



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

Kathleen M. Shanley

Manager – Transmission Siting
Tel: (860) 728-4527

March 27, 2019

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

Re: Petition 1286: West Brookfield Reliability Project
Petition Amendment

Dear Ms. Bachman:

The Connecticut Light and Power Company doing business as Eversource Energy (Eversource) submitted a Petition on January 13, 2017 to the Connecticut Siting Council (Council) requesting a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need be required for the proposed modifications to approximately 1.4 miles of the 115-kilovolt (kV) 1887 Line, located in Brookfield, Connecticut (Project). On March 20, 2017, the Council issued the declaratory ruling requested in the above-referenced Petition and found that the proposed modifications to the 1887 Line would not have a substantial adverse environmental effect.

After the Council's favorable ruling on the Petition, and prior to the commencement of the line modifications, Eversource has determined that, based upon further field assessments, a number of the structures should be replaced. Eversource now seeks Council staff approval of the proposed additional changes to the Petition, as more fully described in the attached Amendment.

Eversource has notified the Town of Brookfield's representatives of the proposed Project modifications in the Amendment and has provided abutters with written notice of this submission. Eversource submits an original and 15 copies of this request. Should you have any questions regarding this submission, please do not hesitate to contact me at via email at kathleen.shanley@eversource.com or telephone at 860-728-4527.

Sincerely,

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

Enclosure: Amendment

cc: Honorable Stephen Dunn, First Selectman, Town of Brookfield
Ralph Tedesco, Director of Public Works, Town of Brookfield

**THE CONNECTICUT LIGHT AND POWER COMPANY
doing business as
EVERSOURCE ENERGY**

**AMENDMENT TO PETITION NO. 1286
PROPOSED MODIFICATIONS TO THE
EXISTING 1887 LINE
Town of Brookfield, Connecticut**

On January 13, 2017, The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource") filed a petition with the Connecticut Siting Council ("Council") requesting a declaratory ruling that a Certificate of Environmental Compatibility and Public Need was not needed for proposed modifications to a 115-kV transmission line in Brookfield, Connecticut, because the proposed activities would not result in substantial adverse environmental effects ("Petition No. 1286 or the "Petition"). The approved modifications to the the 1887 Line, a 115 killovolt ("kV") line, to meet reliability criteria generally consisted of replacing an existing structure, removing an existing structure, reconductoring replacing shield wire with optical ground wire ("OPGW") and reinforcing certain structures with weathering steel cross bracing, cross-arms, and new guy anchors and wires the "Project"). On March 20, 2017, the Council issued the declaratory ruling requested in the above-referenced Petition and found that the proposed modifications to the 1887 Line would not have a substantial adverse environmental effect.

Specific activities associated with the transmission line modifications included:

- installing sedimentation and erosion controls;
- clearing and removing vegetation;
- improving existing access roads and work pads;
- constructing new access roads and work pads;
- installing temporary construction matting in wetlands to avoid permanent impacts;

- constructing work pads for conductor pulling equipment;
- assembling and erecting one replacement structure;
- removing an existing wood three-pole dead end structure;
- installing reinforcing cross-bracing (on 10 structures), replacing guy wires (on 1 structure), installation of guy insulator (on 1 structure) and replacing existing pole top cable tie with steel angle tie (on 1 structure);
- installing new conductors and OPGW; and
- restoring disturbed areas.

After the Council's favorable ruling on the Petition, and prior to the commencement of construction, Eversource has determined that, based upon further field assessments, a number of structures should be replaced. In this section of the right-of-way ("ROW") the 1887 Line is co-located with the 1618 Line on some double circuit structures, a 115-kV Line. As the configuration and heights of the needed structure replacements restrict the ability to simply relocate the 1618 Line onto the new structures¹, reconductoring of the 1618 Line is also proposed. Accordingly, Eversource is submitting this amendment to the Petition ("Amendment") seeking approval for the following changes:

- Replacement of Structures: 10 structures which were approved for reinforcement under the Petition, have now been determined to be in need of replacement due to asset condition.
- Structure 2689 which was proposed to be removed and not replaced under the Petition is now proposed to be replaced with a new structure to be located approximately 644 feet southeast of the existing structure. This amount of shift is required to meet conductor to ground clearances on the steep slope in this area of the ROW.

¹ Due to the design and height of the replacement structures, Line 1618 would need multiple splices to "stretch" the additional length needed to attach to the new structures.

- Installation of a new Structure 2697, which is needed to maintain conductor blowout clearances between Structure 2696 and West Brookfield Substation
- Reconductoring of the 1618 Line: The 1618 Line is located on some of the same structures as the 1887 Line in this portion of the ROW. Due to the proposed vertical structure configuration to replace the existing horizontal structure configuration, in order to meet clearance requirements, the existing 1618 conductor and OPGW cannot be transferred to the new double circuit structures without splicing additional conductor and OPGW. Reconductoring and replacing the OPGW on this section of the 1618 line is a less expensive alternative, will not impact the construction schedule and adheres to engineering best utility practices instead of having splices inserted in every span of the existing 50 year old conductor and multiple splices in the OPGW.

Because the approved Project under Petition No. 1286 required the installation of access roads and work pads, the requested additional work summarized above will result in minimally incremental environmental effects and will not result in substantial adverse environmental effects.

Proposed Amendments to Approved Scope of Work – Structure Replacements

The proposed additional modifications subject of this Amendment consist of replacing wood 3-pole structures with weathering steel single pole structures. Since the original structures were erected, applicable regulations and codes have changed with respect to horizontal conductor blowout and more conservative vertical clearance requirements. The height increases associated with the replacement structures are required to comply with the 2017 National Electric Safety Code (“NESC”) and Eversource’s updated Overhead Transmission Line Standards, which are more stringent than the code requirements that were in effect at the time of the original design and construction of the 1887/1618 Lines.

The revised maps can be found in Attachment A, “West Brookfield Reliability Project Environmental Resource Maps” dated February 28, 2019. The cross section drawings in Attachment B depict views along the right-of-way of the existing and proposed typical structures.

Attachment C contains a list of all the structures to be replaced identifying the existing structure heights and the heights of the new replacement structures. The new structures will range in height

from seventy-nine feet to one hundred and fifty one feet. The two new structures proposed to have a height of one hundred and fifty one feet are Structures 2690 and 2690A . While the height of the existing Structures 2690 and 2690A are 56.5 feet and 65.6 feet respectively, the vertical configuration of the conductors on the replacement structures and location of these replacement structures on an extremely steep slope require the proposed heights in order to achieve the required conductor to ground clearances.

The increases in structure heights are not anticipated to result in a significant change in the existing visual characteristics of the transmission corridor. Changes in the visual effect attributable to the replacement structures will be mitigated by aligning the replacement structures in the same general location as the existing structures.

The proposed modifications would not substantially change environmental effects and mitigation measures, construction procedures, or construction sequencing described previously in the Petition. Eversource would perform the 1887 and 1618 Line modification work in accordance with its *Best Management Practices Manual for Massachusetts and Connecticut (Construction and Maintenance Environmental Requirements)*, September 2016 (2016 BMP Manual), as well as with the regulatory approvals from the U.S. Army Corps of Engineers (Clean Water Act, Section 404 permit), the Connecticut Department of Energy and Environmental Protection NDDB and permits from the Connecticut Department of Transportation for work in state roads and state road crossings. Eversource will construct the 1887 and 1618 Line modifications in accordance with the conditions of these approvals, as well as any additional conditions the Council may impose.

Access Roads and Work/Pull Pads

The number and location of access roads has been modified, primarily due to adding off ROW alternative access roads to Structures 2695, 2695A, 2697 and 2683. In addition, many of the access roads are now proposed to have temporary construction matting instead of temporary gravel.

The number and configuration of work/pull pads has also changed, due primarily to (i) the addition of a new pull pad to the east of the West Brookfield Substation, (ii) a new work pad for the installation of the new Structure 2689 and (iii) the reconfiguration and increase in size of the work/pull pad at Structure 2682. As with the access roads discussed above, most of the work pads are now proposed to be revised from permanent gravel to temporary matting.

Due to the challenging and rocky terrain, the Project may need to consider using blasting to facilitate access road and work pad construction. Should the Project determine that blasting is required, the Project will conduct the blasting activity in accordance with all applicable regulations and will develop a blasting plan for submittal to the Council for its approval prior to commencing the work.

Impacts to resource areas are discussed below.

Wetland Impacts

The temporary wetland impacts associated with the original work described in the Petition (construction mats for access roads and work pads) have not substantially changed with the expanded scope of work proposed in this Amendment. There is a net increase of 3,110 square feet of temporary wetland impacts due to additional temporary matting in Wetland 1 for the work pad to install Structure 2697 and in Wetland 5 for the work pad to install Structure 2690. These additional temporary impacts have been slightly offset by a reduction in the amount of temporary matting in Wetland 2 adjacent to the work pad for Structures 2695 and 2695A, as a result of optimizing the wetland crossing location to further reduce impacts. The Project work will continue to result in no permanent wetland impacts.

Wildlife and Habitat Areas

Eversource reviewed the CT DEEP's Natural Diversity Data Base ("NDDB") and identified state-listed endangered, threatened, or special concern species polygons in the vicinity of work activities. Eversource has consulted with the CT DEEP Wildlife Division through an information request and received a preliminary assessment (NDDB No. 201807598) that identified four (4) state-listed rare plants and two (2) turtles that are known populations that occur within the proposed work area. The NDDB requested that a botanist be retained by Eversource to survey for the four state-listed plants and develop protection measures that would be implemented to keep these plants from adverse impacts. These recommendations will be incorporated into Eversource's project-specific BMPs relative to the listed species. Eversource is working with NDDB on survey protocols, reporting and NDDB reviews. The surveys are scheduled to commence in spring 2019. In addition to coordinating with the NDDB for state-listed species, Eversource is consulting with the CT DEEP and with the U.S. Fish and Wildlife Service ("USFWS") regarding one federally-listed species (northern long-eared bat) with potential habitat designated throughout the State of Connecticut. Eversource would continue to consult with these agencies to ensure that measures are undertaken to minimize the Project's potential impact to these species.

Cultural Resources

A review and assessment of known cultural (archeological and historical) resources was completed by Heritage Consultants, LLC ("Heritage") in June of 2015. No previously identified National Register of Historic Places properties were noted within 152 m (500 ft) of the Project area. However, a single previously identified archaeological site (18-33) was noted within 152 m (500 ft) of West Brookfield Junction. Site 18-33 was identified and recorded by Archaeological

and Historical Services, Inc., (AHS) in August of 2008 while completing Phase I cultural resources reconnaissance and Phase II National Register testing and evaluation for a then proposed Still River Greenway project. The lack of depositional integrity of the site area led AHS to assess Site 18-33 as not eligible for listing to the National Register of Historic Places due to a lack of research potential, but portions of the site may lie within or adjacent to the West Brookfield Substation to the West Brookfield Junction Line. In addition to identifying known cultural resources, the review by Heritage also identified areas of moderate to high potential for archeological sensitivity within the Project area. These occur in the vicinity of wetlands W1, W2 and W3 and between structures 2694 and 2690.

On February 8, 2019, Heritage completed a pedestrian survey of the proposed work areas associated with the revised scope of work which included, but was not limited to, locations of structure replacements, four access roads, two pull-pads and one tree-clearing area that were previously assessed as being moderate/high archaeologically sensitive. These areas include Structures 2691, 2692, 2693, 2695 2695A, 2682 and 2682A, alternative access road to Structure 2695, access roads to Structures 2695 and 2697 and pull pads associated with Structures 2682 and 2697.

Based on the pedestrian survey findings, Heritage has concluded that these areas do not require further investigation due to a determination of no or low sensitivity or that the area will be protected by matting.

Clearing and Vegetation Removal

Approximately 0.2 acres of clearing adjacent to West Brookfield Junction would be required to accommodate a work/pull pad and approximately 0.25 acres of clearing is required for the installation and access to Structure 2689.

Electric and Magnetic Fields

With the changes proposed in this Amendment, electric and magnetic field levels along the Project transmission corridor are expected to decrease along the edges of the right-of-way due to the proposed reconfiguration of the conductors from a horizontal to a vertical configuration.

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.

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

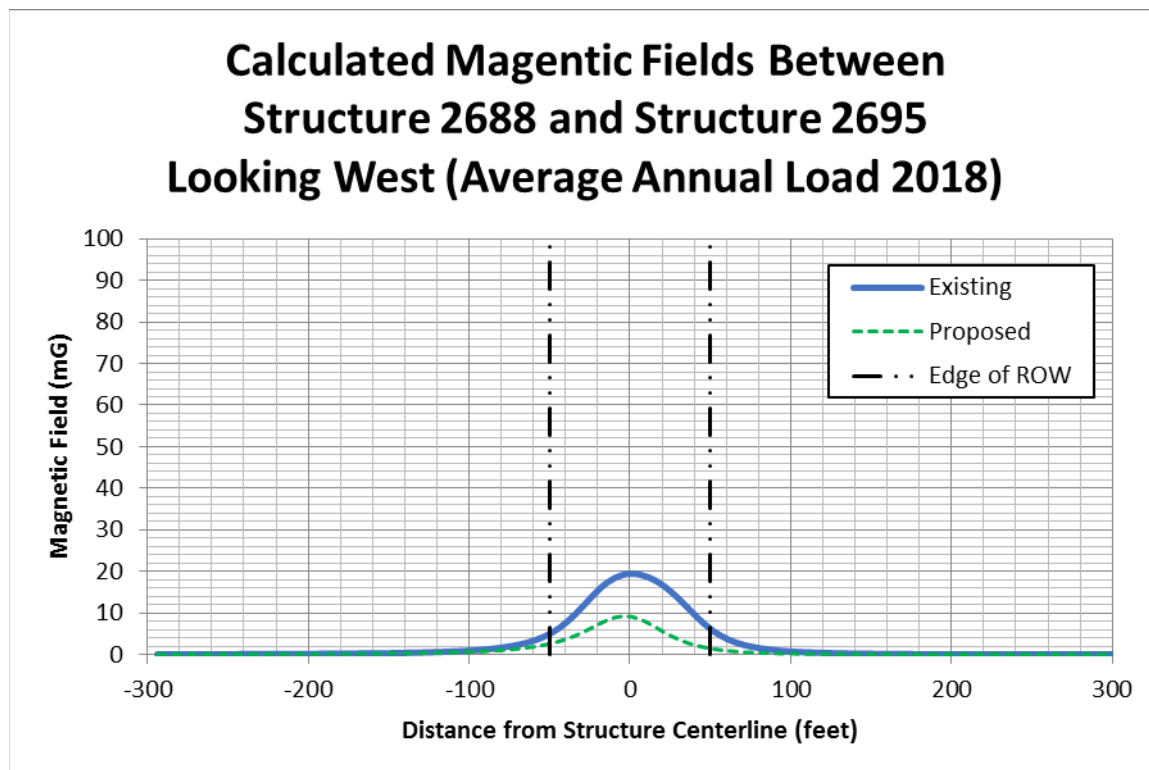
Structure 2688 to Structure 2695		North ROW Edge	Max in ROW	South ROW Edge
Magnetic Fields (mG)	Existing	4.6	19.5	6.4
	Proposed	1.1	9.2	3.2
Electric Fields (kV/m)	Existing	0.87	1.14	0.87
	Proposed	0.05	1.83	0.17

Structure 2695 to West Brookfield Substation		North ROW Edge	Max in ROW	South ROW Edge
Magnetic Fields (mG)	Existing	4.6	19.5	6.4
	Proposed	1.7	9.2	2.3
Electric Fields (kV/m)	Existing	0.87	1.14	0.87
	Proposed	0.11	1.83	0.05

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

	Magnetic Field (mG)	Electric Field (kV/m)
ICNIRP	2000	4.2
ICES	9040	5 (in General)
		10 (on ROW)

Figure E-1 - Calculated Magnetic Fields



Calculated Magnetic Fields Between Structure 2695 and West Brookfield S/S Looking West (Average Annual Load 2018)

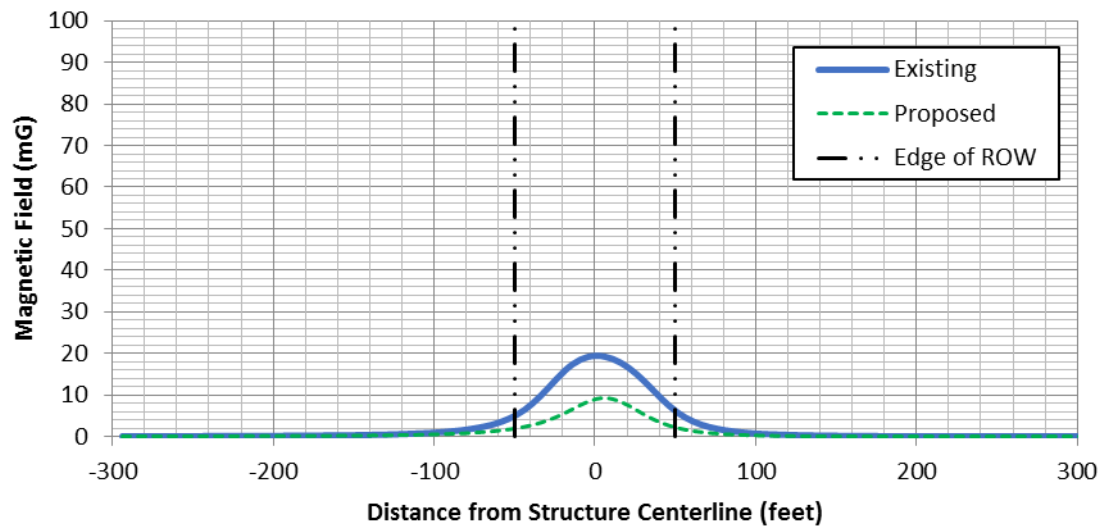
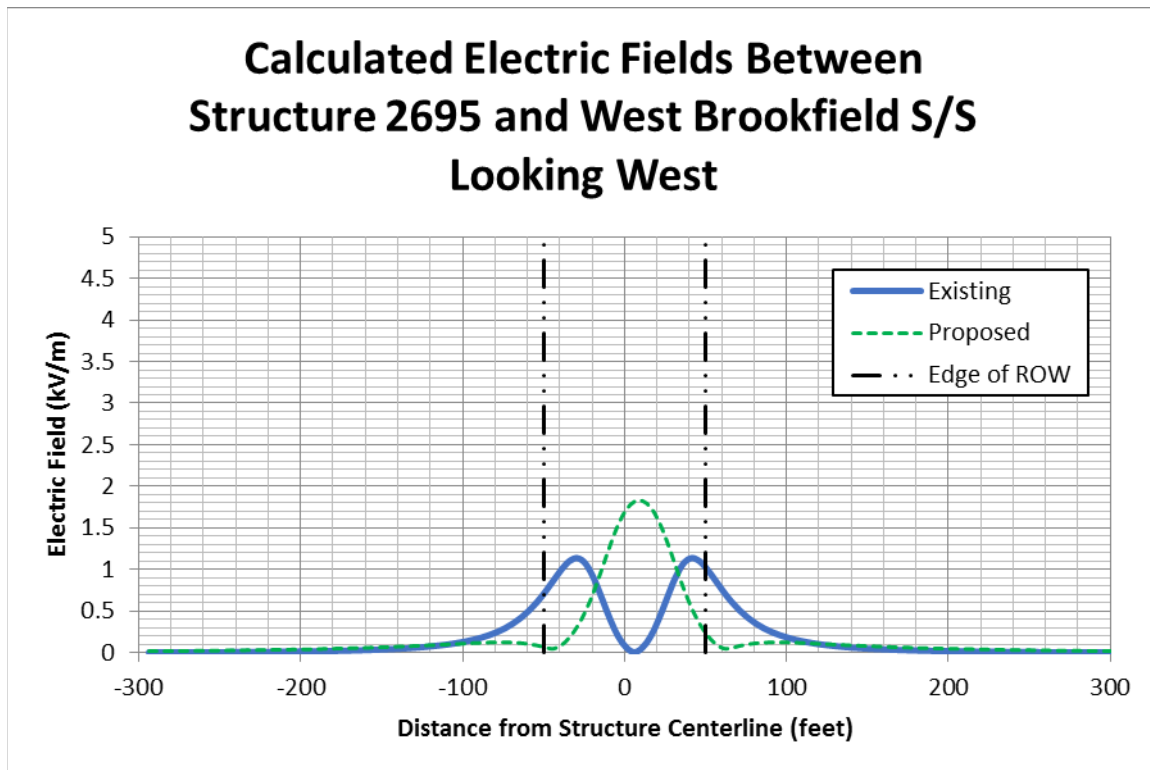


Figure E-2 - Calculated Electric Fields

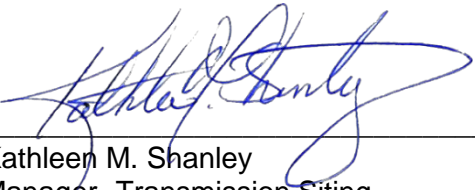


Prior to submitting this Amendment, Eversource representatives briefed the Town of Brookfield officials concerning the proposed Project modifications. In addition, Eversource provided abutters with written notice of the filing of this Amendment. As stated in the original Petition, Eversource representatives will continue proactive outreach to impacted property owners throughout the siting, construction and restoration of the Project.

Communications regarding this Petition amendment should be directed to:

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

By:



Kathleen M. Shanley
Manager- Transmission Siting

List of Attachments:

Attachment A: "West Brookfield Reliability Project Environmental Resource Maps" dated February 28, 2019

Attachment B: Existing/Proposed Right-of-Way Cross Sections

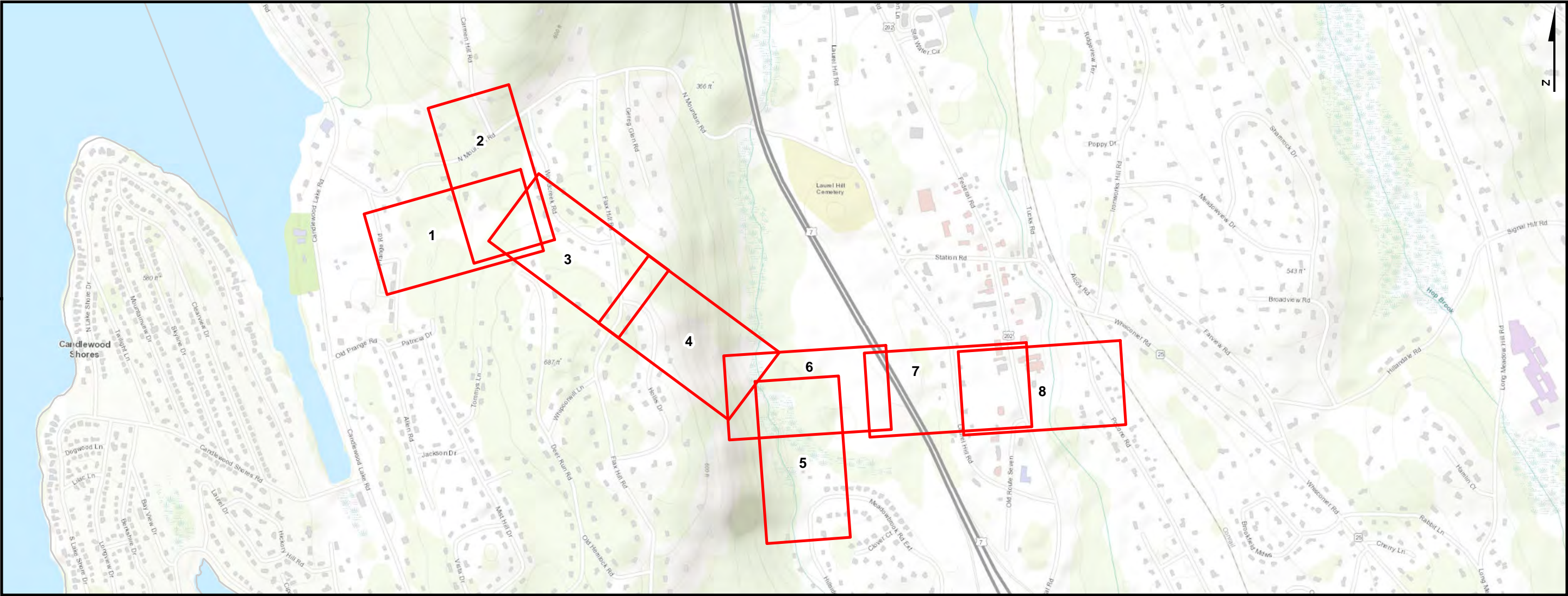
Attachment C: Changes in Structure Types and Heights

Attachment A

“West Brookfield Reliability Project Environmental Resource Maps” dated February 28, 2019

WEST BROOKFIELD RELIABILITY PROJECT

Brookfield, CT
Environmental Resources Maps
Februrary 28, 2019



PREPARED FOR:

EVERSOURCE

107 Selden Street
Berlin, CT 06037

INDEX OF FIGURES

- T1 - TITLE SHEET
- 1-8 - MAP SHEET
- 1A-8A - LINE LIST INFORMATION

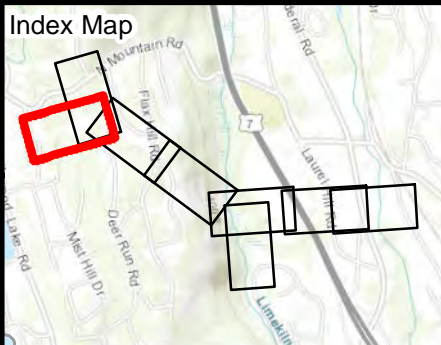
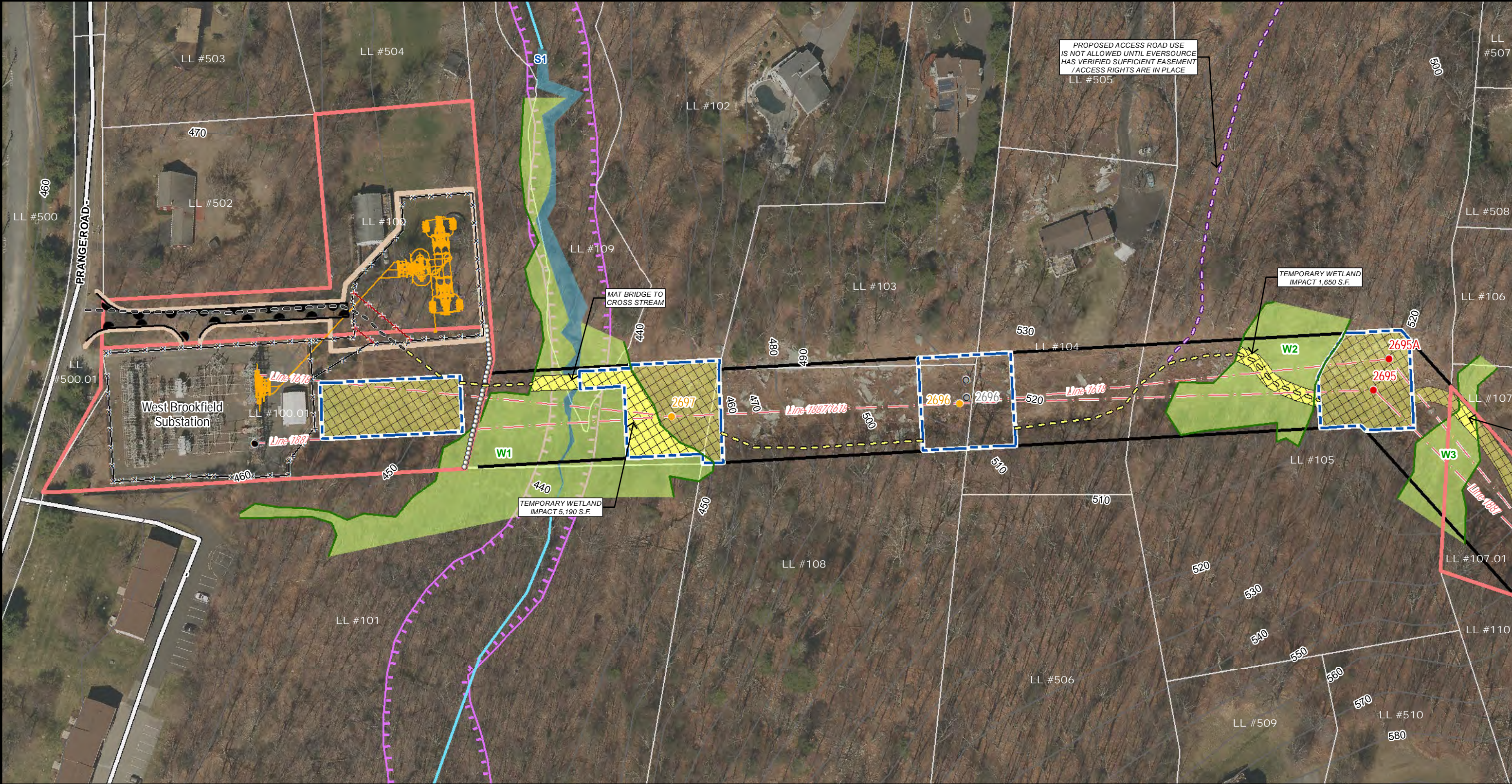
PREPARED BY:

 **BSC GROUP**

33 Waldo Street
Worcester, MA 01608

West Brookfield Reliability Project Line List Information

Line List	Owner Name	Site Address	Town	State
100	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)	85 PRANGE ROAD	BROOKFIELD	CT
100.01	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)	83 PRANGE ROAD	BROOKFIELD	CT
101	WOOD CREEK VILLAGE CONDOS (24 UNITS - SEE INDIVIDUAL UNIT LISTING)	35-81 PRANGE ROAD	BROOKFIELD	CT
102	CRISTAL LLC	61 NORTH MOUNTAIN ROAD	BROOKFIELD	CT
103	ASHOK & SATPATHY SASMITA PANIGRAPHI	57 NORTH MOUNTAIN ROAD	BROOKFIELD	CT
104	JOSEPH G. & JESSICA S. SALVATO	53 NORTH MOUNTAIN ROAD	BROOKFIELD	CT
105	KATHLEEN M JOWDY	51 NORTH MOUNTAIN ROAD	BROOKFIELD	CT
106	EDWARD L. BRIGGS	12 WOOD CREEK ROAD	BROOKFIELD	CT
107	JOSE A. & MARIA M. VELOSO	10 WOOD CREEK ROAD	BROOKFIELD	CT
107.01	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)	8A WOOD CREEK ROAD	BROOKFIELD	CT
108	ROLAND A. & JUNE M SHUTZ	10 TOMMY'S LANE	BROOKFIELD	CT
109	FIRST FLIGHT HYDRO GENERATING COMPANY LAND MANAGEMENT	430 CANDLE LAKE ROAD	BROOKFIELD	CT
110	KENNETH MICHAEL & DIANE VERONICA DRUCE	8 WOOD CREEK ROAD	BROOKFIELD	CT
500	TOWN OF BROOKFIELD (CADIGAN PARK)	501 CANDLEWOOD LAKE ROAD	BROOKFIELD	CT
500.01	PRANGE ROAD		BROOKFIELD	CT
502	GREGORY J. & JULIANNE VAN ANTWERP	87 PRANGE ROAD	BROOKFIELD	CT
503	WILLIAM J DAVISON III	89 PRANGE ROAD	BROOKFIELD	CT
504	RYAN M & STEFANIE L VOZZELLA	67 NORTH MOUNTAIN ROAD	BROOKFIELD	CT
505	JUSTIN YOUNG & ROTH BOHN O'DONNELL	55 NORTH MOUNTAIN ROAD	BROOKFIELD	CT
506	DAVID M & LORRAINE S FOULDS	48 DEER RUN ROAD	BROOKFIELD	CT
507	ANTHONY B & MICHELLE E JORDANO JR	16 WOOD CREEK ROAD	BROOKFIELD	CT
508	ALAN & PAMELA B HOHENSHELT	14 WOOD CREEK ROAD	BROOKFIELD	CT
509	MICHAEL A & VANESSA R ROLLS	43 DEER RUN ROAD	BROOKFIELD	CT
510	ALAN M & DEBRA Z BERMAN	41 DEER RUN ROAD	BROOKFIELD	CT



Legend

● Existing Structure	— Approx ROW Limits	□ Parcels	□ Guard Structure
● Proposed Structure	••• Stonewall	LL#100 Line List Label	--- Approx Limit of Disturbance/Tree Clearing
○ Structure to be Removed	○ Culvert	□ Natural Diversity Area	×× Existing Fenceline
● Structure Replacement	— Delineated Edge of Bank	□ Streams	×× Temporary Fenceline
— Existing Preferred Access Road	--- Delineated Intermittent Stream	□ FEMA Floodway	— Existing Expansion Detail
— New Permanent Access Road	— Field Delineated Wetland Line	□ FEMA 100yr Floodplain	— Existing Retaining Wall
— New Temporary Access Road	— Field Delineated Wetlands	□ FEMA 500yr Floodplain	— Existing Access Road
— Proposed Alternate Access	— Field Delineated Stream Area	□ Town Boundaries	
□ Temporary Construction Mat	— Eversource Property	□ Access Gate	
□ Work Pad/Pull Pad			

1 inch = 100 feet

0 100 200 Feet

Source:
-CT DEEP
Basemap & Environmental Data
-Aerial & Topo Imagery
ESRI, DigitalGlobe, GeoEye, i-cubed,
DeLorme, NAVTEQ, TomTom, Intermap,
increment P Corp., AEX, GEBCO, USDA,
USGS, FAO, NPS, NRCAN, GeoBase,
Getmapping, Aerogrid, IGN, Kadaster
NL, Ordnance Survey, ESRI Japan, METI,
ESRI China (Hong Kong), swisstopo, & the
GIS User Community

**WEST BROOKFIELD
RELIABILITY PROJECT**

Environmental Resources Map

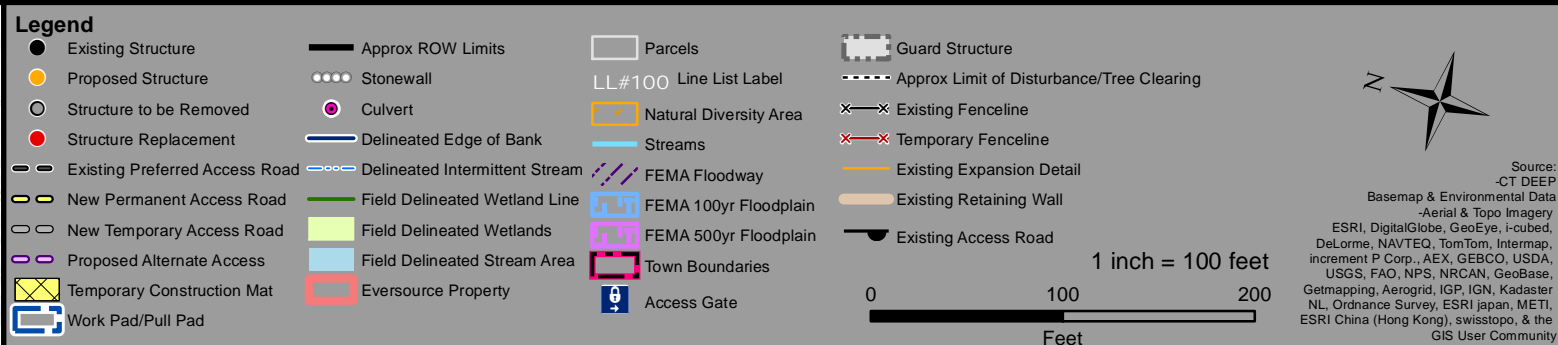
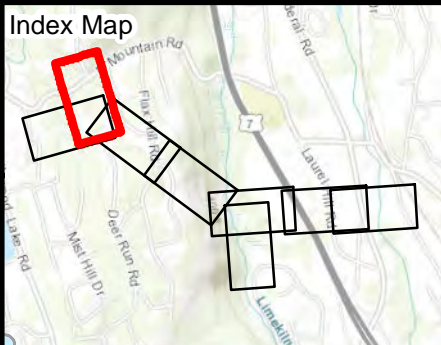
Brookfield, CT
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EVERSOURCE

BSC GROUP

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504.02	CHIN N OKWUKA	63 NORTH MOUNTAIN ROAD	BROOKFIELD	CT
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**WEST BROOKFIELD
RELIABILITY PROJECT**

Environmental Resources Map

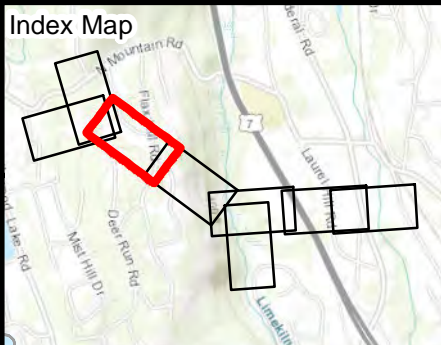
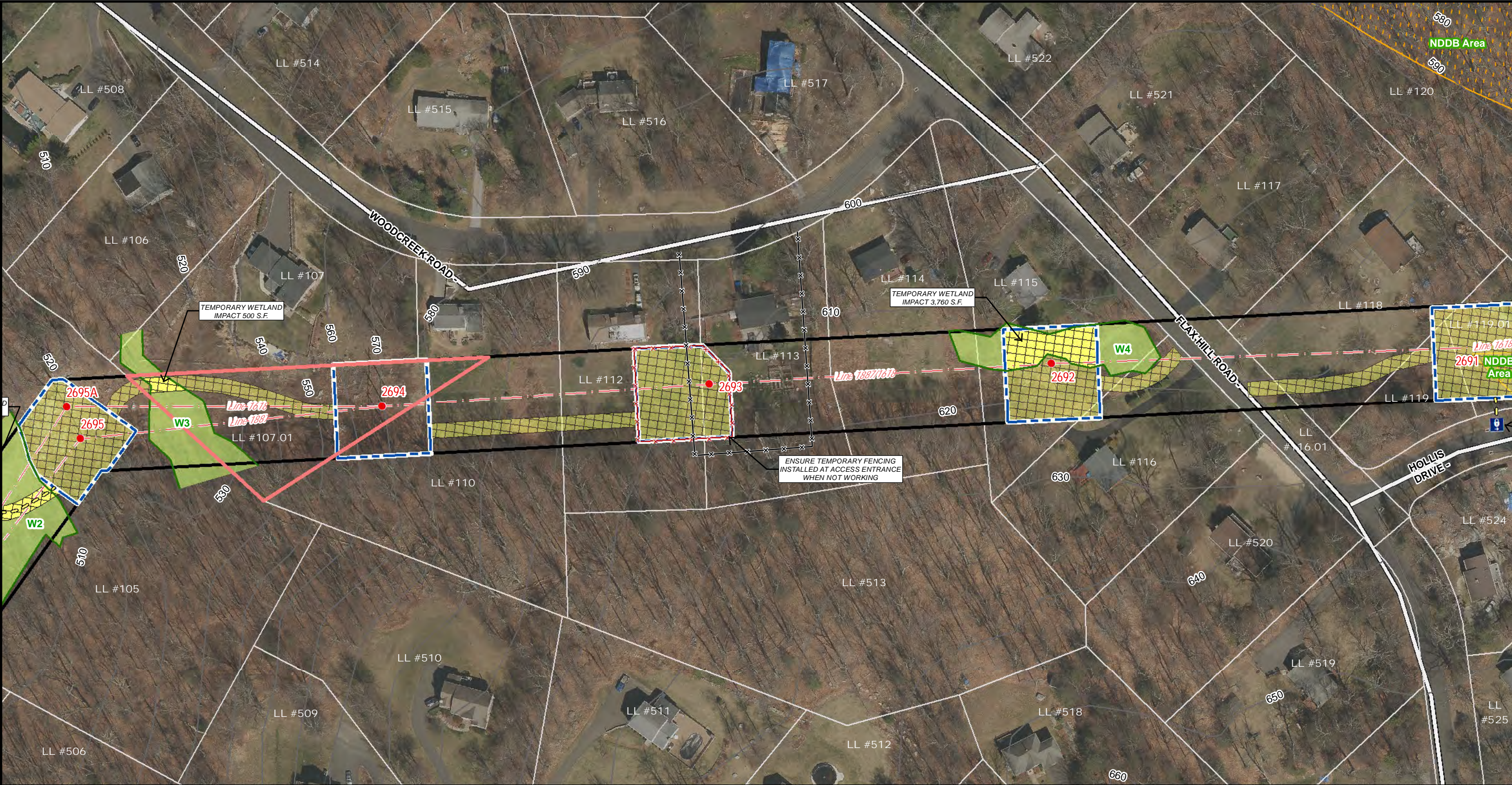
Brookfield, CT
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EVERSOURCE

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112	SHONNY L. & JOSEPH A. CAPODILUPO	6 WOOD CREEK ROAD	BROOKFIELD	CT
113	THOMAS & STACEY A SMITH	4 WOOD CREEK ROAD	BROOKFIELD	CT
114	CAROLINA E GAVILANEZ BUENANO	2 WOOD CREEK ROAD	BROOKFIELD	CT
115	THOMAS JAMES & AMANDA LEIGH KILEY	20 FLAX HILL ROAD	BROOKFIELD	CT
116	SANDRA ROURKE	22 FLAX HILL ROAD	BROOKFIELD	CT
116.01	FLAX HILL ROAD		BROOKFIELD	CT
117	WALTER & KAREN SALLSTROM	23 FLAX HILL ROAD	BROOKFIELD	CT
118	SHEILA C HARRIS	25 FLAX HILL ROAD	BROOKFIELD	CT
119	ANA PAULA ARAUJO & KELLEY KENNEDY MARIANO	23 HOLLIS DRIVE	BROOKFIELD	CT
119.01	GAMAL M ABDULRAHMAN & HUBDAR ASHGAN	21 HOLLIS DRIVE	BROOKFIELD	CT
120	TOWN OF BROOKFIELD KONECKO	76A LAUREL HILL ROAD	BROOKFIELD	CT
506	DAVID M & LORRAINE S FOULDS	48 DEER RUN ROAD	BROOKFIELD	CT
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510	ALAN M & DEBRA Z BERMAN	41 DEER RUN ROAD	BROOKFIELD	CT
511	MICHAEL & MARQUES VALERIE TURCHIANO	39 DEER RUN ROAD	BROOKFIELD	CT
512	DANIEL R & CHERYL L MACIOCE	37 DEER RUN ROAD	BROOKFIELD	CT
513	AQUARION WATER COMPANY OF CONNECTICUT	22A FLAX HILL ROAD	BROOKFIELD	CT
514	PATRICIA A HARKIN	7 WOOD CREEK ROAD	BROOKFIELD	CT
515	DANIEL STARK	5 WOOD CREEK ROAD	BROOKFIELD	CT
516	THOMAS G & CATHERINE OLSEN	3 WOOD CREEK ROAD	BROOKFIELD	CT
517	MARCELO RAMOS	1 WOOD CREEK ROAD	BROOKFIELD	CT
518	ITTYCHERIAN & MARIA ABRAHAM	33 DEER RUN ROAD	BROOKFIELD	CT
519	ALEXANDER MCLEAN & ANNETTE KOKKOLA-MCLEAN	26 FLAX HILL ROAD	BROOKFIELD	CT
520	LESLIE S KOVACS JR	24 FLAX HILL ROAD	BROOKFIELD	CT
521	KEITH AUGUSTUS & MARISA HERNANDEZ	21 FLAX HILL ROAD	BROOKFIELD	CT
522	RYAN W & LYNN Y NICHOLS	19 FLAX HILL ROAD	BROOKFIELD	CT
524	ANA PAULA ARAUJO & KELLEY KENNEDY MARIANO	29 FLAX HILL ROAD	BROOKFIELD	CT
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Legend

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— New Permanent Access Road	— Field Delineated Wetland Line	— FEMA 100yr Floodplain	— Existing Retaining Wall
— New Temporary Access Road	— Field Delineated Wetlands	— FEMA 500yr Floodplain	— Existing Access Road
— Proposed Alternate Access	— Field Delineated Stream Area	— Town Boundaries	
□ Temporary Construction Mat	□ Eversource Property	□ Access Gate	
□ Work Pad/Pull Pad			

1 inch = 100 feet

0 100 200 Feet

Source:
-CT DEEP
Basemap & Environmental Data
-Aerial & Topo Imagery
ESRI, DigitalGlobe, GeoEye, i-cubed,
DeLorme, NAVTEQ, TomTom, Intermap,
increment P Corp., AEX, GEBCO, USDA,
USGS, FAO, NPS, NRCAN, GeoBase,
Getmapping, Aerogrid, IGP, IGN, Kadaster
NL, Ordnance Survey, ESRI Japan, METI,
ESRI China (Hong Kong), swisstopo, & the
GIS User Community

**WEST BROOKFIELD
RELIABILITY PROJECT**

Environmental Resources Map

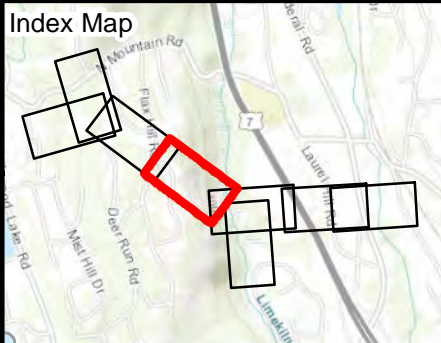
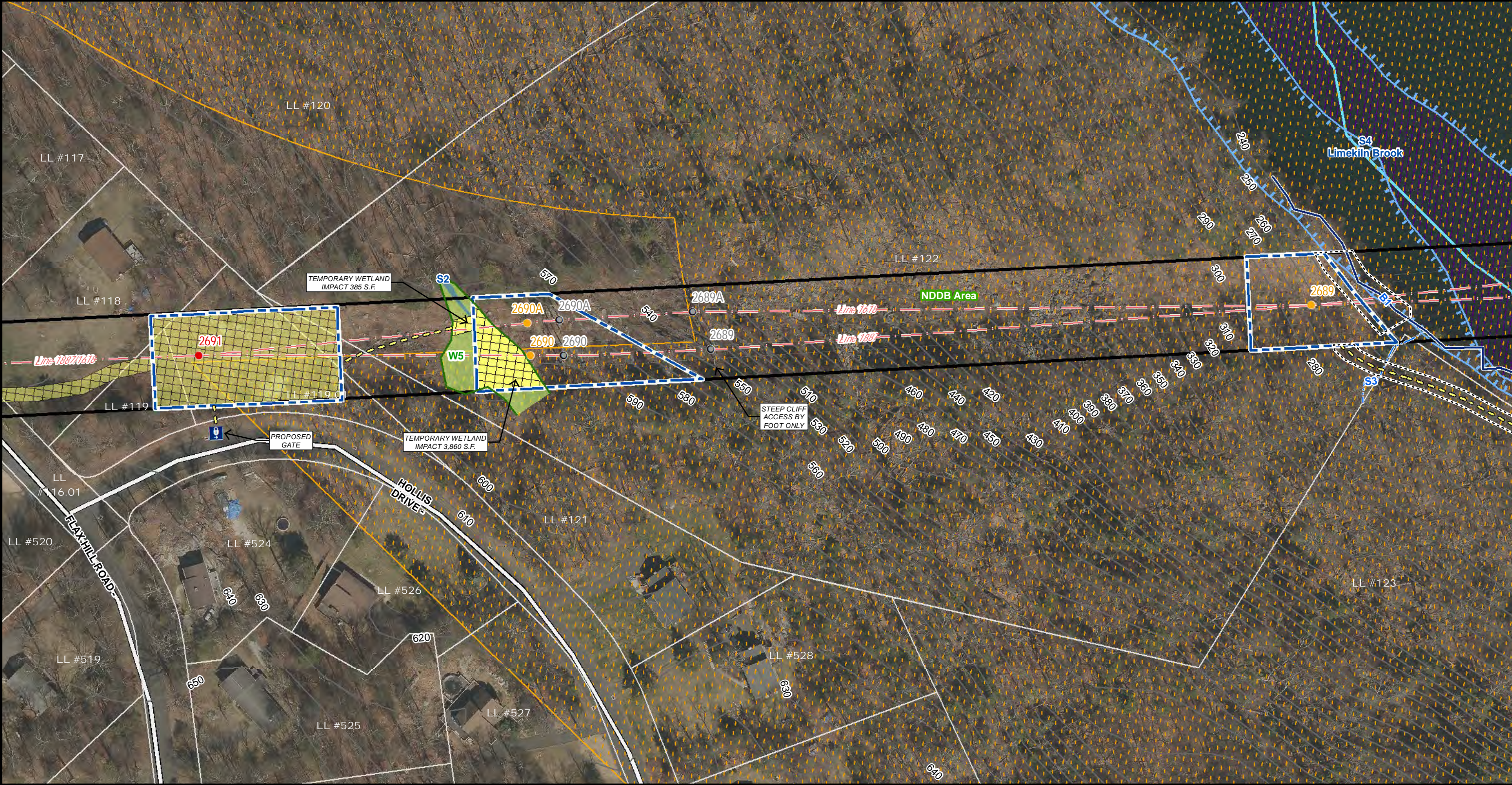
Brookfield, CT
Page 3 of 8

EVERSOURCE

BSC GROUP

West Brookfield Reliability Project Line List Information

Line List	Owner Name	Site Address	Town	State
116.01	FLAX HILL ROAD		BROOKFIELD	CT
117	WALTER & KAREN SALLSTROM	23 FLAX HILL ROAD	BROOKFIELD	CT
118	SHEILA C HARRIS	25 FLAX HILL ROAD	BROOKFIELD	CT
119	ANA PAULA ARAUJO & KELLEY KENNEDY MARIANO	23 HOLLIS DRIVE	BROOKFIELD	CT
119.01	GAMAL M ABDULRAHMAN & HUBDAR ASHGAN	21 HOLLIS DRIVE	BROOKFIELD	CT
120	TOWN OF BROOKFIELD KONECKO	76A LAUREL HILL ROAD	BROOKFIELD	CT
121	ROBERT J & AYDELY SANTIAGO TAIMAN	19 HOLLIS DRIVE	BROOKFIELD	CT
122	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	98 LAUREL HILL ROAD	BROOKFIELD	CT
123	HEMLOCK RIDGE	HOLLIS DRIVE	BROOKFIELD	CT
519	ALEXANDER MCLEAN & ANNETTE KOKKOLA-MCLEAN	26 FLAX HILL ROAD	BROOKFIELD	CT
520	LESLIE S KOVACS JR	24 FLAX HILL ROAD	BROOKFIELD	CT
521	KEITH AUGUSTUS & MARISA HERNANDEZ	21 FLAX HILL ROAD	BROOKFIELD	CT
524	ANA PAULA ARAUJO & KELLEY KENNEDY MARIANO	29 FLAX HILL ROAD	BROOKFIELD	CT
525	SHAWN P EMMERSON	31 FLAX HILL ROAD	BROOKFIELD	CT
526	GAMAL M & HUBDAR ASHGAN ABDULRAHMAN	18 HOLLIS DRIVE	BROOKFIELD	CT
527	ALAN J & NEELY A WALP	16 HOLLIS DRIVE	BROOKFIELD	CT
528	JAMES M KILLEN JR & NOREEN S KILLEN	17 HOLLIS DRIVE	BROOKFIELD	CT



Legend

● Existing Structure	— Approx ROW Limits	□ Parcels	□ Guard Structure
○ Proposed Structure	••• Stonewall	LL#100 Line List Label	--- Approx Limit of Disturbance/Tree Clearing
○ Structure to be Removed	○ Culvert	□ Natural Diversity Area	×× Existing Fenceline
● Structure Replacement	— Delineated Edge of Bank	— Streams	×× Temporary Fenceline
— Existing Preferred Access Road	--- Delineated Intermittent Stream	— FEMA Floodway	— Existing Expansion Detail
— New Permanent Access Road	— Field Delineated Wetland Line	— FEMA 100yr Floodplain	— Existing Retaining Wall
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GIS User Community

**WEST BROOKFIELD
RELIABILITY PROJECT**

Environmental Resources Map

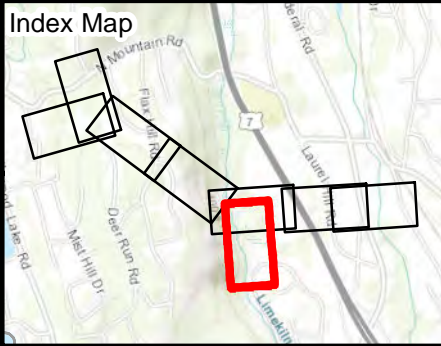
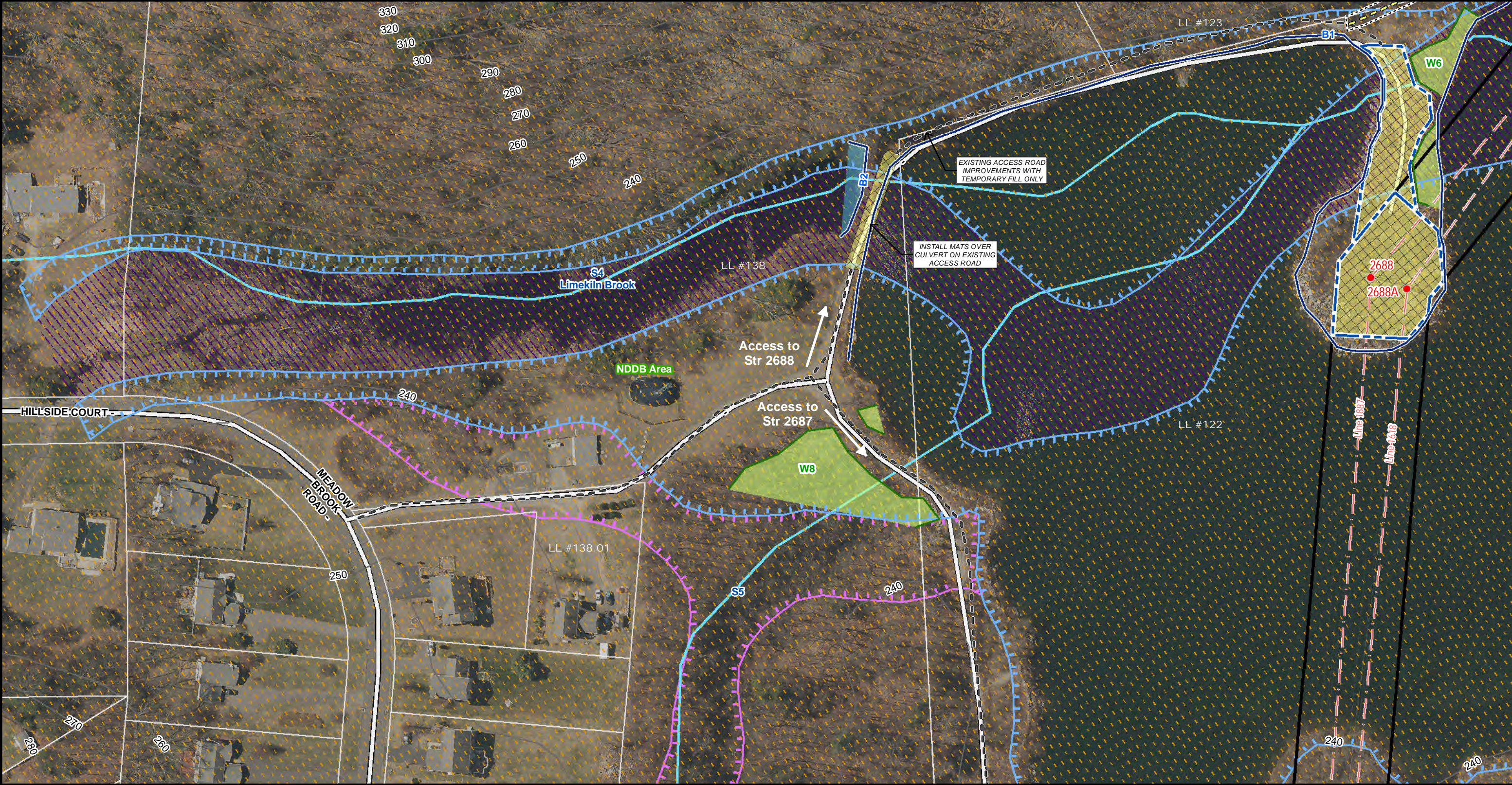
Brookfield, CT
Page 4 of 8

EVERSOURCE

BSC GROUP

West Brookfield Reliability Project
Line List Information

Line List	Owner Name	Site Address	Town	State
122	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	98 LAUREL HILL ROAD	BROOKFIELD	CT
123	HEMLOCK RIDGE	HOLLIS DRIVE	BROOKFIELD	CT
138	BROOKFIELD CROSSING ASSOCIATION C/O SUZANNE BERRY	67 MEADOW BROOK ROAD	BROOKFIELD	CT
138.01	MICHAEL F DONNELLY	65 MEADOW BROOK ROAD	BROOKFIELD	CT



Legend

● Existing Structure	— Approx ROW Limits	□ Parcels	□ Guard Structure
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**WEST BROOKFIELD
RELIABILITY PROJECT**

Environmental Resources Map

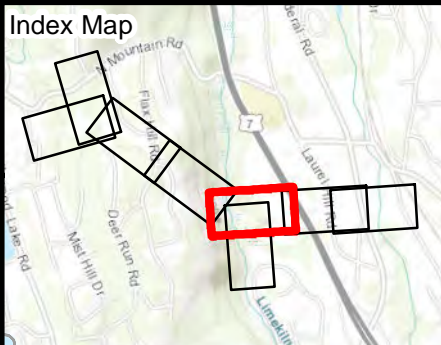
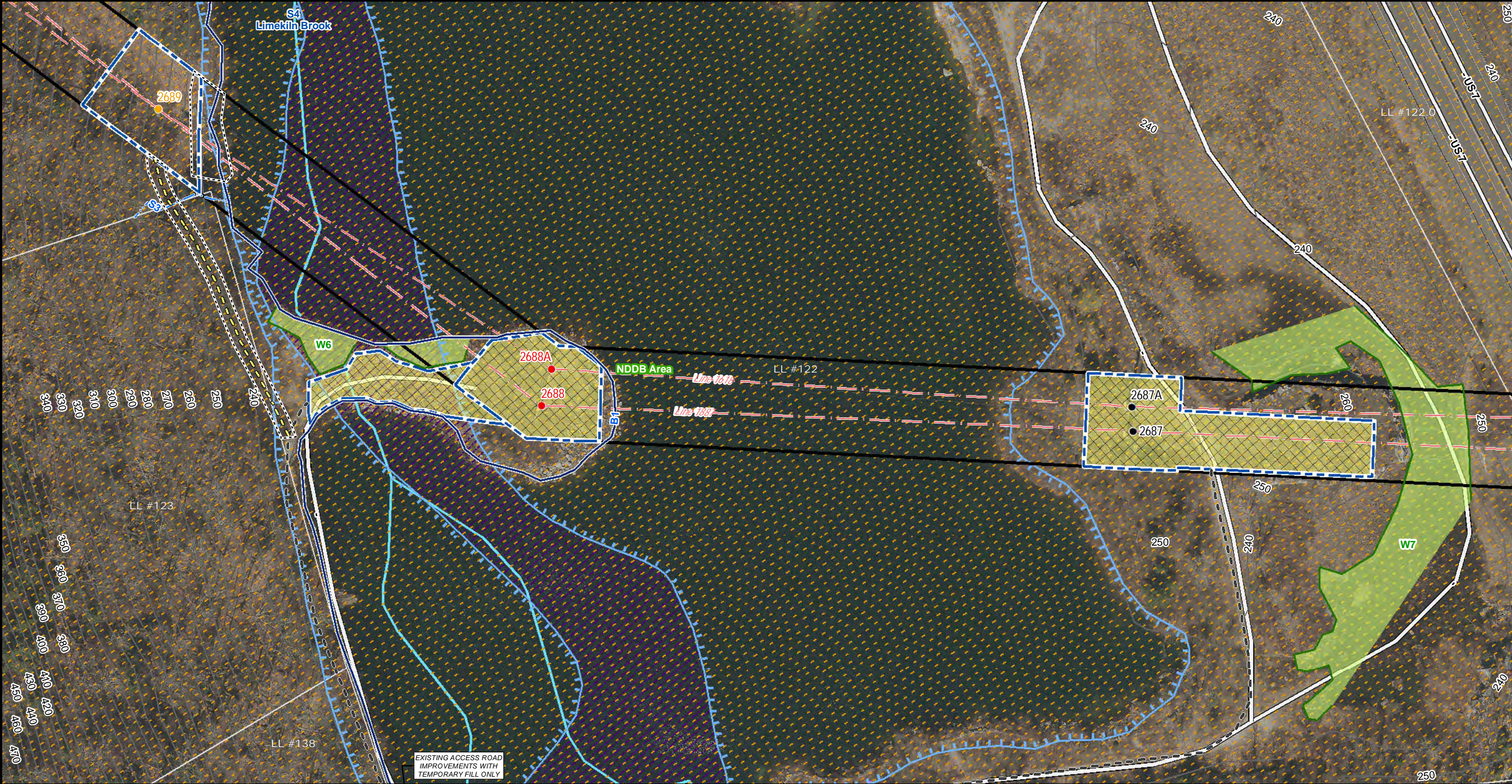
Brookfield, CT
Page 5 of 8

EVERSOURCE

BSC GROUP

West Brookfield Reliability Project
Line List Information

Line List	Owner Name	Site Address	Town	State
122	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	98 LAUREL HILL ROAD	BROOKFIELD	CT
122.01	US HIGHWAY 7		BROOKFIELD	CT
123	HEMLOCK RIDGE	HOLLIS DRIVE	BROOKFIELD	CT
138	BROOKFIELD CROSSING ASSOCIATION C/O SUZANNE BERRY	67 MEADOW BROOK ROAD	BROOKFIELD	CT



Legend

● Existing Structure	— Approx ROW Limits	□ Parcels	□ Guard Structure
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increment P Corp., AEX, GEBCO, USDA,
USGS, FAO, NPS, NRCAN, GeoBase,
Getmapping, Aerogrid, IGP, IGN, Kadaster
NL, Ordnance Survey, ESRI Japan, METI,
ESRI China (Hong Kong), swisstopo, & the
GIS User Community

**WEST BROOKFIELD
RELIABILITY PROJECT**

Environmental Resources Map

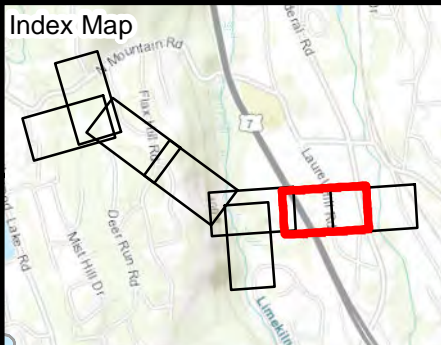
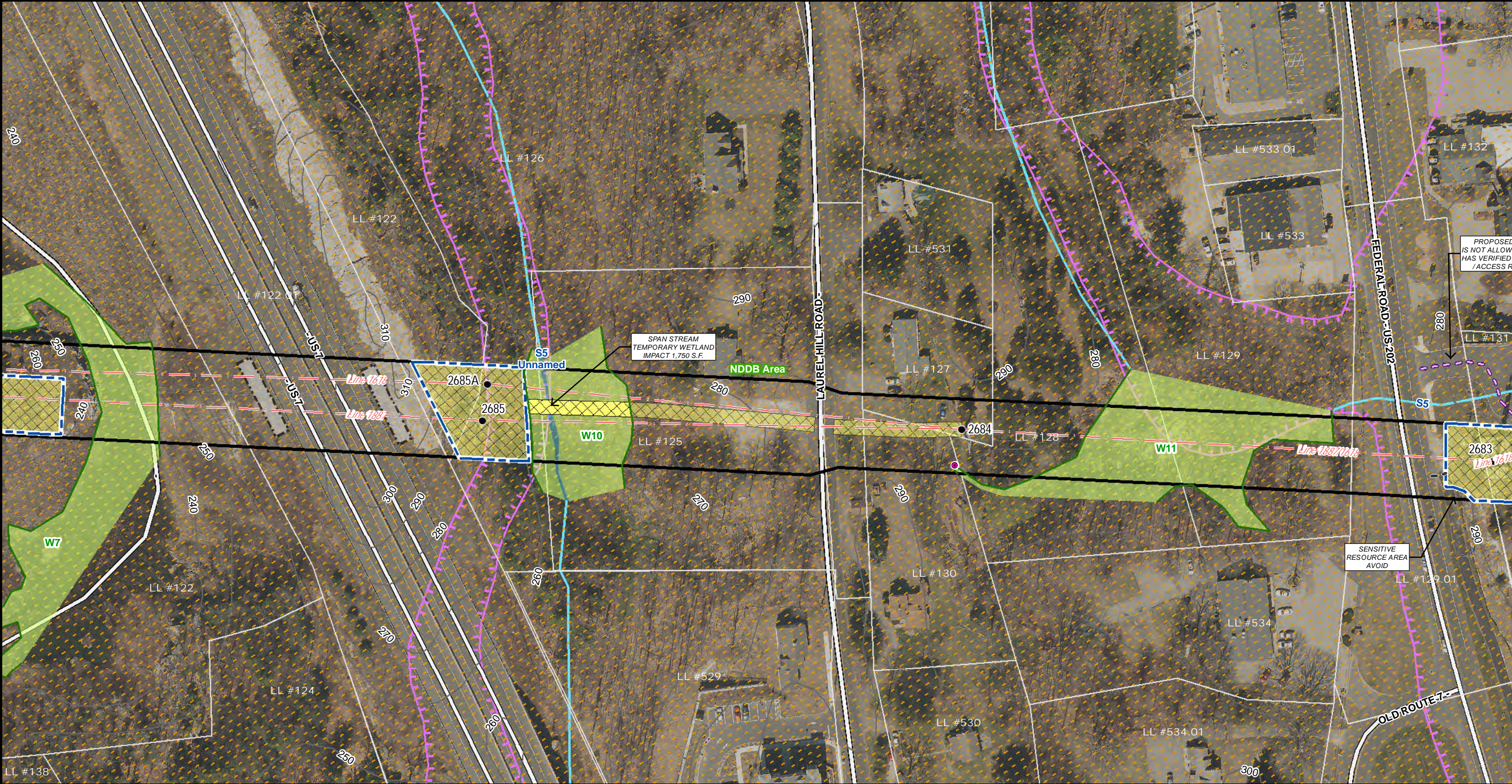
Brookfield, CT
Page 6 of 8

EVERSOURCE

BSC GROUP

West Brookfield Reliability Project Line List Information

Line List	Owner Name	Site Address	Town	State
122	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	98 LAUREL HILL ROAD	BROOKFIELD	CT
122.01	US HIGHWAY 7		BROOKFIELD	CT
124	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	NA (PART OF ROUTE 7 TAKING)	BROOKFIELD	CT
125	FLORENCE BURDICK EXECUTRIX	72 LAUREL HILL ROAD	BROOKFIELD	CT
125.01	LAUREL HILL ROAD		BROOKFIELD	CT
126	ARTHUR J. & JESSAMYN ASHLEY JR.	76 LAUREL HILL ROAD	BROOKFIELD	CT
127	KEITH C. BURDICK SR & LEONA M. BURDICK	71 LAUREL HILL ROAD	BROOKFIELD	CT
128	KEITH C BURDICK	77 LAUREL HILL ROAD	BROOKFIELD	CT
129	J A R ASSOCIATES	766 FEDERAL ROAD	BROOKFIELD	CT
129.01	US 202		BROOKFIELD	CT
130	DAVID L BOTHWELL	67 LAUREL HILL ROAD	BROOKFIELD	CT
131	SKELMORLIE LLC	763 FEDERAL ROAD	BROOKFIELD	CT
132	BRANHAVEN RIVER & FARM PROPERTIES LLC & TORRINGTON ARMS APARTMENTS LLC	777 FEDERAL ROAD	BROOKFIELD	CT
136	SEVEN HUNDRED THIRTY ONE FEDERAL ROAD LLC C/O SCALZO PROPERTY MANAGEMENT	731 FEDERAL ROAD	BROOKFIELD	CT
138	BROOKFIELD CROSSING ASSOCIATION C/O SUZANNE BERRY	67 MEADOW BROOK ROAD	BROOKFIELD	CT
529	LAUREL HILL RESIDENCES LLC DIRECTOR OF ASSET MANAGEMENT	LAUREL HILL ROAD	BROOKFIELD	CT
530	CHRISTOPHER W REISS	65 LAUREL HILL ROAD	BROOKFIELD	CT
531	KEVIN M & ALLISON M BURDICK	73 LAUREL HILL ROAD	BROOKFIELD	CT
533	J A R ASSOCIATES	770 FEDERAL ROAD	BROOKFIELD	CT
533.01	J A R ASSOCIATES	774 FEDERAL ROAD	BROOKFIELD	CT
534	ECB REALTY LLC	756 FEDERAL ROAD	BROOKFIELD	CT
534.01	ROBERT R & VICTORIA M LEHNER	10 OLD ROUTE 7	BROOKFIELD	CT



Legend

● Existing Structure	— Approx ROW Limits	□ Parcels	□ Guard Structure
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— Work Pad/Pull Pad			

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Basemap & Environmental Data
-Aerial & Topo Imagery
ESRI, DigitalGlobe, GeoEye, i-cubed,
DeLorme, NAVTEQ, TomTom, Intermap,
increment P Corp., AEX, GEBCO, USDA,
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Getmapping, Aerogrid, IGP, IGN, Kadaster
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GIS User Community

**WEST BROOKFIELD
RELIABILITY PROJECT**

Environmental Resources Map

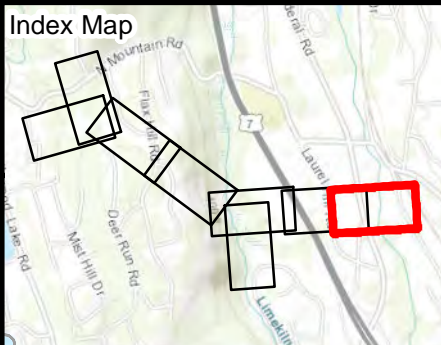
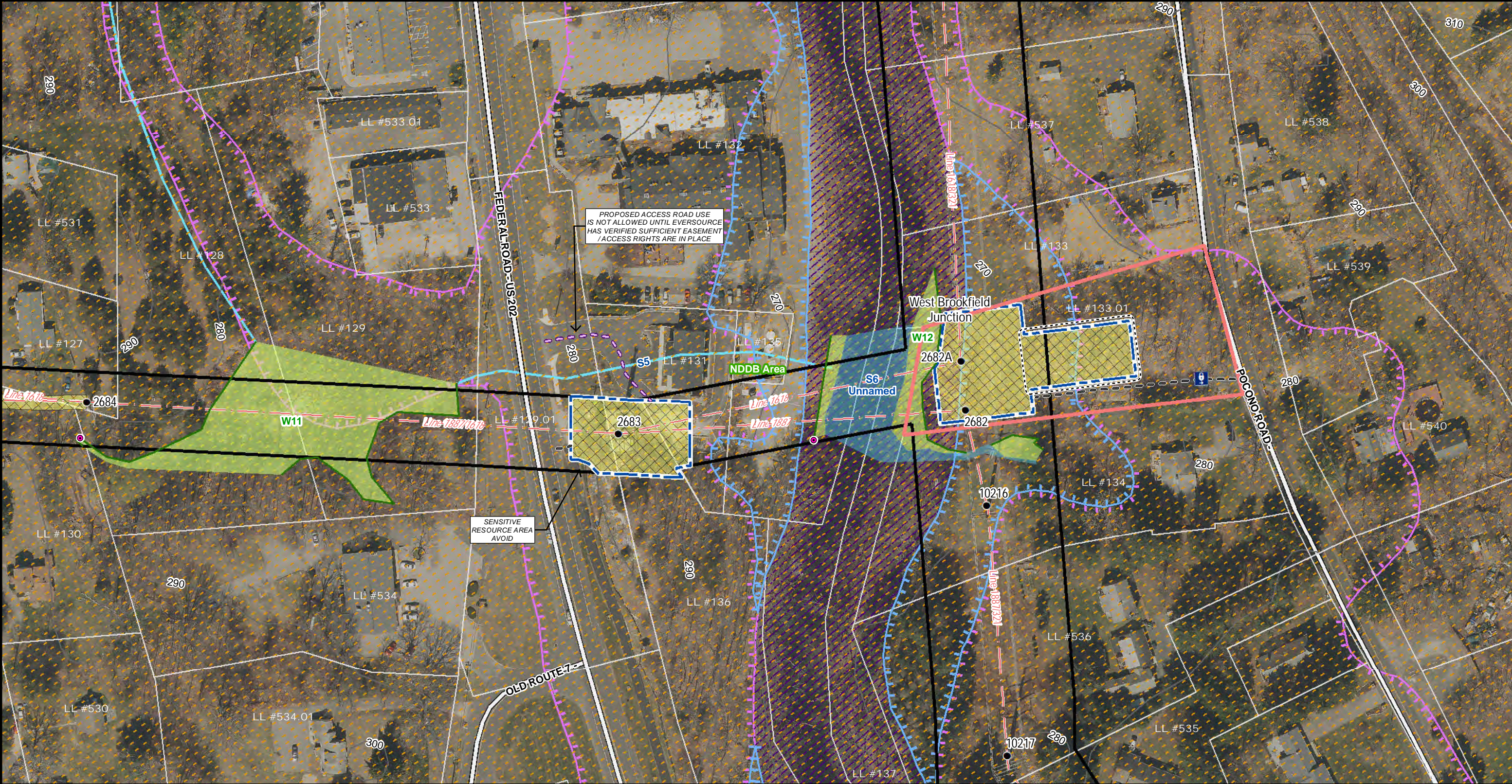
Brookfield, CT
Page 7 of 8

EVERSOURCE

BSC GROUP

West Brookfield Reliability Project Line List Information

Line List	Owner Name	Site Address	Town	State
125.01	LAUREL HILL ROAD		BROOKFIELD	CT
127	KEITH C. BURDICK SR & LEONA M. BURDICK	71 LAUREL HILL ROAD	BROOKFIELD	CT
128	KEITH C BURDICK	77 LAUREL HILL ROAD	BROOKFIELD	CT
129	J A R ASSOCIATES	766 FEDERAL ROAD	BROOKFIELD	CT
129.01	US 202		BROOKFIELD	CT
130	DAVID L BOTHWELL	67 LAUREL HILL ROAD	BROOKFIELD	CT
131	SKELMORLIE LLC	763 FEDERAL ROAD	BROOKFIELD	CT
132	BRANHAVEN RIVER & FARM PROPERTIES LLC & TORRINGTON ARMS APARTMENTS LLC	777 FEDERAL ROAD	BROOKFIELD	CT
133	WADE P. GRADIA	172 POCONO ROAD	BROOKFIELD	CT
133.01	THE CONNECTICUT LIGHT & POWER COMPANY (EVERSOURCE)	170 POCONO ROAD	BROOKFIELD	CT
133.02	POCONO ROAD		BROOKFIELD	CT
134	DAVID M. & DAWN M WABOL	168 POCONO ROAD	BROOKFIELD	CT
135	TOWN OF BROOKFIELD	777A FEDERAL ROAD	BROOKFIELD	CT
136	SEVEN HUNDRED THIRTY ONE FEDERAL ROAD LLC C/O SCALZO PROPERTY MANAGEMENT	731 FEDERAL ROAD	BROOKFIELD	CT
137	RIVER		BROOKFIELD	CT
530	CHRISTOPHER W REISS	65 LAUREL HILL ROAD	BROOKFIELD	CT
531	KEVIN M & ALLISON M BURDICK	73 LAUREL HILL ROAD	BROOKFIELD	CT
533	J A R ASSOCIATES	770 FEDERAL ROAD	BROOKFIELD	CT
533.01	J A R ASSOCIATES	774 FEDERAL ROAD	BROOKFIELD	CT
534	ECB REALTY LLC	756 FEDERAL ROAD	BROOKFIELD	CT
534.01	ROBERT R & VICTORIA M LEHNER	10 OLD ROUTE 7	BROOKFIELD	CT
535	MAURIZIO E DEFINA	164A POCONO ROAD	BROOKFIELD	CT
536	MAURIZIO E DEFINA	166 POCONO ROAD	BROOKFIELD	CT
537	BONNIE L MILLER	172A POCONO ROAD	BROOKFIELD	CT
538	KEVIN T MCGINNISS	179 POCONO ROAD	BROOKFIELD	CT
539	C B MARSHALL & MARLENE GILCHRIST	175 POCONO ROAD	BROOKFIELD	CT
540	GLENN & BARBARA ROONEY TTEES GLENN & BARBARA ROONEY IRREVOCABLE TRUST	173 POCONO ROAD	BROOKFIELD	CT



Legend

● Existing Structure	— Approx ROW Limits	□ Parcels	□ Guard Structure
○ Proposed Structure	●●● Stonewall	LL#100 Line List Label	--- Approx Limit of Disturbance/Tree Clearing
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**WEST BROOKFIELD
RELIABILITY PROJECT**

Environmental Resources Map

Brookfield, CT
Page 8 of 8

EVERSOURCE

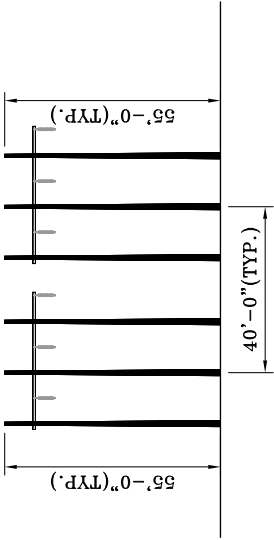
BSC GROUP

Attachment B

Existing/Proposed Right-of-Way Cross Sections

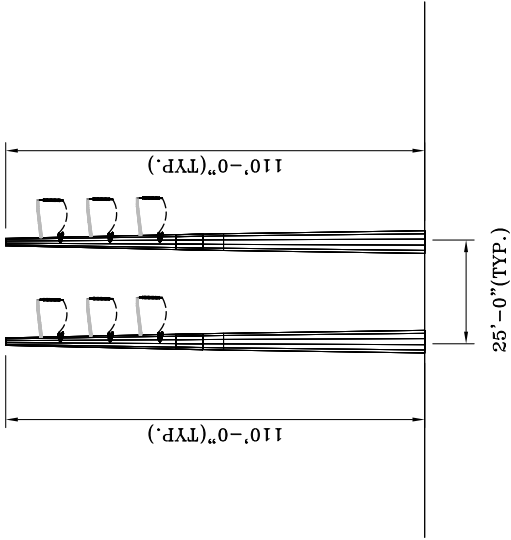
EXISTING 115kV
LINE 1887
TYP. ANGLE DE STR

EXISTING 115kV
LINE 1618
TYP. ANGLE DE STR



PROPOSED 115kV
LINE 1887
STEEL POLE TYPE DE
(TYP.)

PROPOSED 115kV
LINE 1618
STEEL POLE TYPE DE
(TYP.)

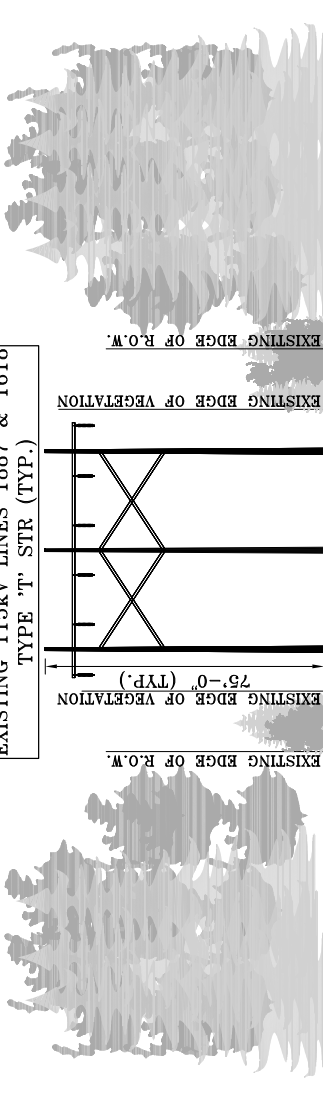


EVERSOURCE ENERGY

TITLE W. BROOKFIELD JCT. - W. BROOKFIELD SUB
115kV TRANSMISSION LINE
TYPE DE (TYP.) - STRS. 2688, 2688A, 2695, 2695A
BROOKFIELD, CT.

BY	NSC	CHD	RLF	APP	APP
DATE	02/22/19	DATE	02/22/19	DATE	DATE
HT-SCALE	N.T.S.	SIZE	B	FIELD BOOK & PAGES	
V-S-SCALE	N.T.S.	V.S.		REL. DIMS	
R.E. PROJ. NUMBER				DWG. NO.	SKETCH 1

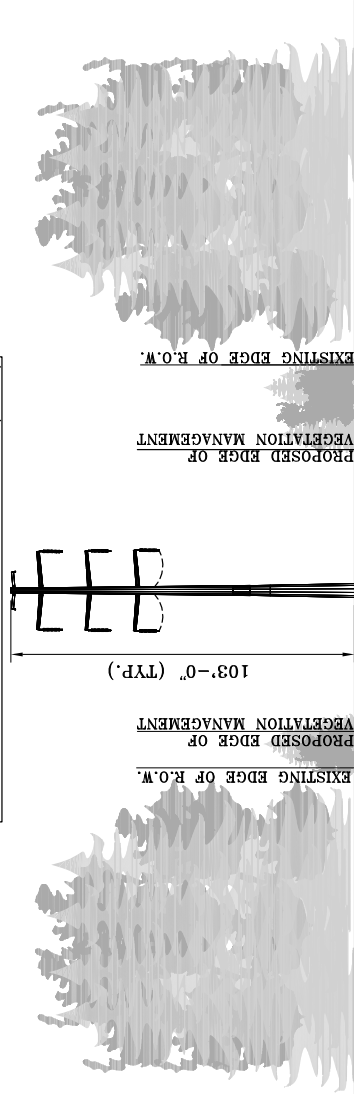
EXISTING 115kV LINES 1887 & 1618
TYPE 'T' STR (TYP.)



EXISTING R.O.W. CONFIGURATION
NO ADDITIONAL R.O.W. REQUIRED
DOUBLE CIRCUIT TYPE 'T' WOOD POLES

LOOKING FROM W. BROOKFIELD JCT TO W. BROOKFIELD S/S
IN THE TOWN OF BROOKFIELD, CT
0.61 MILES BETWEEN STRS 2688-2695

PROPOSED 115kV LINES 1887 & 1618
STEEL POLE TYPE DCSP-TANGENT (TYP.)



PROPOSED R.O.W. CONFIGURATION
NO ADDITIONAL R.O.W. REQUIRED
DOUBLE CIRCUIT STEEL POLE VERTICAL

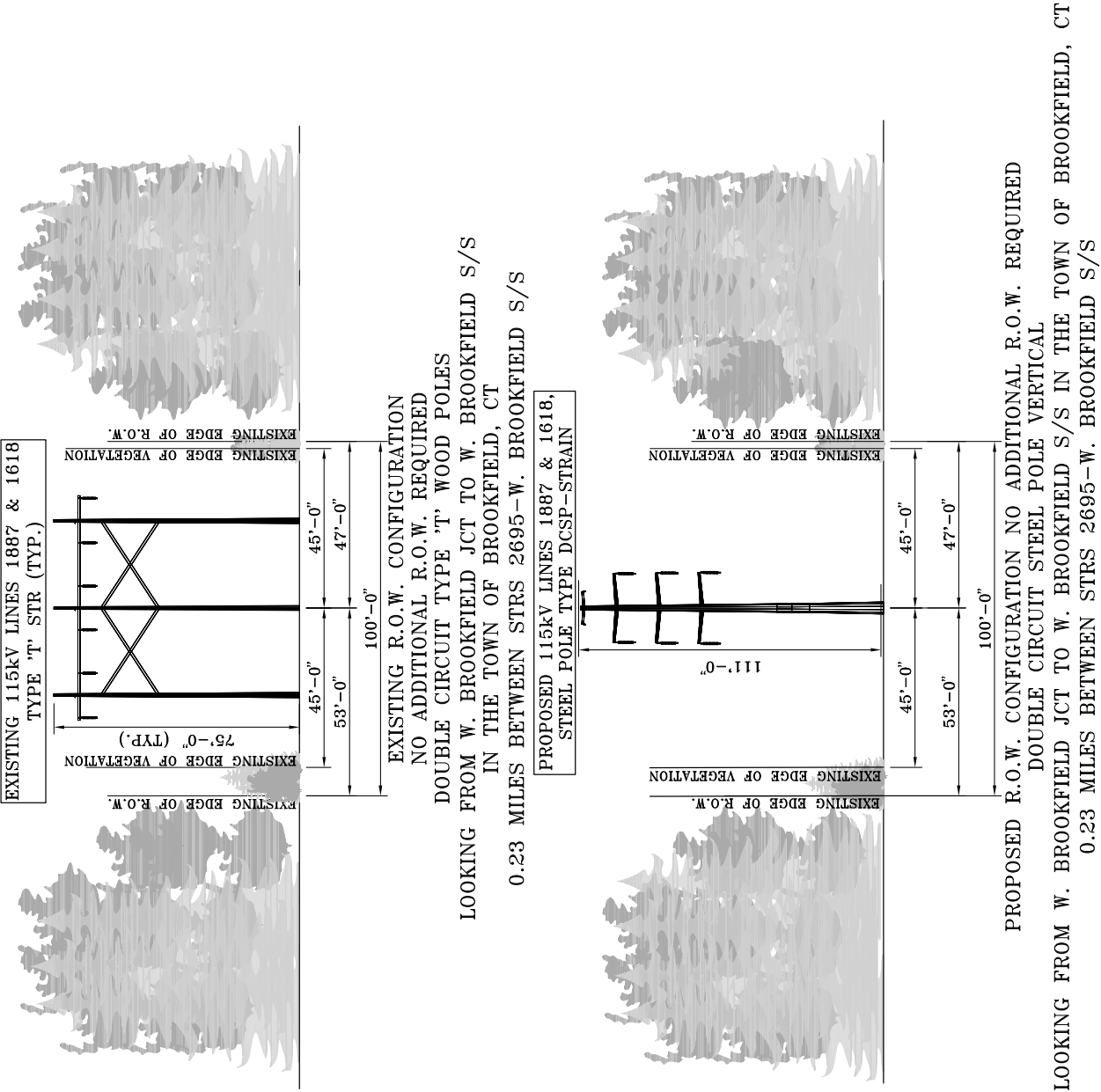
LOOKING FROM W. BROOKFIELD JCT TO W. BROOKFIELD S/S
IN THE TOWN OF BROOKFIELD, CT
0.61 MILES BETWEEN STRS 2688-2695

EVERSOURCE
ENERGY

TITLE

W. BROOKFIELD JCT. - W. BROOKFIELD SUB
115kV TRANSMISSION LINE
TYPE DCSP-TANGENT
BROOKFIELD, CT.

BY	NSC	CHD	RLF	APP	APP
DATE	02/22/19	DATE	02/22/19	DATE	DATE
H-SCALE	N.T.S.	SIZE	B	FIELD BOOK & PAGES	
V-SCALE	N.T.S.	VSZ.		RE. DWS	
P.E. PROJ. NUMBER	OH-XS-2				



Attachment C
Changes in Structure Types and Heights

Structure	Existing Structure Type	Height (ft.)	Replacement Structure Type	Height (ft.)/increase
2697	N/A*		Double circuit weathering steel monopole	111.0
2696	Wood double circuit 3-pole	61.00	Double circuit weathering steel monopole	84.0/23.0
2695	Wood 3-pole	56.5	Single circuit weathering steel monopole	86.0/29.5
2695A	Wood 3-pole	60.8	Single circuit weathering steel monopole	86.0/25.2
2694	Wood 3-pole	56.5	Double circuit weathering steel monopole	84.0/27.5
2693	Wood 3-pole	52.0	Double circuit weathering steel monopole	79.0/27.0
2692	Wood 3-pole	52.0	Double circuit weathering steel monopole	98.0/46.0
2691	Wood 3-pole	52.0	Double circuit weathering steel monopole	103.0/51.0
2690	Wood 3-pole	56.5	Double circuit weathering steel monopole	151.0/94.5
2690A	Wood 3-pole	65.5	Double circuit weathering steel monopole	151.0/85.5
2689	Wood 3-pole	65.5	Double circuit weathering steel monopole	116.0/NA**
2689A	Wood 3-pole	80.0		***
2688	Wood 3-pole	52.0	Single circuit weathering steel monopole	101.0/49.0
2688A	Wood 3-pole	52.0	Single circuit weathering steel monopole	101.0/49.0

Notes:

* There isn't an existing structure 2697

** Not applicable since the replacement Structure 2689 is located 644 feet east of the existing 2689 structure that is being removed.

*** Existing Structure 2689A is being removed and is not being replaced.