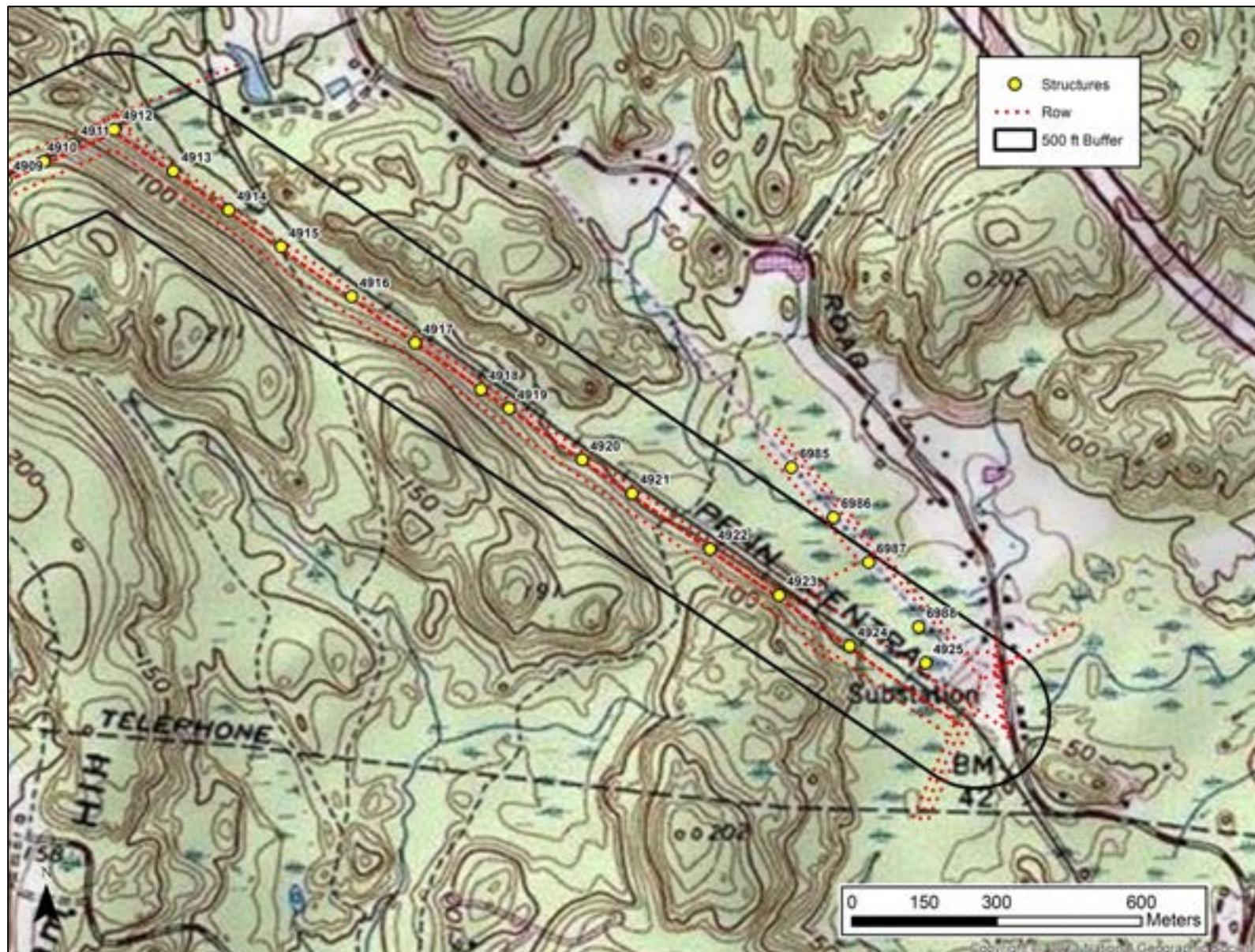


Figure 1, Sheet 8.

Excerpt from a USGS 7.5' series topographic quadrangle image showing the locations of structures along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

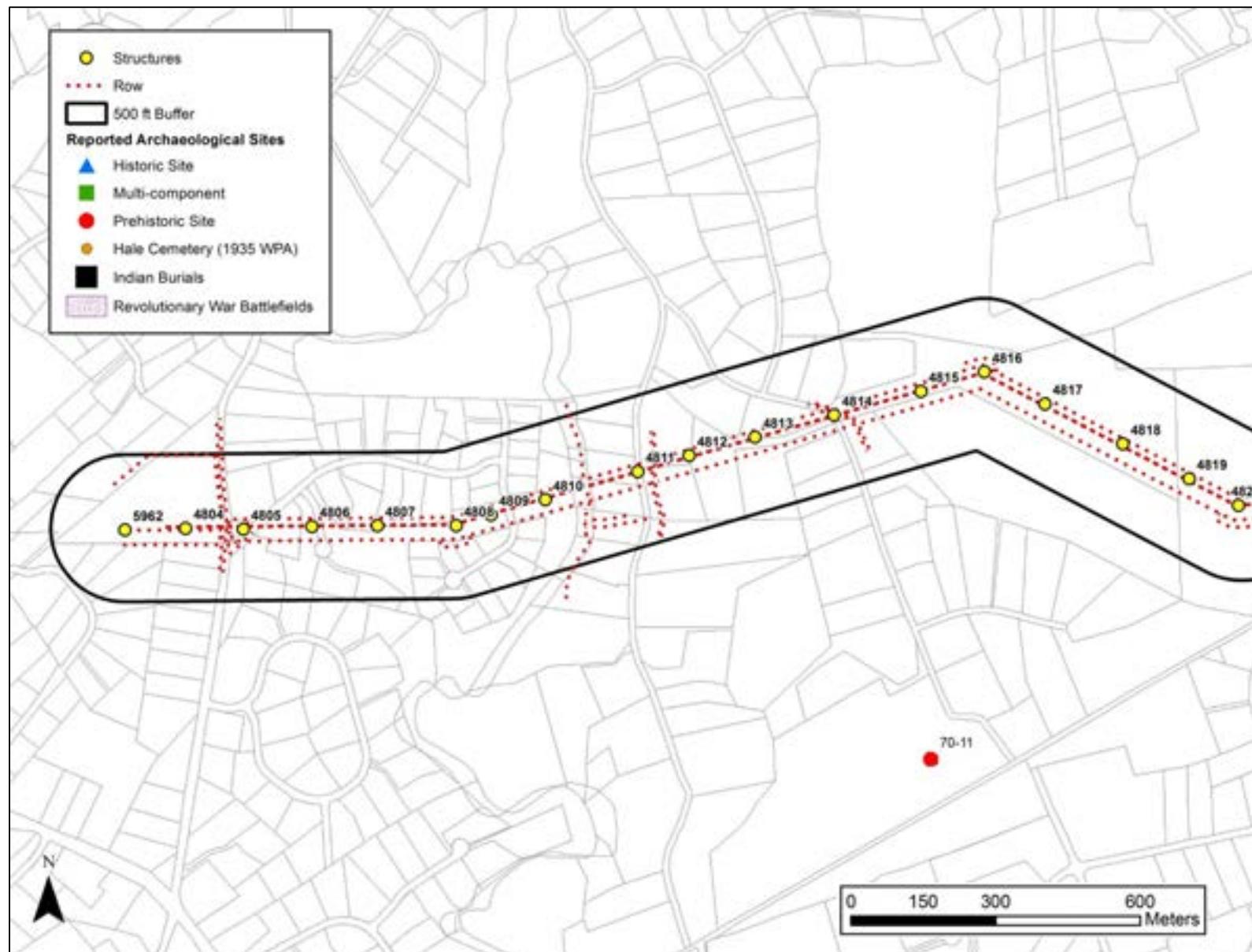


Figure 2, Sheet 1. Digital map showing the location of previously identified archaeological sites along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

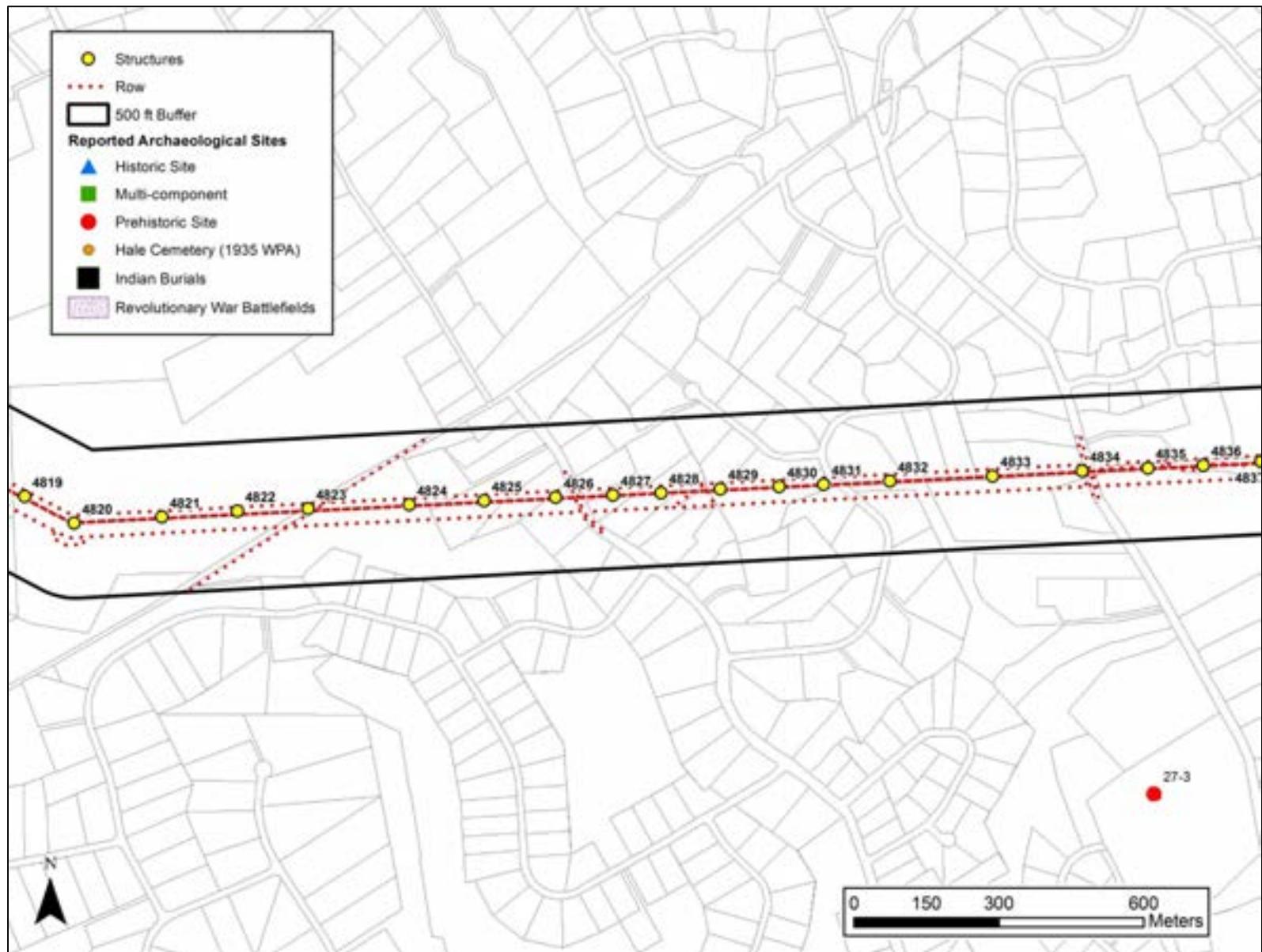


Figure 2, Sheet 2. Digital map showing the location of previously identified archaeological sites along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

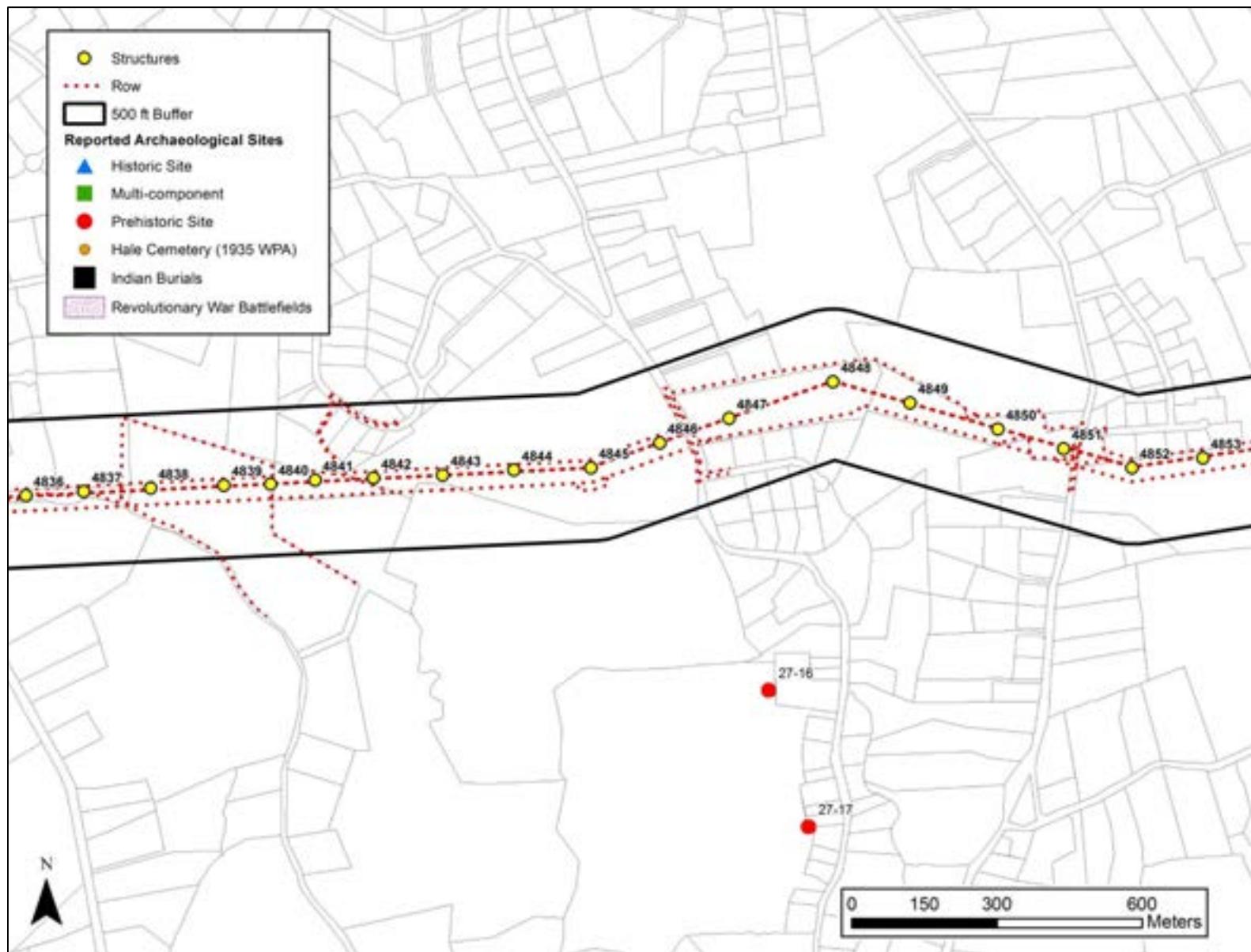


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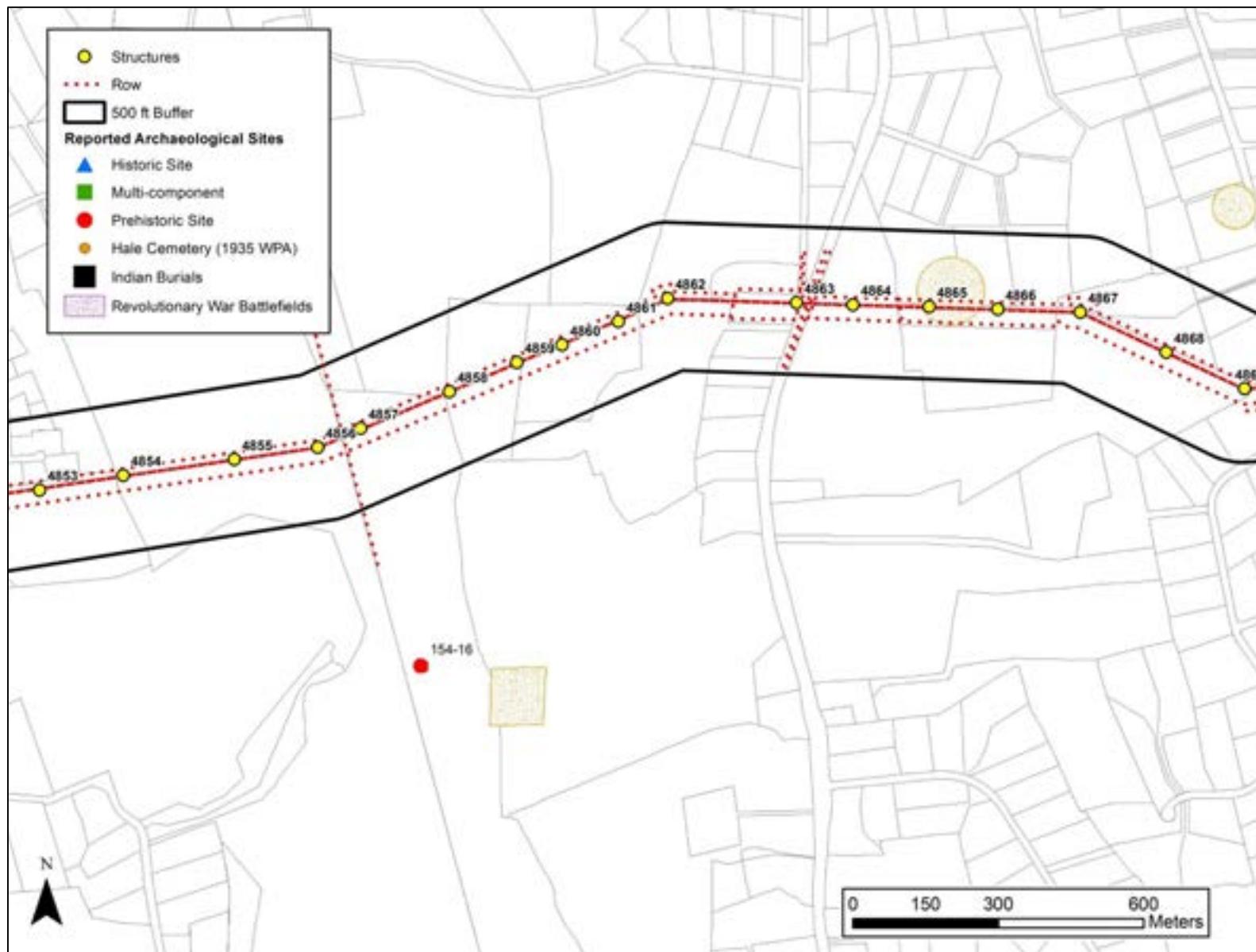


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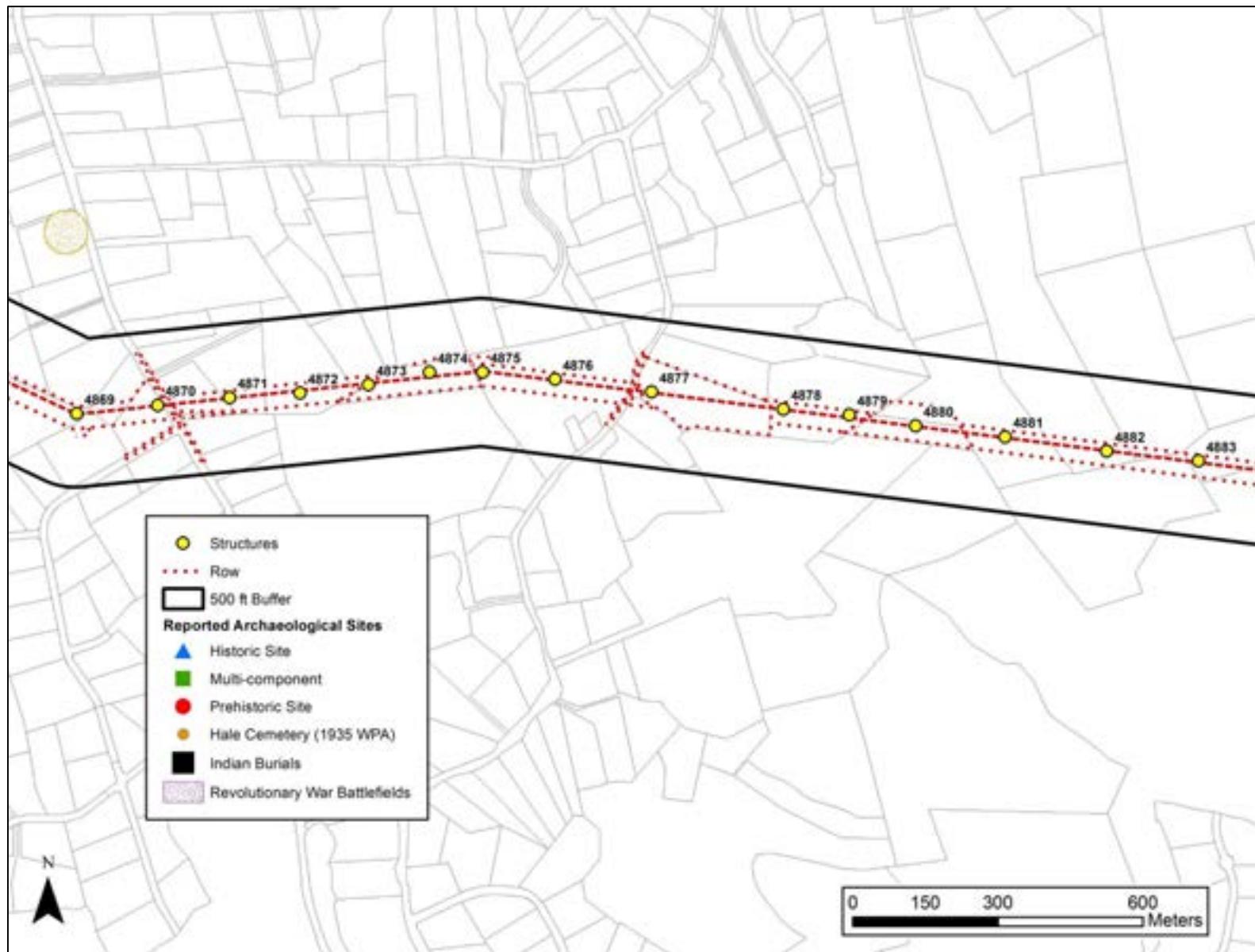


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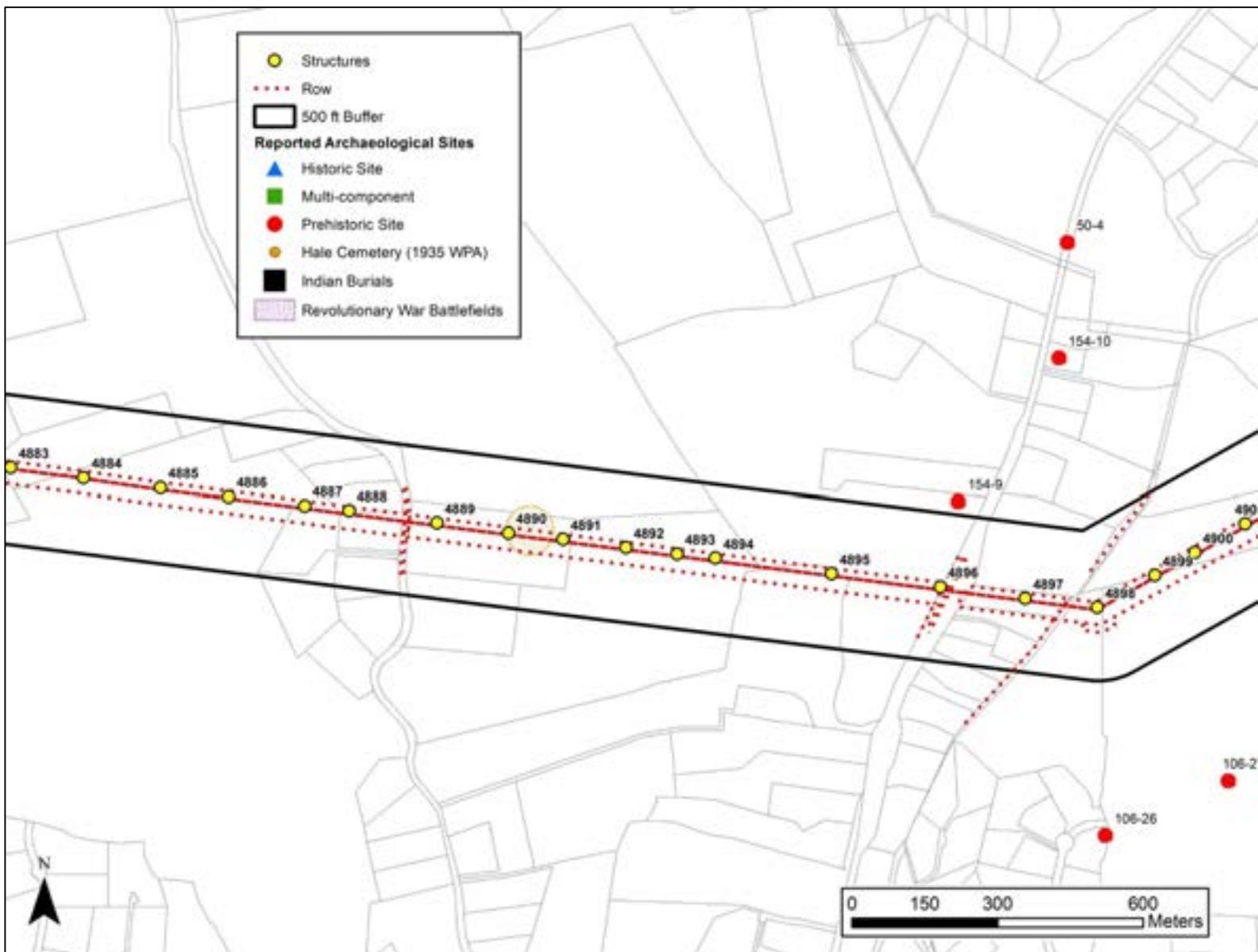


Figure 2, Sheet 6.

Digital map showing the location of previously identified archaeological sites along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

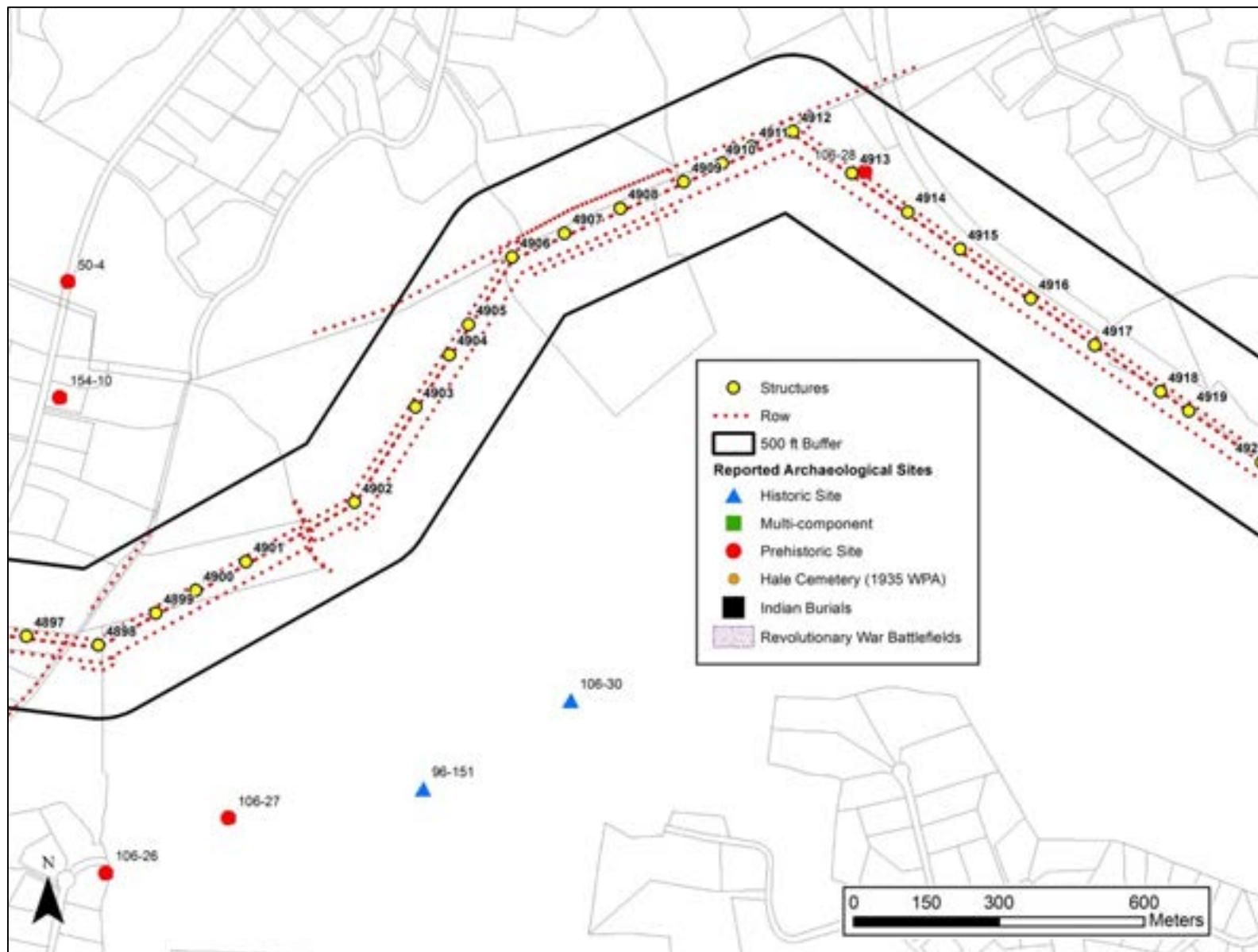


Figure 2, Sheet 7.

Digital map showing the location of previously identified archaeological sites along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

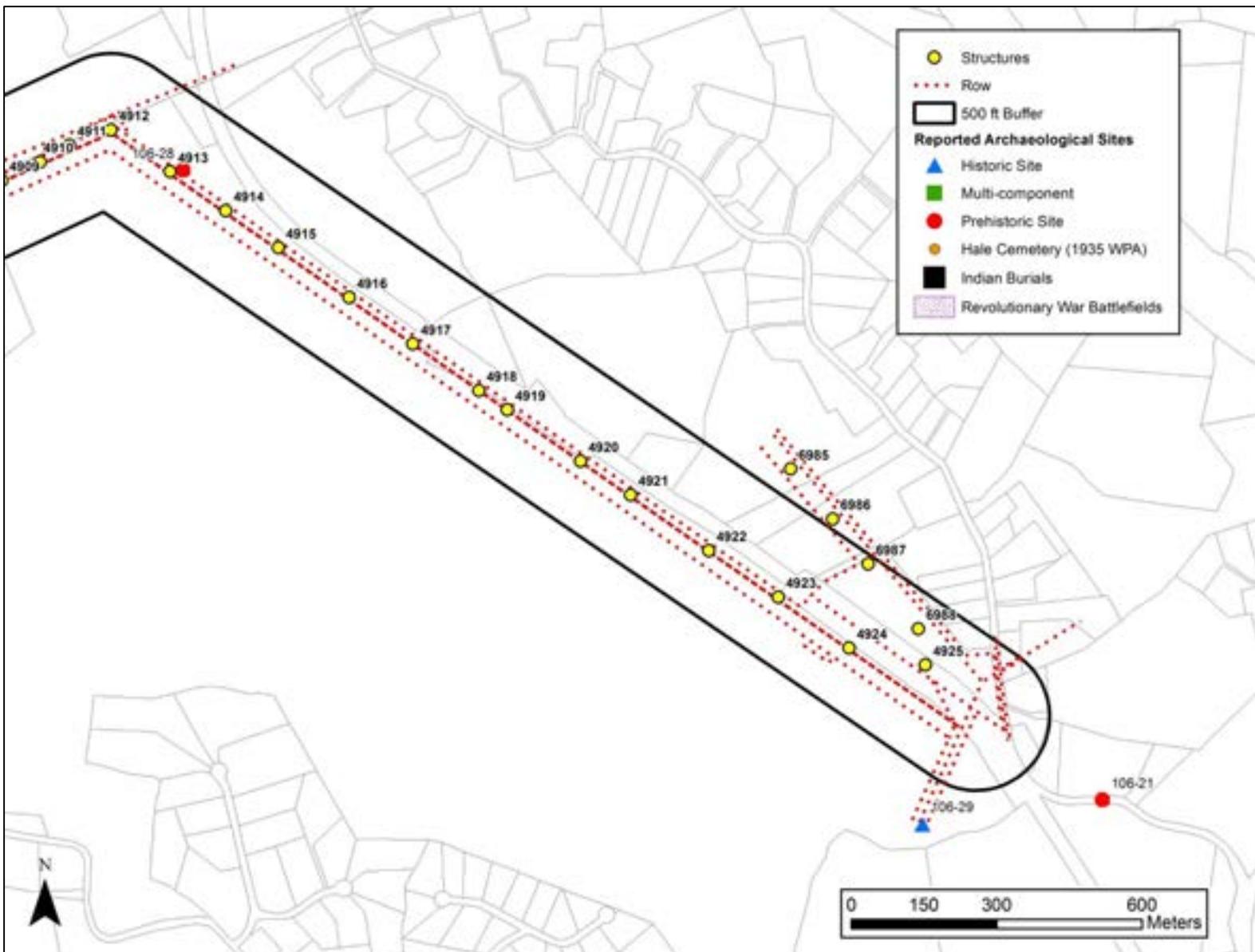


Figure 2, Sheet 8.

Digital map showing the location of previously identified archaeological sites along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

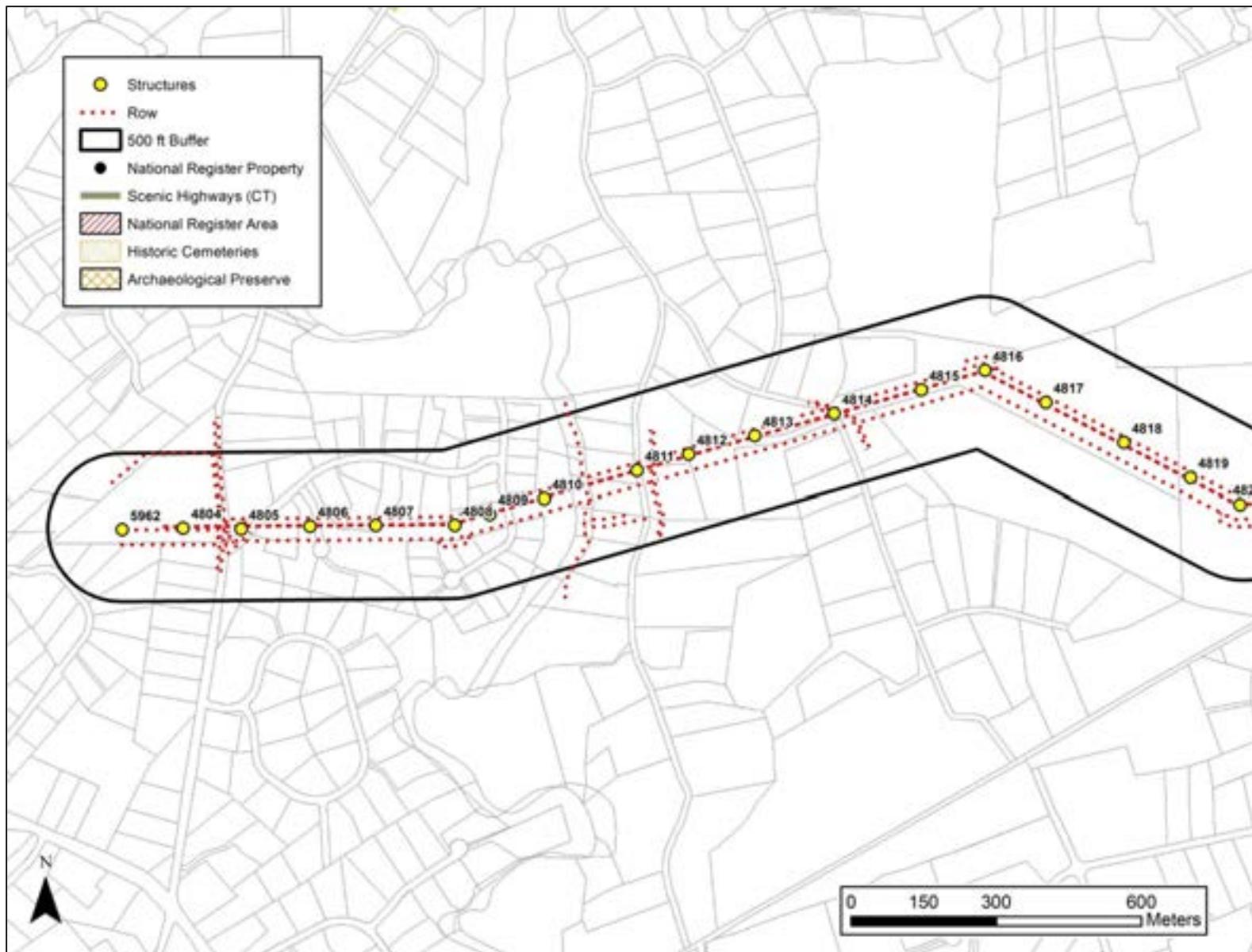


Figure 3, Sheet 1. Digital map depicting the locations of previously identified National Register of Historic Places properties along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

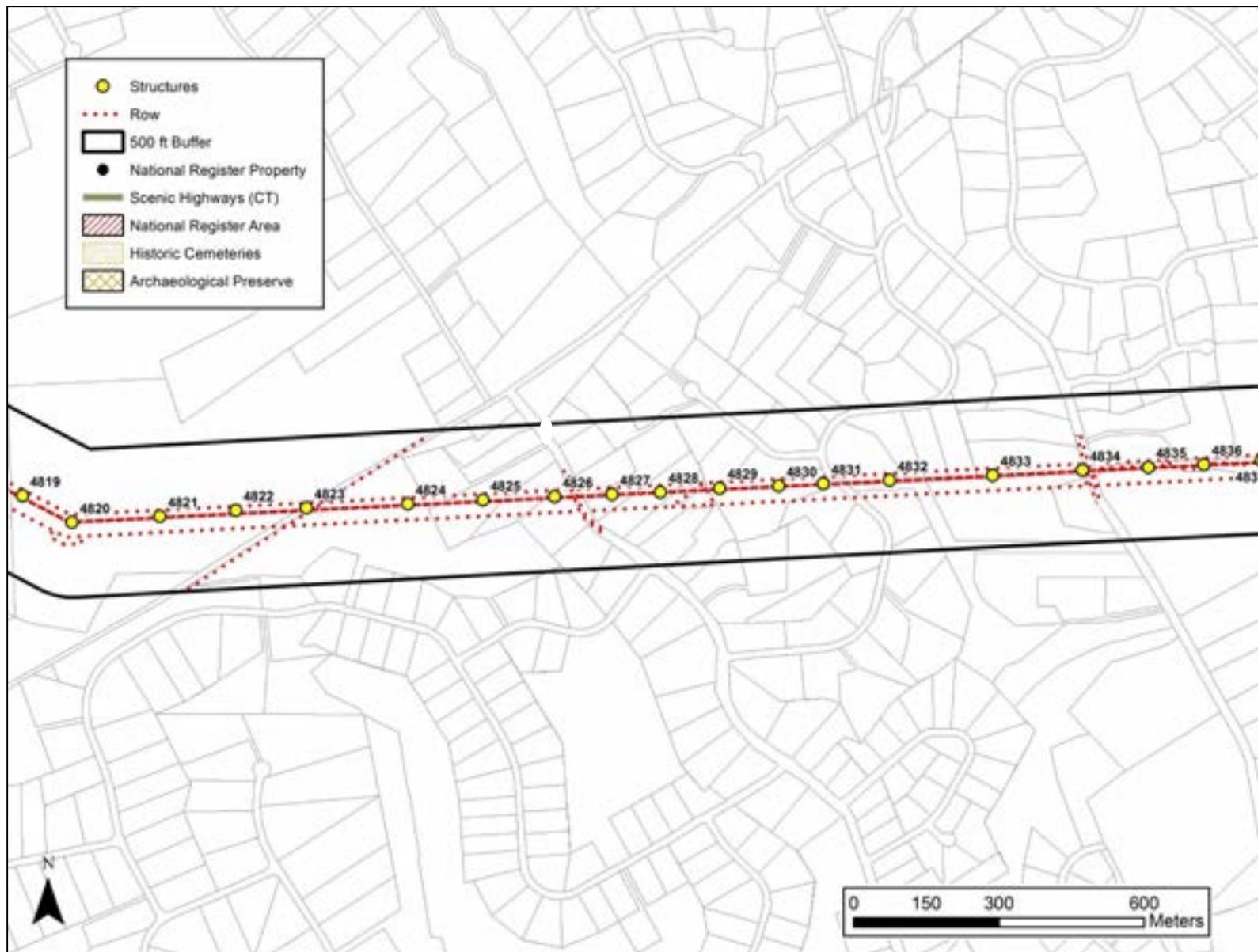


Figure 3, Sheet 2. Digital map depicting the locations of previously identified National Register of Historic Places properties along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

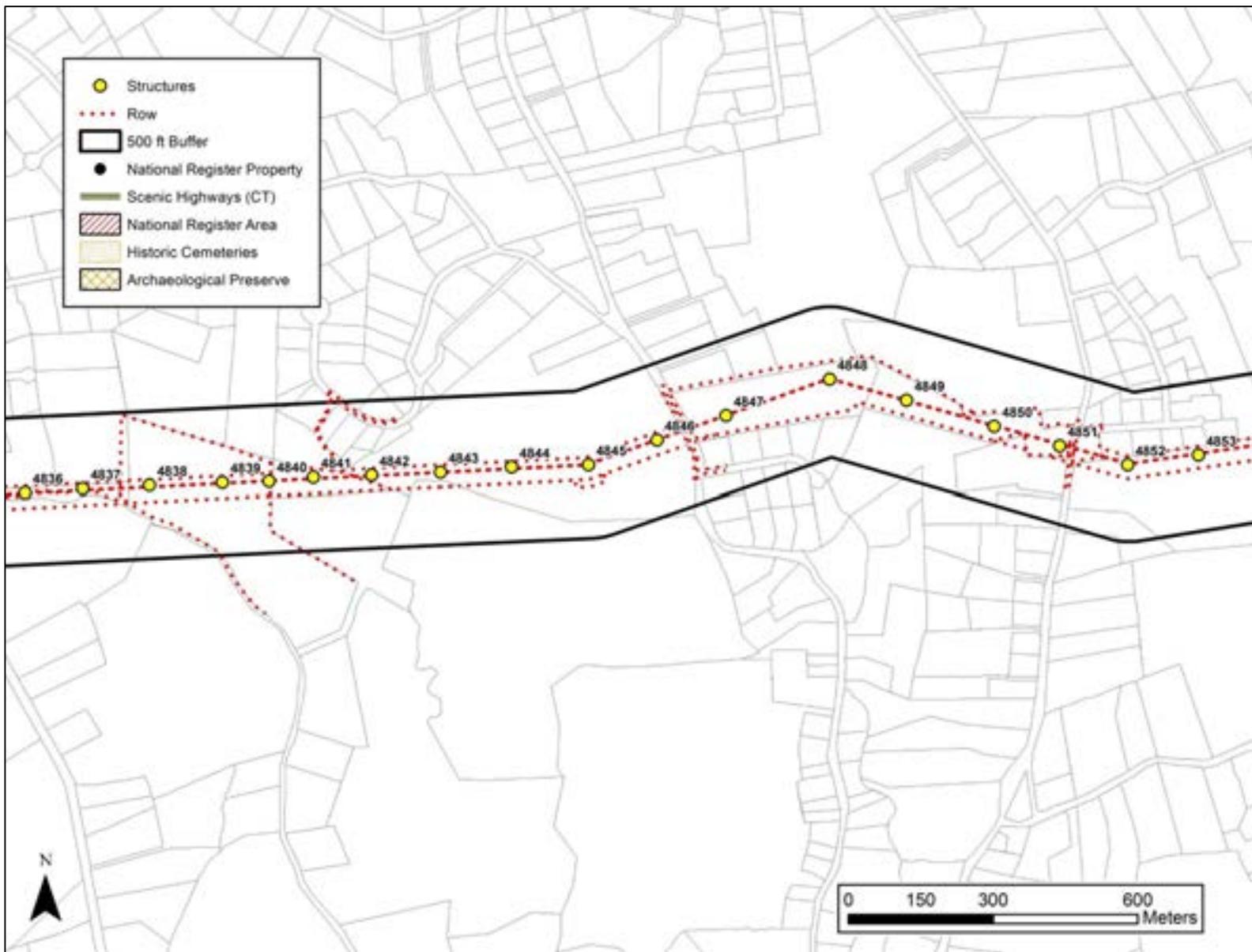


Figure 3, Sheet 3.

Digital map depicting the locations of previously identified National Register of Historic Places properties along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

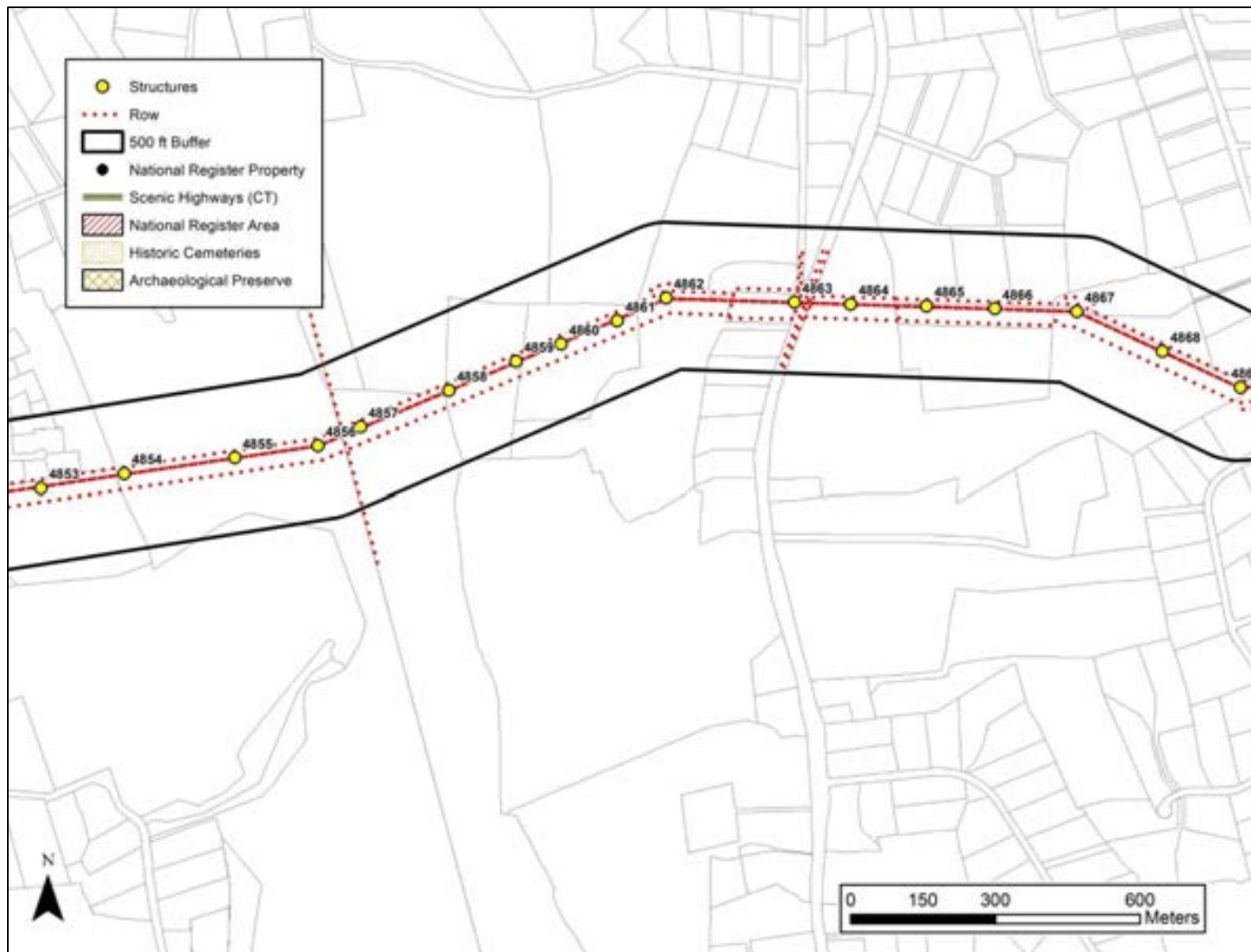


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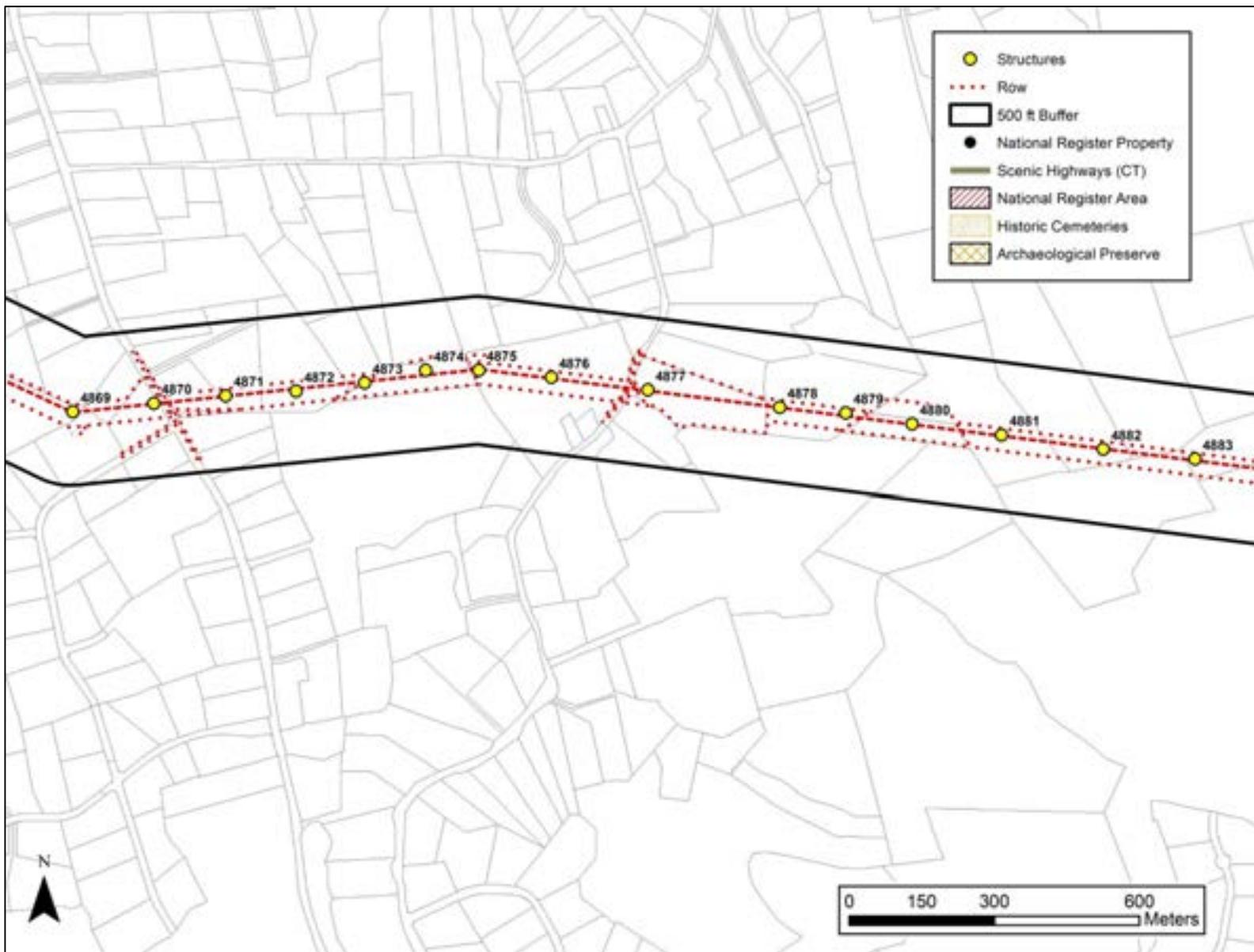


Figure 3, Sheet 5.

Digital map depicting the locations of previously identified National Register of Historic Places properties along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

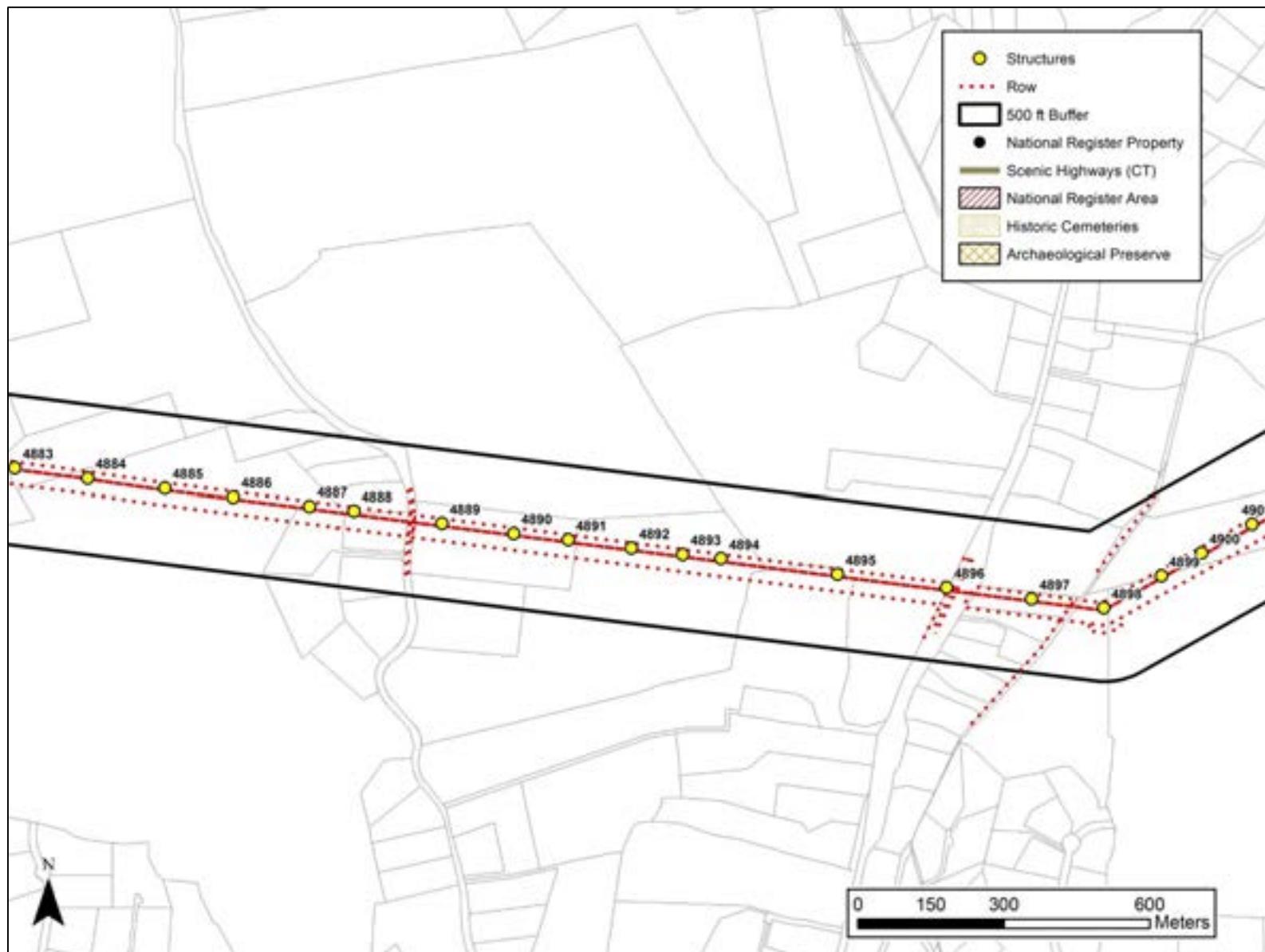


Figure 3, Sheet 6.

Digital map depicting the locations of previously identified National Register of Historic Places properties along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

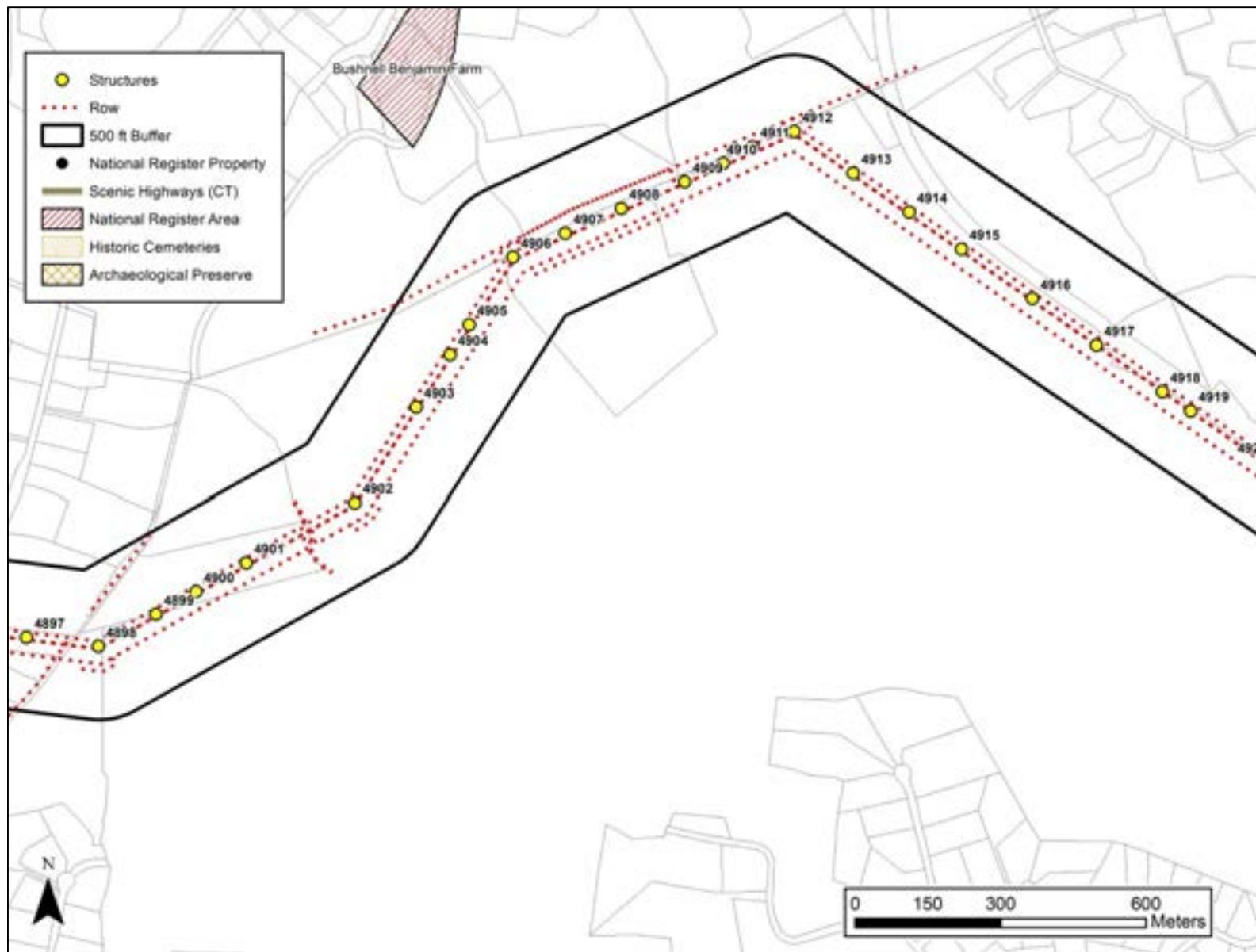


Figure 3, Sheet 7.

Digital map depicting the locations of previously identified National Register of Historic Places properties along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

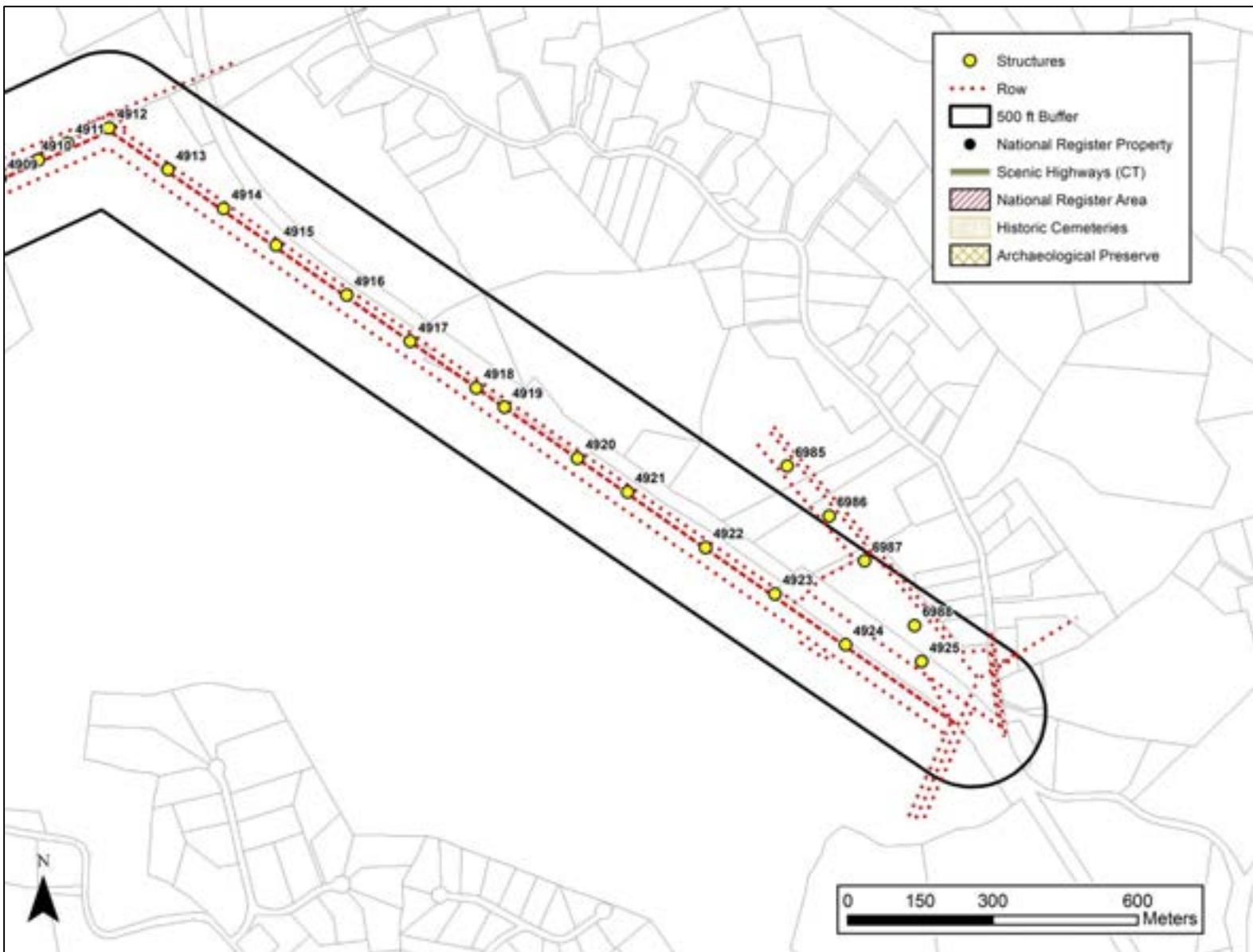


Figure 3, Sheet 8.

Digital map depicting the locations of previously identified National Register of Historic Places properties along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

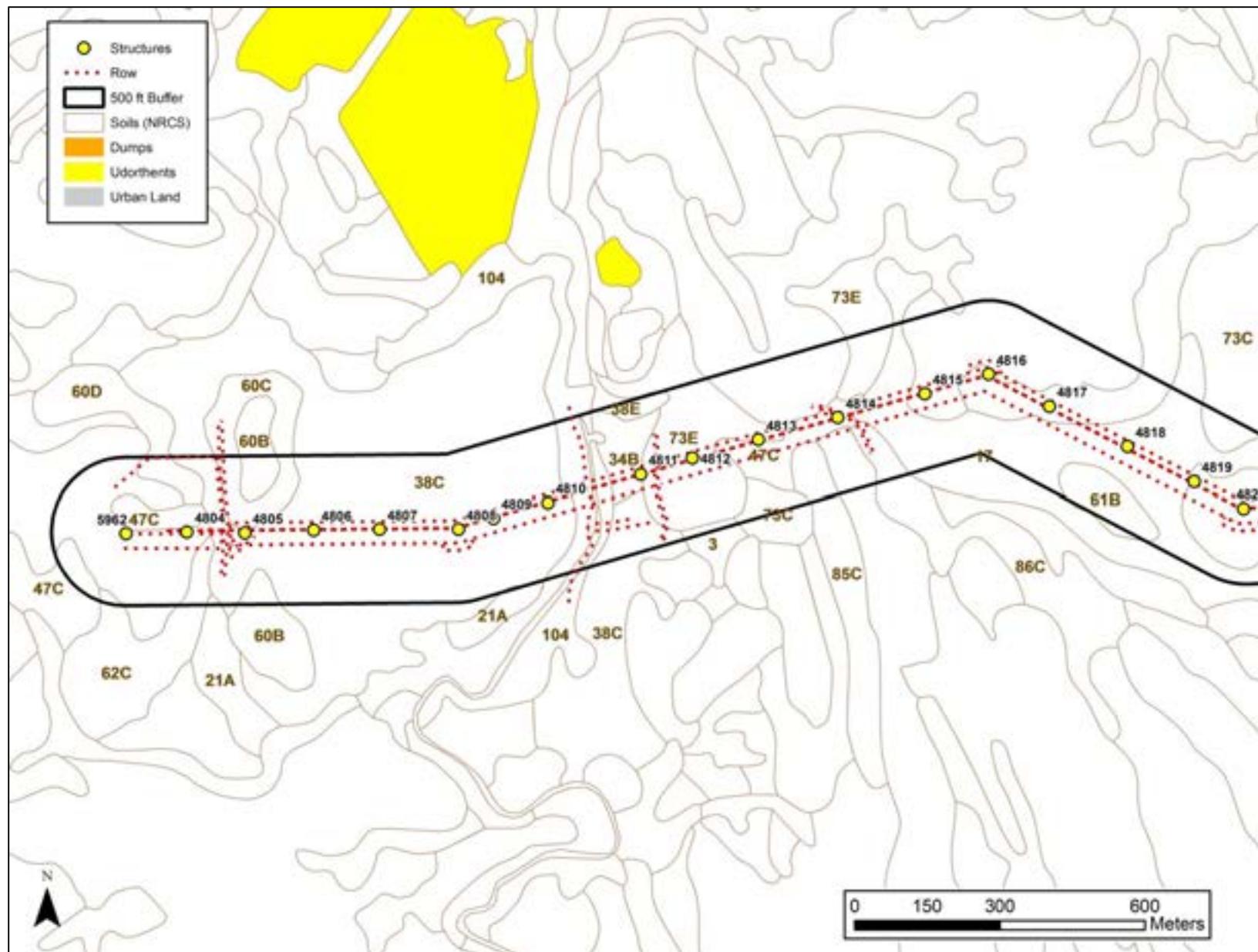


Figure 4, Sheet 1.

Digital map depicting soil types along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

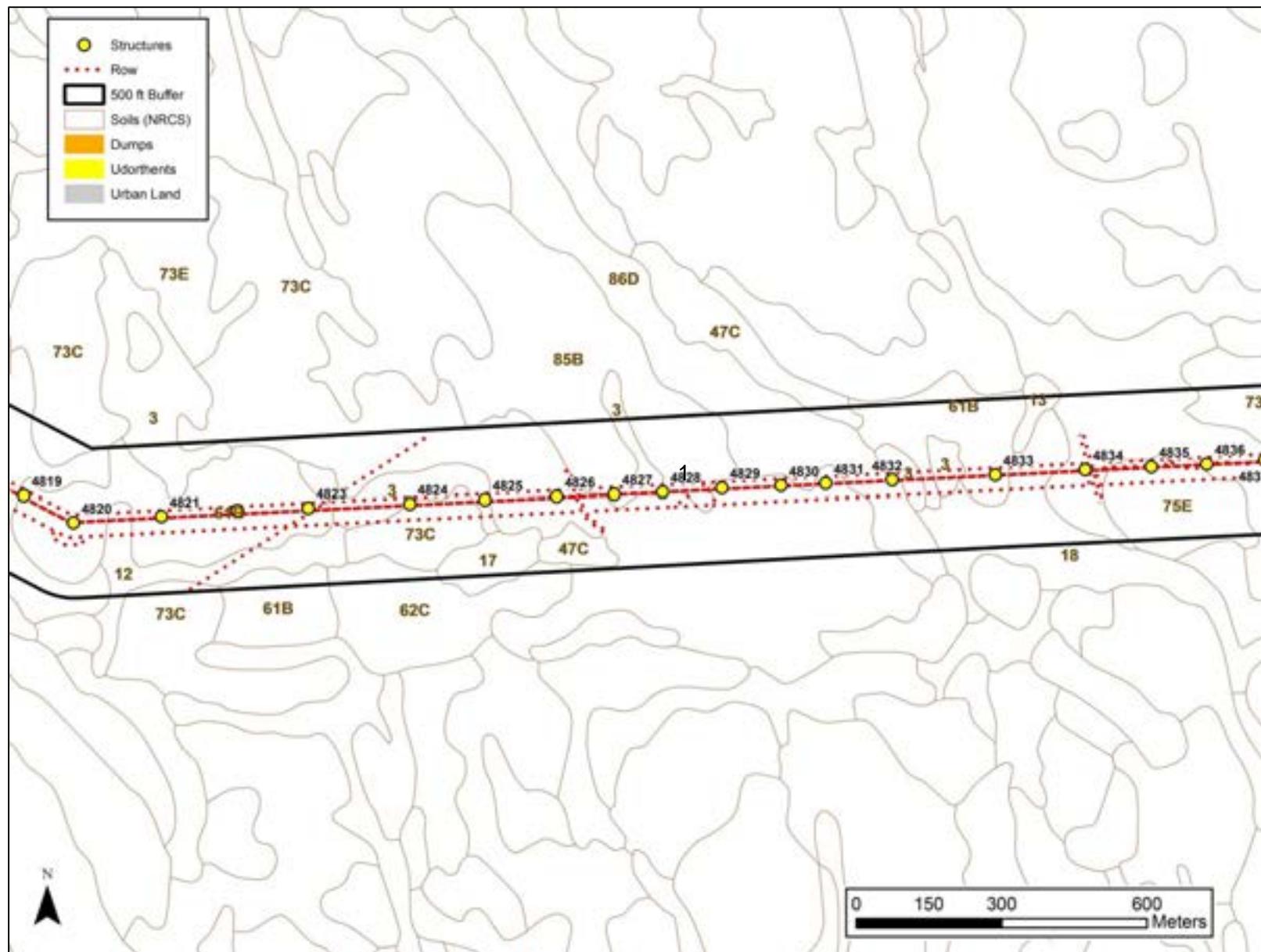


Figure 4, Sheet 2. Digital map depicting soil types along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

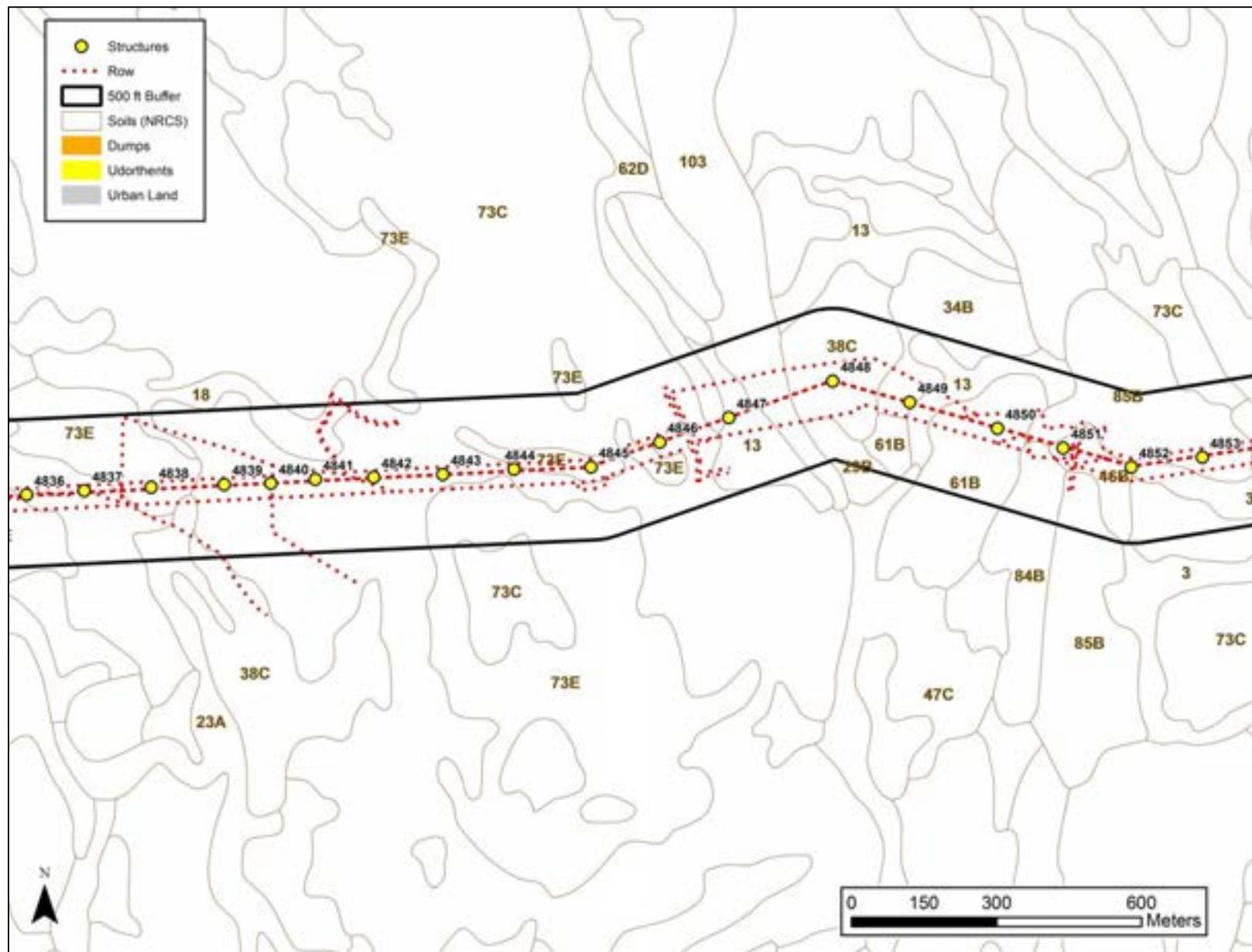


Figure 4, Sheet 3. Digital map depicting soil types along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

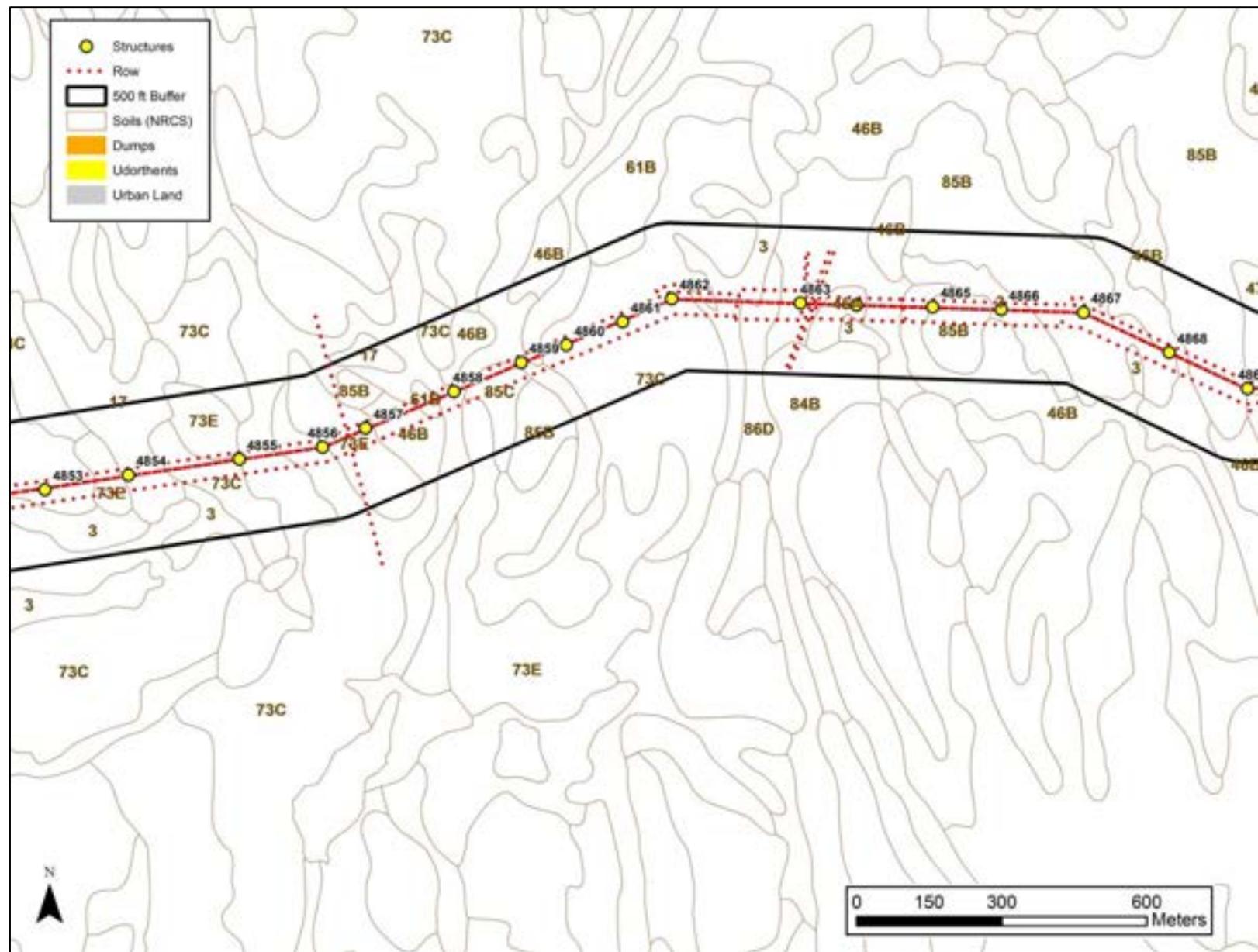


Figure 4, Sheet 4. Digital map depicting soil types along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

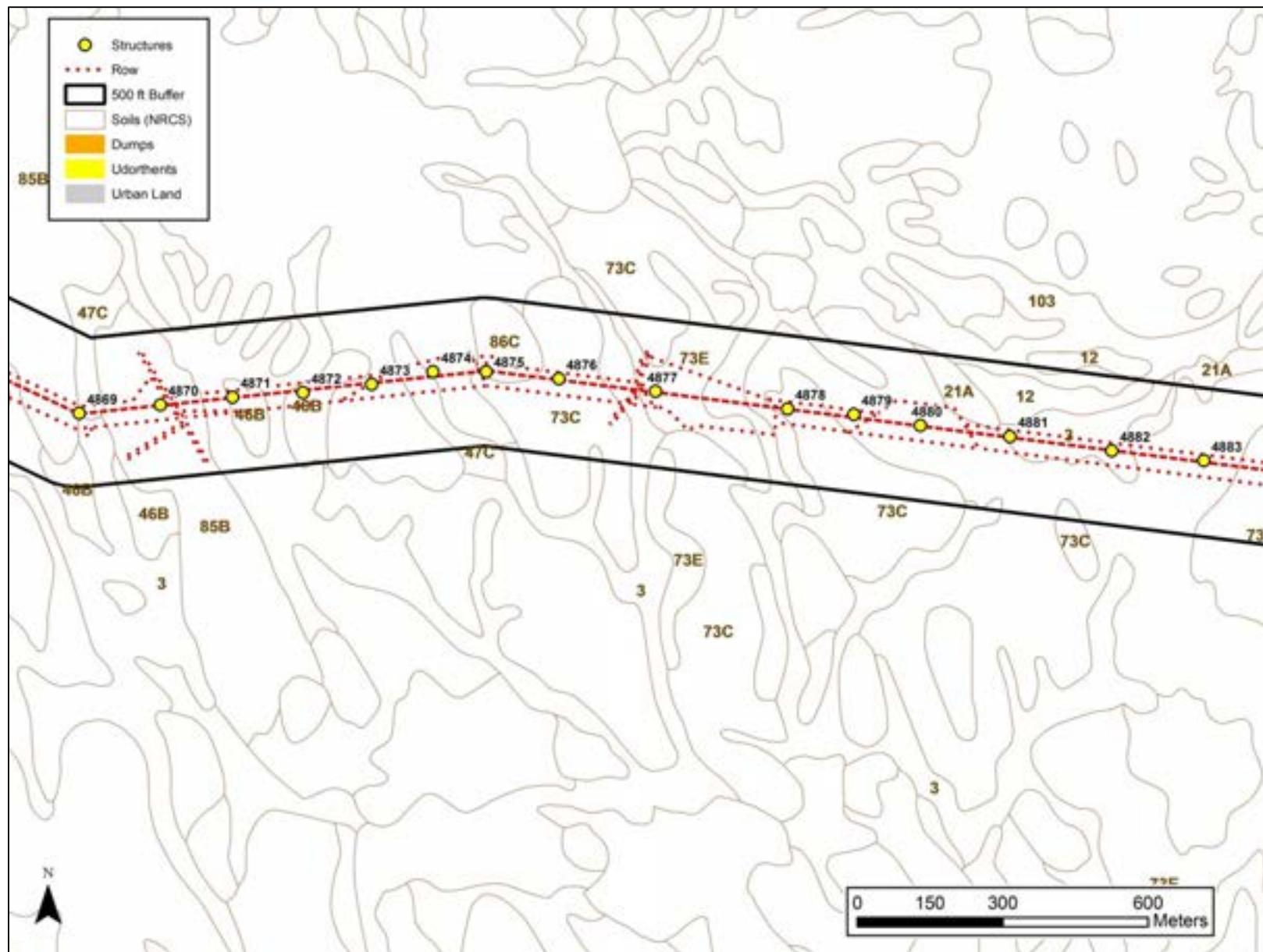


Figure 4, Sheet 5.

Digital map depicting soil types along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

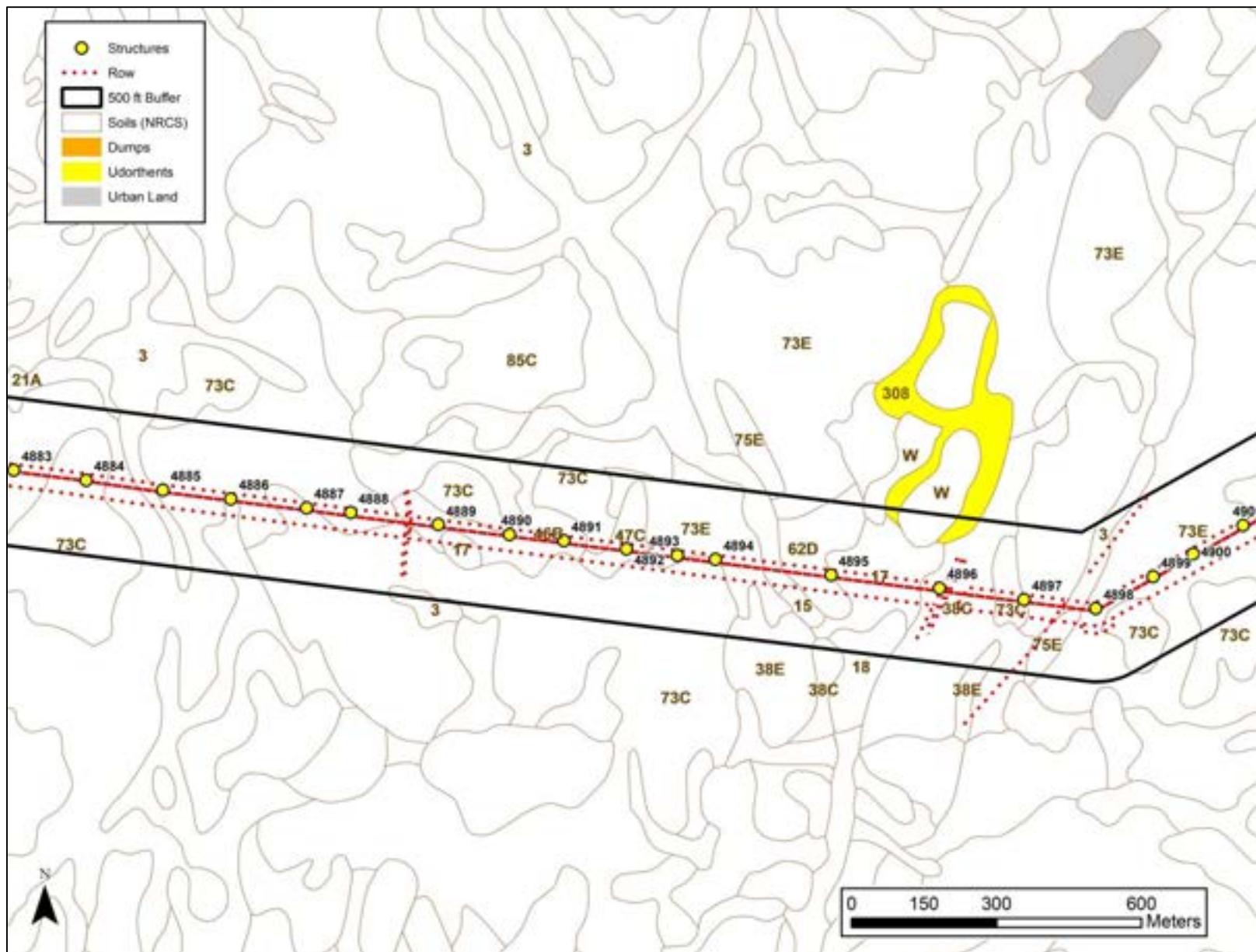


Figure 4, Sheet 6. Digital map depicting soil types along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

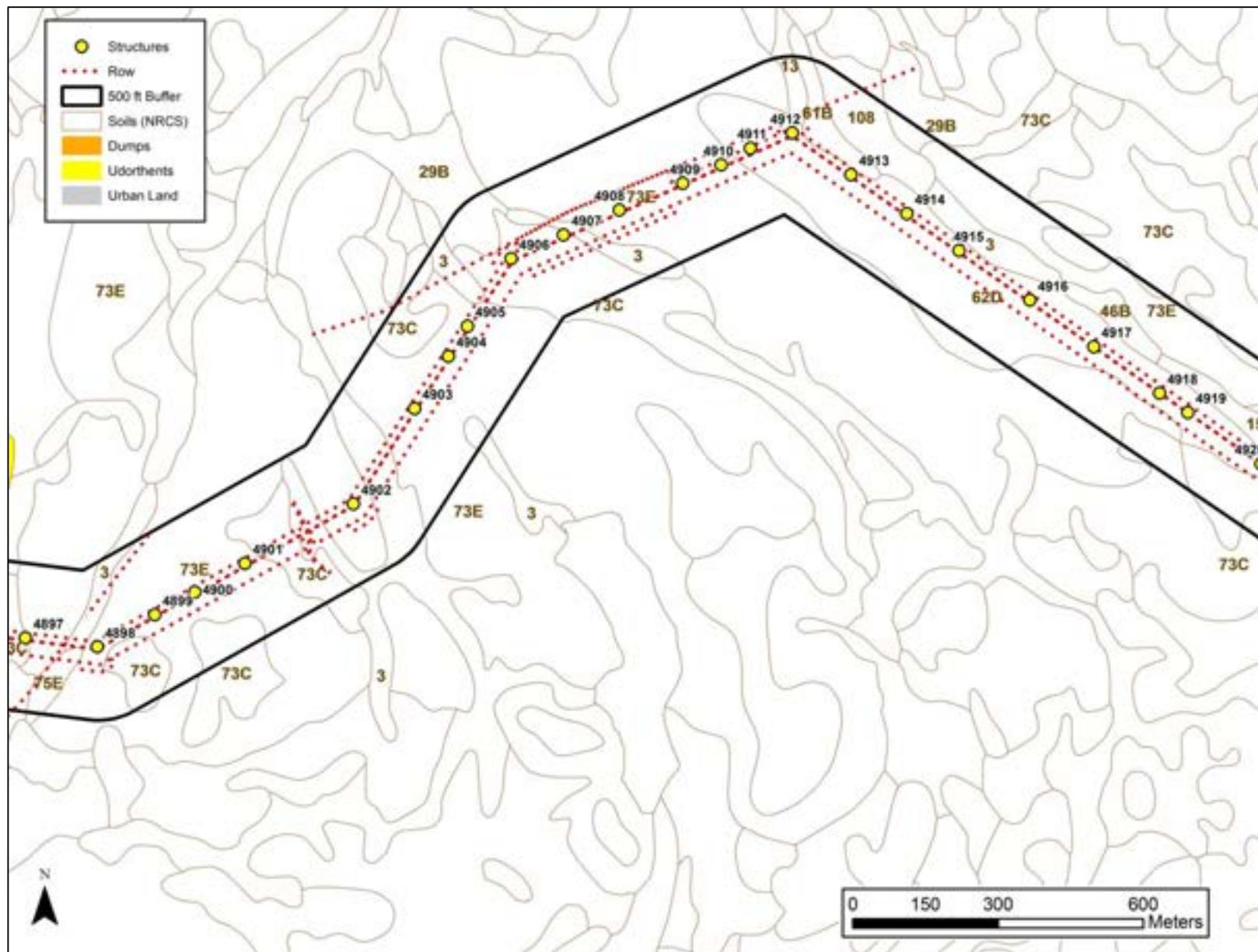


Figure 4, Sheet 7. Digital map depicting soil types along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

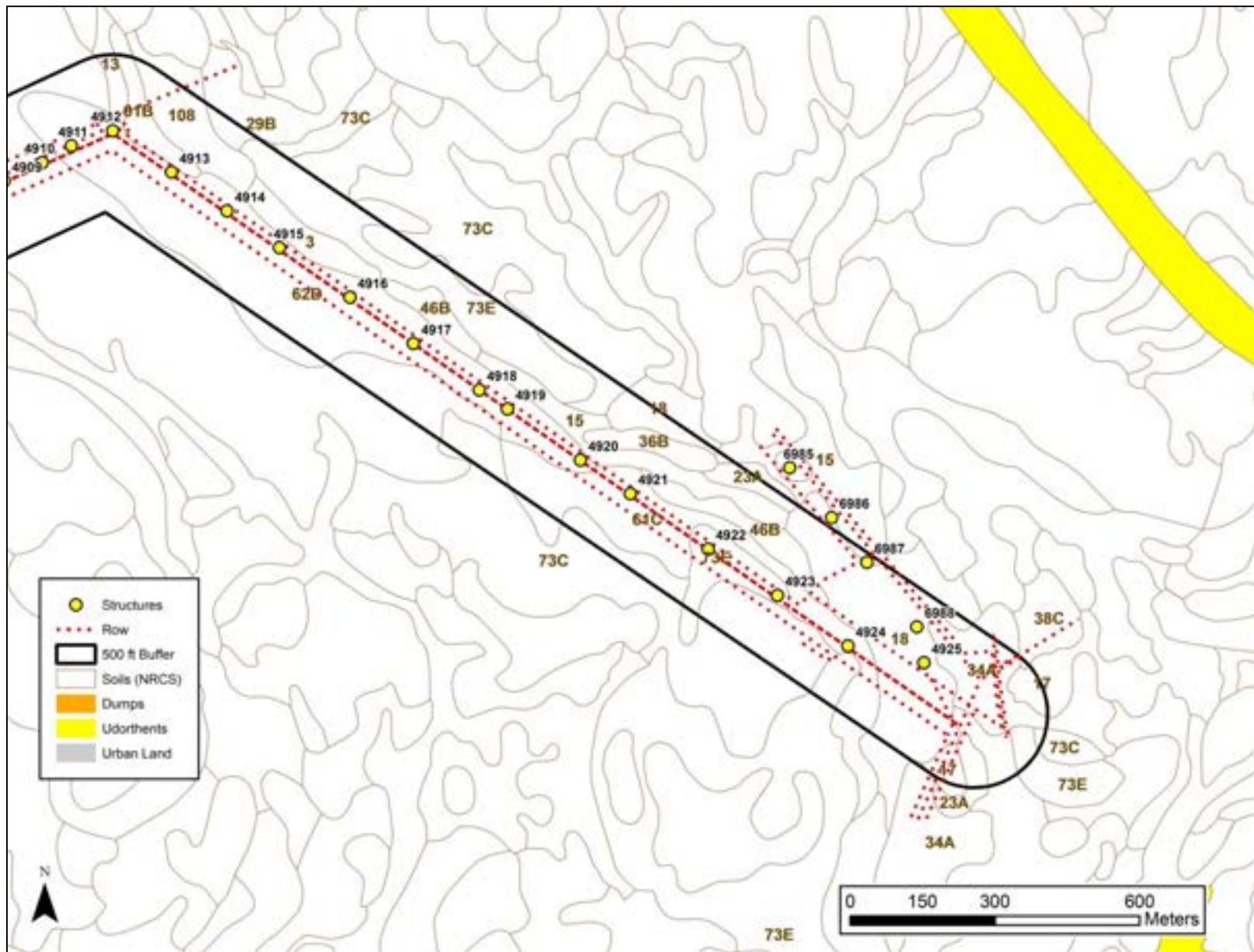


Figure 4, Sheet 8.

Digital map depicting soil types along the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

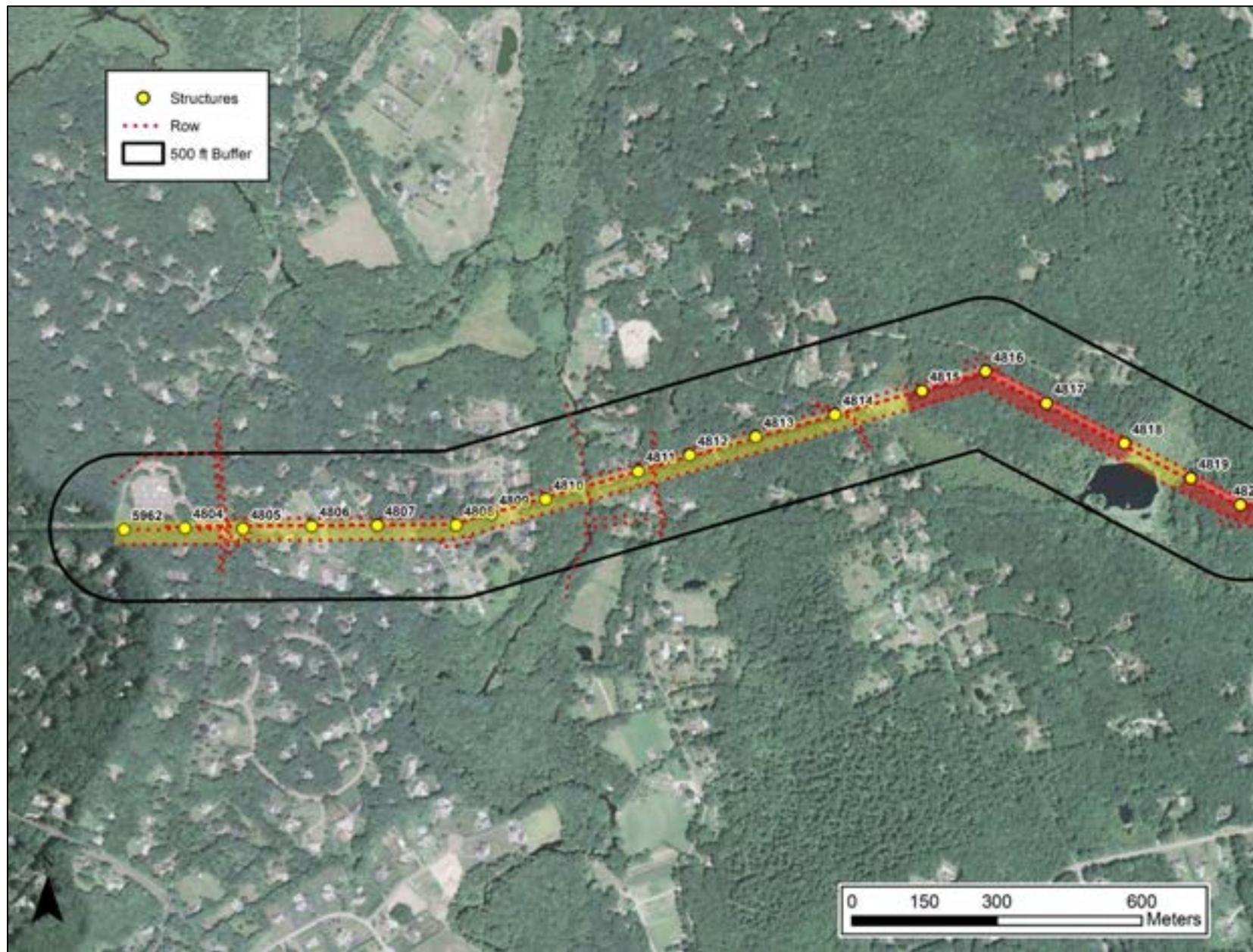


Figure 5, Sheet 1. Excerpt from a 2014 aerial image depicting the area containing the proposed project items associated with the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

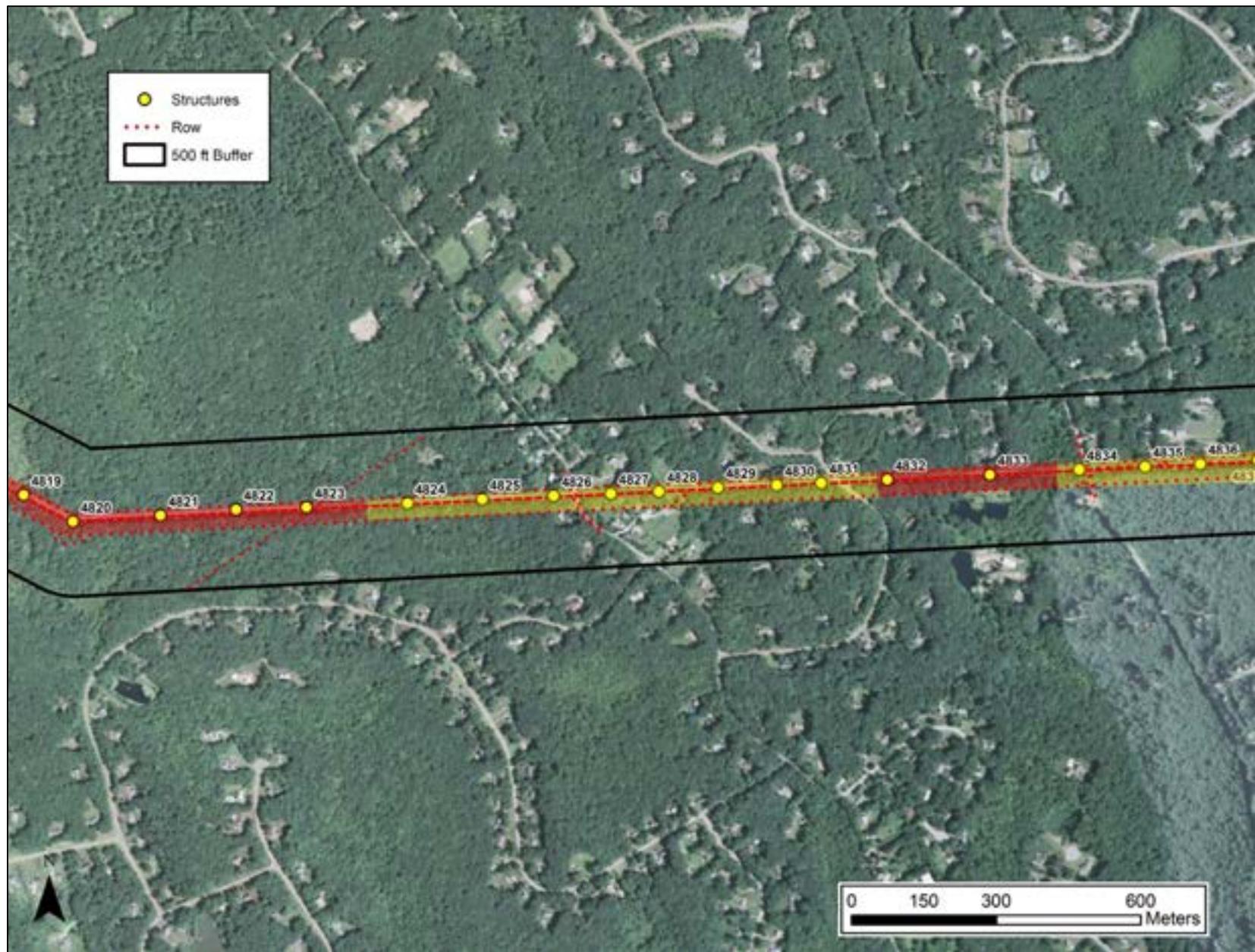


Figure 5, Sheet 2. Excerpt from a 2014 aerial image depicting the area containing the areas containing the structures where emergency maintenance work will take place along Line 1620/1975 in Haddam, Connecticut and archaeological sensitivity areas (yellow = no/low sensitivity; red = moderate/high sensitivity).

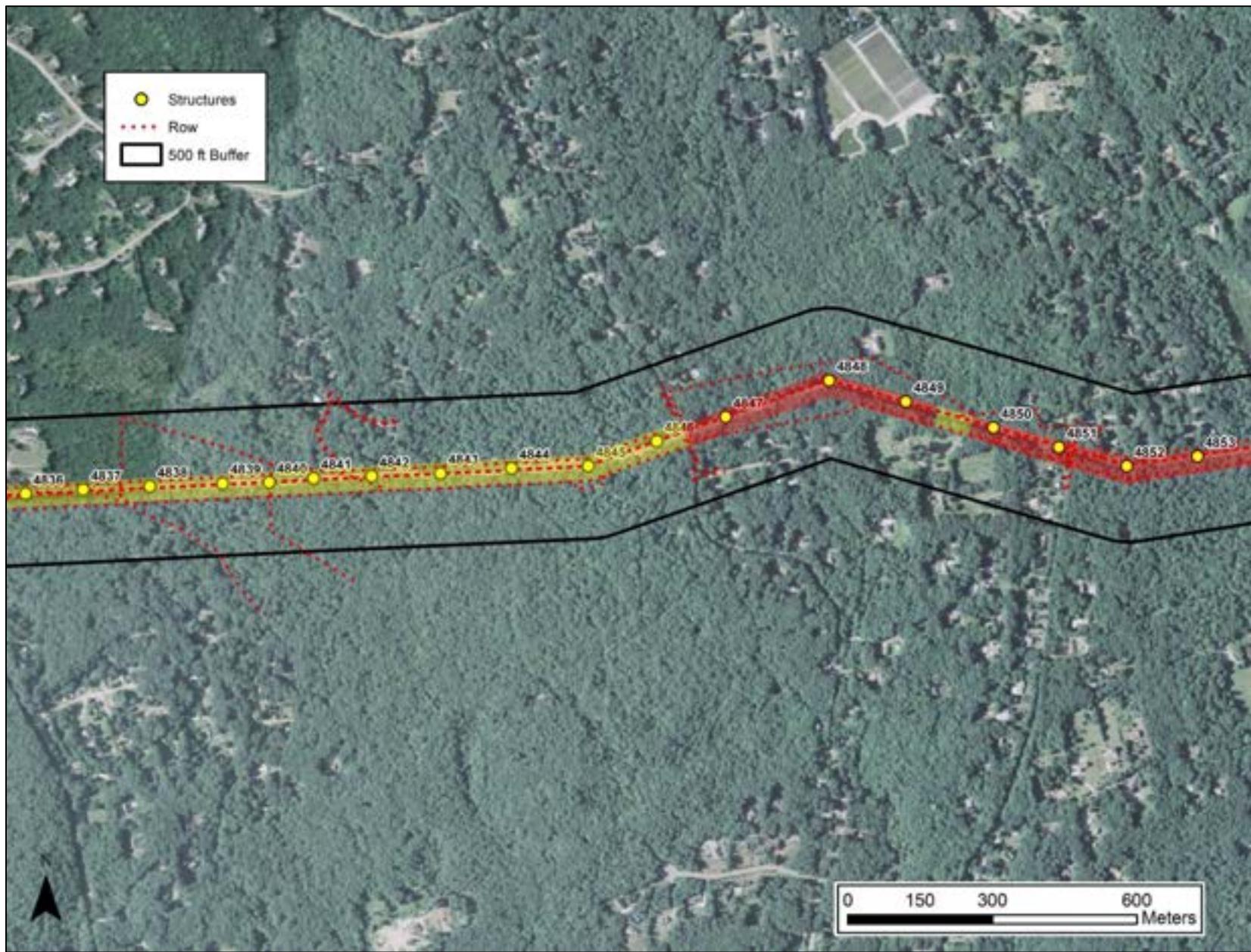


Figure 5, Sheet 3.

Excerpt from a 2014 aerial image depicting the area containing the proposed project items associated with the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

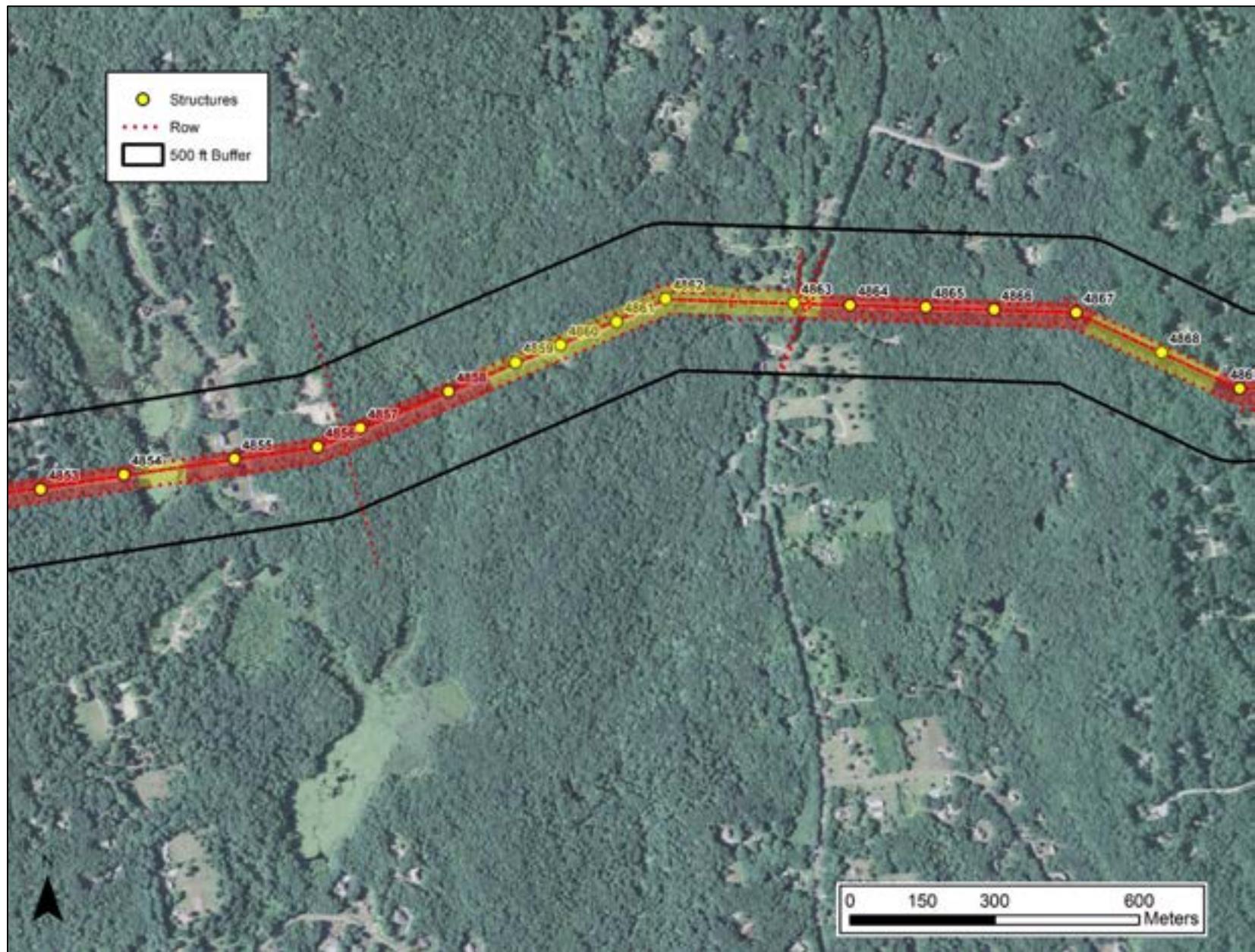


Figure 5, Sheet 4. Excerpt from a 2014 aerial image depicting the area containing the proposed project items associated with the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

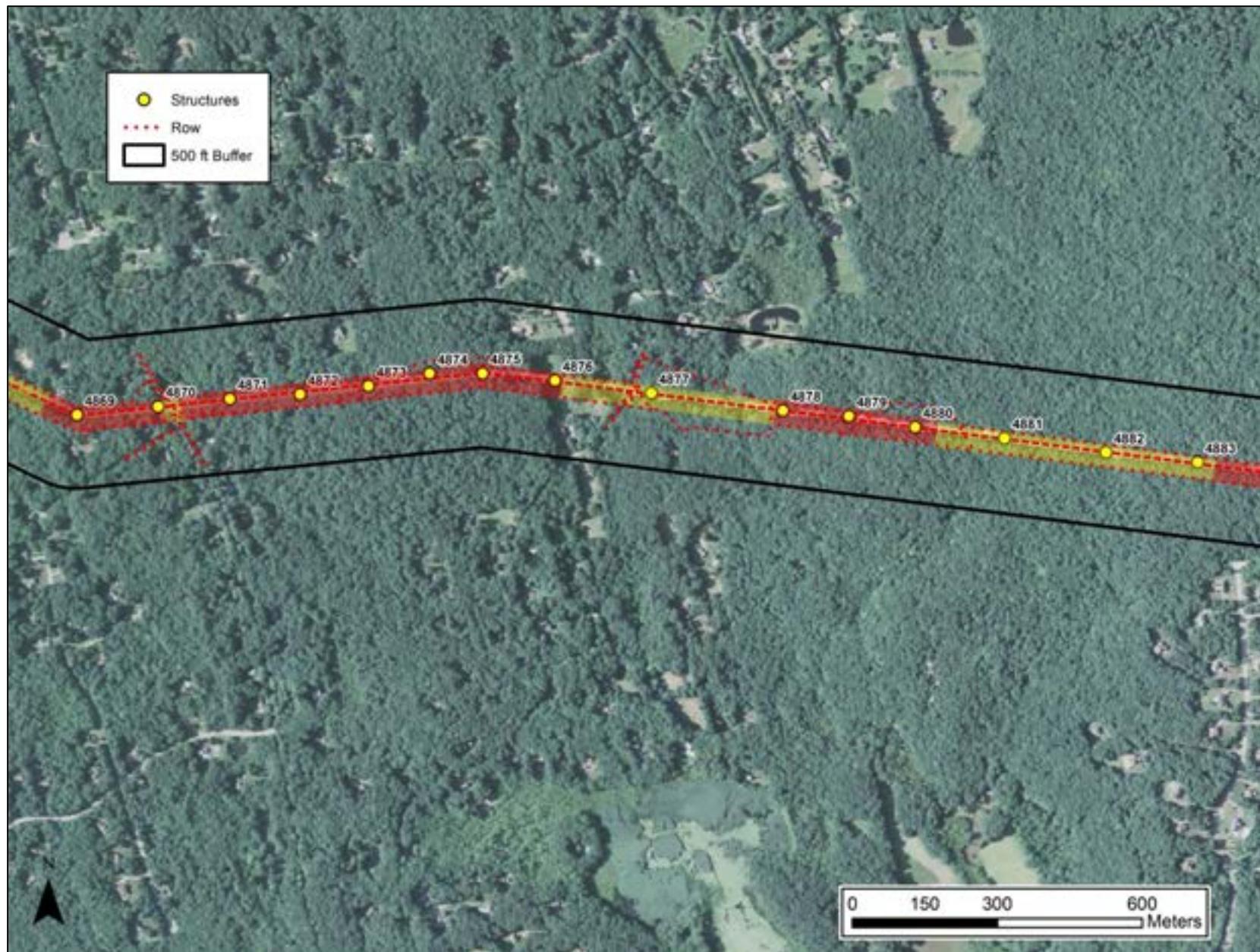


Figure 5, Sheet 5.

Excerpt from a 2014 aerial image depicting the area containing the proposed project items associated with the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

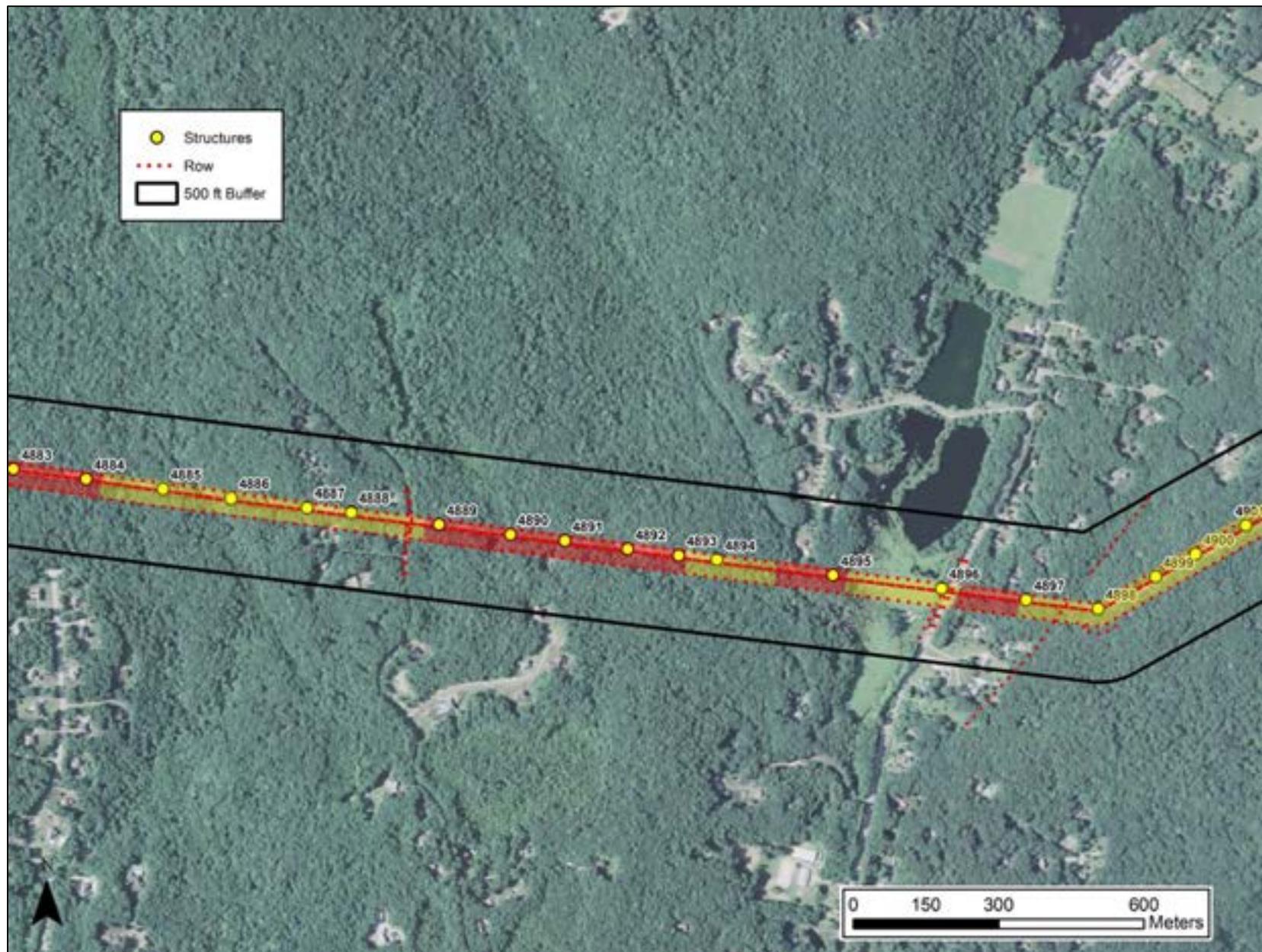


Figure 5, Sheet 6.

Excerpt from a 2014 aerial image depicting the area containing the proposed project items associated with the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

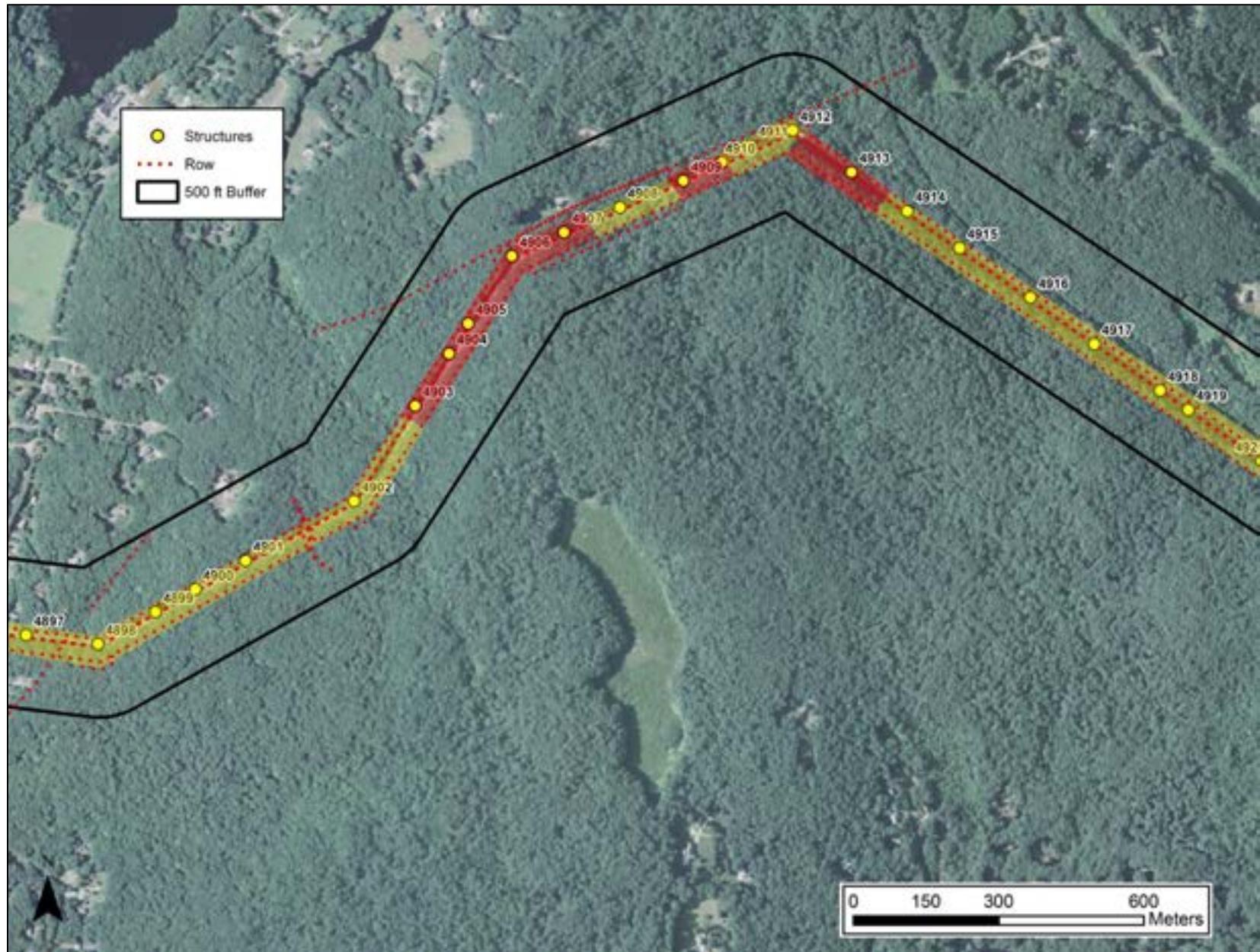


Figure 5, Sheet 7.

Excerpt from a 2014 aerial image depicting the area containing the proposed project items associated with the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

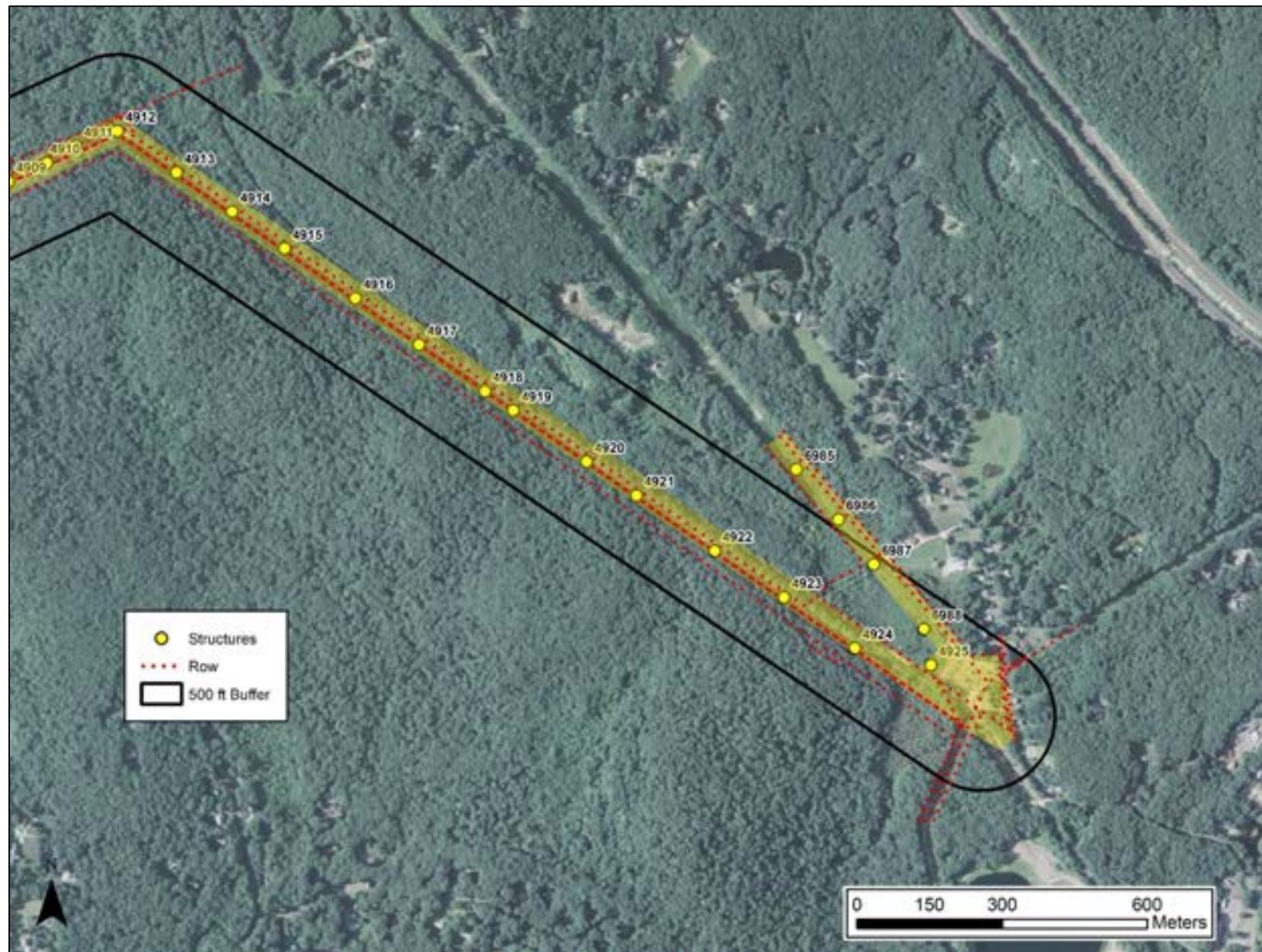


Figure 5, Sheet 8.

Excerpt from a 2014 aerial image depicting the area containing the proposed project items associated with the proposed Bokum to Green Hill Rebuild Project corridor in Old Saybrook, Clinton, Westbrook, and Madison, Connecticut.

ATTACHMENT D



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

Wetland Delineation

March 22, 2018

DE Project No.: 2017-27

Prepared For: Eversource Energy
56 Prospect Street
Hartford, CT 06103
Attn: Mark Pappalardo

Eversource Project Name: Green Hill to Bokum Upgrade Project

Project Location: Madison, Clinton, Westbrook, Essex, & Old Saybrook, Connecticut

Date(s) of Investigations: June & July 2016

Field Conditions: Weather: sunny, 80s to 90s
Soil Moisture: dry to moist

Wetland/Watercourse

Delineation Methodology¹:

- Connecticut Inland Wetlands and Watercourses
- Connecticut Tidal Wetlands
- Massachusetts Wetlands
- U.S. Army Corps of Engineers

The wetlands inspection was performed by²:

Davison Environmental, LLC

Matthew Davison
Professional Soil Scientist
Professional Wetland Scientist

¹Wetlands and watercourses were delineated in accordance with applicable local, state and federal statutes, regulations and guidance.

²Wetlands were delineated by Davison Environmental Professional Soil Scientists Eric and Matthew Davison in June and July 2016. All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

Attachments

- Table 1: Delineated Wetlands and Watercourses within the Green Hill to Bokum Upgrade Project Area
- Wetland Delineation Field Forms

Table 1: Delineated Wetlands and Watercourses within the Green Hill to Bokum Upgrade Project Area

Aerial Map Sheet No.	Wetland No. ¹	Dominant NWI Class ²	Other NWI Classes	Dominant Water Regime	Associated Watercourse ³	Associated Vernal Pool ⁴
2	W1	PSS	PFO	Temporarily Flooded	S1 (Hammonasset River)	---
2	W2	PSS	---	Permanently Saturated	S2 (Unnamed Perennial), S3 (Intermittent)	---
2	W3	POW	PEM	Permanently Flooded	---	---
3	W4	PEM	PSS	Seasonally Saturated-seepage	S4 (Intermittent)	---
3	W5	POW	PEM	Permanently Flooded	---	---
3	W6	PSS	PFO	Seasonally Flooded	---	---
4	W7	PSS	PFO	Seasonally Flooded	S5 (Intermittent)	VP 1, 2
4	W8	PFO	PSS	Seasonally Flooded	---	VP 3
4	W9	PFO	PSS	Seasonally Flooded	---	VP 4
4	W10	PFO	---	Seasonally Flooded		VP 5
5	W11	PFO	PSS	Seasonally Flooded	S6, S7, S8 (Unnamed Perennials)	---
5	W12	PFO	PSS	Permanently Saturated	---	VP 6
5	W13	PFO	---	Seasonally Saturated-seepage	---	---
6	W14	PFO	PSS	Permanently Saturated	S9 (Intermittent)	---
6	W15	PFO	PSS	Permanently Saturated	S10 (Intermittent)	---
6	W16	PSS	PFO	Permanently Saturated	S11 (Unnamed Perennial)	---

Aerial Map Sheet No.	Wetland No. ¹	Dominant NWI Class ²	Other NWI Classes	Dominant Water Regime	Associated Watercourse ³	Associated Vernal Pool ⁴
6,7	W17	PSS	PFO	Seasonally Flooded	S12 (Intermittent)	VP 7
7	W18	PEM	PSS	Seasonally Flooded	---	---
7	W19	PFO	PSS	Seasonally Flooded	S13 (Intermittent)	---
7	W20	PSS	PFO	Temporarily Flooded	S14 (Menunketesuck River)	---
7	W21	PFO	PSS	Permanently Saturated	---	---
8	W22	PFO	PSS	Seasonally Flooded	---	VP 8
8	W23	PFO	---	Seasonally Saturated-seepage	---	---
8	W24	PFO	---	Seasonally Saturated-seepage	---	---
8	W25	POW	PEM	Permanently Flooded	---	---
8	W26	PFO	PSS	Seasonally Flooded	S15 (Intermittent)	VP 9
9	W27	PFO	PSS	Seasonally Flooded	S16 (Unnamed Perennial)	---
9	W28	PFO	---	Seasonally Flooded	---	VP 10
9	W29	PFO	PSS	Permanently Saturated	S18 (Plane Brook)	---
10	W30	PFO	---	Seasonally Saturated-seepage	---	---
10	W31	PFO	PSS	Seasonally Flooded	S19 (Intermittent)	---
10	W32	PSS	PFO	Seasonally Saturated-seepage	---	---
10	W33	PFO	---	Seasonally Saturated-seepage	---	---

Aerial Map Sheet No.	Wetland No. ¹	Dominant NWI Class ²	Other NWI Classes	Dominant Water Regime	Associated Watercourse ³	Associated Vernal Pool ⁴
10	W34	PFO	---	Seasonally Saturated-seepage	---	---
10	W35	PFO	PSS	Permanently Saturated	---	---
11	W36	PFO	PSS	Seasonally Flooded	---	---
11	W37	PFO	PSS	Permanently Saturated	---	---
11	W38	PSS	PFO	Seasonally Saturated-seepage	---	---
11	W39	PSS	PFO	Seasonally Saturated-seepage	---	---
12	W40	PEM	PSS	Seasonally Saturated-seepage	---	---
12	W41	POW	PFO	Permanently Flooded	---	---
12	W42	PFO	PSS	Seasonally Flooded	---	VP 11, 12
12	W43	PFO	PSS	Seasonally Flooded	---	VP 13
12	W44	PFO	---	Seasonally Saturated-seepage	---	---
13	W45	PFO	PSS	Seasonally Flooded	---	---
13	W46	PFO	PSS	Seasonally Flooded	---	VP 14, 15
13	W47	PFO	PSS	Seasonally Flooded	---	VP 16
13	W48	PFO	PSS	Seasonally Flooded	---	---
13	W49	PFO	---	Seasonally Saturated-seepage	---	---
14	W50	PFO	PSS	Seasonally Flooded	---	VP 17

Aerial Map Sheet No.	Wetland No. ¹	Dominant NWI Class ²	Other NWI Classes	Dominant Water Regime	Associated Watercourse ³	Associated Vernal Pool ⁴
14	W51	PFO	PSS	Seasonally Flooded	---	VP 18, 19
14	W52	PFO	---	Seasonally Saturated-seepage	---	---
15	W53	PFO	PSS	Seasonally Flooded	S20 (Trout Brook)	---
15	W54	POW	PEM	Permanently Flooded	---	---
15	W55	PSS	PFO	Seasonally Saturated-seepage	S21 (Intermittent)	---
16	W56	PFO	PSS	Seasonally Flooded	---	VP 20, 21
16	W57	PFO	PSS	Permanently Saturated	S22 (Unnamed Perennial)	---
16	W58	PFO	---	Seasonally Saturated-seepage	---	---
17	W59	PSS	PEM	Seasonally Saturated-seepage	---	---
17	W60	PSS	PFO	Permanently Saturated	---	---
17	W61	PFO	---	Seasonally Flooded	---	VP 22
17A	W62	PFO	---	Permanently Saturated	---	
17A	W63	PFO	---	Permanently Saturated	---	
18	W64	PEM	PSS	Seasonally Flooded	---	VP 23
19	W65	PEM	PFO	Seasonally Flooded	S23 (Unnamed Perennial)	---

¹Wetland No. refers to the number generated during the 2016 field surveys within the Green Hill to Bokum Upgrade Project area.

This Wetland No. is keyed to those depicted on the 200 scale Aerial Maps (Attached to the Petition).

²Wetlands classified according to Cowardin et al 1979; PEM = Palustrine Emergent Wetland; PFO = Palustrine Forested Wetland; PSS = Palustrine Scrub-Shrub Wetland; POW = Palustrine Open Water.

³Associated Watercourse refers to the identification number assigned during the 2016 field surveys to identify watercourses within the Green Hill to Bokum Upgrade Project area.

⁴Vernal pools were identified in 2016 by Davison Environmental

Wetland Delineation Field Form

Wetland I.D.:	W1	Stream I.D.:	S1
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input checked="" type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: floodplain wetland extends to maintained lawn/yard on the east side		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Hammonasset River		
Comments: wetland is bordered by maintain lawn to the east		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments:	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
---	---	-----------------------------

DOMINANT PLANTS:

Speckled Alder (<i>Alnus rugosa</i>)	
Silky Dogwood (<i>Cornus amomum</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	
Red Maple (<i>Acer rubrum</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W2	Stream I.D.:	S2, S3
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Bordering wetland to unnamed perennial watercourse (S2) drains west. Historic stone dams/impoundments observed.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments:		

WATERCOURSE TYPE:

Perennial <input checked="" type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: S2 Unnamed Perennial, S3 Intermittent		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
---	---	-----------------------------

DOMINANT PLANTS:

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W3	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input checked="" type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input checked="" type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: scrub-shrub cover types are present along the wetland periphery		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
---	---	-----------------------------

DOMINANT PLANTS:

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W4	Stream I.D.:	S4
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: wetland and iwc drain through existing access road via existing culvert crossing		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
---	---	-----------------------------

DOMINANT PLANTS:

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W5	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input checked="" type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input checked="" type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: scrub-shrub present along wetland fringes		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
---	---	-----------------------------

DOMINANT PLANTS:

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W6	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	
Winterberry (<i>Ilex verticillata</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W7	Stream I.D.:	S5 (Intermittent)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: seasonally flooded wetland hydrology is influenced by access road, culverts		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VPs 1, 2	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Greenbriar (<i>Smilax rotundifolia</i>)	
Winterberry (<i>Ilex verticillata</i>)	
Red Maple (<i>Acer rubrum</i>)	
Sweet Pepperbush (<i>Clethra alnifolia</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W8	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VP 3	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Winterberry (<i>Ilex verticillata</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	
Tussock Sedge (<i>Carex stricta</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W9	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VP 4	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Buttonbush (Cephalanthus occidentalis)	
Highbush Blueberry (Vaccinium corymbosum)	
Greenbrier (Smilax rotundifolia)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W10	Stream I.D.:	Stream: N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VP 5	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Swamp White Oak (<i>Quercus palustris</i>)	Winterberry (<i>Ilex verticillata</i>)
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Sweet Pepperbush (<i>Clethra alnifolia</i>)	
Red Maple (<i>Acer rubrum</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W11	Stream I.D.:	S6, S7, S8 (Unnamed Perennials)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located	<input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Unnamed		
Comments: S7 and S8 were digitized from aerial due to difficult access in wetland interior		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Speckled Alder (<i>Alnus rugosa</i>)	
Winterberry (<i>Ilex verticillata</i>)	
Tussock Sedge (<i>Carex stricta</i>)	
Red Maple (<i>Acer rubrum</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W12	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VP 6	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Buttonbush (<i>Cephalanthus occidentalis</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W13	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments:		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer Rubrum)	
Skunk Cabbage (Symplocarpus foetidus)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W14	Stream I.D.:	S9 (Intermittent)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Steeplebush (<i>Spiraea tomentosa</i>)	
Tussock Sedge (<i>Carex stricta</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	
Red Maple (<i>Acer rubrum</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W15	Stream I.D.:	S10 (Intermittent)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: intermittent with evidence of fairly persistent flows, drains from large headwater wetland off-ROW to north		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Highbush Blueberry (Vaccinium corymbosum)	
Skunk Cabbage (Symplocarpus foetidus)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W16	Stream I.D.:	S11 (Unnamed Perennial)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located	<input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments:		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Unnamed		
Comments: existing historic hard-bottom (stone ford) crossing		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Speckled Alder (Alnus rugosa)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W17	Stream I.D.:	S11 (Intermittent)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: hydrology is influenced by existing access road which impounds water		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VP 7	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	Common Reed (Phragmites australis)
Winterberry (Ilex verticillata)	
Sweet Pepperbush (clethra alnifolia)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W18	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: off-ROW vernal pool to north	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Soft Rush (Juncus effuses)	
Tussock Sedge (Carex stricta)	
Sweet Pepperbush (Clethra alnifolia)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W19	Stream I.D.:	S13 (Intermittent)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Winterberry (<i>Ilex verticillata</i>)	
Sweet Pepperbush (<i>Clethra alnifolia</i>)	
Red Maple (<i>Acer rubrum</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	
Steeplebush (<i>Spiraea tomentosa</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W20	Stream I.D.:	S14 (Menunketesuck River)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input checked="" type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Menunketesuck River		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Speckled Alder (<i>Alnus rugosa</i>)	
Red Maple (<i>Acer rubrum</i>)	
Winterberry (<i>Ilex verticillata</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W21	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Sweet Pepperbush (<i>Clethra alnifolia</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Red Maple (<i>Acer rubrum</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	
Swamp White Oak (<i>Quercus bicolor</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W22	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: wetland is primarily outside of the maintained ROW and forested		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Classic'	
Comments: VP 8	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Swamp White Oak (Quercus bicolor)	
Winterberry (Ilex verticillata)	
Highbush Blueberry (Vaccinium corymbosum)	
Sweet Pepperbush (Clethra alnifolia)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W23	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W24	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W25	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input checked="" type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: pond with narrow emergent/scrub-shrub fringe on the east side		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Tussock Sedge (<i>Carex stricta</i>)	
Broad-Leaf Cattail (<i>Typha latifolia</i>)	
Woolgrass (<i>Scirpus cyperinus</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W26	Stream I.D.:	S15 (Intermittent)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VP 9	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Highbush Blueberry (Vaccinium corymbosum)	
Greenbrier (Smilax rotundifolia)	
Tussock Sedge (Carex stricta)	
Skunk Cabbage (Symplocarpus foetidus)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W27	Stream I.D.:	S16 (Unnamed Perennial)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located	<input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Unnamed		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	
Sweet Pepperbush (<i>Clethra alnifolia</i>)	
Winterberry (<i>Ilex verticillata</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W28	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Classic'	
Comments: VP 10	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Winterberry (<i>Ilex verticillata</i>)	
Sweet Pepperbush (<i>Clethra alnifolia</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W29	Stream I.D.:	S18 (Plane Brook)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Plane Brook		
Comments: watercourse culverted beneath existing access road		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Common Reed* (Phragmites australis)	
Red Maple (Acer rubrum)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W30	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W31	Stream I.D.:	S19 (Intermittent)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Housatonic River		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Sweet Pepperbush (Clethra alnifolia)	
Steeplebush (Spiraea tomentosa)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W32	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Soft Rush (Juncus effuses)	
Highbush Blueberry (Vaccinium corymbosum)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W33	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Skunk Cabbage (Symplocarpus foetidus)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W34	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W35	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Sweet Pepperbush (Clethra alnifolia)	
Tussock Sedge (Carex stricta)	
Skunk Cabbage (Symplocarpus foetidus)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W36	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Sweet Pepperbush (Clethra alnifolia)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W37	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Sweet Pepperbush (<i>Clethra alnifolia</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W38	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Soft Rush (Juncus effuses)	
Steeplebush (Spiraea tomentosa)	
Steeplebush (Spiraea tomentosa)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W39	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Steeplebush (<i>Spiraea tomentosa</i>)	
Soft Rush (<i>Juncus effusus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W40	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Housatonic River		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Japanese Barberry* (Berberis thunbergii)
Skunk Cabbage (Symplocarpus foetidus)
Soft Rush (Juncus effusus)

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W41	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input checked="" type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: unnamed pond		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input checked="" type="checkbox"/>	Palustrine <input type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input checked="" type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Skunk Cabbage (Symplocarpus foetidus)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W42	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: wetland hydrology is associated with poor road drainage, impounding		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VPs 11, 12	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Spicebush (<i>Lindera benzoin</i>)	
Tussock Sedge (<i>Carex stricta</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W43	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Classic'	
Comments: VP 13	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Tussock Sedge (<i>Carex stricta</i>)	
Common Reed* (<i>Phragmites australis</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W44	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
American Elm (Ulmus americana)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W45	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Housatonic River		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W46	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VPs 14, 15	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Highbush Blueberry (Vaccinium corymbosum)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W47	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: possible seasonal channelized flow		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VP 16	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Spicebush (<i>Lindera benzoin</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W48	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: possible seasonal channelized flow, wetland broadens and gradient decreases to the south		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Spicebush (Lindera benzoin)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W49	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: off-ROW wetland, in proximity to an existing off-ROW access road		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	
Spicebush (Lindera benzoin)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W50	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: cover type predominantly PFO		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Classic'	
Comments: VP 17	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W51	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: hydrology is influenced by impoundment along existing access road		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VPs 18, 19	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Broad-Leaf Cattail (<i>Typha latifolia</i>)	
Common Reed* (<i>Phragmites australis</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W52	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: southern lobe of a larger off-ROW wetland		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W53	Stream I.D.:	S20 (Trout Brook)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Trout Brook floods adjacent wetland periodically		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: forested beyond maintained ROW		

WATERCOURSE TYPE:

Perennial <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Trout Brook		
Comments: riffle-pool morphology		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
American Elm (<i>Ulmus americana</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Swamp White Oak (<i>Quercus bicolor</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W54	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input checked="" type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: permanently flooded beaver impoundment		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input checked="" type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Pond Lily (Nuphar sp.)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W55	Stream I.D.:	S21 (Intermittent)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: narrow channelized conveyance feature drains from north and east to culvert outlet		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Unnamed		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Japanese Barberry* (Berberis thunbergii)
Multiflora Rose* (Rosa multiflora)
Red Maple (Acer rubrum)

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W56	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: existing culverted access road crossing on southern end of wetland		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic' and 'Classic'	
Comments: VPs 20, 21	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Spicebush (<i>Lindera benzoin</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W57	Stream I.D.:	S22 (Unnamed Perennial)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Unnamed		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Spicebush (<i>Lindera benzoin</i>)	
Skunk Cabbage (<i>Symplocarpus foetidus</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W58	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W59	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Soft Rush (Juncus effuses)	
Tussock Sedge (Carex stricta)	
Tearthums (Polygonum spp.)	
Steeplebush (Spiraea tomentosa)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W60	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Common Reed* (<i>Phragmites australis</i>)	
Soft Rush (<i>Juncus effusus</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W61	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VP 22	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W62	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W63	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (Acer rubrum)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W64	Stream I.D.:	N/A
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>	

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input checked="" type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: forested off-ROW		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: 'Cryptic'	
Comments: VP 23	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Steeplebush (<i>Spiraea tomentosa</i>)	
Joe Pye Weed (<i>Eupatorium maculatum</i>)	
Highbush Blueberry (<i>Vaccinium corymbosum</i>)	
Soft Rush (<i>Juncus effusus</i>)	
Boneset (<i>Eupatorium perfoliatum</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

Wetland Delineation Field Form

Wetland I.D.:	W65	Stream I.D.:	S23 (Unnamed Perennial)
Flag Location Method:	Site Sketch <input type="checkbox"/>	GPS (sub-meter) located	<input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: None		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input checked="" type="checkbox"/>	Scrub-shrub <input checked="" type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: None		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	
Common Reed* (<i>Phragmites australis</i>)	
American Elm (<i>Ulmus americana</i>)	
Bebb Willow (<i>Salix bebbiana</i>)	

* denotes Connecticut Invasive Species Council invasive plant species

ATTACHMENT E



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

Vernal Pool Survey and Recommended Protection Measures

March 19, 2018

DE Project No.: 2017-27

Prepared For: Eversource Energy
56 Prospect Street
Hartford, CT 06103
Attn: Mark Pappalardo

Eversource Project Name: Green Hill to Bokum (1342 Line) Upgrade Project

Project Location: Madison, Killingworth, Clinton, Essex, Westbrook, and Old Saybrook, Connecticut

Date(s) of Investigations: April – May, 2016

Survey Methodology: Visual and Audial Survey, and Dip Netting

The vernal pool survey was performed by:

Davison Environmental, LLC

Eric Davison
Wildlife Biologist
Professional Soil Scientist
Professional Wetland Scientist

INTRODUCTION

The following details vernal pool surveys conducted by Davison Environmental in support of The Connecticut Light and Power Company doing business as Eversource Energy's ("Eversource") petition to the Connecticut Siting Council for the Green Hill to Bokum (1342 Line) Upgrade Project within an existing transmission line right-of-way ("ROW") in Madison, Killingworth, Clinton, Essex, Westbrook, and Old Saybrook, Connecticut ("Project").

VERNAL POOL DEFINITION

Several vernal pool definitions have been developed by both regulatory authorities and conservation organizations. The Connecticut Department of Energy and Environmental Protection (CT DEEP) generally describes vernal pools on its website, but cautions that the data provided is informational in nature and should not supplant regulations of municipal inland wetlands agencies. CT DEEP describes vernal pools as "*small bodies of standing fresh water found throughout the spring*" that are "*usually temporary*" and "*result from various combinations of snowmelt, precipitation and high water tables associated with the spring season*".

Calhoun and Klemens (2002) *Best development practices: Conserving pool-breeding amphibians in residential and commercial developments in the northeastern United States* (BDP Manual) provides the following operational definition of vernal pools:

*Vernal pools are seasonal bodies of water that attain maximum depths in the spring or fall, and lack permanent surface water connections with other wetlands or water bodies. Pools fill with snowmelt or runoff in the spring, although some may be fed primarily by groundwater sources. The duration of surface flooding, known as hydroperiod, varies depending upon the pool and the year; vernal pool hydroperiods range along a continuum from less than 30 days to more than one year. Pools are generally small in size (<2 acres), with the extent of vegetation varying widely. They lack established fish populations, usually as a result of periodic drying, and support communities dominated by animals adapted to living in temporary, fishless pools. In the region, they provide essential breeding habitat for one or more wildlife species including Ambystomid salamanders (*Ambystoma* spp., called "mole salamanders" because they live in burrows), wood frogs (*Rana sylvatica*), and fairy shrimp (*Eubranchipus* spp.).*

Vernal pool physical characteristics can vary widely while still providing habitat for indicator species. "Classic" vernal pools are natural depressions in a wooded upland with no permanent hydrologic connection to other wetland systems. Anthropogenic depressions such as quarry holes, old farm ponds and borrow pits can also provide similar habitat. Often, vernal pools are depressions or impoundments embedded within larger wetland systems. These vernal pool habitats are commonly referred to as "cryptic" vernal pools.

Several species of amphibians depend on vernal pools for reproduction and development. These species are referred to as indicator¹ vernal pool species, and their presence in a temporary wetland during the breeding season helps to identify that area as a vernal pool. Indicator species present in Connecticut include the following:

¹ Calhoun and Klemens (2002) argue that "indicator" species is a better word than the commonly used "obligate" species, as they will occasionally breed in roadside ditches and small ponds that are not vernal pools.

- Blue-spotted salamander (*Ambystoma laterale*);
- Wood frog (*Rana sylvatica*);
- Spotted salamander (*Ambystoma maculatum*);
- Jefferson salamander (*Ambystoma jeffersonianum*);
- Marbled salamander (*Ambystoma opacum*); and
- Fairy shrimp (*Branchiopoda anostraca*).

Facultative vernal pool species are fauna that utilize but do not necessarily require vernal pools for reproductive success. Examples of facultative species include spotted turtles (*Clemmys guttata*) and four-toed salamander (*Hemidactylum scutatum*). These species may breed or feed in vernal pools, but are also capable of carrying out all phases of their lifecycle in other types of wetlands or water bodies. Evidence of breeding by facultative species alone is not considered indicative of the presence of a vernal pool.

EXISTING WETLANDS ALONG THE PROJECT ROW

Project wetlands are predominantly characterized by wetlands with a “saturated” or “seasonally flooded” hydrology. Mitsch and Gosselink (2007)² defines a saturated hydrology as a wetland with a substrate that is saturated for extended periods during the growing season, but standing water is rarely present. Wetlands with a saturated hydrology are not capable of supporting breeding by vernal pool indicator species, as they lack prolonged standing water. In order for successful breeding by vernal pool amphibians to occur, a wetland must have standing water from approximately March through June for most indicator species³. Such wetlands, referred to as seasonally flooded wetlands, provide optimal habitat for vernal pool indicator species. Seasonally flooded wetlands were more abundant within portions of the ROW where shallow bedrock was present. Additionally, while seasonally flooded conditions are optimal, permanently (or semi-permanently) flooded wetlands can also provide suitable breeding habitat, particularly if they occur in a forested landscape and contain shallow water with emergent and/or submergent vegetation.

The Project ROW lies within the Eastern Coastal Ecoregion (Dowhan and Craig, 1976), along the northern limits of Connecticut’s Coastal Slope. The area is characterized by small, disconnected rocky ridges with abundant shallow-to-bedrock soil that support perched wetlands and vernal pools as well as headwater swamps.

VERNAL POOL SURVEY

On April 14, 19, 22, 27, 28 and May 2, 2016, biologist Eric Davison of Davison Environmental, LLC conducted field surveys of the wetlands within the Project area to identify vernal pools. Field surveys were conducted to identify both species richness and abundance of indicator species. Survey methods used included visual surveys to identify adults, larvae and egg

² Mitsch, W.J. and Gosselink, J.G. 2007. Wetlands, fourth edition. John Wiley and Sons, Inc.

³ The indicator species marbled salamander (*Ambystoma opacum*) breeds in late-summer and fall, with larval development throughout the winter and spring.

masses, audial surveys to record breeding choruses and dip-net surveys to identify amphibian larvae.

A total of 23 vernal pools were identified within the Project area as depicted in Table 1. Vernal pools were assigned numeric identifiers (VP#) and are depicted on the Project's 200 Scale Aerial Maps. Photographs of representative vernal pools are attached for reference.

Other species observed during the surveys included red-spotted newt (*Notophthalmus viridescens*), pickerel frog (*Lithobates palustris*), American toad (*Bufo americanus*), northern water snake (*Nerodia sipedon*), gray treefrog (*Hyla versicolor*), fairy shrimp (*Branchiopoda*), black racer (*Coluber constrictor*), green frog (*Lithobates clamitans*), spring peeper (*Pseudacris crucifer*), painted turtle (*Chrysemys picta*), and garter snake (*Thamnophis sirtalis*).

Two State-listed species of special concern were observed during the survey, the eastern ribbon snake (*Thamnophis sauritus*) and the spotted turtle (*Clemmys guttata*). Ribbon snake was observed at Vernal Pools 2, 7 and 23⁴. Spotted turtle was observed at Vernal Pool 4.

Table 1: Green Hill to Bokum Upgrade Project Vernal Pool Summary Table

Pool	Indicator Species (L=larvae present; number = total egg masses)			Cover Type	Pool Type	100 Scale Mapsheets No.
	Wood Frog	Spotted Salamander	Marbled Salamander			
VP1		28	L	PSS	CR(A)	3
VP2		36		PFO/PEM	CR(A)	4
VP3	L	10		PFO	CR	4
VP4	L	20+		PSS	CR	4
VP5	L	2+		PFO	CR	4
VP6	L	20+		PSS	CR	5
VP7		5		PEM/PSS	CR(A)	6
VP8		6		PFO	CL	8
VP9	L	5+		PFO/PSS	CR	8
VP10		37+	L	PFO	CL	9
VP11		26+		PFO/PSS	CR	12
VP12	L	14		PFO	CR	12
VP13	50	36	L	PSS/PFO	CL	12
VP14	26	13	L		CR(A)	13
VP15	3	19		PFO	CR(A)	13
VP16		23	L	PFO	CR	13
VP17	114+	69+		PFO	CL	14

⁴ Ribbon snake was observed at this location during former study of The Preserve by Dr. Michael W. Klemens and Eric Davison.

VP18		11		PFO	CR	14
VP19		13	L	PFO/PSS	CL(A)	14
VP20		82	L	PFO/PSS	CR	16
VP21		4		PFO	CL	16
VP22	L	98	L	PFO	CR(A)	17
VP23	L	25+	L	PFO	CR	18
<u>Cover Type</u> PFO – palustrine forested wetland (wooded swamp) PSS – palustrine scrub-shrub wetland (shrub swamp) PEM – palustrine emergent wetland (marsh)						
<u>Pool Type</u> CR – cryptic; CL – classic; CR(A) – cryptic with hydroperiod modified by access road; CL(A) – classic with hydroperiod modified by access road						
+ = indicates large pools with deep water, dense vegetation and/or the pool continues offsite; therefore, total egg mass counts were not conducted						

POTENTIAL PROJECT IMPACTS TO VERNAL POOLS AND RECOMMENDED PROTECTION MEASURES

Based on the proximity of vernal pools to the proposed work, potential impacts to vernal pools may occur during construction. The principal construction activities that could impact vernal pools include:

1. The construction of new, or improvement of existing access roads through vernal pool envelopes (within 100' of vernal pool);
2. The movement of vehicles and equipment through amphibian migratory routes;
3. The potential for erosion and sedimentation into vernal pools;
4. The destruction of fossorial habitat through soil compaction and grading; and
5. The placement of structures or use of equipment within pools that could directly impact egg deposition areas or negatively affect the hydrologic regime of the pool.

Recommended Protection Measures

Based on the Project activities proposed in proximity to vernal pools, the following measures are recommended to avoid or minimize impacts on vernal pools during construction:

- A. Avoidance and/or minimization of construction activities in vernal pools where feasible;
- B. Work in vernal pools should be conducted between November and March, outside of the high sensitivity period for both spring (e.g., spotted salamander and wood frog) and fall breeding (marbled salamander) vernal pool indicator species. High sensitivity periods include the migration/breeding period and the metamorph emergence/early dispersal periods;
- C. Work pads in vernal pools should be minimized to the greatest extent practicable. Matting should be limited to previously disturbed areas within the maintained ROW and

elevated on runners to minimize ground contact and potential alteration of pool microtopography;

- D. Permanent alteration of habitat should be avoided within vernal pool envelopes. Temporary matting should be utilized for access roads and work pads;
- E. If possible, no tree clearing should occur within vernal pool envelopes;
- F. Removal of shrub cover associated with work pad and access road construction within 25' of vernal pools should be minimized to the extent practicable. Cut woody debris (slash) should be left in place to provide amphibian cover and promote the development of coarse woody debris and detritus;
- G. If necessary, erosion and sedimentation controls should be installed and maintained along existing access roads and work pads near vernal pools as necessary to protect water quality and to limit the potential for soil deposition into vernal pools. Erosion control measures should be designed in a manner that allows unencumbered amphibian access to the vernal pool. Such measures may include, but not be limited to; syncopated silt fencing and/or straw wattles, and aligning erosion and sedimentation controls to avoid bifurcating vernal pool habitat; and
- H. Plastic netting, which may be found in a variety of erosion control products (e.g., erosion control blankets, straw wattles, and reinforced silt fence), should not be used. Erosion and sedimentation control devices should be promptly removed upon final revegetation and stabilization of the ROW.

Attachment:

Photographs of Representative Vernal Pools



Photo 1: Vernal Pool 1



Photo 2: Vernal Pool 2



Photo 3: Vernal Pool 3



Photo 4: Vernal Pool 4



Photo 5: Vernal Pool 5



Photo 6: Vernal Pool 6



Photo 7: Vernal Pool 7



Photo 8: Vernal Pool 8



Photo 9: Vernal Pool 9



Photo 10: Vernal Pool 10



Photo 11: Vernal Pool 11



Photo 12: Vernal Pool 12



Photo 13: Vernal Pool 13



Photo 14: Vernal Pool 14



Photo 15: Vernal Pool 15



Photo 16: Vernal Pool 20 (looking east across historic access)

ATTACHMENT F

May 9, 2018

Dear Neighbor,

At Eversource, we're always working to serve you better. We are submitting a petition to the Connecticut Siting Council (CSC) for a proposed transmission upgrade project in your area.

Proposed Project Information

The upgrade, called the Green Hill to Bokum 1342 Line Rebuild Project, involves replacing the existing wood structures with weathering steel structures. These are steel poles with a finish that "weathers" or darken over time. We are also upgrading the communication/ground wire associated with each structure. Due to the age and condition of the existing wood structures, they need to be replaced to provide continued reliability of the transmission line and maintain the integrity of the transmission system.

The project construction will be located entirely within existing rights-of way (power line corridors) between the Green Hill Substation on Green Hill Road in Madison and the Bokum Substation on Bokum Road in Old Saybrook, Conn. Other towns along the transmission rights-of-way are Killingworth, Clinton, Westbrook and Essex.

If the CSC approves this proposed work, construction is expected to begin in late 2018. We anticipate restoration of any affected areas will be completed by mid-2019.

Contact Information

Eversource is committed to being a good neighbor and doing our work with respect for you and your community. For more information please call 1-800-793-2202 or send an email to TransmissionInfo@eversource.com.

If you would like to send comments regarding Eversource's petition to the CSC, please send them via email to siting.council@ct.gov or send a letter to the following address: Melanie Bachman, Acting Executive Director, Connecticut Siting Council, Ten Franklin Square, New Britain, CT 06051

Thank you.

Sincerely,

Dalesa Holgerson

Dalesa Holgerson
Eversource Project Manager

AFFIDAVIT OF SERVICE OF NOTICE

STATE OF CONNECTICUT)
) ss. Berlin
COUNTY OF HARTFORD)

Sec. 16-50j-40 of the Regulations of Connecticut State Agencies ("RCSA") provides that proof of notice to the affected municipalities, property owners and abutters shall be submitted with a petition for declaratory ruling to the Connecticut Siting Council ("Council"). In accordance with that RCSA section, I hereby certify that I caused notice of The Connecticut Light and Power Company doing business as Eversource Energy's proposed modifications of its 1342 transmission line to be served by mail or courier upon the following municipal officials:

Municipal Officials.

Town of Clinton
First Selectman Christine Goupil
54 East Main Street
Clinton, CT 06413

Town of Old Saybrook
First Selectman Carl P. Fortuna
302 Main Street
Old Saybrook, CT 06475

Town of Westbrook
First Selectman Noel Bishop
866 Boston Post Road
Westbrook, CT 06498

Town of Killingworth
First Selectwoman Catherine Lino
323 Route 81
Killingworth, CT 06419

Town of Essex
First Selectman Norman Needleman
29 West Avenue
Essex, CT 06426

Town of Madison
First Selectman Tom Banisch
8 Campus Drive
Madison, CT 06443

I also certify that I caused notice of the proposed modifications to be served by mail or courier upon 158 owners of abutting properties shown on the maps in Attachment A to the Petition.

Dalesa Holgerson
Dalesa Holgerson
Project Manager

On this the 9th day of May, 2018, before me, the undersigned representative, personally appeared, Dalesa Holgerson, known to me (or satisfactorily proven) to be the person whose name is subscribed to the foregoing instrument and acknowledged that she executed the same for the purposes therein contained.

In witness whereof, I have unto set my hand and official seal

Kathy L. Schmidt
Notary Public
My Commission expires: 9-30-2019