



56 Prospect Street
P.O. Box 270
Hartford, CT 06103

Kathleen M. Shanley
Manager – Transmission Siting
Tel: (860) 728-4527

April 7, 2016

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

Re: 1975 Line Structure Replacement 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" or the "Company") requesting a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modifications to 1975 transmission line within Eversource's existing right-of-way ("ROW") in the towns of Middlefield and Durham and the City of Middletown ("Petition").

Prior to submitting this Petition, representatives from Eversource briefed municipal officials. Written notice was provided to all direct abutters notifying them of the proposed work and the Petition being filed with the Council. A map and line list identifying the abutting property owners who were notified of the Project are provided in Attachment A: 1975 Transmission Line Rebuild Project Maps. The letter to the abutters and Affidavit of Service are provided in Attachment D: Letter to the Abutters and Affidavit.

A check in the amount of \$625 for the required filing fee is also attached.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kathleen Shanley", written over a horizontal line.

Kathleen Shanley

Attachment: Petition

cc:

Edward Bailey, Middlefield First Selectman
Laura Francis, Durham First Selectman
Daniel Drew, Mayor of Middletown

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 1975 LINE STRUCTURE REPLACEMENT PROJECT CONSISTING OF
PROPOSED MODIFICATIONS OF AN EXISTING 115-kV TRANSMISSION LINE IN
MIDDLEFIELD, DURHAM AND MIDDLETOWN, CONNECTICUT

1. Introduction

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 existing 1975 transmission line within Eversource's existing right-of-way ("ROW") in the towns of Middlefield, Durham and the City of Middletown ("Petition") that are described herein (the "Project"). 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 rebuild approximately 0.8 miles of the 1975 Line located entirely within Eversource's existing ROW between East Meriden Substation in Meriden and Haddam Substation in Haddam. The 1975 Line structures primarily consist of aging 115-kV wood H-frame structures originally constructed in the 1920s and 1950s and are now beyond their life expectancy (40 years) and in critical need of replacement due to deterioration of poles and cross-arms from natural aging effects. Representative photographs are included in Attachment C.

The Project would result in safer conditions for Eversource maintenance crews and improve the reliability of the electric transmission system by replacing the structures, which are in danger of failing.

Further detail as to the proposed scope of work is described below.

3. Project Description

The 115-kV 1975 transmission line is presently a two-terminal line connecting the East Meriden Substation located at 300 High Hill Road, in Meriden and the Haddam Substation located at 1384 Saybrook Road, in Haddam and traversing through Middlefield, Durham and Middletown. The existing circuit consists of two lines of wood H-frame structures bundled together to electrically operate as a single. The Project would replace the existing aging wood H-frame structures currently supporting the 1975 Line in the vicinity of the Royal Oaks Subdivision in the Town of Durham and the City of Middletown, for a total distance of approximately 0.8 miles. The 115-kV 1975 Line modifications are described below. The proposed modifications are shown on Attachment A, 1975 Transmission Line Rebuild Project Maps, and Attachment B, Cross Section Drawing.

1. Removal of 13 115-kV wood H-frame structures.
2. Removal of six weathering single-circuit steel structures and foundations. This includes two deadend H-frame structures which support the southerly line and four tap structures which currently facilitate the bundling of the two transmission lines
3. Removal of the existing 4/0 copper conductor and copperweld shield wires on the existing wood structures.
4. Installation of five direct-embedded 115-kV H-frame weathering steel structures which would match the existing structures. Looking along the ROW, two sets of single-circuit wood pole transmission structures exist today, one of which would be replaced with single-circuit steel H-frames and the second would be removed. The existing configuration in this corridor is two lines bundled together. The new configuration would be a single line.

The proposed steel structures would be installed within 75 feet longitudinally of existing wood structures. Structure locations are shown on Attachment A, 1975 Transmission Line Rebuild Project Maps Project Maps.

The height ranges of the existing structures are between approximately 43 to 61 feet above ground level. The new proposed structures would be approximately 5 to 15 feet taller than the existing structures with the tallest proposed structure at 75 feet.

The increase in height is required to comply with the 2012 National Electric Safety Code (“NESC”).

5. Installation of new conductor 1590-kcmil aluminum conductor steel supported (“ACSS”) line conductor on the proposed steel structures.
6. Installation of two optical ground wires (“OPGW”) on the proposed structures.

Attachment B provides cross section that depicts the existing and proposed structure configurations within the ROW.

4. Existing Environment, Environmental Effects and Mitigation

The proposed transmission structure replacement and line work described above would not have a substantial adverse environmental effect, as explained more fully below. The Project would be constructed entirely within Eversource’s existing transmission ROWs.

Existing Right-of-Way

The existing ROW where the 1975 Line is located is generally 125 feet wide. The ROW currently contains two separate sets of 115-kV wood H-frame structures. These two lines are bundled together to operate as one single electric line. The full width of this portion of the ROW is actively maintained and is characterized by low-growth vegetation. No expansion of the existing maintained ROW will be required and the structure replacement and line work would take place entirely within the existing ROW. See Attachment B, Cross Section Drawing.

Land Use

Land uses in the Project area are a mix of residential, agricultural and undeveloped lands. The Eversource ROW has been maintained as an electric utility corridor since 1927.

The Project is located along an existing line corridor. There are no impacts to adjacent land uses from the Project, though the Project would be traversing through some maintained lawns and gardens within the established ROW. Eversource would work with the property owners to restore these areas and other similarly improved areas upon completion of the

Project. In addition, as part of the Project, the number of structures along the existing transmission line corridors will be reduced.

Scenic, Recreational and Cultural Resources

There are no scenic resources and/or recreational areas present within or adjacent to the Project area.

A review and assessment of known cultural (archeological and historical) resources was completed by Heritage Consultants, LLC ("Heritage") in October 2015. Heritage noted that the Project corridor was previously surveyed by Raber Associates in 2003 as part of the Middletown to Norwalk Project. At that time, Raber Associates found that the area had been substantially altered in the past and no longer retained the potential to yield intact archaeological resources. Based on the environmental conditions in the area and the results of the previous survey by Raber Associates, Heritage determined that the Project corridor possesses little, if any, potential to produce intact cultural deposits and stated that no additional archaeological examination of the corridor was recommended. In addition, in a letter, dated March 10, 2016 to Eversource Energy, the State Historic Preservation Officer concurred with the Heritage's findings.

Water Resources

Eversource contracted with the firm GZA GeoEnvironmental Inc. ("GZA") to identify and delineate water resources, which occurred in September and October 2015. Water resources within the Project area include inland wetlands and watercourses (intermittent and perennial streams and rivers) within the Project route as shown on Attachment A. Work in water resource areas would be conducted in accordance with the applicable best management practices outlined in Eversource's December 2011 *Best Management Practices Manual: Connecticut* ("BMPs") and in compliance with applicable regulatory permit/authorization terms and conditions.

Wetlands

GZA identified, delineated, and mapped State and federal jurisdictional wetland and water resources within the Project area. Connecticut and federal wetland delineation

methodologies were employed to field delineate the wetland resources. Wetland and watercourse flag locations were GPS recorded. As a result of this review, GZA identified and mapped four jurisdictional wetland areas, which are depicted on the mapsheets located in Attachment A.

The Project would result in some temporary impacts to wetlands. Temporary wetland impacts would be limited to approximately 0.49 acres would involve the temporary use of construction mats. The placement of construction mats in wetland areas is needed to facilitate the removal of four existing structures located between Route 17 and Little Lane in the Town of Durham (refer to Attachment A, sheet 1). Eversource would obtain Army Corps of Engineers ("USACE") Category 1 permit approval for the temporary placement of construction mats in the regulated wetland, prior to the start of construction. All construction mats would be removed upon Project completion and wetland conditions would be restored in accordance with Eversource's BMPs.

Watercourses and Waterbodies

GZA identified an intermittent watercourse shown on the mapsheets as W-A (Please see Attachment A, sheets 1 & 2). This intermittent watercourse discharges from an existing culvert that conveys stormwater runoff from Ironwood Lane in the Town of Durham and terminates in the ROW where flow infiltrates into the surrounding well-drained sandy soils. Additionally, along the northern edge of the ROW is a non-jurisdictional swale that originates south of Ash Court and extends west to Ironwood Lane.

No surface waters are located within the Project area.

Vernal Pools

No vernal pools or potential vernal pools were identified within or adjacent to the Project area.

FEMA Flood Zones

The Project area is not located within any Federal Emergency Management Agency ("FEMA") mapped floodway, 500- or 100-year floodplain.

Public Water Supply

Based on data maintained by the Connecticut Department of Energy and Environmental Protection ("CT DEEP"), the Project is not located within any aquifer protection areas. In addition, no public supply reservoirs or public/private water supply wells are located within the vicinity of the Project area.

Wildlife and Habitat Areas

The Project would not have a substantial adverse environmental effect on wildlife or wildlife habitat. Eversource's review of the CT DEEP Natural Diversity Data Base ("NDDB") and verification of field conditions confirmed that there are no qualifying state listed rare, threatened or endangered species or protected habitat types located in the vicinity of the Project. No portions of the Project fall within a CT DEEP mapped critical habitat area.

The existing Eversource ROW has been maintained as an electric transmission corridor since the 1920s with low growing vegetation. The vegetation maintenance practices promote certain wildlife habitat and low vegetation growth, a habitat type that is dwindling in Connecticut.

Sound Levels

There would be no increase to the existing sound levels along the transmission corridor after completion of the Project.

Radio and Television Interference

There would be no radio or television interference as a result of the Project.

Visual Effects

In general, the view shed in the vicinity of the Project would see improvement as the Project would result in removing 14 structures from the ROW and the new structures would be installed entirely within the existing Eversource ROW. However, the view shed would be slightly altered as, to maintain conductor clearance requirements, the new structures would be located within 75 feet of existing structure positions and would be comparable to the existing structures (5 to 15 feet higher than the existing structures).

The overall visual effect of the Project would be mitigated by replacing 19 structures (13 wood H-frame structures, two deadend weathering steel H-frame structures, and four steel tap structures) with 5 weathering steel H-frame structures within the existing ROW.

5. Construction Sequence and Methods

The Project would be constructed, operated, and maintained in accordance with established industry practices and the Company's BMPs. The Project would also adhere to the applicable conditions in federal and state permits and approvals obtained for the Project.

Eversource would construct the Project in several stages, some overlapping in time. Certain work activities and sequences may vary, based on factors such as site-specific conditions, the availability of circuit outages, and the requirements of regulatory approvals. Eversource would complete pre-construction planning activities and continue consulting with the affected municipalities and state and federal agencies to avoid adverse effects to the environment and to the public.

Project would utilize public roads for construction vehicle access to the ROW and for the delivery of materials and equipment. However, the construction related traffic will be temporary and highly localized in the vicinity of the ROW and staging area. Due to phasing of construction work, these construction-related traffic movements are not expected to significantly affect transportation patterns or levels of service on public roads.

Construction vehicles and equipment associated the overhead transmission line would include pickup trucks, bucket trucks, concrete trucks, drill rigs, front loaders, reel trailers, bulldozers, pullers, tensioners, wood chippers, cranes, forklifts, side booms and dump trucks.

To safely move construction vehicles and equipment onto and off the ROW, while minimizing disruptions to vehicular traffic along public roads, Eversource or its construction contractor would work with municipalities or the Connecticut Department of Transportation ("ConnDOT"), as appropriate, to address traffic concerns. 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.

Description of Construction Activities and General Sequence

The construction sequence would generally follow the activities described below:

Vegetation Removal

The ROW is currently maintained in accordance with Eversource's ROW vegetation management program and clearing is not required. However, some vegetation removal would be required within construction areas, including existing access roads and work/pull pad areas. Eversource would conduct vegetation removal activities in accordance with its BMP.

Soil Erosion and Sediment Control Installation

Construction of the Project would conform to best management practices for erosion and sedimentation ('E&S') control, including those provided in the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control* and the Company's BMPs.

Typical E&S control measures include, but are not limited to, straw blankets, hay bales, silt fencing, check dams, berms, swales, and sediment basins. Silt fence would be installed prior to construction to demarcate the line of construction and prevent migration of sediment or construction materials into wetlands and watercourses. Temporary E&S control measures would be maintained and inspected throughout the Project to ensure their integrity and effectiveness. Following the completion of construction, seeding and mulching would occur to permanently stabilize previously disturbed areas. The temporary E&S control measures would remain in place until the Project work is complete and all disturbed areas have been stabilized.

Staging Area

Eversource plans to utilize Eversource's Dooley Substation, located at 1279 Long Hill Road in Middletown, as the staging area for the Project. Material and equipment required for the transmission line modifications will be staged at the substation, wholly on Eversource's property. The proposed staging area would be used to store construction materials, equipment, tools, and supplies (including conductors, insulators, hardware, poles and construction mats) for the Project. Office trailers may be located at a staging area, and

components removed during the work (conductor, structural steel, hardware and insulators) may be temporarily accumulated and stored at a staging area prior to off-site removal and/or disposal. The staging area may 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. E&S controls would be installed and maintained until Project completion in accordance with Eversource's BMPs.

Access Roads and Work Pad Installation

Access to each proposed transmission structure location is required for the Project construction work. As a result of the operation and maintenance of the existing transmission lines within this corridor access roads are already established, no new access roads are required. Existing access roads would be used for the construction of the Project, but may need to be graded, widened, and/or reinforced with additional material in order to be used safely and effectively during construction. Access road improvements typically include clearing adjacent vegetation and widening roads as needed to provide a travel surface that is approximately 16 to 20 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 access roads.

At each transmission line structure site, work pads are required to provide a safe, level work base for the construction equipment, to stage material for final on-site assembly and to facilitate conductor pulling activities. Typical work pads would be approximately 100 X 100 feet. The pulling locations would be approximately 100 X 300 feet.

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, if necessary: (1) removal of vegetation, (2) grading to create a level work area, and (3) removal of the upper three to six inches of topsoil (which is typically unsuitable to support the necessary construction activities). The topsoil would be temporarily stockpiled within the ROW, typically near the work pad, unless removed for disposal, as appropriate. 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.

New gravel work pads in uplands would be left in place to facilitate transmission line maintenance, unless requested to be removed by the property owner.

One work pad, consisting of timber matts, will be installed between Little Lane and Route 17 in Durham. The matting will be removed upon completion of the work.

Foundation Installation

Excavation (augering) for installation of drilled shaft or direct buried foundations would use mechanical excavators, drill rigs and pneumatic hammers. Dump trucks would be used to remove excess material and bring in backfill, as needed. In wet conditions or if groundwater is encountered during excavation, pumping (vacuum) trucks or other suitable equipment would be used to pump water from the excavated areas. The water then would be discharged in accordance with applicable local, state, and federal requirements.

Structure Assembly/Installation

Structure sections and associated hardware would be delivered using trucks and/or tractor trailers and would be stored at the staging area until delivered to individual work/structure sites. The sections would be assembled and installed with a crane. Insulators and connecting hardware would be installed on most structures at this time.

Conductor Installation

Installation of overhead line conductors and OPGW would require the use of special pulling and tensioning equipment. This equipment would be positioned at a pre-determined pulling location which has been identified in the maps provided in Attachment A. Helicopters may be used to install the initial pulling lines at the commencement of the conductor/shield wire pulling process.

Structure Dismantling and Removal

Following the construction of the new structures and conductor of the repositioned line, the 19 existing structures will be dismantled and removed from the ROW. The existing foundations would be cut to ground level.

Restoration

Restoration activities would include the removal of construction debris, signs, flagging, and fencing, as well as the removal of all work pads. Structure work pads in uplands would be left in place, unless directed to be removed by the landowner. Disturbed areas would be re-graded, as practical, and stabilized using revegetation or other measures before removing temporary E&S controls.

Waste Management

After removal, the existing structures, conductor and associated equipment, the 115-kV electrical accessories and decommissioned structure components (i.e., wood and steel H-Frame structures, conductor, associated hardware, etc.) and any other construction debris would be disposed of in accordance with Eversource's BMPs, applicable regulations and disposal facility policies and recycled as metal consistent with governing rules and regulations and Eversource procedures.

Noise

During construction, any impacts to existing noise levels would be short-term and localized in the vicinity of the work sites.

6. Electric and Magnetic Fields

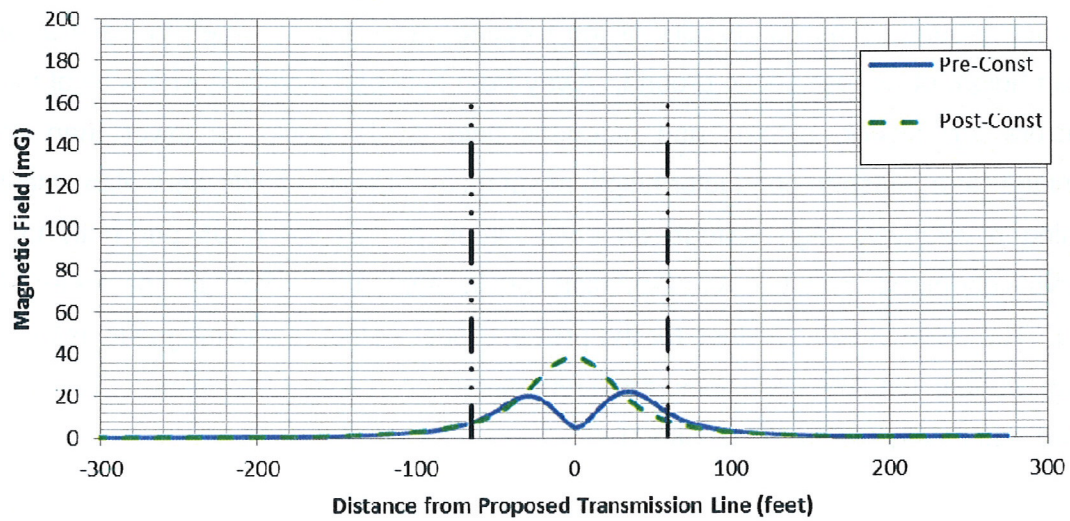
Electric and magnetic field levels following the proposed line modifications are expected to remain similar to those produced by the existing transmission lines. Eversource's proposed design for the Project is a horizontal configuration of three phase conductors supported on steel H-frames. During Annual Average Load ("AAL") conditions, the magnetic field level would be slightly reduced along the ROW edges and slightly increased within the ROW. Electric fields would also be slightly reduced at the edges of the ROW.

Inputs for all of the magnetic field calculations included the current from each circuit derived from the power-flow model, the circuit phasing, and the typical midspan line height on the ROW. The conductors of the new line were assumed to have a typical midspan height of 30 feet above ground. The conductors of the existing line were assumed to have a typical midspan height of 25 feet above ground. Away from midspan locations where all of the line conductors are higher, electric and magnetic field levels would be lower than values determined for a midspan conductor height assumption. Electric fields were also calculated assuming a relatively high voltage on each circuit of 121 kV (1.05 per unit) to yield conservatively higher results. All calculation results apply to a height of one meter above ground. The edge of ROW values for the pre- and post - electric and magnetic fields under average annual loading conditions are summarized in Table E-1 Below. This is also depicted graphically in Figures E-1 and E-2.

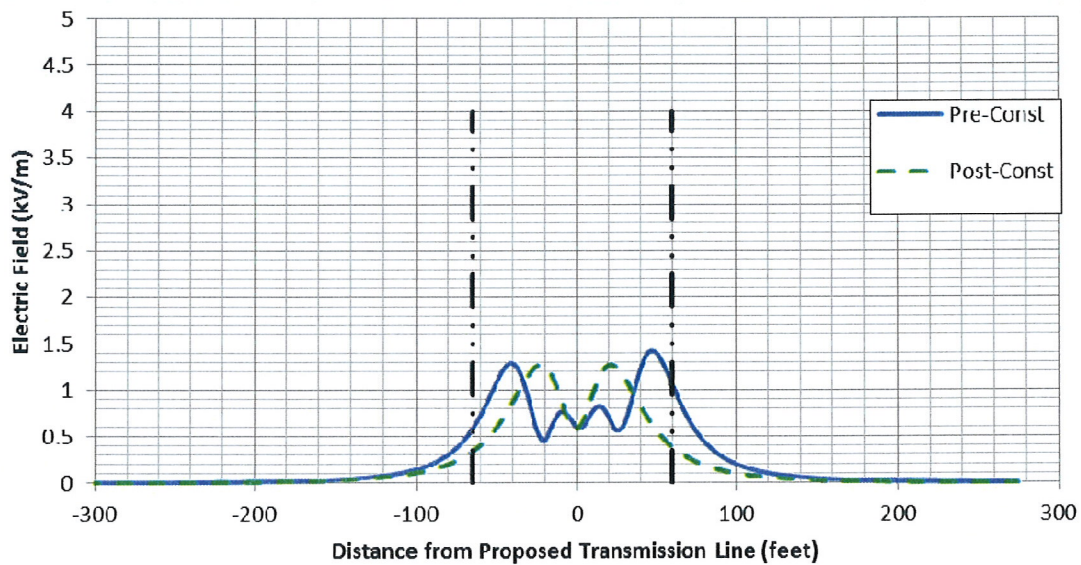
Table E- 1 Summary of Magnetic and Electric Field Calculations

<i>EMF Information</i>					
Units		ROW Edge	South Edge	Maximum within ROW	North Edge
Electric Field	kV/m	Pre-Project	0.57	1.41	1.08
		Post Project	0.33	1.27	0.4
Magnetic Field (AAL)	mG	Pre-Project	7.53	22.22	12.52
		Post Project	7.41	38.75	8.51

Calculated Magnetic Fields 1975 Line Rebuild (Average Annual Load)



Calculated Electric Fields 1975 Line Rebuild



7. Municipal and Property Owner Outreach

Eversource met with Town officials in Durham, Middletown and Middlefield to brief them on the proposed Project. The municipal officials were also notified that Eversource was contacting abutting property owners in advance of the Petition filing to explain the scope of work and respond to any questions or concerns. Property owners were contacted in October 2015. Four on-site meetings were held in October through early November and one phone meeting took place with a property owner that resides in Massachusetts. Most property owners were understanding of the Project and appreciative of Eversource's efforts to proactively communicate the scope of work.

8. Construction

Eversource proposes to begin construction during the summer 2016 and expects that the construction would be completed in November 2016. Normal working hours would be Monday through Saturday from 7:00 AM to 7:00 PM. Sunday working hours may be required during transmission line outages. Multiple crews may work concurrently on different sections of the line

9. Conclusion

Eversource respectfully submits that the Project would not have a "substantial adverse environmental effect" and, therefore, does not require a certificate of environmental compatibility and public need pursuant to Conn. Gen. Stat. § 16-50k(a). In summary:

- The proposed transmission structure replacement and line work would be constructed entirely within Eversource's existing ROW.
- Only existing access roads would be used for the construction of the Project.
- The overall visual effect of the Project would be mitigated by replacing 19 structures (13 wood structures and 6 steel structures) with 5 steel structures within the existing ROW.
- Temporary wetland impacts of approximately 0.49 acres would be limited to the use of temporary construction mats located within the maintained ROW.

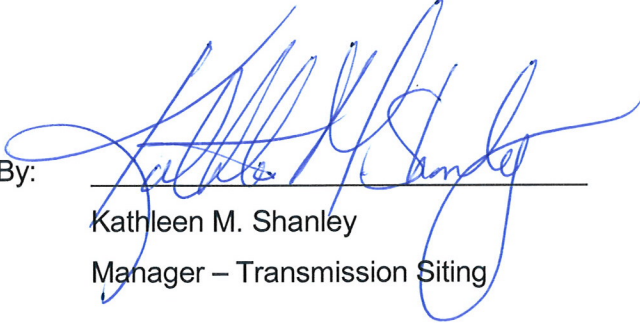
- Electric and magnetic field levels following the proposed line modifications are expected to remain similar to those produced by the existing transmission lines.

10. 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 would 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.

11. 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

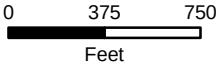
- Attachment A: 1975 Line Rebuild Project Maps
Attachment B: Cross Section
Attachment C: Representative Photographs
Attachment D: Letter to the Abutters and Affidavit

ATTACHMENT A

1975 TRANSMISSION LINE
REBUILD PROJECT



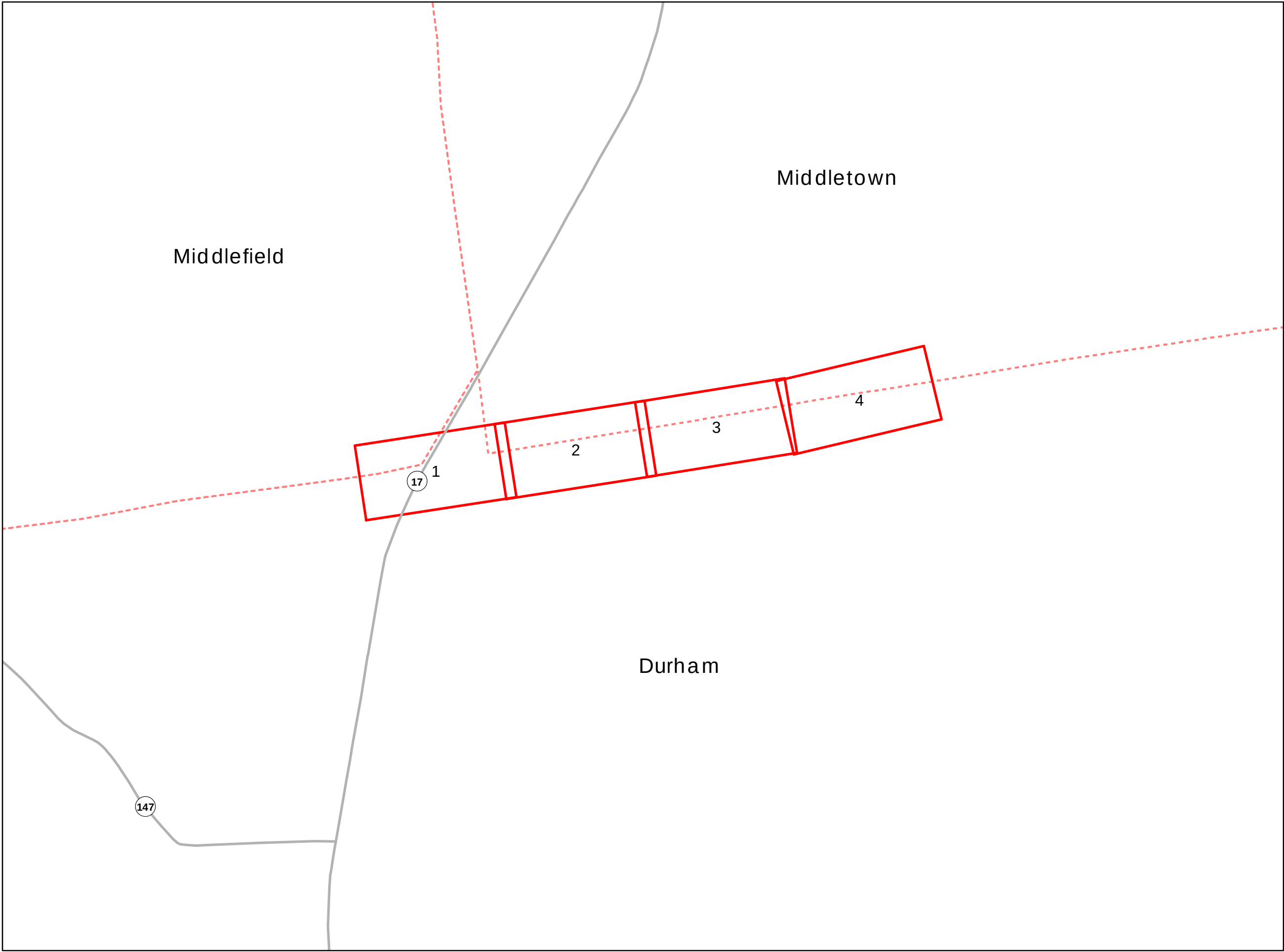
INDEX SHEET



Legend

- State Route
- Sheet Index
- Town Boundary

Map Sources: Connecticut Department of Energy and Environmental Protection (CT DEEP); Eversource Energy.



Line List Number	Owner Name	Site Address
100	PURCELL MICHAEL W & CARRIE S	11 ACORN DRIVE, MIDDLETOWN, CT
101	BRENNAN JENNIFER B & KEVIN C	25 ACORN DRIVE, MIDDLETOWN, CT
126	ADAMS RAYMOND M	10 PACKING HOUSE HILL ROAD, DURHAM, CT
127	KIRK PHILLIP R JR	11 PACKING HOUSE HILL ROAD, DURHAM, CT
128	-- NO INFORMATION --	-- NO INFORMATION --
129	MECHACHONIS GERALDINE B	15 PACKING HOUSE HILL ROAD, DURHAM, CT
130	PEARSON KEN O + MARILYN HART	27 PACKING HOUSE HILL ROAD, DURHAM, CT
131	JOHN T MOSS ESTATE OF JOHN MOSS	514 MAIN STREET, DURHAM, CT

Area Description

Adjacent Land Use

- Agricultural/hay/pasture
- Undeveloped, forested, wetland
- Residential

Road Crossings

- Little Lane
- State Route 17
- Packinghouse Hill Road

Right-of-Way Description

Right-of-Way Land Use

- Maintained Electric Transmission Facilities Corridor
- Residential/lawn

Wetlands, Watercourses, and Waterbodies

- Wetlands: D
- Vernal Pools: None
- Wetland Classification: PFO

Wetland and Watercourse Crossing

- D— construction mats for access

Vegetation on Transmission Corridor

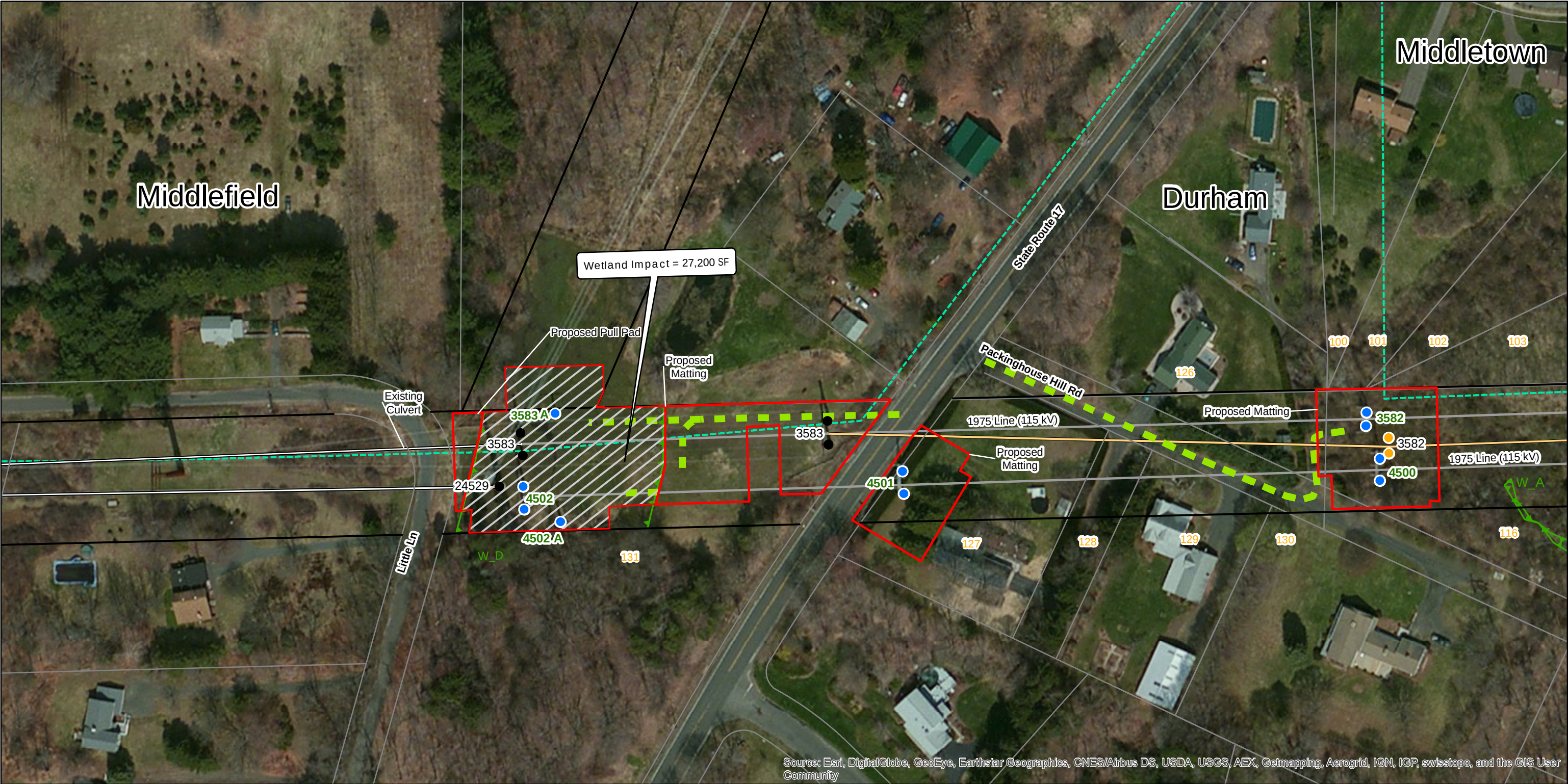
- Evergreen Forest
- Mixed Forest
- Scrub Shrub
- Lawn/Grassland

Access

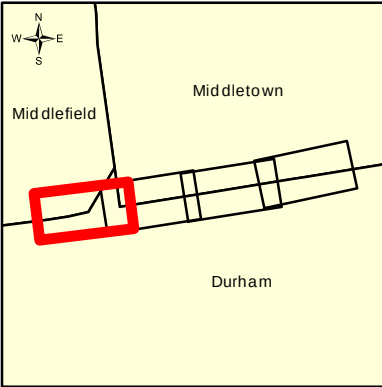
- Structures 3583A, 4502, 4502A, 4501: Existing ROW access off State Route 17
- Structures 3582, 4500: Existing ROW access off Packinghouse Hill Road

Right-of-Way Width

- Utility ROW is approximately 125 ft

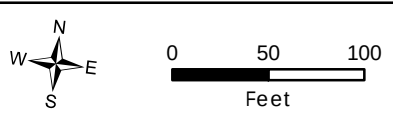


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



- Legend**
- Proposed Structures
 - Existing Structures to Remain
 - Existing Structures to be Removed
 - Existing Transmission Line to be Removed
 - Existing Transmission Line to Remain
 - Proposed Transmission Line
 - Wetland Boundary
 - Proposed Work Pad/Pull Pad
 - Proposed Staging Area
 - Approximate Utility Rights of Way
 - Existing Access Road
 - Town Line Boundary
 - Eversource Property Boundary
 - Parcel Boundary
 - Existing Swale
 - Wetland Impact Area

- Map Labels**
- 100 Line List ID
 - W_00 Wetland ID



1975 TRANSMISSION LINE REBUILD PROJECT

EVERSOURCE ENERGY

LINE 1975

SHEET 1

Line List Number	Owner Name	Site Address
100	PURCELL MICHAEL W & CARRIE S	11 ACORN DRIVE, MIDDLETOWN, CT
101	BRENNAN JENNIFER B & KEVIN C	25 ACORN DRIVE, MIDDLETOWN, CT
102	ANNINO JOHN L III & SACHSE SALLY	11 IRONWOOD LANE, MIDDLETOWN, CT
103	SUPERNAULT SHANNON A	29 IRONWOOD LANE, MIDDLETOWN, CT
104	BOWE RICHARD T & MILARDO JANICE L	34 IRONWOOD LANE, MIDDLETOWN, CT
105	JOSHUA RAYMOND R & CRYSTAL	37 ASH COURT, MIDDLETOWN, CT
116	DURHAM, TOWN OF	IRONWOOD LANE, DURHAM, CT
117	BRADLEY, PATRICIA	47 IRONWOOD LANE, DURHAM, CT
118	GILLES PLANTE REVOC TRUST THE C/O GILLES PLANTE TRUSTEE	44 IRONWOOD LANE, DURHAM, CT
119	GIBB ERIC C & MEGAN R	30 EVERGREEN TERRACE, DURHAM, CT
120	PENDER PAUL	35 EVERGREEN TERRACE, DURHAM, CT
126	ADAMS RAYMOND M	10 PACKING HOUSE HILL ROAD, DURHAM, CT
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Area Description

Adjacent Land Use

- Undeveloped, forested
- Residential

Road Crossings

- State Route 17
- Packinghouse Hill Road
- Ironwood Lane

Right-of-Way Description

Right-of-Way Land Use

- Maintained Electric Transmission Facilities Corridor
- Residential

Wetlands, Watercourses, and Waterbodies

- Wetlands: A
- Vernal Pools: None
- Wetland Classification: PFO1E

Wetland and Watercourse Crossing

- No wetland crossing

Vegetation on Transmission Corridor

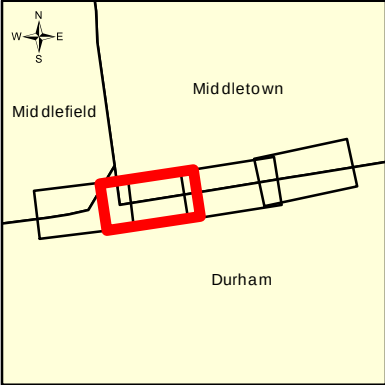
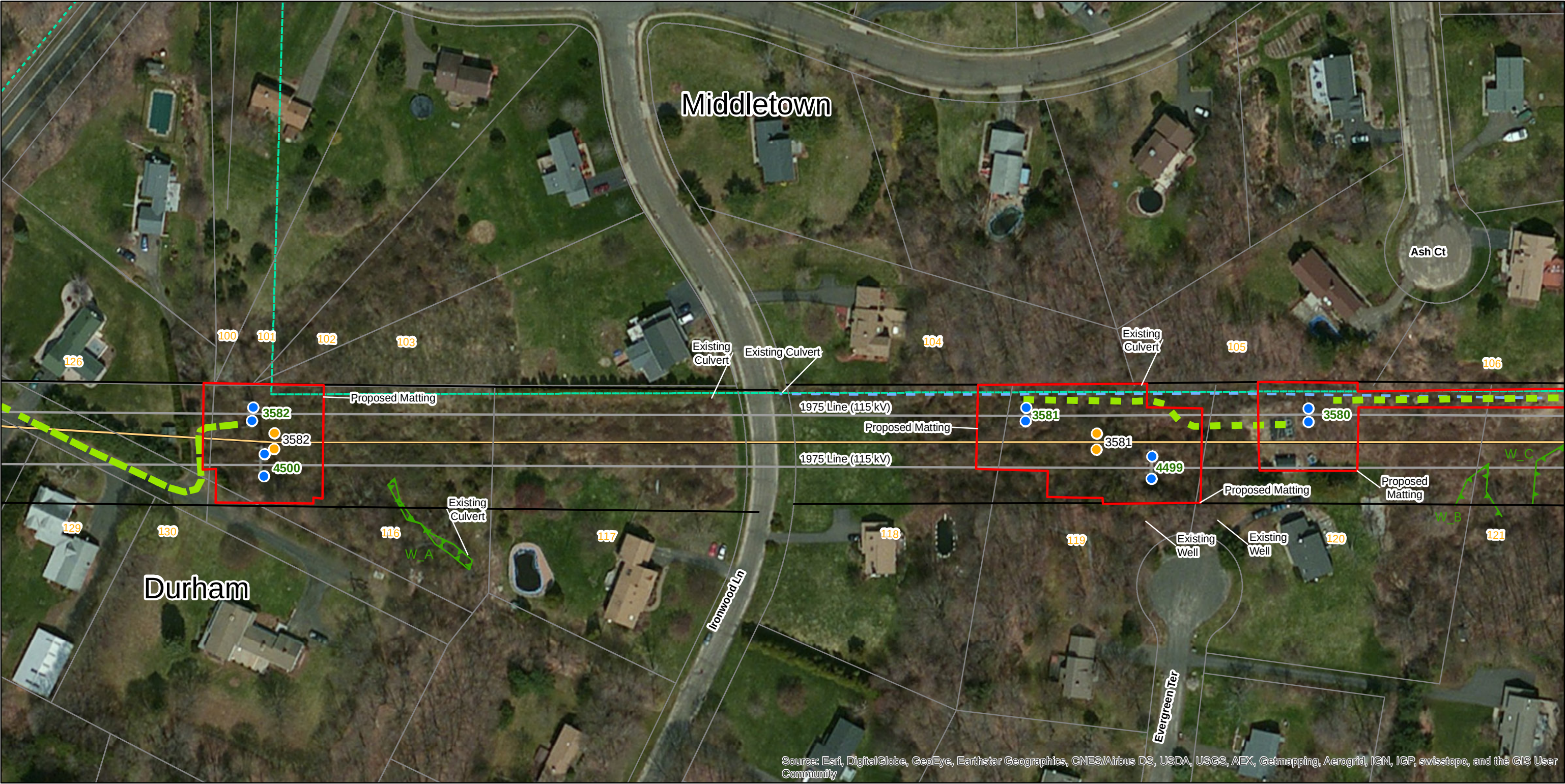
- Scrub Shrub
- Deciduous Forest
- Lawn/Grassland

Access

- Structures 3582, 4500: Existing ROW access off Packinghouse Hill Road
- Structures 3581, 4499, 3580: Existing ROW access off Black Walnut Drive (Page 3)

Right-of-Way Width

- Utility ROW is approximately 125 ft



Legend

- Proposed Structures
- Existing Structures to Remain
- Existing Structures to be Removed
- Existing Transmission Line to be Removed
- Existing Transmission Line to Remain

- Proposed Transmission Line
- Wetland Boundary
- Proposed Work Pad/Pull Pad
- Proposed Staging Area
- Approximate Utility Rights of Way

- Existing Access Road
- Town Line Boundary
- Eversource Property Boundary
- Parcel Boundary
- Existing Swale
- Wetland Impact Area

Map Labels

- 100 Line List ID
- W_00 Wetland ID

EVERSOURCE ENERGY

GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

1975 TRANSMISSION
LINE REBUILD PROJECT

EVERSOURCE ENERGY

LINE 1975

SHEET 2

Line List Number	Owner Name	Site Address
105	JOSHUA RAYMOND R & CRYSTAL	37 ASH COURT, MIDDLETOWN, CT
106	MARINO JOSEPH D & DONNA K	38 ASH COURT, MIDDLETOWN, CT
107	TREDWELL TIMOTHY S & KATE J	49 BLACK WALNUT DRIVE, MIDDLETOWN, CT
108	STOUFFER MARK & LAURA L	50 BLACK WALNUT DRIVE, MIDDLETOWN, CT
109	GAUDREAU STEVE & MICHELLE	35 HOLLY LANE, MIDDLETOWN, CT
110	CRAMER ABBY H	59 HOLLY LANE, MIDDLETOWN, CT
111	BROWN MARK	75 HOLLY LANE, MIDDLETOWN, CT
120	PENDER PAUL	35 EVERGREEN TERRACE, DURHAM, CT
121	RAM ALLAN S + HEATHER D	29R EVERGREEN TERRACE, DURHAM, CT
122	TAYLOR MICHAEL L + MONIQUE B	63 BLACK WALNUT DRIVE, DURHAM, CT
123	PIETRUSKA GERTRUD TRUST	58 BLACK WALNUT DRIVE, DURHAM, CT
124	GANTZ DEBORAH B	222 HADDAM QUARTER ROAD, DURHAM, CT
125	WILSON LINDA D + WILSON RALPH E TRUSTEE	HEMLOCK COURT, DURHAM, CT

Area Description

Adjacent Land Use

- Undeveloped, forested, scrub-shrub
- Residential

Road Crossings

- Black Walnut Drive

Right-of-Way Description

Right-of-Way Land Use

- Maintained Electric Transmission Facilities Corridor
- Residential

Wetlands, Watercourses, and Waterbodies

- Wetlands: B, C
- Vernal Pools: None
- Wetland Classification: PSS1E/PFO1E

Wetland and Watercourse Crossing

- No wetland crossing

Vegetation on Transmission Corridor

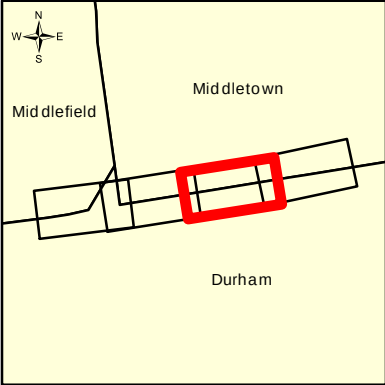
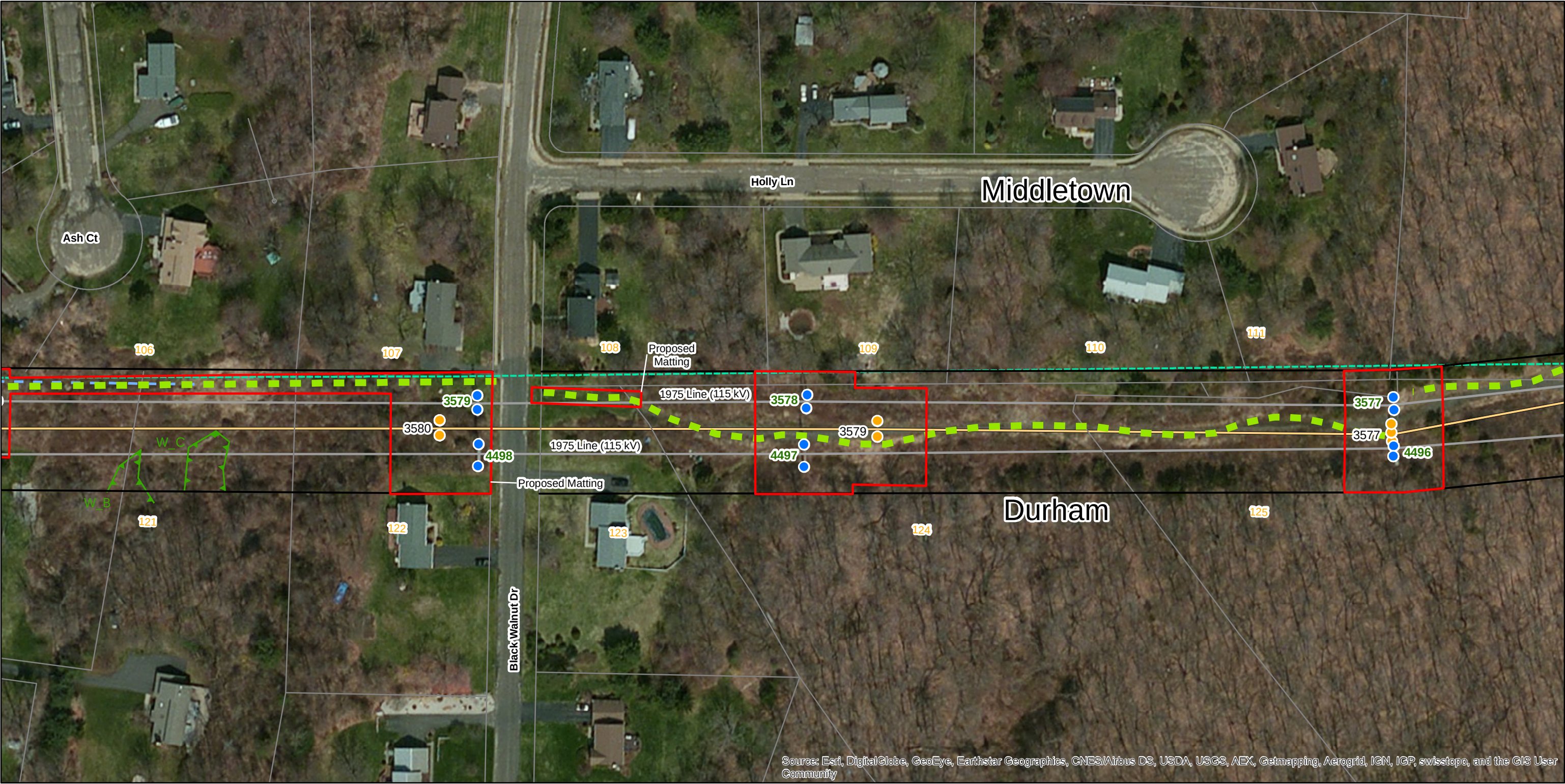
- Deciduous Forest
- Scrub Shrub
- Lawn/Grassland

Access

- Structures 3580, 3579, 4498, 3578, 3579, 4497, 3577, 4496: Existing ROW access off Black Walnut Drive

Right-of-Way Width

- Utility ROW is approximately 125 ft

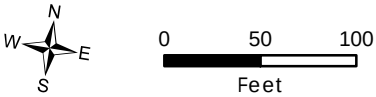


Legend

- | | | |
|--|-------------------------------------|--------------------------------|
| ● Proposed Structures | — Proposed Transmission Line | — Existing Access Road |
| ● Existing Structures to Remain | — Wetland Boundary | — Town Line Boundary |
| ● Existing Structures to be Removed | — Proposed Work Pad/Pull Pad | — Eversource Property Boundary |
| — Existing Transmission Line to be Removed | — Proposed Staging Area | — Parcel Boundary |
| — Existing Transmission Line to Remain | — Approximate Utility Rights of Way | — Existing Swale |
| | | — Wetland Impact Area |

Map Labels

- 100 Line List ID
W_00 Wetland ID



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1975 TRANSMISSION
LINE REBUILD PROJECT

EVERSOURCE ENERGY

LINE 1975

SHEET 3

Line List Number	Owner Name	Site Address
111	BROWN MARK	75 HOLLY LANE, MIDDLETOWN, CT
115	BARONE AL J & CYNTHIA A	224 TALCOTT RIDGE DRIVE, MIDDLETOWN, CT
125	WILSON LINDA D + WILSON RALPH E TRUSTEE	HEMLOCK COURT, DURHAM, CT

Area Description

Adjacent Land Use

- Undeveloped, forested

Road Crossings

- No road crossings

Right-of-Way Description

Right-of-Way Land Use

- Maintained Electric Transmission Facilities Corridor

Wetlands, Watercourses, and Waterbodies

- Wetlands: None
- Vernal Pools: None
- Wetland Classification: N/A

Wetland and Watercourse Crossing

- No wetland crossing

Vegetation on Transmission Corridor

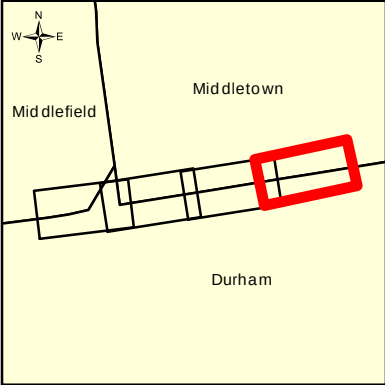
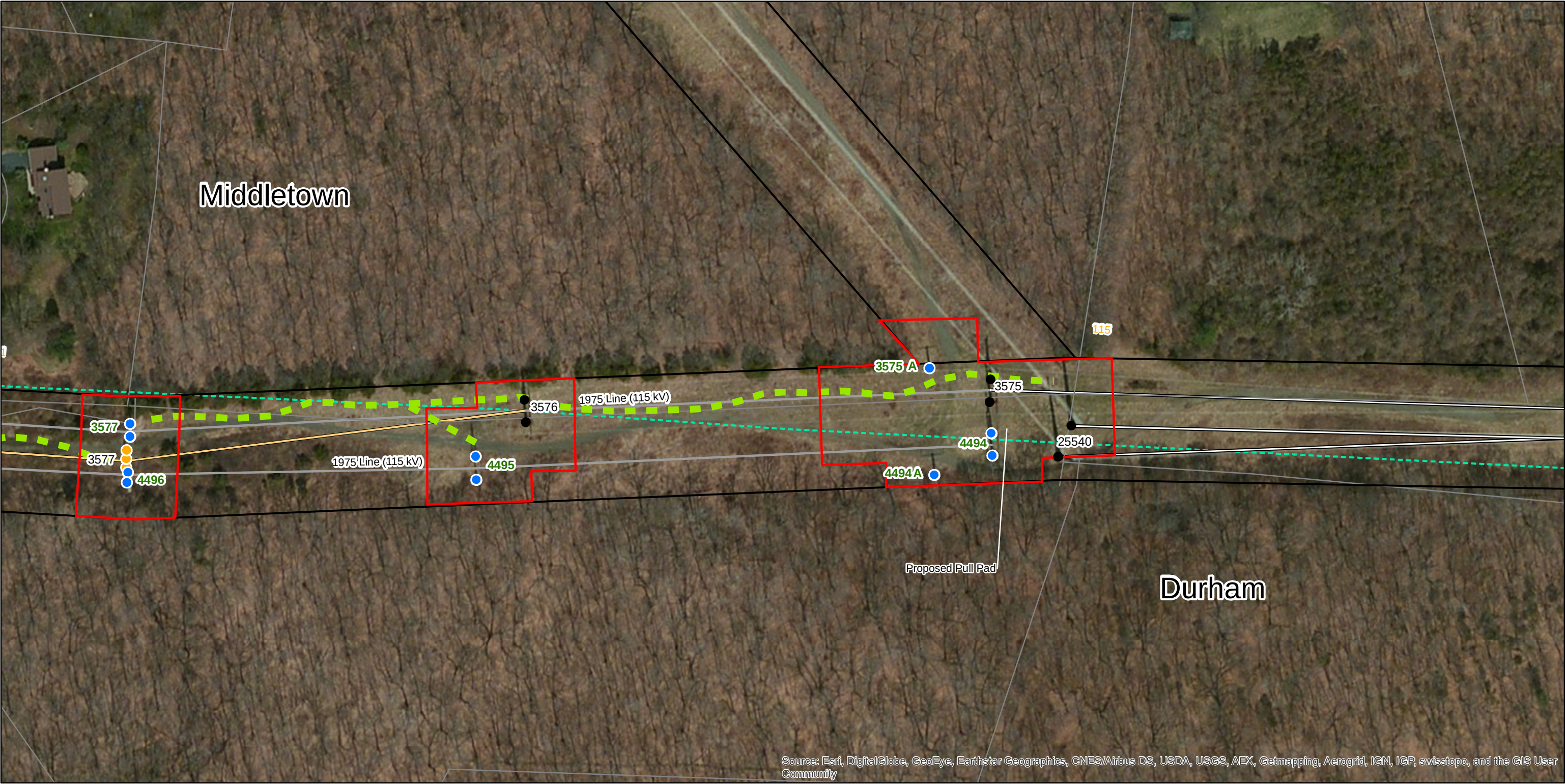
- Deciduous Forest
- Scrub Shrub

Access

- Structures 3577, 4496, 4495, 3576, 3575A, 4494, 4494A: Existing ROW access off Black Walnut Drive (Page 3)

Right-of-Way Width

- Utility ROW is approximately 125 ft



Legend

● Proposed Structures	— Proposed Transmission Line	■ Existing Access Road
● Existing Structures to Remain	— Wetland Boundary	--- Town Line Boundary
● Existing Structures to be Removed	□ Proposed Work Pad/Pull Pad	--- Eversource Property Boundary
— Existing Transmission Line to be Removed	□ Proposed Staging Area	□ Parcel Boundary
— Existing Transmission Line to Remain	— Approximate Utility Rights of Way	--- Existing Swale
		▨ Wetland Impact Area

Map Labels

100	Line List ID
W_00	Wetland ID

EVERSOURCE ENERGY

1975 TRANSMISSION
LINE REBUILD PROJECT

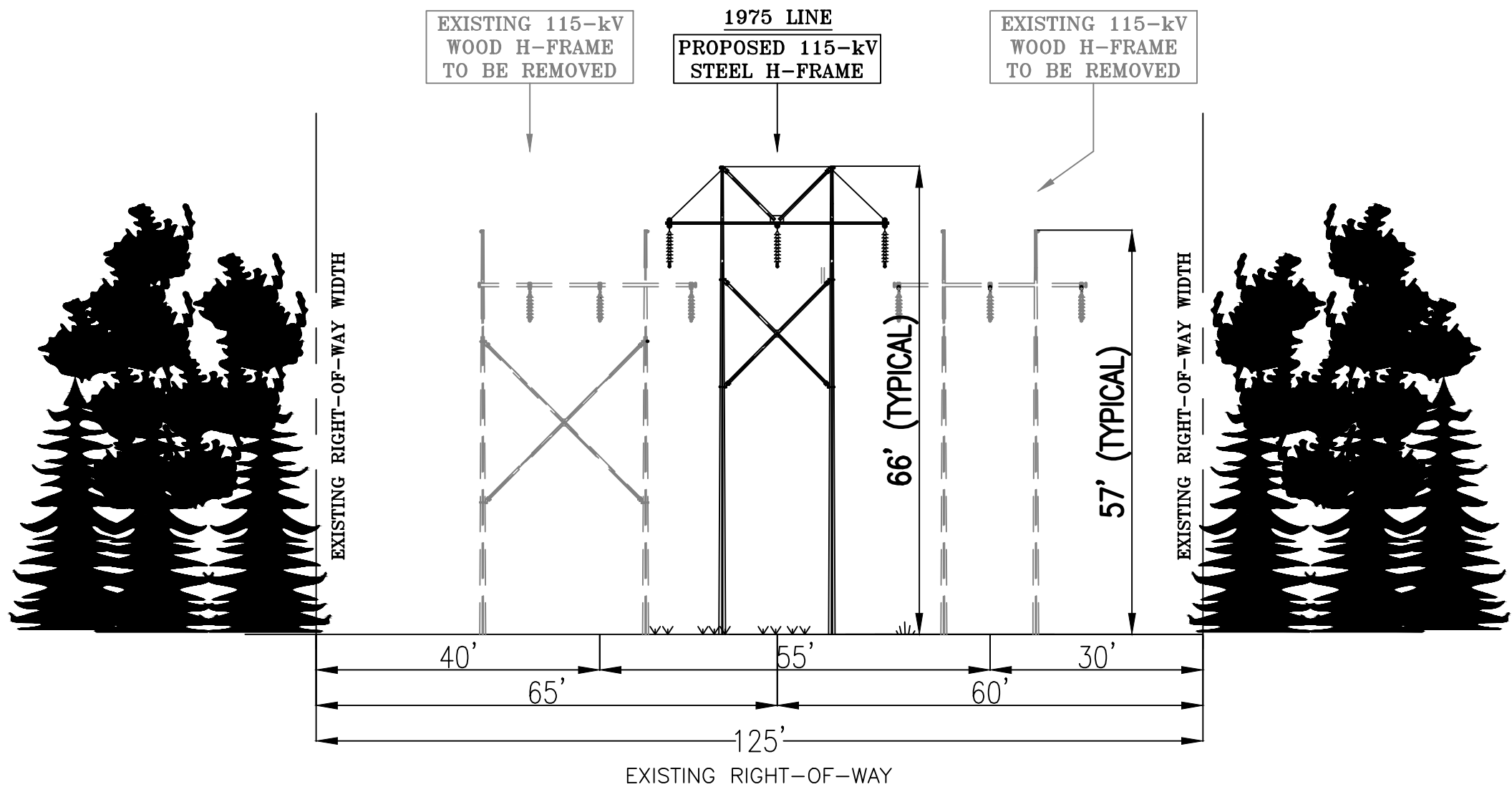
EVERSOURCE ENERGY

LINE 1975

SHEET 4

ATTACHMENT B

2/26/2016 11:42 AM - sodercp - C:\Users\sodercp\appdata\local\temp\AcPublish_2536...\01043-85001_Middle.dwg - B Size-Construction-ALLES VER: 05/2015



LOOKING WEST
FROM OXBOW JCT
TOWARDS BESECK S/S
IN THE TOWNS OF DURHAM AND MIDDLETOWN

EVERSOURCE
ENERGY

TITLE 1975 LINE STRUCTURE REPLACEMENT 115-kV TRANSMISSION LINE ROW CROSS SECTION DURHAM/MIDDLETOWN, CT			
BY CPS	CHKD	APP	APP CPS
DATE 5/26/2015	DATE	DATE	DATE 11/23/2015
H-SCALE N.T.S.	SIZE B	FIELD BOOK & PAGES	
V-SCALE N.T.S.	V.S.	R.E. DWG	
R.E. PROJ. NUMBER 40444101		DWG NO. 01043-85001	

ATTACHMENT C

ATTACHMENT C: REPRESENTATIVE PHOTOGRAPHS

The following photographs depict conditions of the 1975 line structures which are representative of the deteriorating nature of the aging structures.



Figure H- 1 Pole-Top Condition



Figure H- 2 Pole-Top and Hardware Condition



Figure H- 3 Pole and Cross Arm Condition



Figure H- 4 Pole and Cross Arm Hardware



Figure H- 5 Pole-Top Hardware Condition

ATTACHMENT D

April 5, 2016

Dear Neighbor,

This letter is to inform you of the proposed electric system upgrade in your area.

Eversource is submitting a petition to the Connecticut Siting Council (CSC) on April 7, 2016 to upgrade approximately 0.8 miles of an existing transmission line in Durham, Middlefield, and Middletown. The upgrade is necessary to ensure the continued reliability of this transmission line. The scope of the proposed work includes:

- Removal of 13 wood structures and five steel structures and their associated hardware.
- Installation of five new, weathering steel structures, which include new insulators and hardware
- Installation of new optical ground wire (OPGW) on the new structures

Pending the CSC approval of the transmission line upgrade, the work is scheduled to begin in early summer 2016, with restoration to be completed by November, 2016. This schedule is subject to change due to weather delays or other circumstances.

If approved, the line upgrade work will be taking place on the Eversource right-of-way that is on or bordering your property. The construction work is likely to involve vegetation removal, improvement of existing access roads, and preparations for setting up safe working conditions around structures and wire-pulling locations. A helicopter may be used if deemed necessary.

If you would like to send comments or concerns regarding Eversource's petition to the CSC, please send them via e-mail to siting.council@ct.gov or a letter to the following address:

Melanie Bachman, Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

For more information about this Project, please call the Eversource Transmission Information Line at 1-800-793-2202, or send an email to TransmissionInfo@eversource.com.

Sincerely,

Branden

Branden Reid
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 proposed modifications of The Connecticut Light and Power Company doing business as Eversource Energy to be served by mail or courier upon the following municipal officials:

- Daniel Dew, Mayor
Citi Hall
245 DeKoven Drive
Middletown, CT 06457
- Laura Francis, First Selectman
30 Town House Rd,
Durham, CT 06422
- Edward Bailey, First Selectman
393 Jackson Hill Rd.
Middlefield, CT 06455

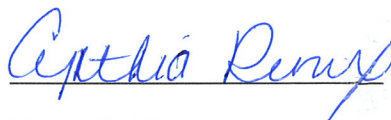
I also certify that I caused notice of the proposed modifications to be served by mail or courier upon 37 owners of abutting properties shown on the maps in Attachment A to the Petition.



Branden Reid
Project Manager

On this the 05th day of April, 2016, before me, the undersigned representative, personally appeared, Branden Reid, known to me (or satisfactorily proven) to be the person whose name is subscribed to the foregoing instrument and acknowledged that he executed the same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.



Notary Public
My Commission expires:

CYNTHIA L. RIOUX
NOTARY PUBLIC
State of Connecticut
My Commission Expires
June 30, 2016