

ATTACHMENT A



BLOOMFIELD-WINDSOR UPGRADES PROJECT

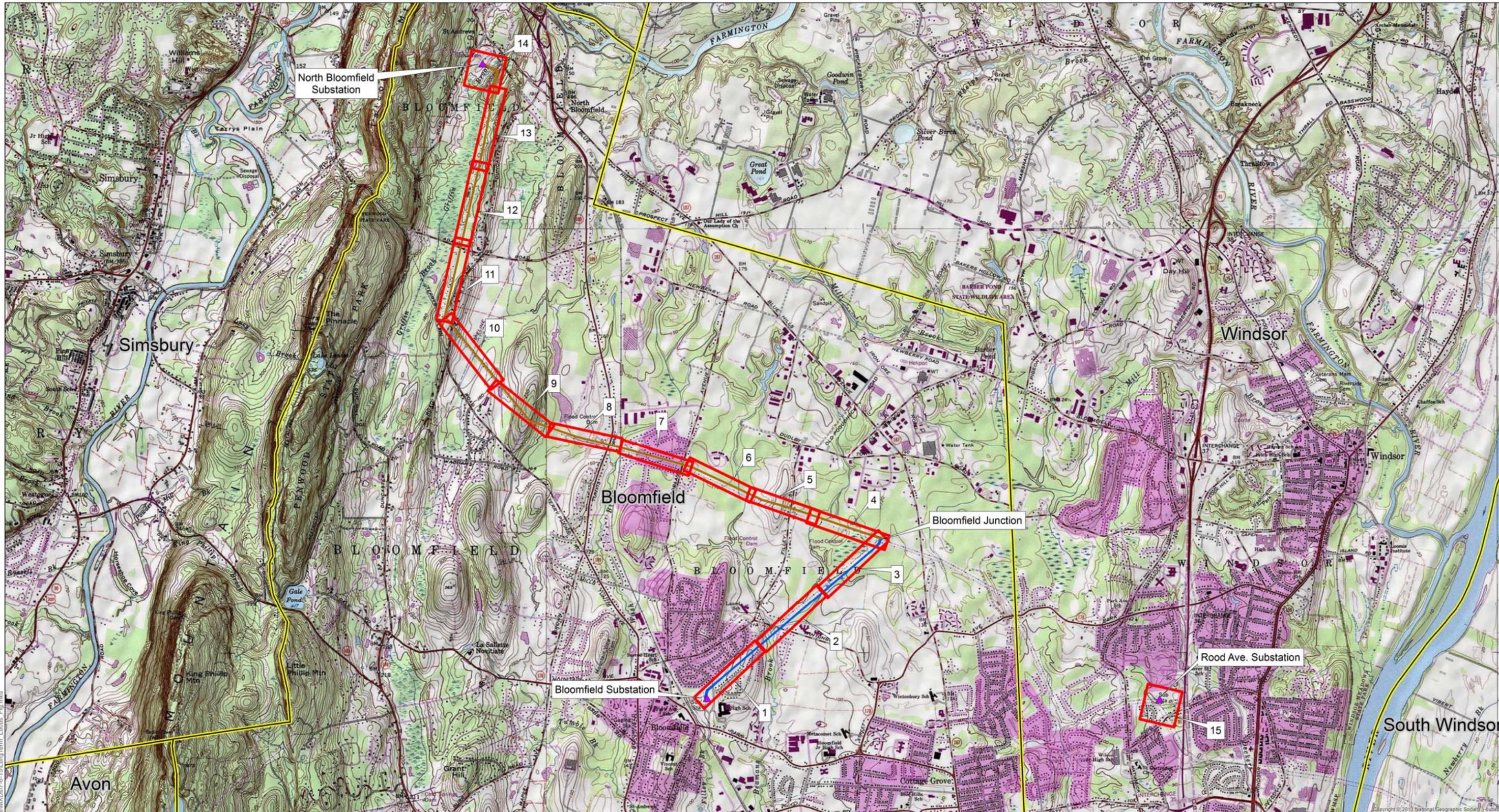
PROPOSED MODIFICATIONS TO:

1777/1779 LINE BETWEEN BLOOMFIELD SUBSTATION AND BLOOMFIELD JUNCTION
1751/1777 LINE BETWEEN BLOOMFIELD JUNCTION AND NORTH BLOOMFIELD SUBSTATION
1779 LINE LOOP AT ROOD AVENUE SUBSTATION

BLOOMFIELD AND WINDSOR, CONNECTICUT

ATTACHMENT A: Bloomfield-Windsor Upgrades Project Maps

MARCH 2016



Legend

- ▲ Substation Location
- 1751-1777 Lines
- 1777-1779 Lines
- Mapsheet
- Municipal Boundary

BLOOMFIELD - WINDSOR UPGRADES PROJECT
 PROPOSED MODIFICATIONS TO:
 1777/1779 LINE BETWEEN BLOOMFIELD SUBSTATION AND BLOOMFIELD JUNCTION
 1751/1777 LINE BETWEEN BLOOMFIELD JUNCTION AND NORTH BLOOMFIELD SUBSTATION
 1779 LINE LOOP AT ROOD AVENUE SUBSTATION
 BLOOMFIELD AND WINDSOR, CT

Coordinate System:
 NAD 1983 StatePlane Connecticut FIPS 0600 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983
 False Easting: 1,000,000.0000
 False Northing: 500,000.0000
 Central Meridian: -72.7500
 Standard Parallel 1: 41.2000
 Standard Parallel 2: 41.8667
 Latitude Of Origin: 40.8333
 Linear Units: Foot US



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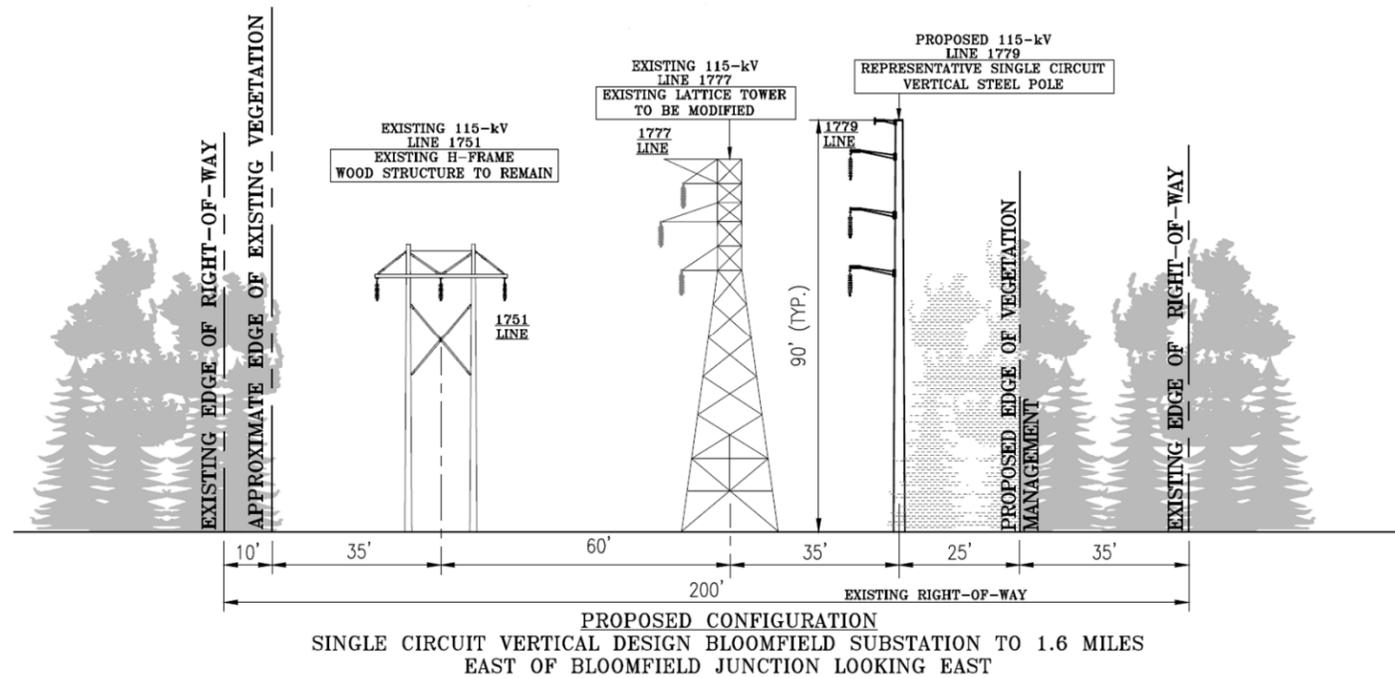
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Revised: 2/25/2016

Locus Sheet

MAPSHEET 1 of 15

Bloomfield-Windsor Upgrades Project Proposed Route Existing Structure Locations 3-101 to 3-104 Town of Bloomfield, CT



Area Description

Existing Land Use

- Bloomfield Substation
- Residential Areas
- Bloomfield High School

Road Crossings

- Crestview Dr.
- Florence Rd.

Natural Systems

- Floodplain of Beaman's Brook
- Floodplain of Filley Brook

Right-of-Way Description

Right-of-Way Land Use

- Residential adjacent to structures 3-100 through 3-104

Wetlands, Vernal Pools, Watercourses and Waterbodies

- None

Wetland, Vernal Pool, and Watercourse Crossings

- None

Right-of-Way Vegetation

- Old field/Shrub Land
- Residential Lawn
- Ornamental and hedgerow trees
- Upland Forest

Listed Species Considerations / BMPs

- None

Line List

Number	Owner Name (Now or Formerly)	Number	Owner Name (Now or Formerly)
800	THE CONNECTICUT LIGHT & POWER COMPANY	828	TERRENCE A & MARJORIE S LLEWELLYN
801	BEVERLY V GRANT	829	MADGE THOMPSON
802	TASHA D MILLER	830	DAVID R GRICE
803	CARLTON HIGGINS	831	DWAYNE HOLNESS
804	PAULETTE BARRETT	832	LUCIUS O ACHOLONU
805	RHONDA LYNNE WEST	833	CAROLYN A LEE
806	CARL & AGNES STONE LIVING TRUST	834	AGNES V MACBETH
807	GEORGE R WHITE JR	835	DOLORES A HOWARD
808	HENRIETTA & RAYMOND SAILOR	836	CYNTHIA MCPHERSON
809	AUDREY BIRTHWRIGHT & MANSEL LEWIN	837	ULYSSES & VIOLA B LUMPKINS
810	ROSE STAINROD	838	TYRONE L WILLIAMS & JANNETT MACON-WILLIAMS
811	OTIS G & KAREN ARNUM MORGAN	841	DONNA M NICHOLS
814	BARBARA G THORNTON	842	MARK A DAVIS
815	HENRY D MCMILLAN	846	MIRIAM HAKIAN
816	DIANE P QUINN	847	JOSEPH M & KATHLEEN F TAPPER
817	MOSAIC	848	DOROTHY CLARKE
818	MARRETT A CLUNIE	849	LINDA A STEWART
819	BALTON A & PAULETTE A LAWRENCE	850	UCOL DAVIS & LORRAINE MORRIS-DAVIS
820	KAREN A SMART	852	MAXINE P MILLER
821	KENNETH L COLTON JR	853	ERIC & SHAVAUGHN ROBINSON
822	FRANK G DAVIS	854	EARL EDWARDS & SONIA THOMAS
823	ELIZABETH SULLIVAN	855	VALENSHA EVANS
824	ELIZABETH ATTA-POKU	856	MARJORIE A CHAMBERS
825	CHARLES A & GWENDOLYN L MAY	860	BERNICE C HOVENCAMP
826	MARLENE Y & RAJDEVI JONES	862 (From	
827	OLIVER GRANT	Mapsheet 2)	TOWN OF BLOOMFIELD

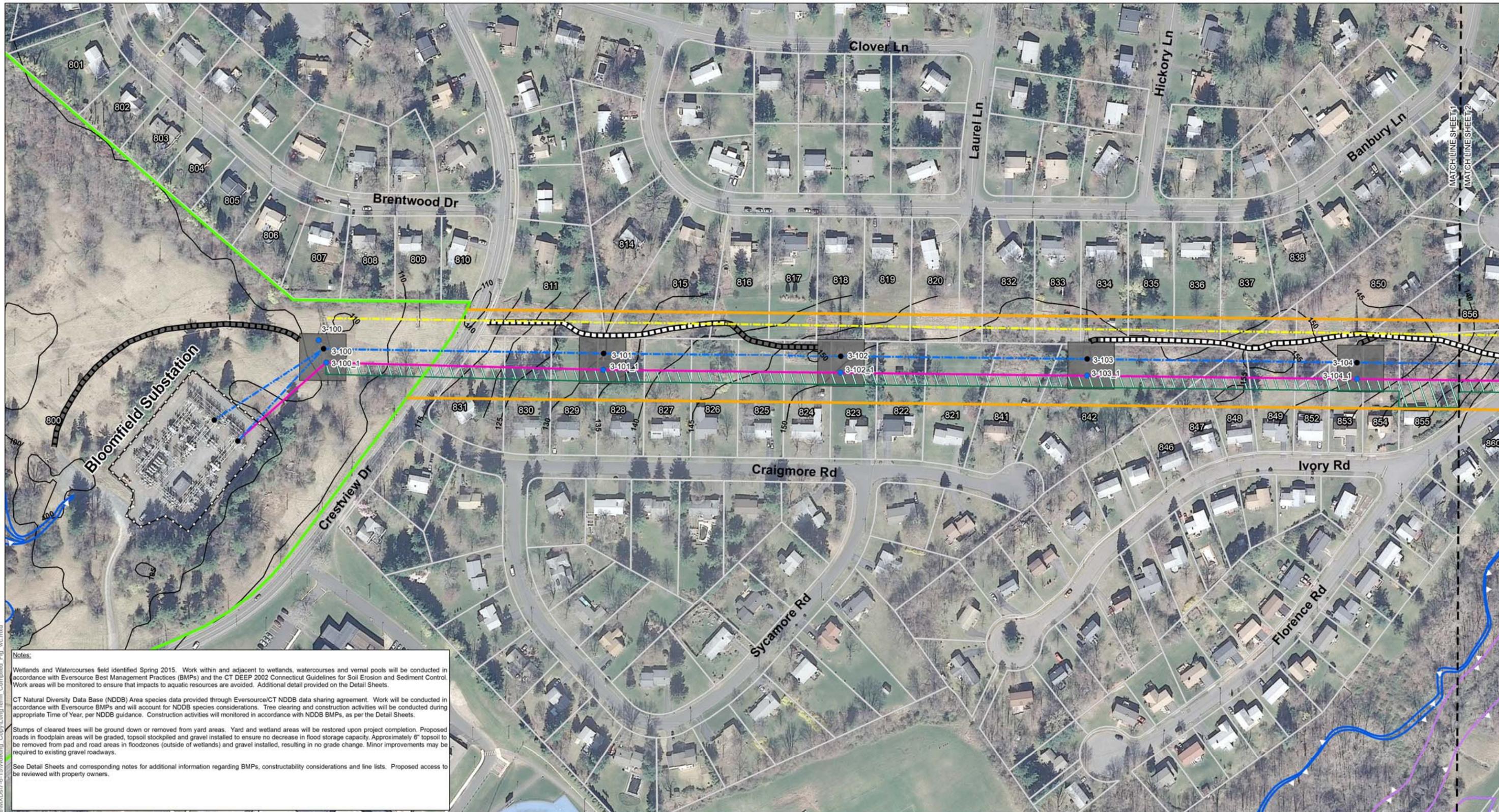
Right-of-Way Description (Cont.)

Potential Access

- Structures 3-101 and 3-102 can be accessed via Crestview Drive
- Structures 3-103 and 3-104 can be accessed Florence Lane

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

- 130 feet / 25 feet
- In addition to proposed new clearing/trimming extending 25 ft. SE of new structures along the ROW, non-compatible vegetation may be cleared within 45 ft. NW of proposed structures .



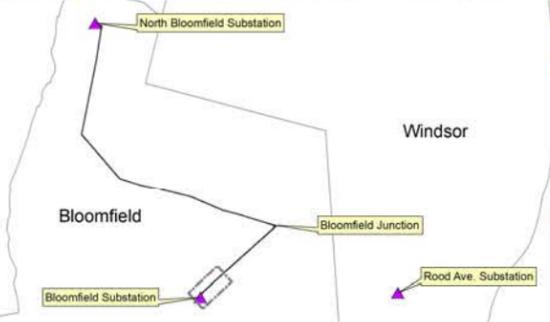
Notes:

Wetlands and Watercourses field identified Spring 2015. Work within and adjacent to wetlands, watercourses and vernal pools will be conducted in accordance with Eversource Best Management Practices (BMPs) and the CT DEEP 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. Work areas will be monitored to ensure that impacts to aquatic resources are avoided. Additional detail provided on the Detail Sheets.

CT Natural Diversity Data Base (NDDB) Area species data provided through Eversource/CT NDDB data sharing agreement. Work will be conducted in accordance with Eversource BMPs and will account for NDDB species considerations. Tree clearing and construction activities will be conducted during appropriate Time of Year, per NDDB guidance. Construction activities will be monitored in accordance with NDDB BMPs, as per the Detail Sheets.

Stumps of cleared trees will be ground down or removed from yard areas. Yard and wetland areas will be restored upon project completion. Proposed roads in floodplain areas will be graded, topsoil stockpiled and gravel installed to ensure no decrease in flood storage capacity. Approximately 6" topsoil to be removed from pad and road areas in floodzones (outside of wetlands) and gravel installed, resulting in no grade change. Minor improvements may be required to existing gravel roadways.

See Detail Sheets and corresponding notes for additional information regarding BMPs, constructability considerations and line lists. Proposed access to be reviewed with property owners.



<ul style="list-style-type: none"> 1751 Line - Existing 1777/1779 Line - Existing 1779 Line - Proposed Existing Structure Proposed Structure Culvert Eversource Property Eversource Right of Way 	<ul style="list-style-type: none"> Parcel Boundary Perennial Stream (e.g. PS-1, PS-2) Wetland Delineation Wetland (e.g. W1, W2) Vernal Pool (VP) Proposed Vegetation Removal Limits 	<ul style="list-style-type: none"> Proposed Temporary Access Road Construction Mats Existing Access Road Proposed Access Road - Gravel Proposed Gravel Pad Proposed Timber Mat Pad FEMA 100-Year Flood Zone FEMA 500-Year Flood Zone 	<ul style="list-style-type: none"> Syncopated Silt Fencing (See Detail Sheet BMPs) Stream Flow Direction Existing Fence
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BLOOMFIELD - WINDSOR UPGRADES PROJECT
 1777/1779 Line between Bloomfield Substation and Bloomfield Junction
 Bloomfield, CT

Linear Units: Foot US
 Datum: North American 1983
 Projection: Lambert Conformal Conic
 Coordinate System: NAD 1983 StatePlane
 Connecticut FIPS 0600 Feet
 Datalayers and Imagery: USGS Earth Explorer,
 CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
 Google Earth Imagery, Eversource.

Scale in Feet
 0 100 200

Revised: 3/7/2016

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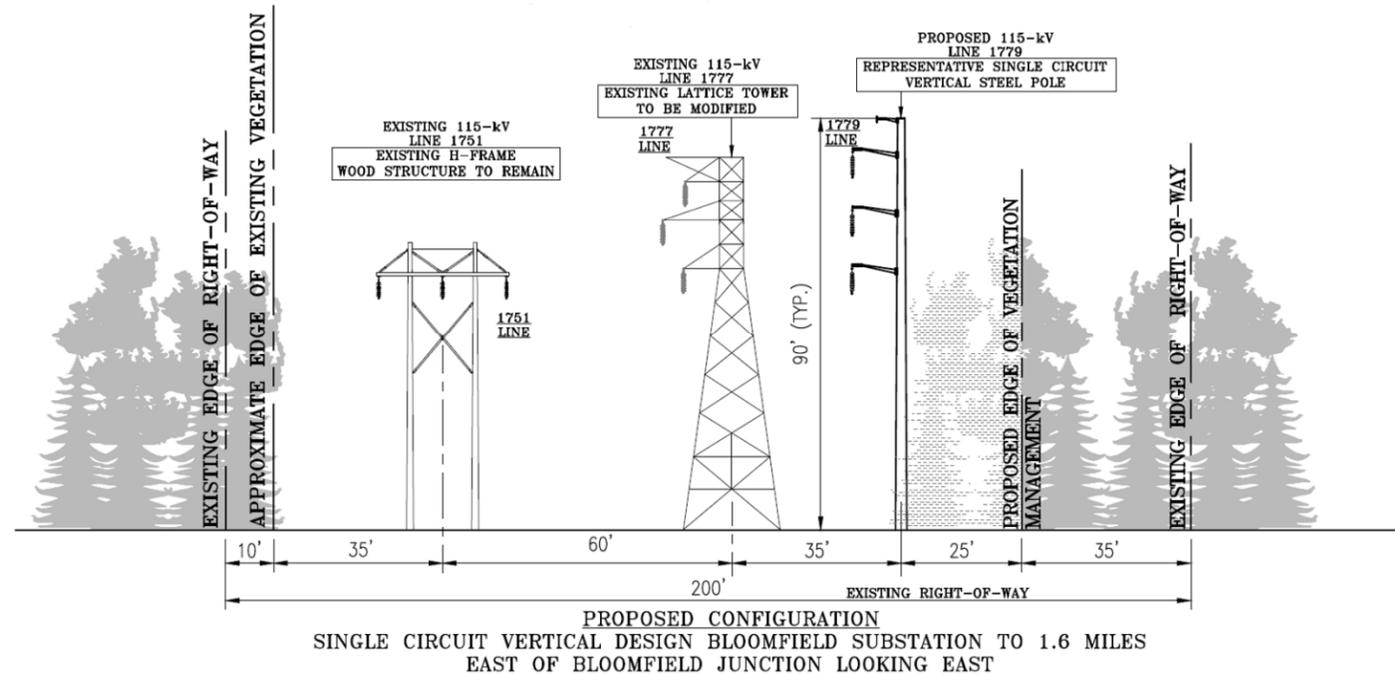
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Sheet 1 of 15

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MAPSHEET 2 of 15

Bloomfield-Windsor Upgrades Project Proposed Route Existing Structure Locations 3-105 to 3-110 Town of Bloomfield, CT



Line List

Number	Owner Name (Now or Formerly)
850 (From Mapsheet 1)	UCOL DAVIS & LORRAINE MORRIS-DAVIS
855 (From Mapsheet 1)	VALENSHA EVANS
856	MARJORIE A CHAMBERS
857	MARCIA & LINNA A BROOKS
858	PATRICIA GRANT
859	ALFRED & MABEL MANNIS
860	BERNICE C HOVENCAMP
862	TOWN OF BLOOMFIELD
866	JANE JEAN JARROW
869	FEDERATION HOMES INC C/O VESTA MANAGEMENT
868.01	CHURCH HOME OF HARTFORD S. YANOFSKY
871	KINGSLEY R WILLIAMS
872	DENNIS MINOR
873	JOHN C & TYESHA WOOD
874	THOMAS A SMITH & DELIA ARROYO
909	STATE OF CONNECTICUT C/O DOT

Area Description

Adjacent Land Use

- Tobacco Valley Open Space Area
- Residential Areas
- Beth Hillel Synagogue
- Laurel Elementary School
- N. Branch Park R. Flood Control Site #2 / Blue Hills Reservoir

Road Crossings

- Florence Road
- Wintonbury Ave

Natural Systems

- Mixed hardwood forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Beaman's Brook and its associated tributaries

Right-of-Way Description

Right-of-Way Land Use

- Residential adjacent to structures 3-106 through 3-109
- Forested adjacent to structure 3-109
- Maintained Transmission Corridor

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands – W1, W1A, W2, W2A, W3
- Wetland Cover Types – PFO, PEM, PSS
- Vernal Pools - None
- Watercourses – PS1 (Beaman's Brook), PS2/PS3 (Unnamed Tributary to Beaman's Brook). These streams are perennial.

Wetland and Watercourse Crossings

- W2, W2A, W3 – Construction mats for access and work pads
- Unnamed Tributary to Beaman's Brook – Temporary stream span required
- Tree clearing /trimming at Wetlands W1, W2, W2A, W3

Listed Species Considerations / BMPs

- See Detail Sheet 1 – Federally Listed Mammals

Right-of-Way Description (Cont.)

Right-of-Way Vegetation

- Old field/shrub land
- Wetland cover noted above
- Forested upland

Potential Access

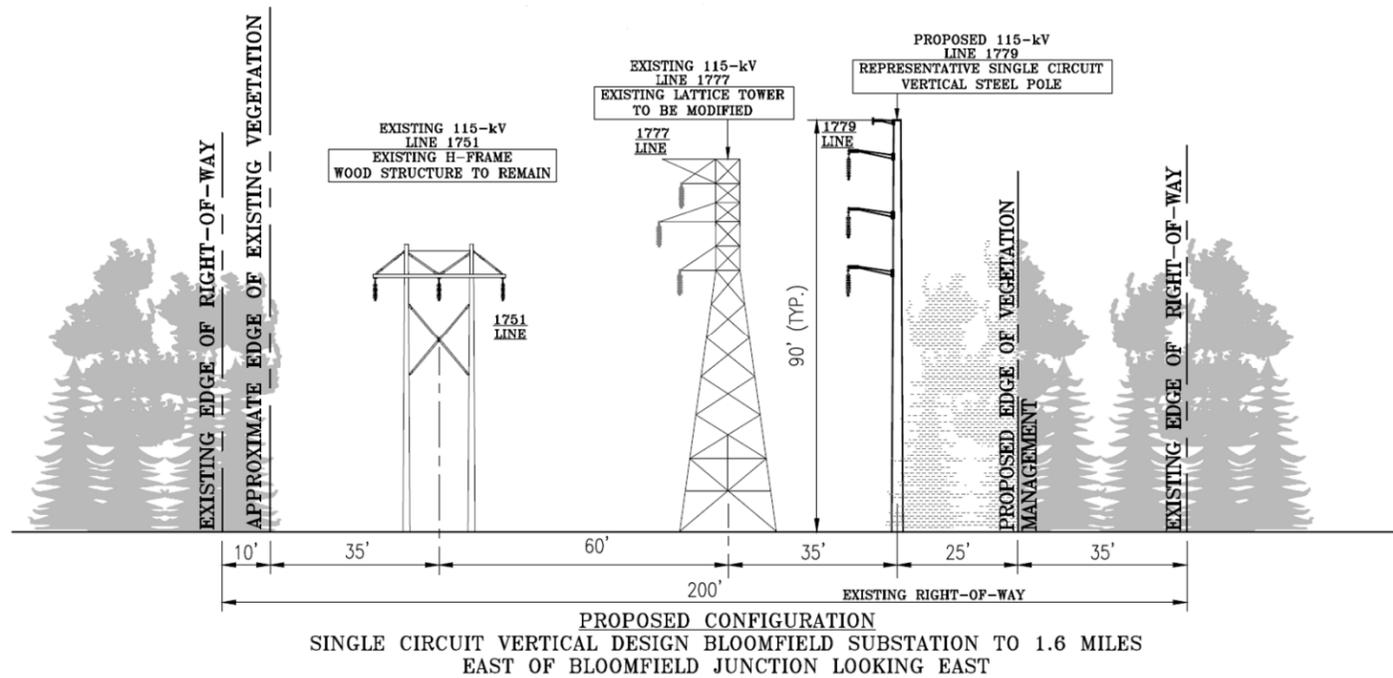
- Florence Road to Structure 3-105_1
- Wintonbury Avenue to Structures 3-106_1 and 3-107_1 to 3-110_1

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

- 130 feet / 25 feet
- In addition to proposed new clearing/trimming extending 25 ft. SE of new structures along the ROW, non-compatible vegetation may be cleared within 45 ft. NW of proposed structures .

MAPSHEET 3 of 15

**Bloomfield-Windsor Upgrades Project
Proposed Route
Existing Structure Locations 3-111 to 3116-1777
Town of Bloomfield, CT**



Line List	
Number	Owner Name (Now or Formerly)
868.01	CHURCH HOME OF HARTFORD S. YANOFKY
876 (From Mapsheet 2)	GLENWOOD GREEN CONDOS MANAGEMENT COMPANY IMAGINEERS
900	STATE OF CONNECTICUT C/O DEPARTMENT OF TRANSPORTATION
901	ALLEN GAUDET JR
906	ALLEN GAUDET JR
907	CURTIS GAUDET SR
908	JOHN T BARNEY
909	STATE OF CONNECTICUT C/O DOT

Area Description

Adjacent Land Use

- CT DEEP Property (Flood Control System) – North Branch Park River Flood Control Site #2 / Blue Hills Reservoir
- Bloomfield Junction (Eversource Transmission Line Junction)
- FEMA 100-Year Flood Plain
- Forested lands
- Wetlands and Vernal Pools

Road Crossings

- None

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Connecticut Natural Diversity Data Base Areas
- Vernal Pools

Right-of-Way Description

Right-of-Way Land Use

- Forested adjacent to structures 3-111 through 1751 tap
- Maintained Transmission Corridor

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands –W3A, W4, W5, W5A
- Wetland Cover Types – PFO, PSS
- Vernal Pools – VP-1779-1, VP-1779-2
- Watercourses – PS3 (Unnamed Tributary to Beaman’s Brook) (Perennial)

Wetland Vernal Pools and Watercourse Crossings

- W3A, W5, W5A – Construction mats for access and work pads
- Tree clearing and trimming at wetlands W3A, W4, W5
- Tree clearing and trimming at vernal pool VP-1779-1

Listed Species Considerations / BMPs

- See Detail Sheet 1 – State Listed Birds
- See Detail Sheet 1 – State Listed Turtles
- See Detail Sheet 1 – Federally Listed Mammals

Right-of-Way Description (Cont.)

Right-of-Way Vegetation

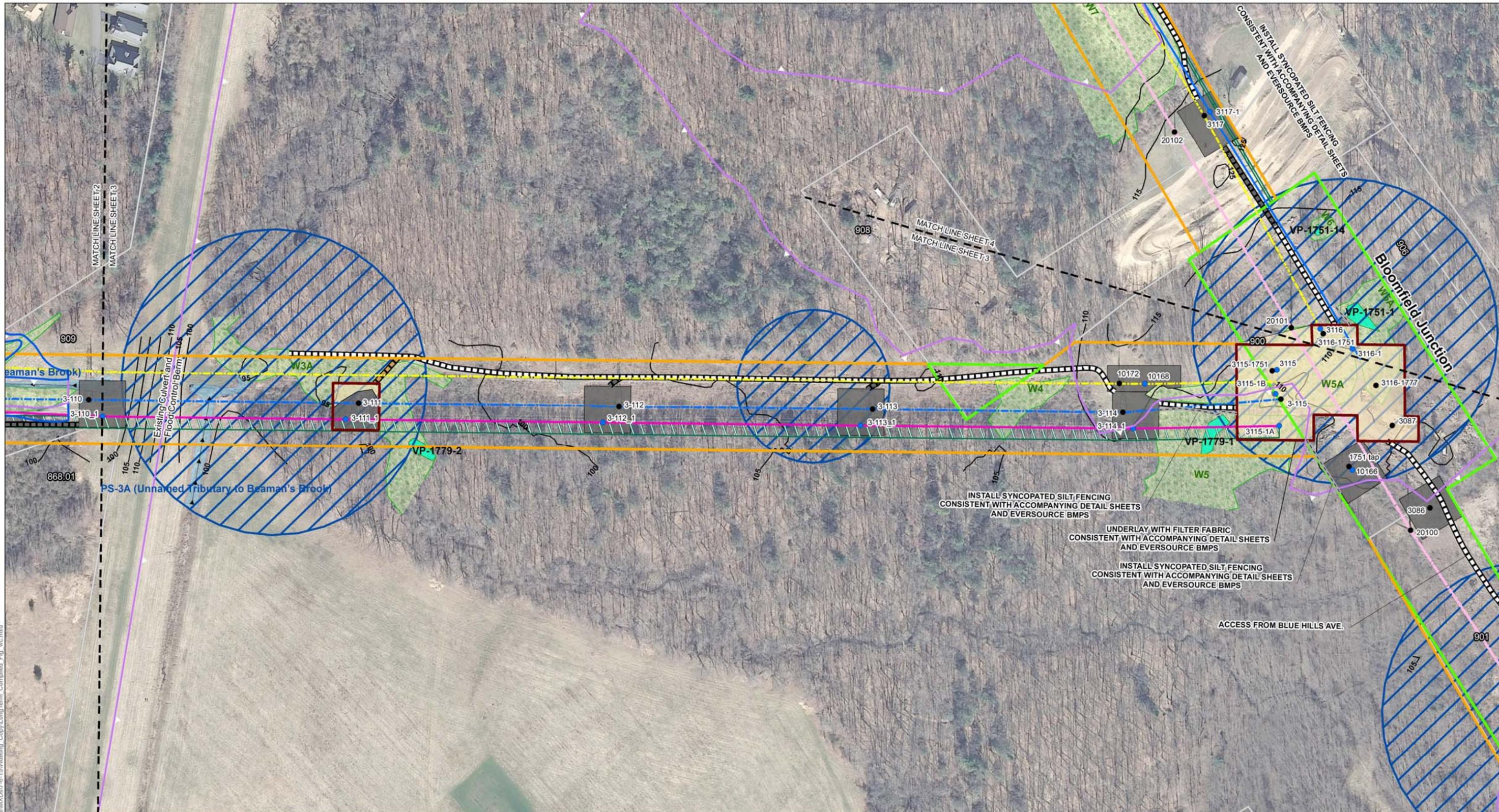
- Old field/shrub land
- Wetland cover types noted above
- Forested upland

Potential Access

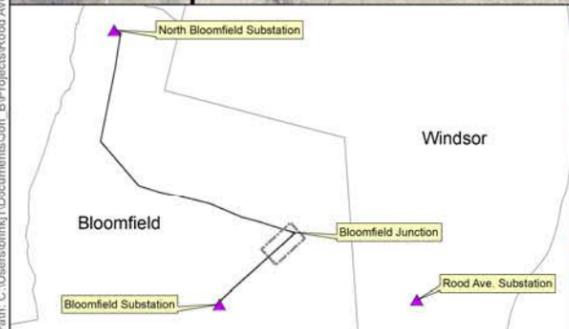
- Access to Structures 3-111_1 through 3116-1777 via existing access roadway located off of Blue Hills Ave.

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

- 130 feet / 25 feet
- In addition to proposed new clearing/trimming extending 25 ft. SE of new structures along the ROW, non-compatible vegetation may be cleared within 45 ft. NW of proposed structures .



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<ul style="list-style-type: none"> --- 1751/1777 Line - Existing --- 1777 Line - Proposed --- 1777/1779 Line - Existing --- 1779 Line - Proposed --- 3642 Line - Existing ● Existing Structure ● Proposed Structure ○ Culvert ■ Eversource Property ■ Eversource Right of Way 	<ul style="list-style-type: none"> □ Parcel Boundary ■ Perennial Stream (e.g. PS-1, PS-2) ■ Wetland Delineation ■ Wetland (e.g. W1, W2) ■ Vernal Pool (VP) ■ Proposed Vegetation Removal Limits ■ Exclusion Fencing (See Detail Sheet BMPs) 	<ul style="list-style-type: none"> ■ Proposed Temporary Access Road Construction Mats ■ Existing Access Road ■ Proposed Access Road - Gravel ■ Proposed Gravel Pad ■ Proposed Timber Mat Pad ■ FEMA 100-Year Flood Zone ■ FEMA 500-Year Flood Zone 	<ul style="list-style-type: none"> --- Syncopated Silt Fencing (See Detail Sheet BMPs) → Stream Flow Direction
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BLOOMFIELD - WINDSOR UPGRADES PROJECT
1777/1779 Line between Bloomfield Substation and Bloomfield Junction
Bloomfield, CT

Linear Units: Foot US
Datum: North American 1983
Projection: Lambert Conformal Conic
Coordinate System: NAD 1983 StatePlane
Connecticut FIPS 0600 Feet
Data Layers and Imagery: USGS Earth Explorer,
CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
Google Earth Imagery, Eversource.

Scale in Feet
0 100 200

Revised: 3/7/2016

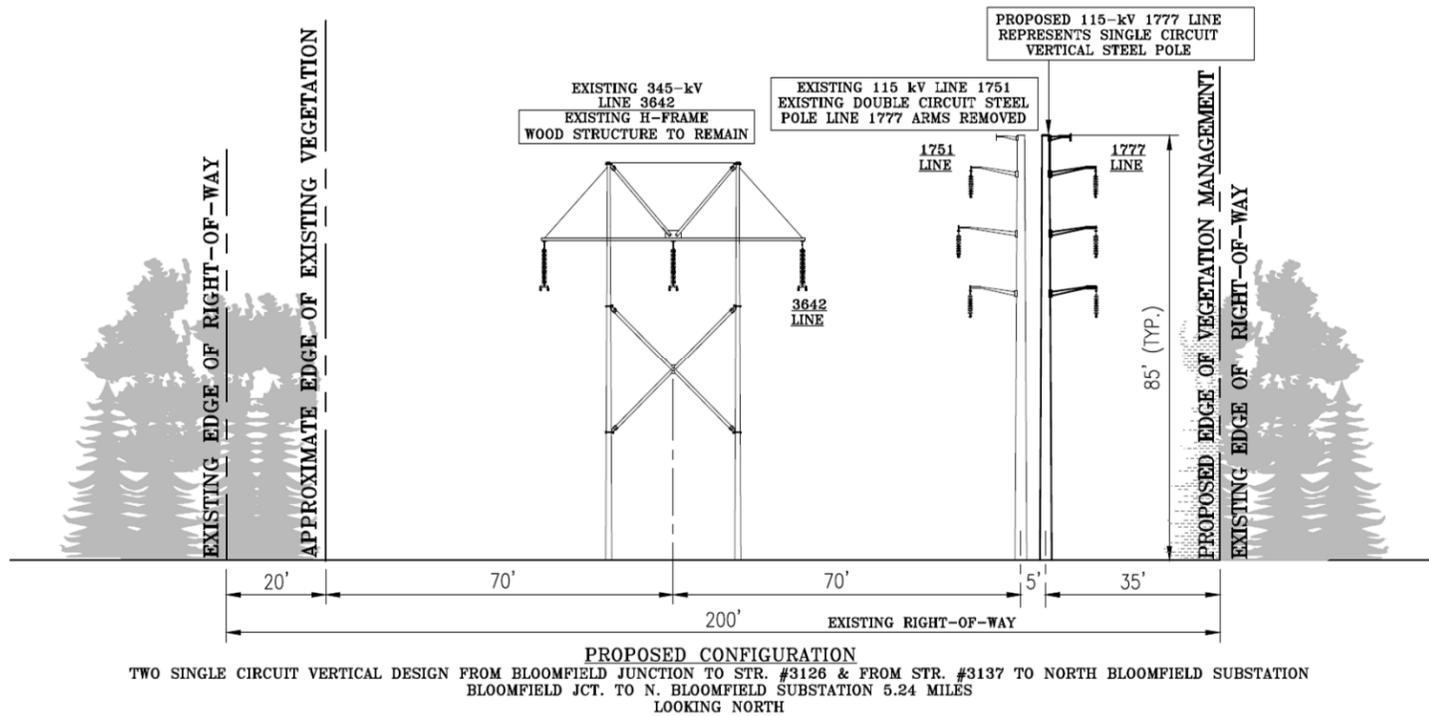
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Sheet 3 of 15

MAPSHEET 4 of 15

**Bloomfield-Windsor Upgrades Project
Proposed Route
Existing Structure Locations 3116-1751 to 3120
Town of Bloomfield, CT**



Line List	
Number	Owner Name (Now or Formerly)
900	STATE OF CONNECTICUT C/O DEPARTMENT OF TRANSPORTATION
906	ALLEN GAUDET JR
908	JOHN T BARNEY
909	STATE OF CONNECTICUT C/O DOT

Area Description

Adjacent Land Use

- CT DEEP Property (Flood Control System) – North Branch Park River Flood Control Site #2 / Blue Hills Reservoir
- Bloomfield Junction (Eversource Transmission Line Junction)
- FEMA 100-Year Flood Plain
- Forested lands
- Wetlands and Vernal Pools
- Bloomfield Public Works Department
- Motocross Track

Road Crossings

- None

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Connecticut Natural Diversity Data Base Areas
- Vernal Pools

Right-of-Way Description

Right-of-Way Land Use

- Forested
- Maintained Transmission Corridor

Wetlands, Vernal Pool, Watercourses and Waterbodies

- Wetlands – W6, W7, W7A, W8, W9, W9A, W10
- Wetland Cover Types – PFO, PSS, PEM
- Vernal Pools – VP-1751-1, VP-1751-14, VP-1751-3, VP-1751-4, VP-1751-5, VP-1751-6, PVP-1751-1, PVP-1751-2
- Watercourses and Waterbodies - None

Wetland, Vernal Pool and Watercourse Crossings

- W8, W9, W9A – Construction mats for access and work pads
- Tree clearing and trimming at wetlands W7A, W8, W9A
- Tree clearing and trimming at vernal pools VP-1751-5 .
- Work areas adjacent to, but outside of, VP-1751-1 and VP-1751-3.

Right-of-Way Description (Cont.)

Listed Species Considerations / BMPs

- See Detail Sheet 1 – State Listed Birds
- See Detail Sheet 1 – Federally Listed Mammals

Right-of-Way Vegetation

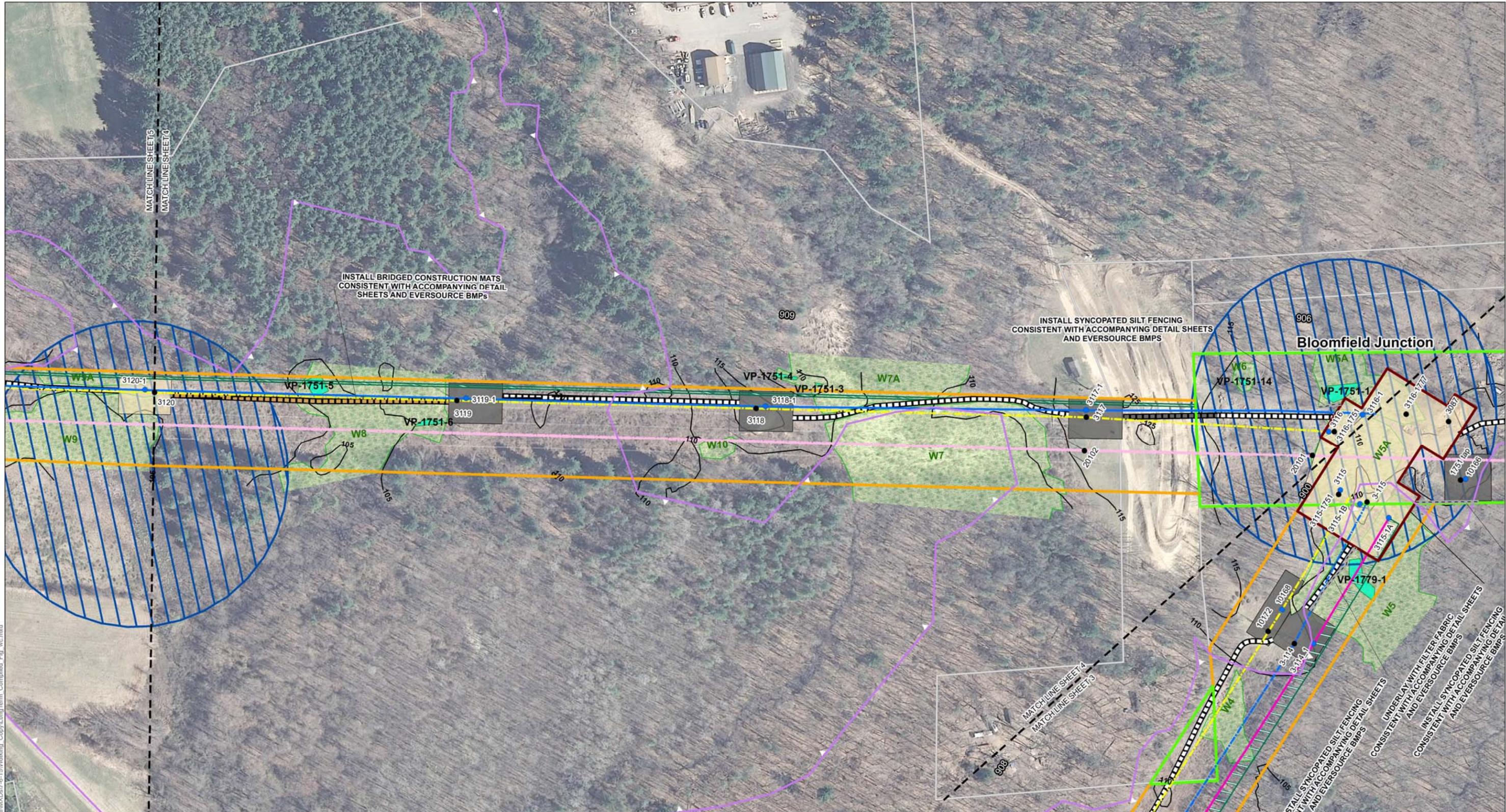
- Old field/shrub land
- Wetland cover types noted above
- Forested upland
- Motocross Track

Potential Access

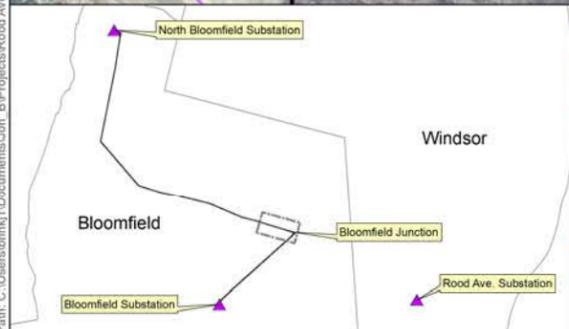
- Access to Structures 3116-1751 through 3120_1 via existing access roadway located off of Blue Hills Ave
- Access to Structures 3116-1751 through 3120_1 via Filley Street
- Motocross track crossing to be discussed with property owners; may affect potential structure access

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

- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the northern ROW edge.



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<ul style="list-style-type: none"> --- 1751/1777 Line - Existing --- 1777 Line - Proposed --- 1777/1779 Line - Existing --- 1779 Line - Proposed --- 3642 Line - Existing ● Existing Structure ● Proposed Structure ○ Culvert ■ Eversource Property ■ Eversource Right of Way 	<ul style="list-style-type: none"> □ Parcel Boundary ■ Perennial Stream (e.g. PS-1, PS-2) ■ Wetland Delineation ■ Wetland (e.g. W1, W2) ■ Vernal Pool (VP) ■ Proposed Vegetation Removal Limits ■ Exclusion Fencing (See Detail Sheet BMPs) 	<ul style="list-style-type: none"> ■ Proposed Temporary Access Road Construction Mats ■ Existing Access Road ■ Proposed Access Road - Gravel ■ Proposed Gravel Pad ■ Proposed Timber Mat Pad ■ FEMA 100-Year Flood Zone ■ FEMA 500-Year Flood Zone 	<ul style="list-style-type: none"> --- Syncopated Silt Fencing (See Detail Sheet BMPs) → Stream Flow Direction
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BLOOMFIELD - WINDSOR UPGRADES PROJECT
 1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
 Bloomfield, CT

Linear Units: Foot US
 Datum: North American 1983
 Projection: Lambert Conformal Conic
 Coordinate System: NAD 1983 StatePlane
 Connecticut FIPS 0600 Feet
 Datalayers and Imagery: USGS Earth Explorer,
 CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
 Google Earth Imagery, Eversource.

Scale in Feet
 0 100 200

Revised: 3/7/2016

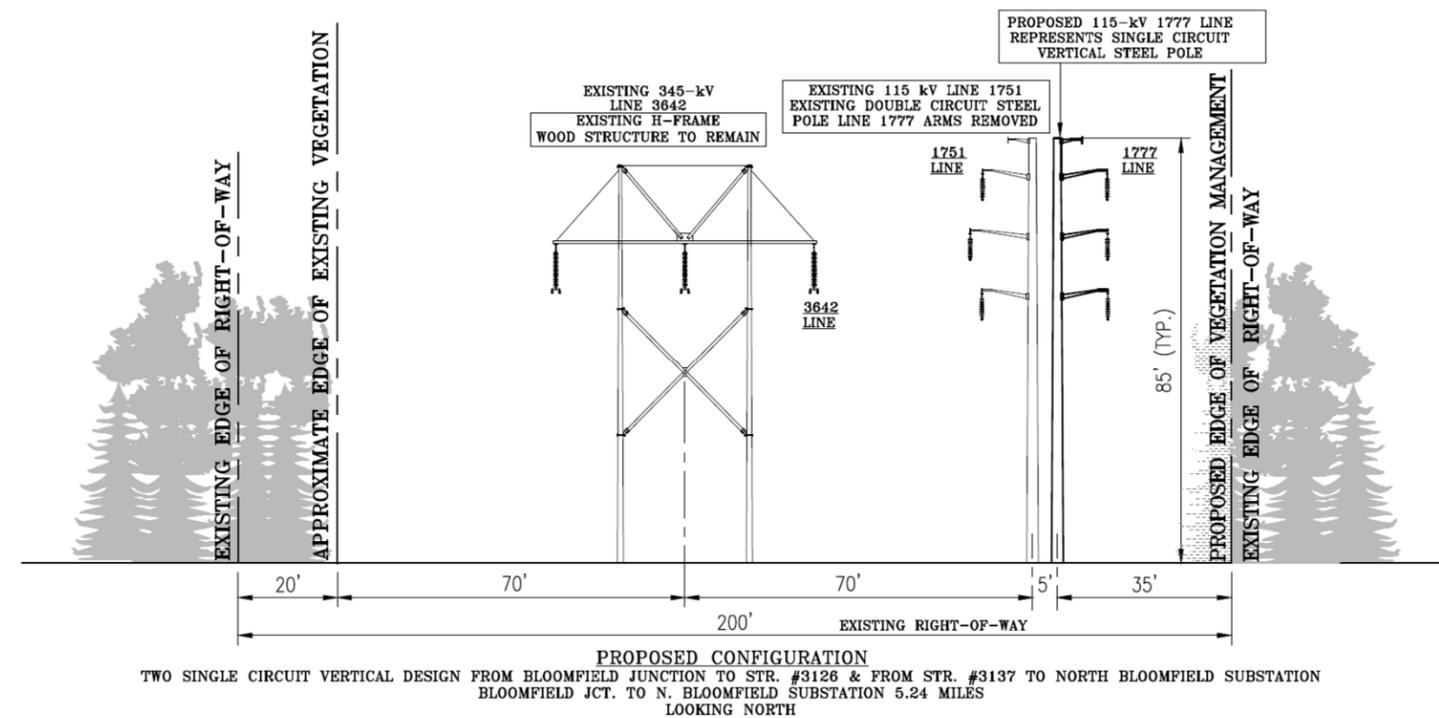
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Sheet 4 of 15

MAPSHEET 5 of 15

Bloomfield-Windsor Upgrades Project Proposed Route Existing Structure Locations 3120 to 3124 Town of Bloomfield, CT



Line List	
Number	Owner Name (Now or Formerly)
909	STATE OF CONNECTICUT C/O DOT
914	BENNETT COHENS III
915	CRAIG A CHIN SANG
917.11	LISA M LARENSEN
917.12	MICHAEL R THOMAS
918	TOWN OF BLOOMFIELD
920.01	STATE OF CONNECTICUT C/O DOT

Area Description

Adjacent Land Use

- CT DEEP Property (Flood Control System) – North Branch Park River Flood Control Site #1 / Wintonbury Reservoir
- CT DEEP Property (Flood Control System) – North Branch Park River Flood Control Site #2 / Blue Hills Reservoir
- FEMA 100-Year Flood Plain
- Forested lands
- Wetland areas
- Residential Areas

Road Crossings

- Filley Street

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Connecticut Natural Diversity Data Base Areas

Right-of-Way Description

Right-of-Way Land Use

- Residential
- Forested
- Maintained Transmission Corridor

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands –W9, W9A, W9B, W9C, W9D, W11
- Wetland Cover Types – PFO, PSS, PEM
- Vernal Pools, Watercourses and Waterbodies - None

Wetland Vernal Pools, and Watercourse Crossings

- W9, W9A, W9C, W11 – Construction mats for access and work pads
- Tree clearing and trimming at wetlands W9A, W9B, W11

Listed Species Considerations / BMPs

- See Detail Sheet 1 – State Listed Birds
- See Detail Sheet 1 – Federally Listed Mammals

Right-of-Way Description (Cont.)

Right-of-Way Vegetation

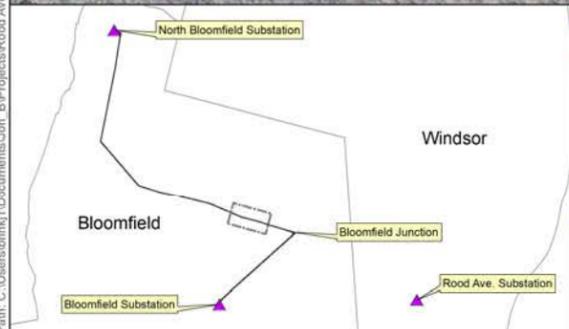
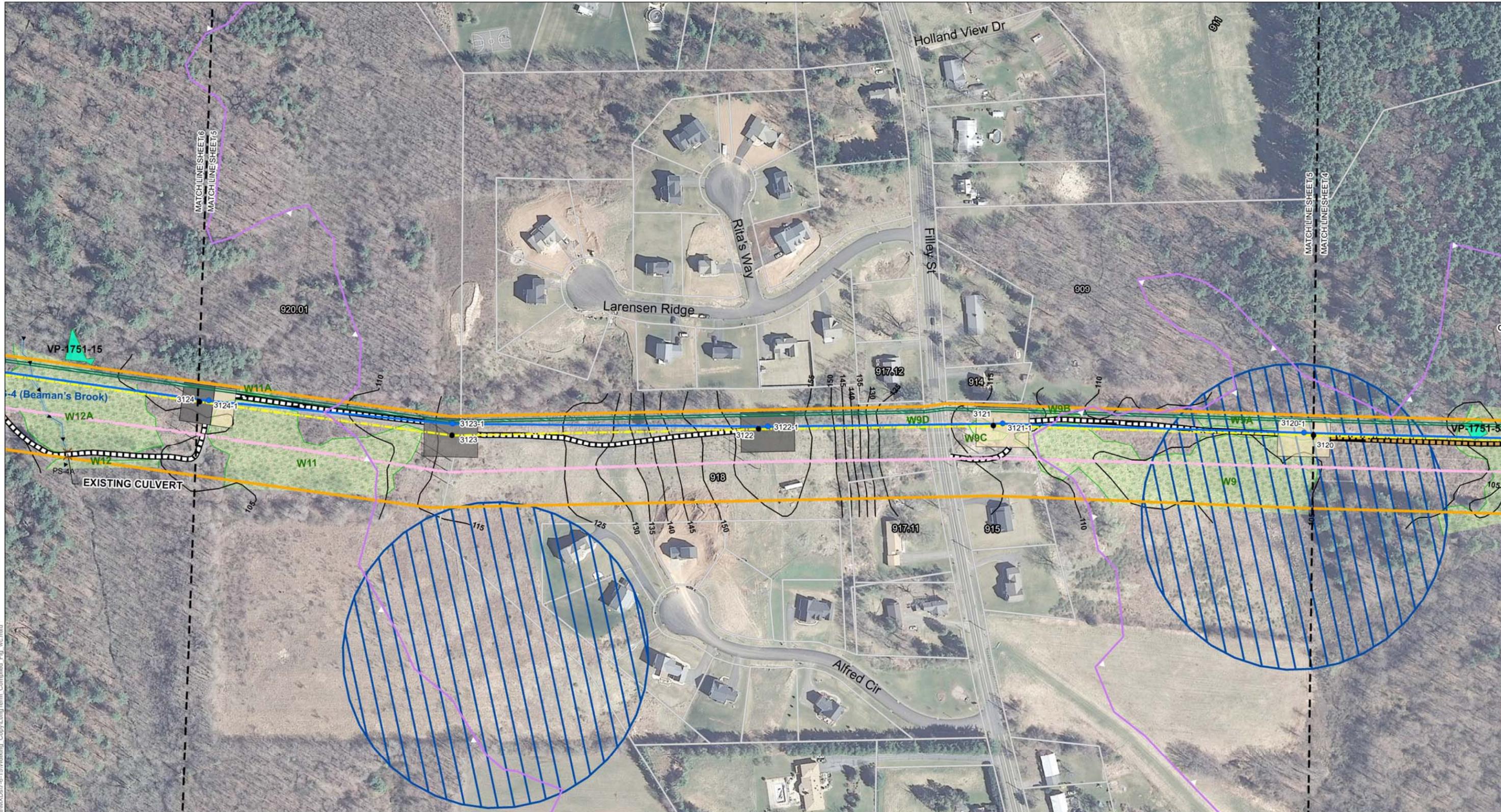
- Old field/shrub land
- Wetland cover types noted above
- Forested upland

Potential Access

- Access to Structures 3120-_1 through 3121_1 via Filley Street
- Additionally, access to Structures 3120-_1 through 3121_1 possibly via existing access roadway located off of Blue Hills Ave
- Access to Structures 3123-_1 through 3124_1 via Woodland Ave.

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

- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the northern ROW edge.



<ul style="list-style-type: none"> 1751/1777 Line - Existing 1777 Line - Proposed 3642 Line - Existing Existing Structure Proposed Structure Culvert Eversource Property Eversource Right of Way 	<ul style="list-style-type: none"> Parcel Boundary Perennial Stream (e.g. PS-1, PS-2) Wetland Delineation Wetland (e.g. W1, W2) Vernal Pool (VP) Proposed Vegetation Removal Limits 	<ul style="list-style-type: none"> Proposed Temporary Access Road Construction Mats Existing Access Road Proposed Access Road - Gravel Proposed Gravel Pad Proposed Timber Mat Pad FEMA 100-Year Flood Zone FEMA 500-Year Flood Zone 	<ul style="list-style-type: none"> Syncopated Silt Fencing (See Detail Sheet BMPs) Stream Flow Direction
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BLOOMFIELD - WINDSOR UPGRADES PROJECT
 1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
 Bloomfield, CT

Linear Units: Foot US
 Datum: North American 1983
 Projection: Lambert Conformal Conic
 Coordinate System: NAD 1983 StatePlane
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Scale in Feet
 0 100 200

Revised: 3/7/2016

EVERSOURCE

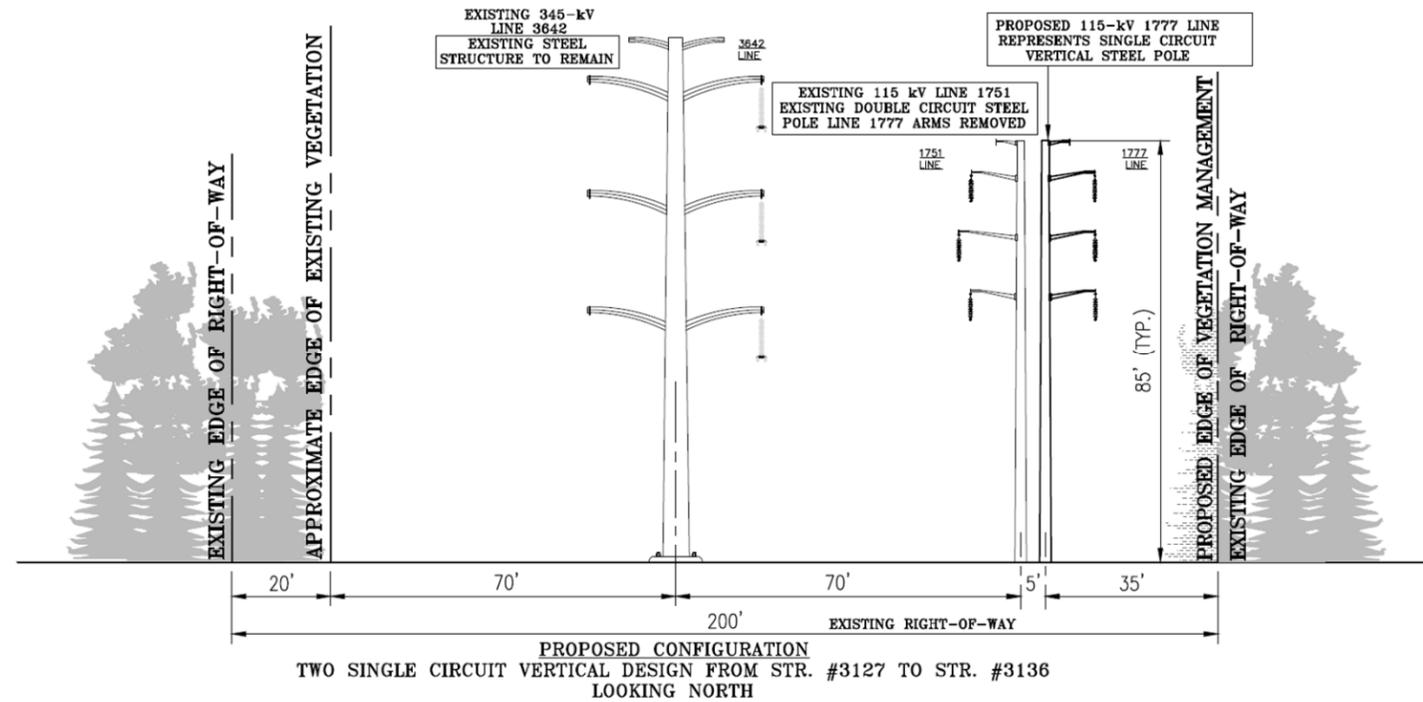
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Sheet 5 of 15

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MAPSHEET 6 of 15

Bloomfield-Windsor Upgrades Project
Proposed Route
Existing Structure Locations 3124 to 3128
Town of Bloomfield, CT



Line List	
Number	Owner Name (Now or Formerly)
920.01	STATE OF CONNECTICUT C/O DOT
923	ROBERT K & GENEVA G GIDDINGS
925	ROBERT H & MELINDA S ALEXANDER
926	MAE GHEE
929	CLZ REALTY LLC
930	CHRISTOPHER ROSE & LAKEISHA WHITTINGHAM
931	MARCIA Z BONITO
952	WILLIAM H JR & JOANNE H FUSS

Area Description

Adjacent Land Use

- CT DEEP Property (Flood Control System) – North Branch Park River Flood Control Site #1 / Wintonbury Reservoir
- FEMA 100-Year Flood Plain
- Forested lands
- Wetland areas
- Residential areas

Road Crossings

- None

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Vernal Pool

Right-of-Way Description

Right-of-Way Land Use

- Residential
- Forested
- Maintained Transmission Corridor

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands – W12, W12A, W13, W14
- Wetland Cover Types – PFO, PSS
- Watercourses – PS4 (Beaver Brook); PS5 (Unnamed Tributary to Beaver Brook). Both are perennial.
- Vernal Pools - None.

Wetland and Watercourse Crossings

- W13 – Construction mats for access and work pads
- Tree clearing and trimming at wetlands W12A, W14

Listed Species Considerations / BMPs

- See Detail Sheet 1 – Federally Listed Mammals

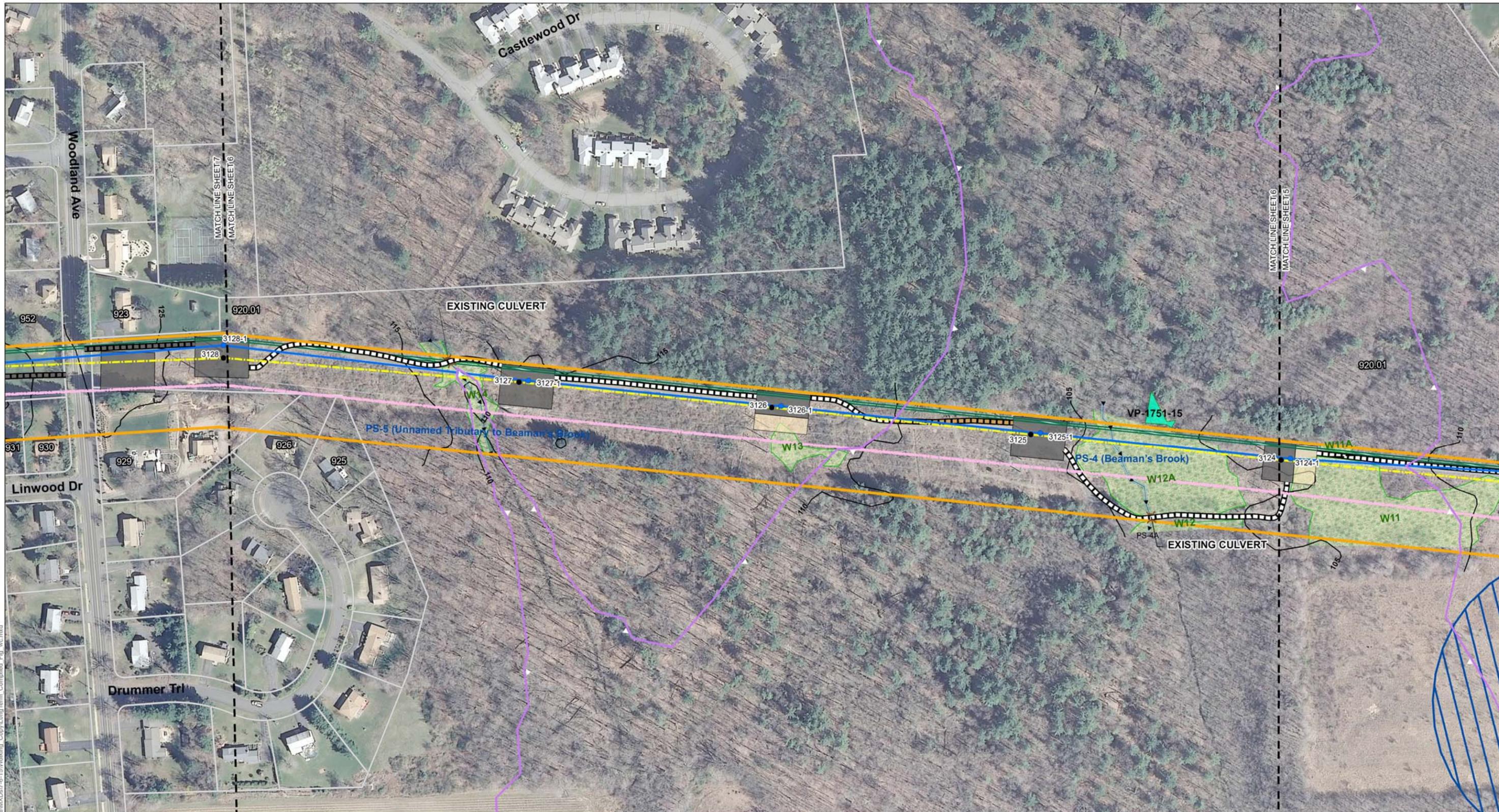
Right-of-Way Description (Cont.)

Right-of-Way Vegetation

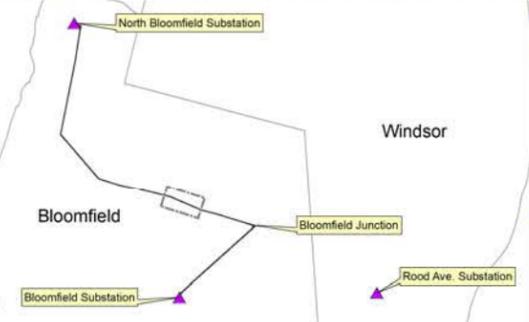
- Old field/shrub land
- Wetland cover types noted above
- Forested upland
- Residential and State-Owned Properties

Potential Access

- Access to Structures 3128_1 through 3124_1 via Woodland Ave
- Existing Maintained ROW Width/ Proposed Right-of-Way Clearing
- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the northern ROW edge.



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1751/1777 Line - Existing	Parcel Boundary	Proposed Temporary Access Road Construction Mats	Syncopated Silt Fencing (See Detail Sheet BMPs)
1777 Line - Proposed	Perennial Stream (e.g. PS-1, PS-2)	Existing Access Road	Stream Flow Direction
3642 Line - Existing	Wetland Delineation	Proposed Access Road - Gravel	
Existing Structure	Wetland (e.g. W1, W2)	Proposed Gravel Pad	
Proposed Structure	Vernal Pool (VP)	Proposed Timber Mat Pad	
Culvert	Proposed Vegetation Removal Limits	FEMA 100-Year Flood Zone	
Eversource Property		FEMA 500-Year Flood Zone	
Eversource Right of Way			

BLOOMFIELD - WINDSOR UPGRADES PROJECT
 1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
 Bloomfield, CT

Linear Units: Foot US
 Datum: North American 1983
 Projection: Lambert Conformal Conic
 Coordinate System: NAD 1983 StatePlane
 Connecticut FIPS 0600 Feet
 Datalayers and Imagery: USGS Earth Explorer,
 CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
 Google Earth Imagery, Eversource.

Scale in Feet
 0 100 200

Revised: 3/7/2016

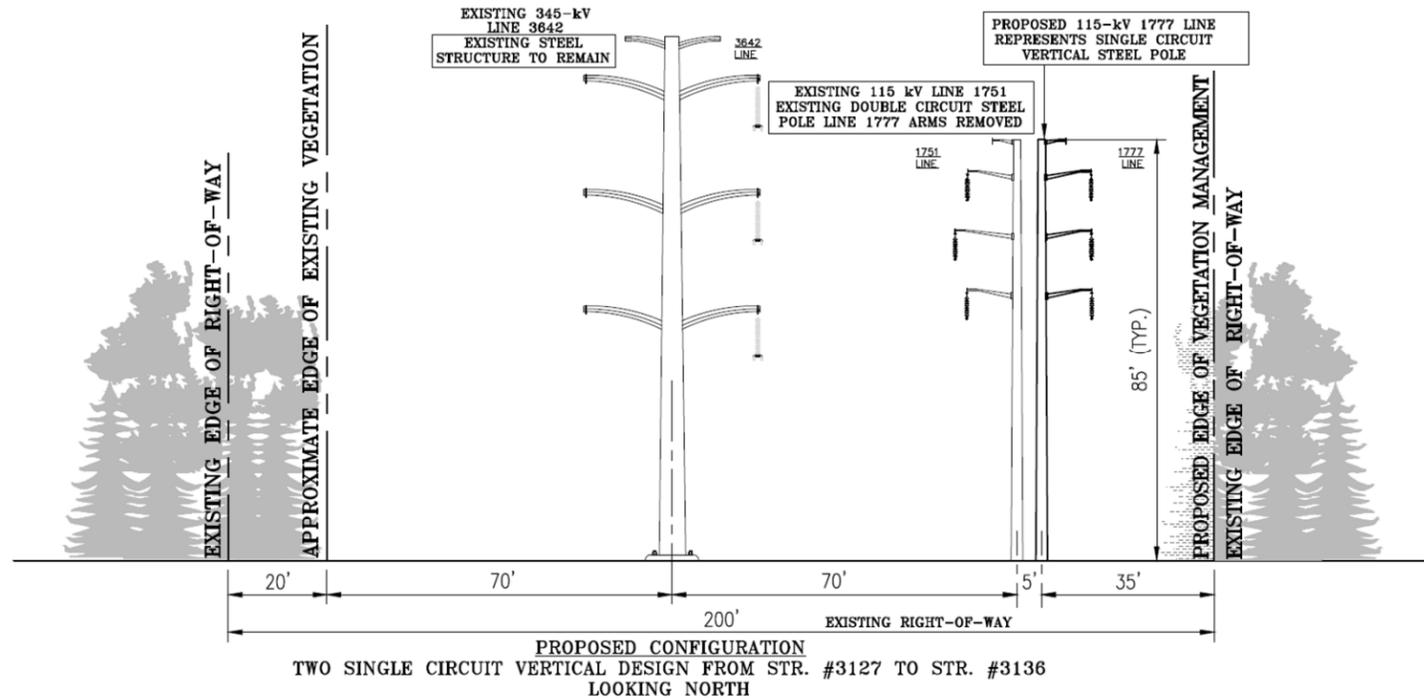
EVERSOURCE

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Sheet 6 of 15

MAPSHEET 7 of 15

Bloomfield-Windsor Upgrades Project Proposed Route Existing Structure Locations 3128 to 3133 Town of Bloomfield, CT



Area Description

Adjacent Land Use

- FEMA 100-Year Flood Plain
- Wetland areas
- Residential areas
- Railroad Tracks

Road Crossings

- Woodland Ave.
- Railroad Tracks

Natural Systems

- State/Federal Jurisdictional Wetlands and Watercourses

Right-of-Way Description

Right-of-Way Land Use

- Residential adjacent to structures 3128-1 through 3133-1
- Maintained Transmission Corridor

Right-of-Way Description (Cont.)

Wetlands, Watercourses and Waterbodies

- Wetlands – W15, W16, W16A
- Wetland Cover Types – PEM, PSS
- Watercourses – PS6 (Unnamed Tributary to Wash Brook). Stream is perennial.

Wetland and Watercourse Crossings

- No mats or clearing required (only overhead crossing)

Right-of-Way Vegetation

- Old field/shrub land
- Wetland cover types noted above
- Forested upland
- Residential Properties

Potential Access

- Access to Structures 3128_1 through 3133_1 via Woodland Ave

Line List

Number	Owner Name (Now or Formerly)	Number	Owner Name (Now or Formerly)
920.01	STATE OF CONNECTICUT C/O DOT	948	ALVIN & ALTHEA SMITH
923	ROBERT K & GENEVA G GIDDINGS	949	PHYLLIS PERRY
925	ROBERT H & MELINDA S ALEXANDER	950	DONVILLE BELL & SHARON E KELLY-BELL
926	MAE GHEE	951	MILDRED L MAY (LIFE USE) & KIMBERLY MAY-BAILEY
929	CLZ REALTY LLC	952	WILLIAM H JR & JOANNE H FUSS
930	CHRISTOPHER ROSE & LAKEISHA WHITTINGHAM	956	MELVIN PAGAN & ELIZABETH REYES
931	MARCIA Z BONITO	957	ANTONIO & JULIA RIVERA
932	VENNIEL T & EULANDO CLARKE	958	ROBERT N & LAURA J FONTAINE
933	CLAUDE L ROBERSON	959	GEORGE B & SHEILDA S GARRISON
934	ANITA E MABEE	960	THOMAS JR & CHERYL W DILLON
935	BARRINGTON A & SONIA P POWELL	961	EDWIN & JANNETTE R CARRILLO
936	MABEL J LAWRENCE	962	ANDREW V & MICHELLE D NELSON
937	ADETOKUNBO A ADEWUYI	963	GEORGE & LOREEN HIGGINS
938	YARITZA MONTALVO & ANGELA CLEVELAND	964	JOHN E JR & CARMEN A GOODE
939	MICHAEL A & PETRINA C REID	965	DEBBY A FOSTER
940	WILLIAM RIVERA & DENNIS SANTIAGO-RIVERA	966	ANTHONY G & MICHELLE N MAHON
941	GRISelda BURROUGHS	967	KIMBERLY F UPSHAW
942	JAMES MURPHY	968	LESLEY MEYERS
943	ONEIL R WEBB	974	CLIFFORD & JEANETTE J DAVIS
944	LEONIE E HALL	975	HORTENSE BAILEY
945	KRYSTAL MARSHALL	975.01	CONNDOT RAILS/ CENTRAL NEW ENGLAND RAILROAD
946	ELEANOR M PALMER	978	ANN DENISE JAMESON
947	FAYE WELLINGTON	979	DONALD L & MARGUERITE M EVANS

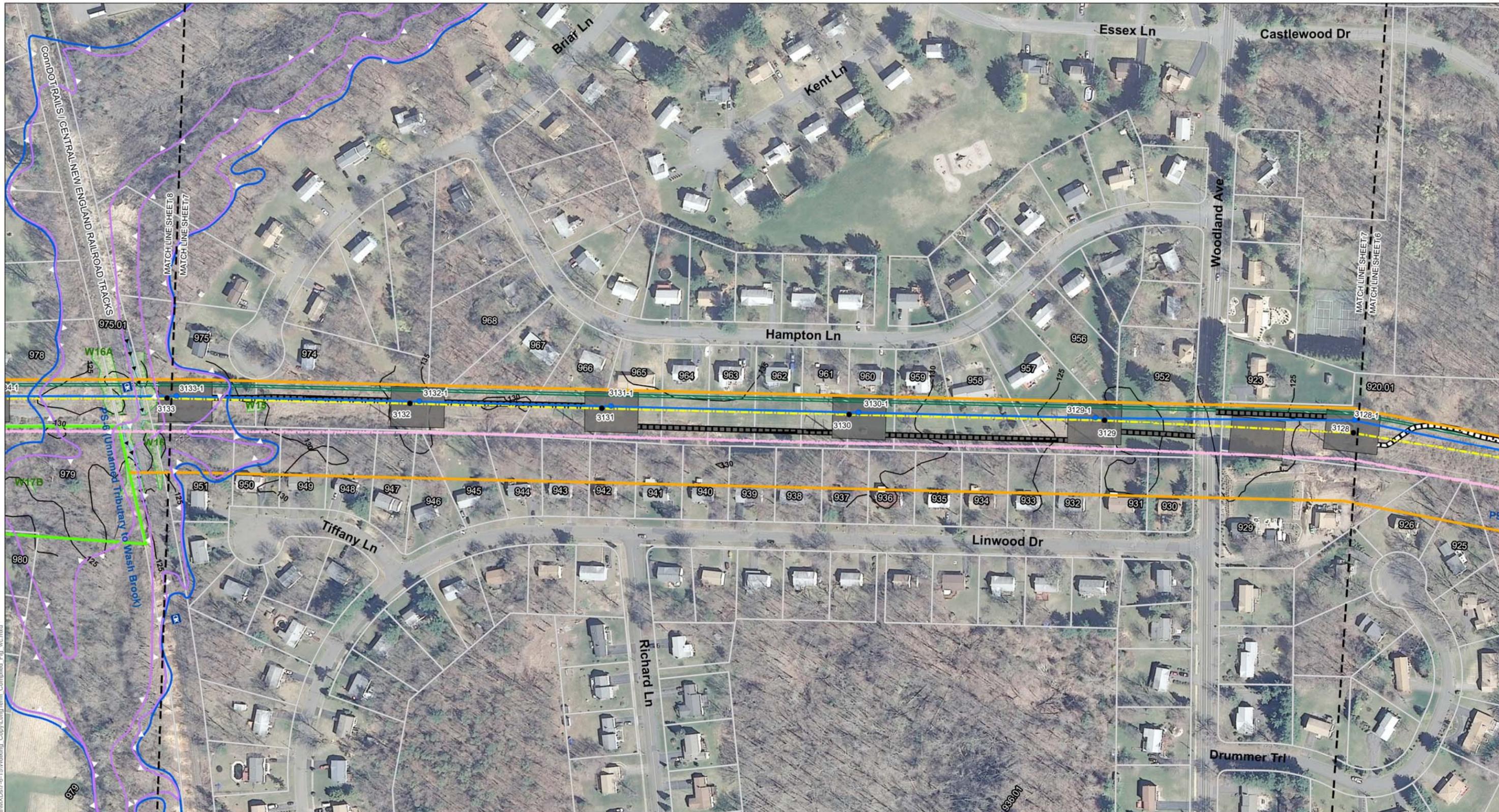
Right-of-Way Description (Cont.)

Listed Species Considerations / BMPs

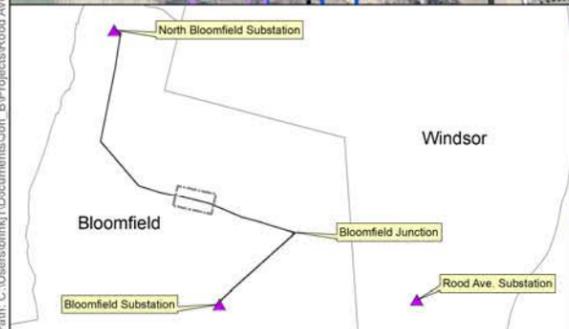
- None

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

- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the northern ROW edge.



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1751/1777 Line - Existing	Parcel Boundary	Proposed Temporary Access Road Construction Mats	Syncopated Silt Fencing (See Detail Sheet BMPs)
1777 Line - Proposed	Perennial Stream (e.g. PS-1, PS-2)	Existing Access Road	Stream Flow Direction
3642 Line - Existing	Wetland Delineation	Proposed Access Road - Gravel	Railroad
Existing Structure	Wetland (e.g. W1, W2)	Proposed Gravel Pad	
Proposed Structure	Vernal Pool (VP)	Proposed Timber Mat Pad	
Culvert	Proposed Vegetation Removal Limits	FEMA 100-Year Flood Zone	
Eversource Property		FEMA 500-Year Flood Zone	
Eversource Right of Way			

BLOOMFIELD - WINDSOR UPGRADES PROJECT
 1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
 Bloomfield, CT

Linear Units: Foot US
 Datum: North American 1983
 Projection: Lambert Conformal Conic
 Coordinate System: NAD 1983 StatePlane
 Connecticut FIPS 0600 Feet
 Datalayers and Imagery: USGS Earth Explorer,
 CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
 Google Earth Imagery, Eversource.

Scale in Feet
 0 100 200

Revised: 3/7/2016

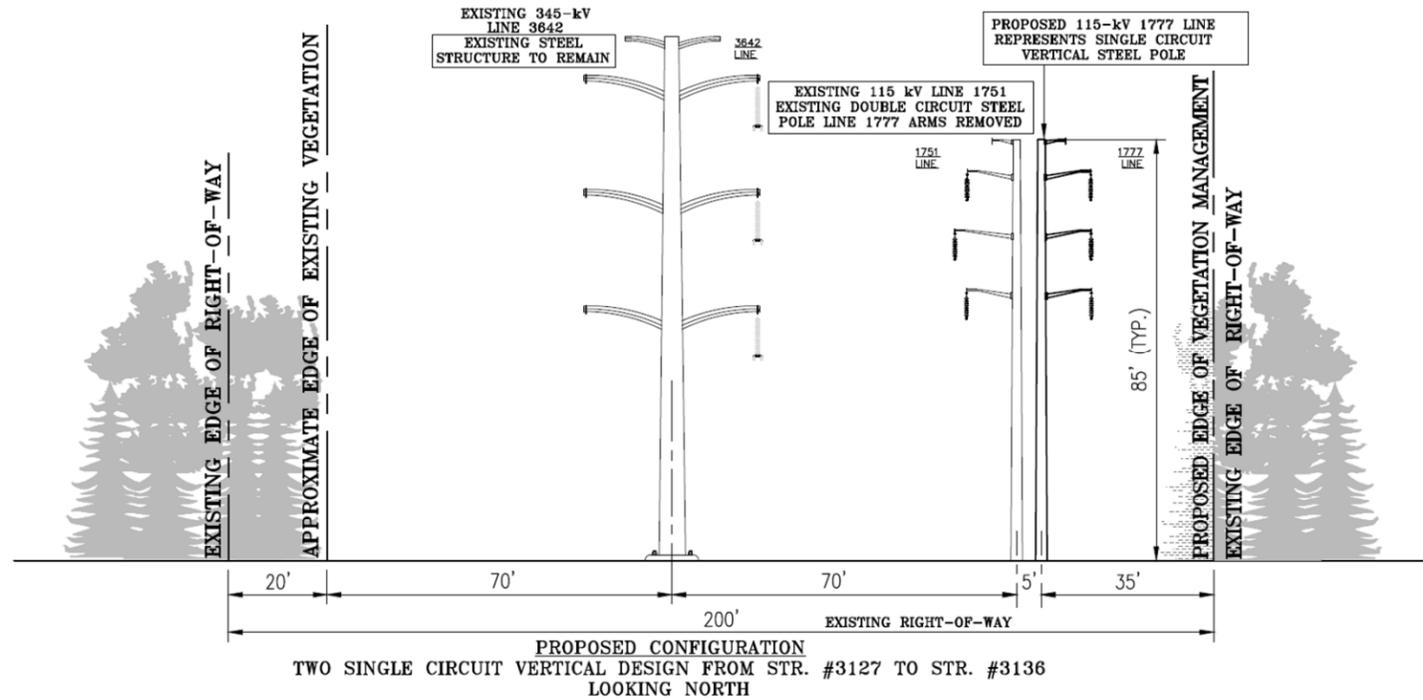
EVERSOURCE

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Sheet 7 of 15

MAPSHEET 8 of 15

Bloomfield-Windsor Upgrades Project Proposed Route Existing Structure Locations 3133 to 3137 Town of Bloomfield, CT



Line List	
Number	Owner Name (Now or Formerly)
948	ALVIN & ALTHEA SMITH
949	PHYLLIS PERRY
950	DONVILLE BELL & SHARON E KELLY-BELL
951	MILDRED L MAY (LIFE USE) & KIMBERLY MAY-BAILEY
974	CLIFFORD & JEANETTE J DAVIS
975	HORTENSE BAILEY
975.01	CONNDOT RAILS / CENTRAL NEW ENGLAND RAILROAD
978	ANN DENISE JAMESON
979	DONALD L & MARGUERITE M EVANS
980	EMMANUEL LANRE & AGNES TOLA OSINUGA
985	THE CONNECTICUT LIGHT & POWER COMPANY
986	ALFRED E & MARGARET S EHRHARDT
988	VANCE & DARLENE PRZASNYSKI
991	STATE OF CONNECTICUT C/O DOT

Area Description

Adjacent Land Use

- CT DEEP Property (Flood Control System) – North Branch Park River Flood Control Site #3 / Tunxis Reservoir
- FEMA 100-Year Flood Plain
- Wetland areas
- Residential areas
- Railroad Tracks

Road Crossings

- Railroad Tracks
- Tunxis Ave.

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses

Right-of-Way Description

Right-of-Way Land Use

- Residential
- State Owned Land and Flood Control Features
- Maintained Transmission Corridor

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands – W16, W16A, W17, W17A, W17B
- Wetland Cover Types – PFO, PSS
- Watercourses – PS6 (Unnamed Tributary to Wash Brook); PS7 (Wash Brook). Both are perennial.
- Vernal Pools - None

Wetland, Vernal Pool, and Watercourse Crossings

- W17 – Construction mats for access and tree clearing
- Tree clearing or trimming may be required at wetland W17

Listed Species Considerations / BMPs

- See Detail Sheet 1 – Federally Listed Mammals

Right-of-Way Description (Cont.)

Right-of-Way Vegetation

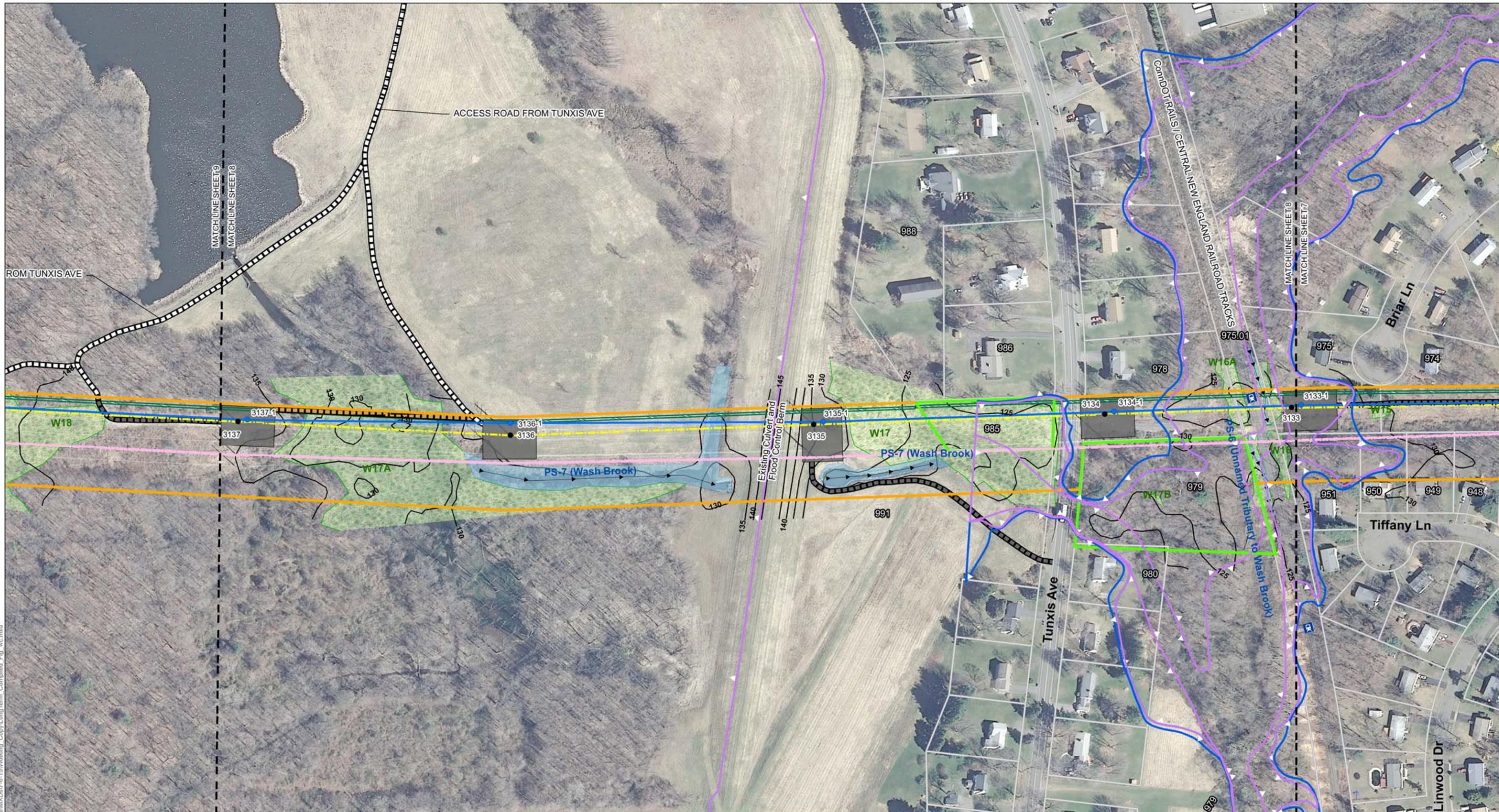
- Old field/shrub land
- Wetland cover types noted above
- Forested upland
- Residential and State-Owned Properties

Potential Access

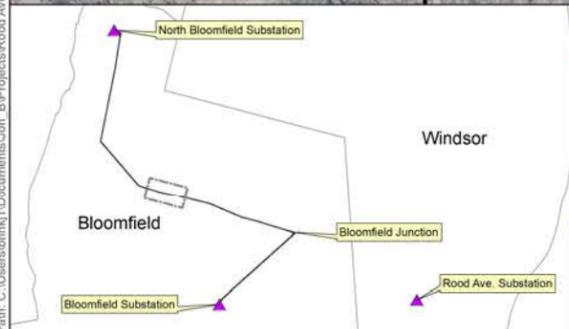
- Access to Structures 3134_1 through 3135_1 via Tunxis Ave.
- Access to Structures 3136_1 through 3137_1 via Tunxis Ave./CT DOT Property

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

- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the northern ROW edge.



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<ul style="list-style-type: none"> — 1751/1777 Line - Existing — 1777 Line - Proposed — 3642 Line - Existing ● Existing Structure ● Proposed Structure — Culvert — Eversource Property — Eversource Right of Way 	<ul style="list-style-type: none"> □ Parcel Boundary ▬ Perennial Stream (e.g. PS-1, PS-2) ▬ Wetland Delineation ▬ Wetland (e.g. W1, W2) ▬ Vernal Pool (VP) ▬ Proposed Vegetation Removal Limits 	<ul style="list-style-type: none"> ▬ Proposed Temporary Access Road Construction Mats ▬ Existing Access Road ▬ Proposed Access Road - Gravel ▬ Proposed Gravel Pad ▬ Proposed Timber Mat Pad ▬ FEMA 100-Year Flood Zone ▬ FEMA 500-Year Flood Zone 	<ul style="list-style-type: none"> ▬ Syncopated Silt Fencing (See Detail Sheet BMPs) ▬ Stream Flow Direction ▬ Railroad
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BLOOMFIELD - WINDSOR UPGRADES PROJECT
1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
Bloomfield, CT

Linear Units: Foot US
Datum: North American 1983
Projection: Lambert Conformal Conic
Coordinate System: NAD 1983 StatePlane
Connecticut FIPS 0600 Feet
Data Layers and Imagery: USGS Earth Explorer,
CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
Google Earth Imagery, Eversource.

Scale in Feet
0 100 200

Revised: 3/7/2016

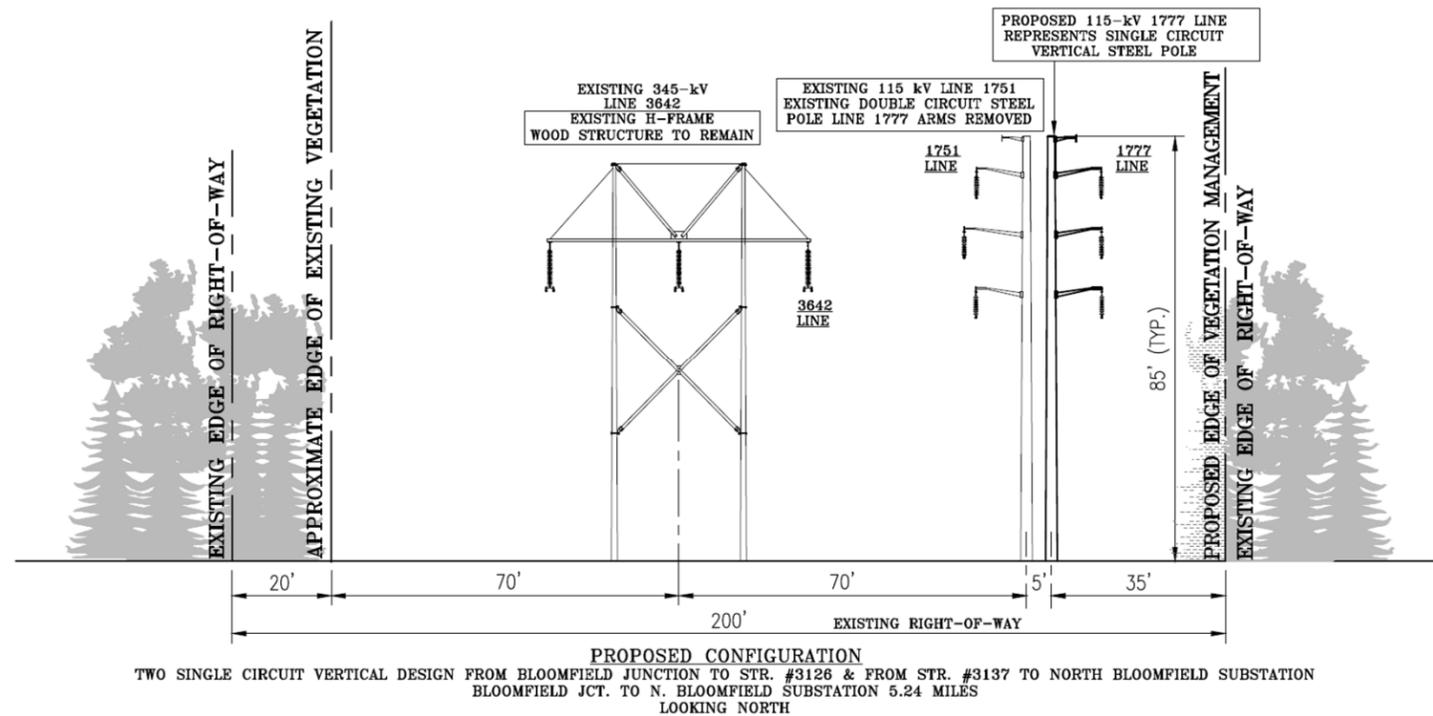
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Sheet 8 of 15

MAPSHEET 9 of 15

Bloomfield-Windsor Upgrades Project Proposed Route Existing Structure Locations 3137 to 3143 Town of Bloomfield, CT



Line List

Number	Owner Name (Now or Formerly)
991	STATE OF CONNECTICUT C/O DOT
993	JOHN MARTIN COSKER
994	HENRY C WEATHERBY TRUSTEE
995	THE CONNECTICUT LIGHT & POWER COMPANY
996	HENRY C WEATHERBY TRUSTEE
997	HANNAH RODITI
1002	TOWN OF BLOOMFIELD

Area Description

Adjacent Land Use

- CT DEEP Property (Flood Control System) – North Branch Park River Flood Control Site #3 / Tunxis Reservoir
- FEMA 100-Year Flood Plain
- Wetland areas
- Residential areas
- Golf Course

Road Crossings

- None

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Maintained Open Recreational Areas including Open Fields
- Natural Diversity Data Base Area

Right-of-Way Description

Right-of-Way Land Use

- Residential adjacent to structure 3139-1
- State Owned Land adjacent to structures 3138-1 through 3140-1
- Recreational (Golf Club) adjacent to structures 3141-1 through 3143-1
- Maintained Transmission Corridor

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands – W18, W19, W20 (Golf Course Pond), W20A
- Wetland Cover Types – PFO, PSS, PEM, POW
- Vernal Pools, Watercourses and Waterbodies - None

Wetland, Vernal Pool, and Watercourse Crossings

- W17, W20A – Construction mats for access and work pads
- Tree clearing and trimming at wetlands W18, W20A

Listed Species Considerations / BMPs

- See Detail Sheet 1 – State Listed Birds
- See Detail Sheet 1 – Federally Listed Mammals

Right-of-Way Description (Cont.)

Right-of-Way Vegetation

- Old field/shrub land
- Wetland cover types noted above
- Forested upland
- State-Owned Properties
- Golf Course

Potential Access

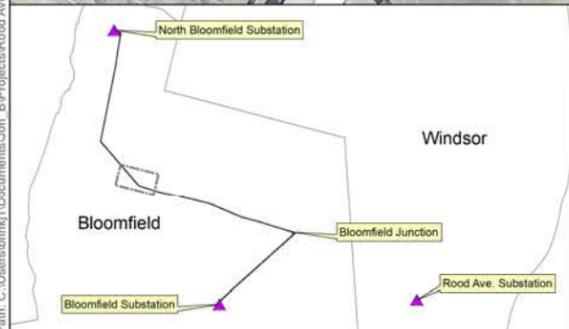
- Access to Structures 3137_1 through 3139_1 via Tunxis Ave./CT DOT Property
- Access to Structures 3140_1 through 3142_1 via Beacon Hill Drive

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

- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the northern ROW edge.



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1751/1777 Line -Existing	Parcel Boundary	Proposed Temporary Access Road Construction Mats	Syncopated Silt Fencing (See Detail Sheet BMPs)
1777 Line - Proposed	Perennial Stream (e.g. PS-1, PS-2)	Existing Access Road	Stream Flow Direction
3642 Line - Existing	Wetland Delineation	Proposed Access Road - Gravel	
Existing Structure	Wetland (e.g. W1, W2)	Proposed Gravel Pad	
Proposed Structure	Vernal Pool (VP)	Proposed Timber Mat Pad	
Culvert	Proposed Vegetation Removal Limits	FEMA 100-Year Flood Zone	
Eversource Property		FEMA 500-Year Flood Zone	
Eversource Right of Way			

BLOOMFIELD - WINDSOR UPGRADES PROJECT
 1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
 Bloomfield, CT

Linear Units: Foot US
 Datum: North American 1983
 Projection: Lambert Conformal Conic
 Coordinate System: NAD 1983 StatePlane
 Connecticut FIPS 0600 Feet
 Datalayers and Imagery: USGS Earth Explorer,
 CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
 Google Earth Imagery, Eversource.

Scale in Feet
 0 100 200

Revised: 3/7/2016

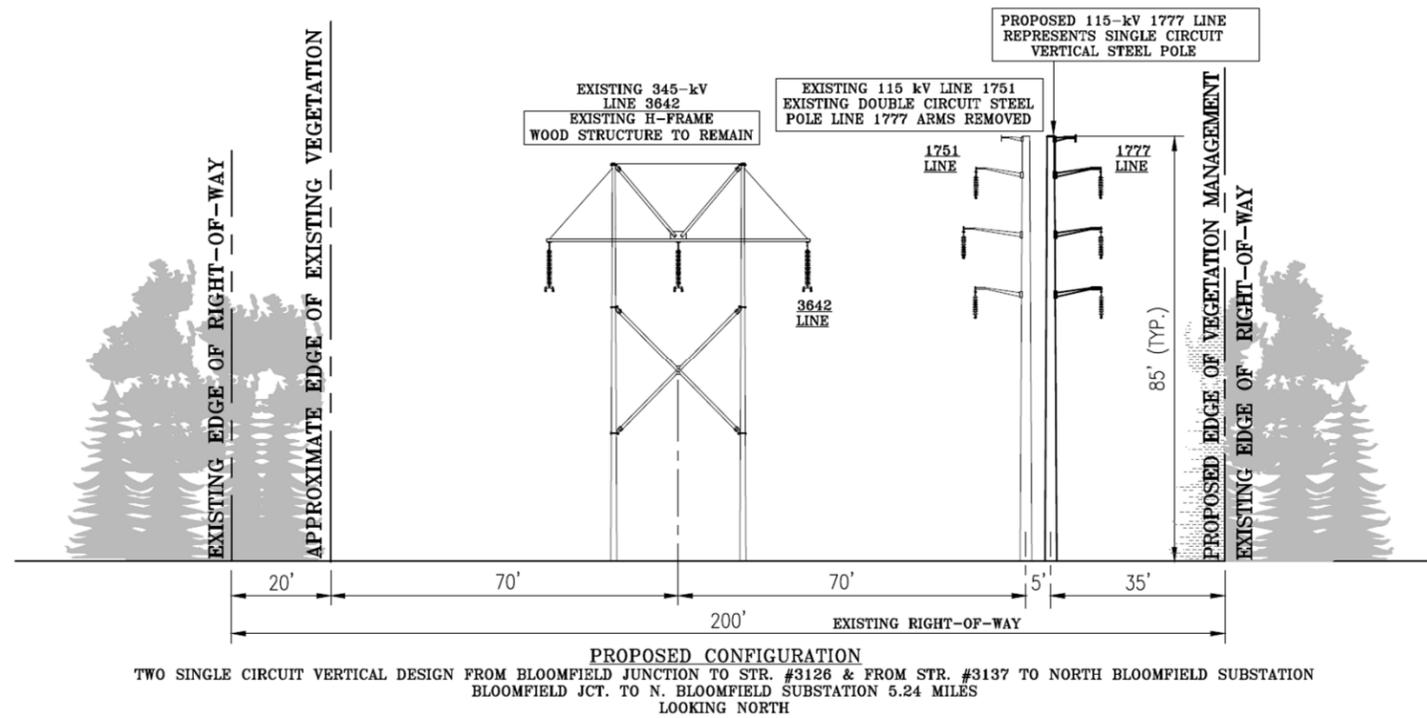
EVERSOURCE

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Sheet 9 of 15

MAPSHEET 10 of 15

Bloomfield-Windsor Upgrades Project Proposed Route Existing Structure Locations 3143 to 3148 Town of Bloomfield, CT



Line List	
Number	Owner Name (Now or Formerly)
1002	TOWN OF BLOOMFIELD
1003	KURT G & ELAINE A WABREK
1004	THE CONNECTICUT LIGHT & POWER COMPANY
1005	JOSEPH D & LUCILLE M WACTOWSKI
1006	SETH B & KELLY E BRICKMAN
1007	JOHN M & EVELYN S KELLEY
1010	THE CONNECTICUT LIGHT & POWER COMPANY
1011	SUPAKRIT PHIWKHAO
1012	NANAMI SHIIKI
1013	THE CONNECTICUT LIGHT & POWER COMPANY

Area Description

Adjacent Land Use

- Wetland areas
- Residential areas
- Golf Course

Road Crossings

- Duncaster Road

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Maintained Open Recreational Areas including Open Fields

Right-of-Way Description

Right-of-Way Land Use

- Residential adjacent to structures 3147-1 and 3148
- Recreational (Golf Club) adjacent to structures 3144-1 and 3143-1
- Maintained Transmission Corridor
- Cellular Tower

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands – W20A, W20B, W21
- Wetland Cover Types – PFO, PEM
- Vernal Pools, Watercourses and Waterbodies - None

Wetland, Vernal Pool, and Watercourse Crossings

- W20A, W20B, W21 – Construction mats for access and work pads
- Tree clearing and trimming at wetlands W20A, W21

Listed Species Considerations / BMPs

- None

Right-of-Way Description (Cont.)

Right-of-Way Vegetation

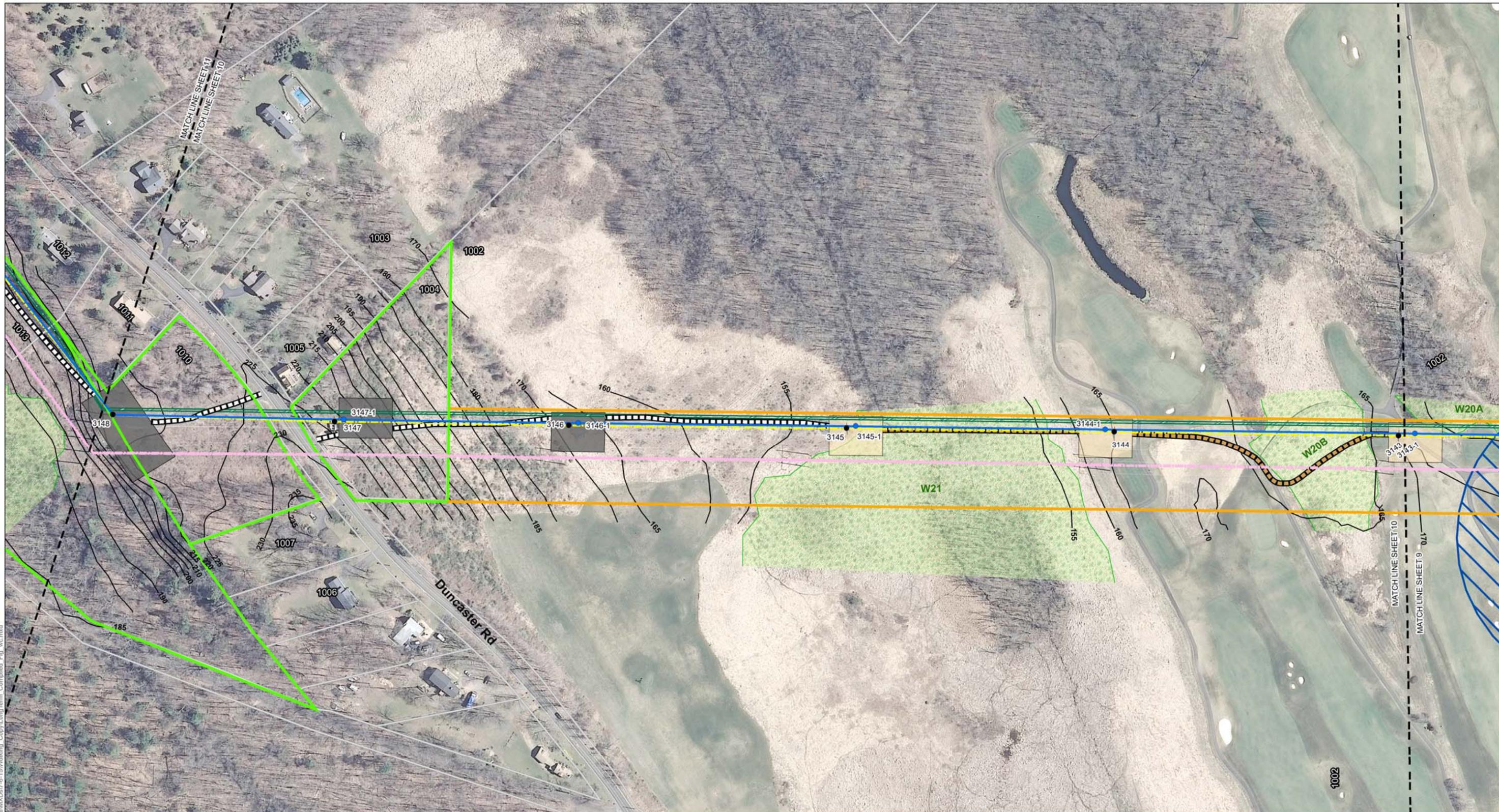
- Old field/shrub land
- Wetland cover types noted above
- Golf Course

Potential Access

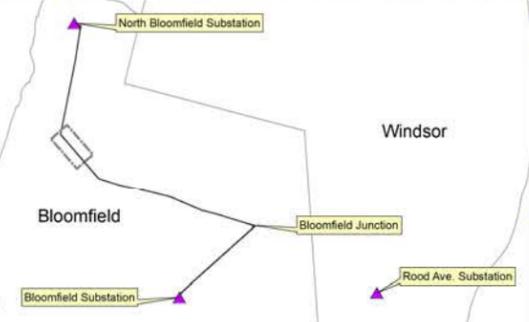
- Access to Structures 3143_1 through 3147_1 via Duncaster Road

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

- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northeastern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the northeastern ROW edge.



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<ul style="list-style-type: none"> — 1751/1777 Line - Existing — 1777 Line - Proposed — 3642 Line - Existing ● Existing Structure ● Proposed Structure — Culvert — Eversource Property — Eversource Right of Way 	<ul style="list-style-type: none"> ▭ Parcel Boundary ▭ Perennial Stream (e.g. PS-1, PS-2) ▭ Wetland Delineation ▭ Wetland (e.g. W1, W2) ▭ Vernal Pool (VP) ▭ Proposed Vegetation Removal Limits 	<ul style="list-style-type: none"> ▭ Proposed Temporary Access Road Construction Mats ▭ Existing Access Road ▭ Proposed Access Road - Gravel ▭ Proposed Gravel Pad ▭ Proposed Timber Mat Pad ▭ FEMA 100-Year Flood Zone ▭ FEMA 500-Year Flood Zone 	<ul style="list-style-type: none"> ▭ Syncopated Silt Fencing (See Detail Sheet BMPs) ▭ Stream Flow Direction
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BLOOMFIELD - WINDSOR UPGRADES PROJECT
1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
 Bloomfield, CT

Linear Units: Foot US
 Datum: North American 1983
 Projection: Lambert Conformal Conic
 Coordinate System: NAD 1983 StatePlane
 Connecticut FIPS 0600 Feet
 Datalayers and Imagery: USGS Earth Explorer,
 CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
 Google Earth Imagery, Eversource.

Scale in Feet
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Revised: 3/7/2016

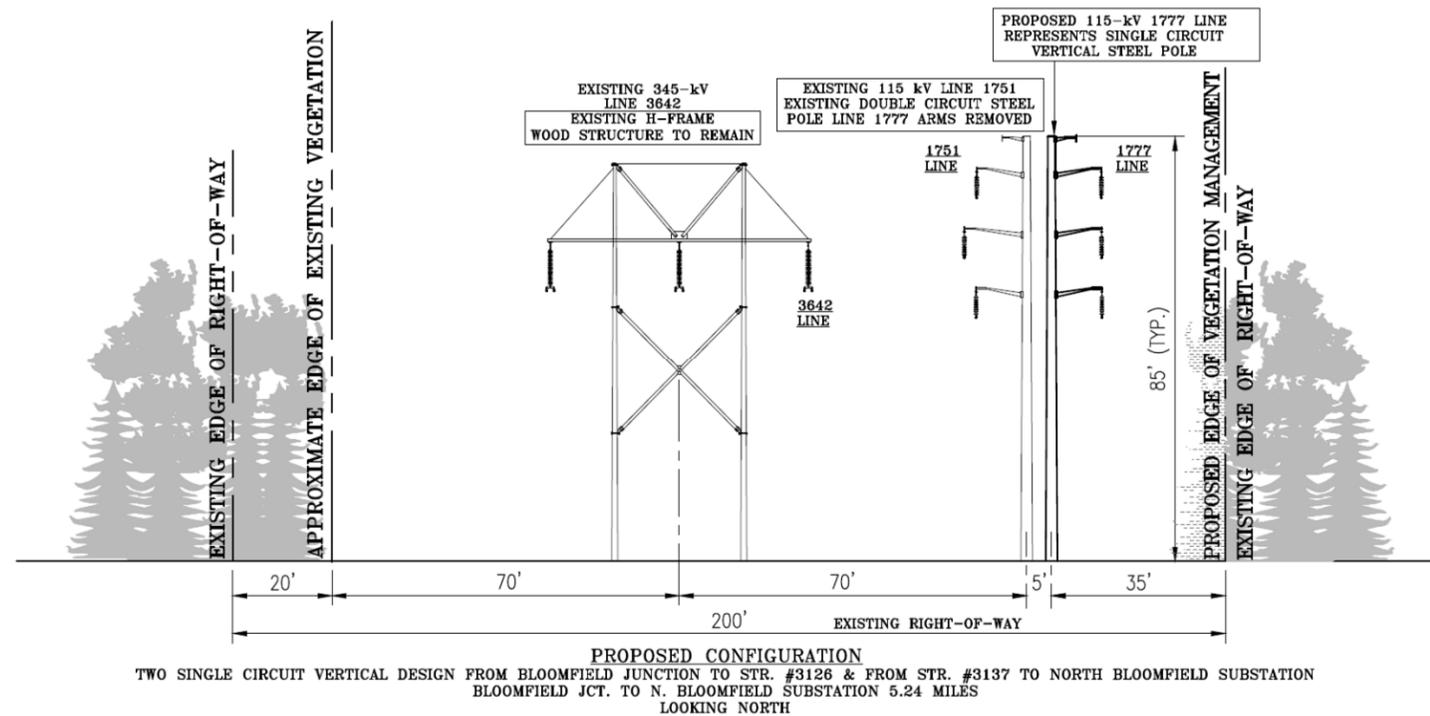
EVERSOURCE

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Sheet 10 of 15

MAPSHEET 11 of 15

Bloomfield-Windsor Upgrades Project
Proposed Route
Existing Structure Locations 3148 to 3153
Town of Bloomfield, CT



Line List	
Number	Owner Name (Now or Formerly)
1002	BLOOMFIELD GAME CLUB INC
1003	KURT G & ELAINE A WABREK
1004	THE CONNECTICUT LIGHT & POWER COMPANY
1005	JOSEPH D & LUCILLE M WACTOWSKI
1008	BLOOMFIELD GAME CLUB INC
1009	BLOOMFIELD GAME CLUB INC
1010	THE CONNECTICUT LIGHT & POWER COMPANY
1011	SUPAKRIT PHIWKHAO
1012	NANAMI SHIKI
1013	THE CONNECTICUT LIGHT & POWER COMPANY
1014	JULIANE R FENSTER
1015	GAIL L NOLAN
1016	EDWARD R S & ERICA V ALLEN
1017	ADAM J PATNAUDE & AMANDA M JOLY
1018	JACQUELINE VANRIEL & AMOI NELSON
1019	NORMAN S & TALMA F FENICHEL
1020	GARY G PIERCE & SHEILA E CONDON
1021	DAYLE S HARMON & JOS J & DUNLAY C DEBELLA
1022	YVONNE E MAZUR
1023	JANET P MOSES
1024	BRIAN A & TINA M KULVETE
1026	THE CONNECTICUT LIGHT & POWER COMPANY
1027	CHARLES MCCOMB

Area Description

Adjacent Land Use

- Residential
- Wetland areas
- FEMA 100-Year Flood Plain
- Forested Lands
- Constructed Residential Pond

Road Crossings

- Adams Road

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Natural Diversity Data Base Areas

Right-of-Way Description

Right-of-Way Land Use

- Maintained Transmission Corridor

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands – W22, W22A
- Wetland Cover Types – PFO, PSS
- Vernal Pools – PVP-1751-3
- Watercourses and Waterbodies - None

Wetland, Vernal Pool, and Watercourse Crossings

- W22, W22A – Construction mats for access and work pads
- Tree clearing and trimming at wetlands W22, W22A

Listed Species Considerations / BMPs

- See Detail Sheet 1 – State Listed Amphibians
- See Detail Sheet 1 – State Listed Plants
- See Detail Sheet 1 – Federally Listed Mammals

Right-of-Way Description (Cont.)

Right-of-Way Vegetation

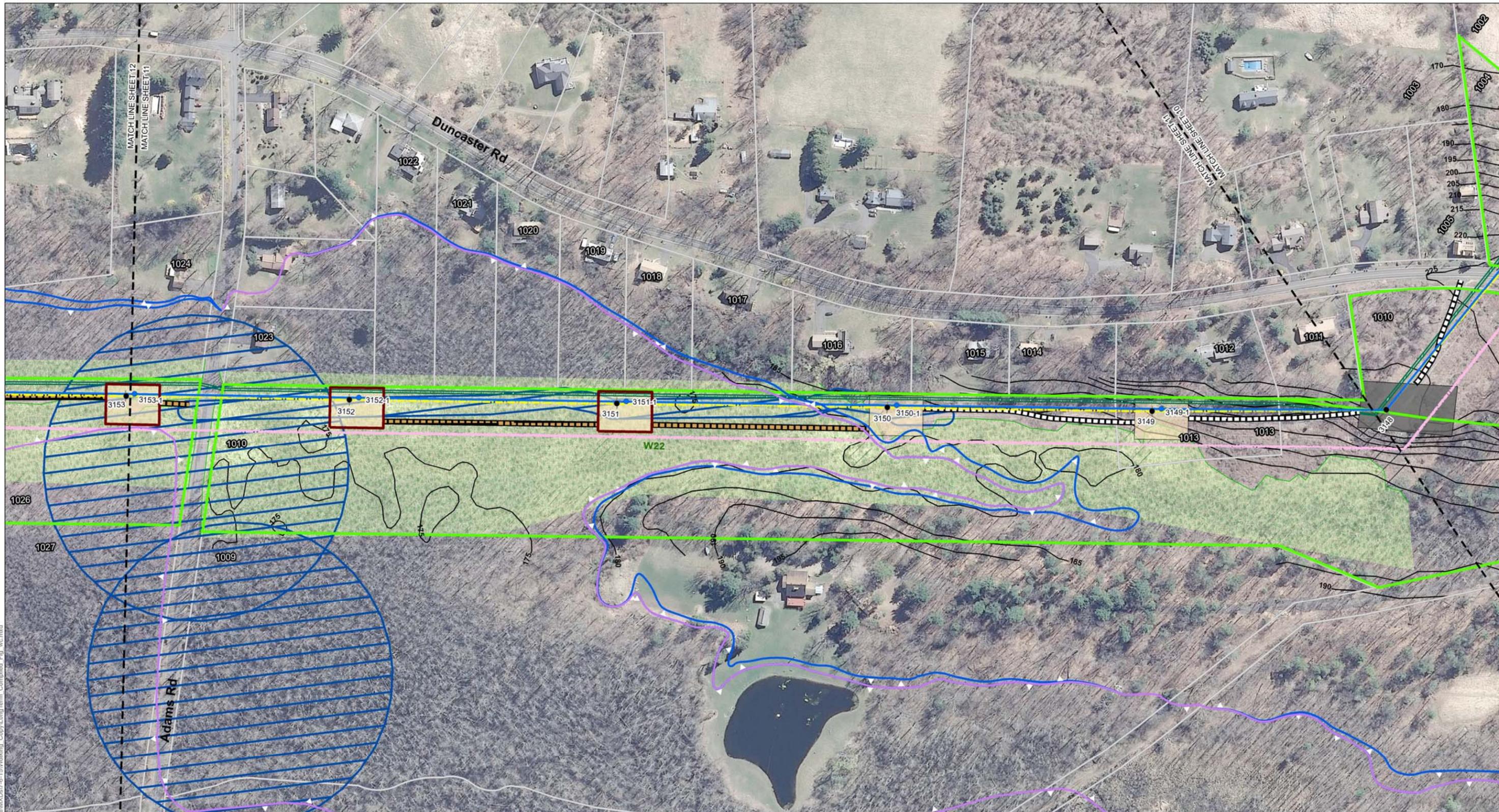
- Old field/shrub land
- Wetland cover types noted above

Potential Access

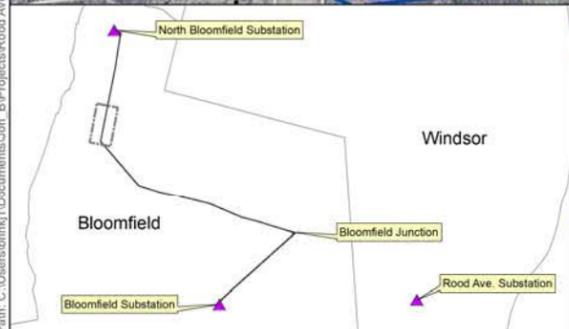
- Access to Structures 3148_1 through 3152_1 via Duncaster Road

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

- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northeastern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the eastern ROW edge.



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<ul style="list-style-type: none"> 1751/1777 Line - Existing 1777 Line - Proposed 3642 Line - Existing Existing Structure Proposed Structure Culvert Eversource Property Eversource Right of Way 	<ul style="list-style-type: none"> Parcel Boundary Perennial Stream (e.g. PS-1, PS-2) Wetland Delineation Wetland (e.g. W1, W2) Vernal Pool (VP) Proposed Vegetation Removal Limits Exclusion Fencing (See Detail Sheet BMPs) 	<ul style="list-style-type: none"> Proposed Temporary Access Road Construction Mats Existing Access Road Proposed Access Road - Gravel Proposed Gravel Pad Proposed Timber Mat Pad FEMA 100-Year Flood Zone FEMA 500-Year Flood Zone 	<ul style="list-style-type: none"> Syncopated Silt Fencing (See Detail Sheet BMPs) Stream Flow Direction
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BLOOMFIELD - WINDSOR UPGRADES PROJECT
1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
Bloomfield, CT

Linear Units: Foot US
Datum: North American 1983
Projection: Lambert Conformal Conic
Coordinate System: NAD 1983 StatePlane
Connecticut FIPS 0600 Feet
Datalayers and Imagery: USGS Earth Explorer,
CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
Google Earth Imagery, Eversource.

Scale in Feet
0 100 200

Revised: 3/7/2016

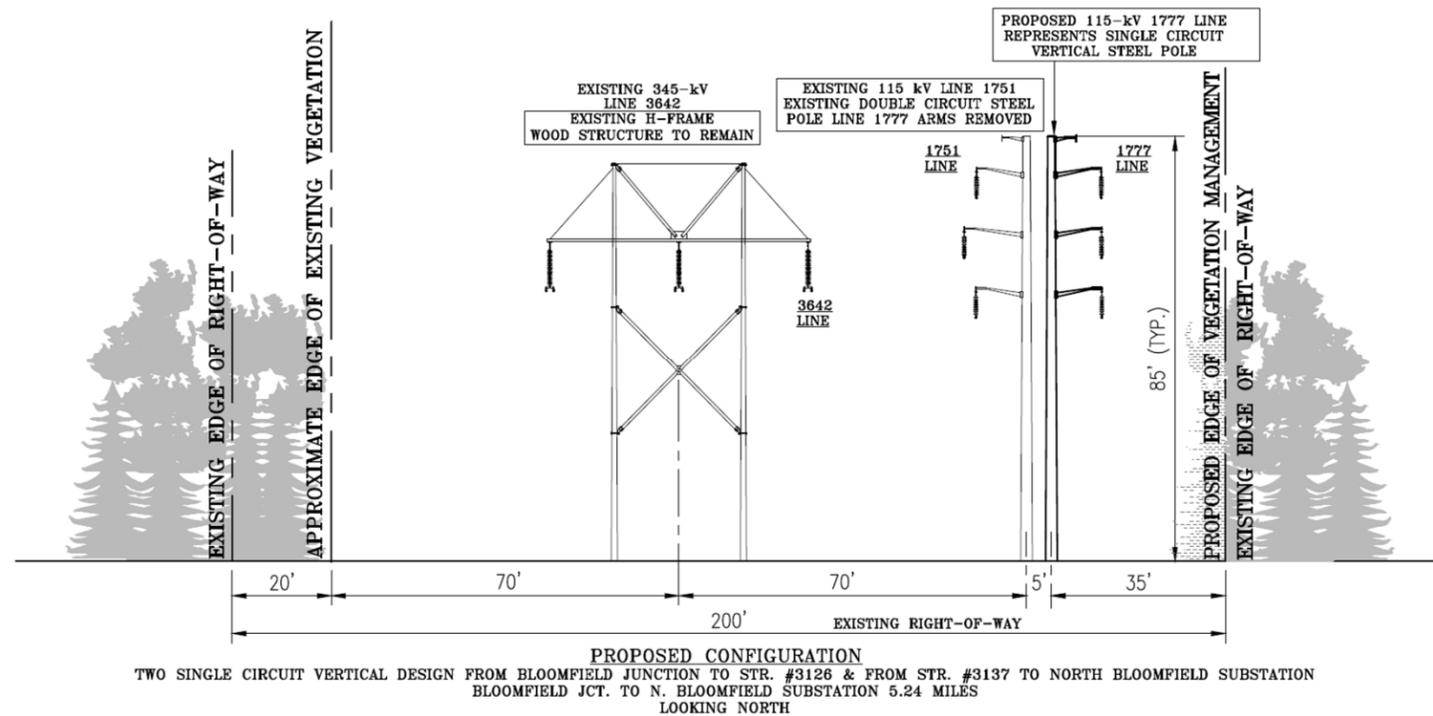
EVERSOURCE

AECOM

Sheet 11 of 15

MAPSHEET 12 of 15

Bloomfield-Windsor Upgrades Project Proposed Route Existing Structure Locations 3153 to 3157 Town of Bloomfield, CT



Line List

Number	Owner Name (Now or Formerly)
1009	BLOOMFIELD GAME CLUB INC
1010	THE CONNECTICUT LIGHT & POWER COMPANY
1023	JANET P MOSES
1024	BRIAN A & TINA M KULVETE
1025	PHILIP E & JILL C GRAY
1025.01	JOANNE K MITCHELL REVOCABLE LIVING TRUST, ANDREW & JOANNE K MITCHELL TRUSTEE
1026	THE CONNECTICUT LIGHT & POWER COMPANY
1027	CHARLES MCCOMB
1030	DANIEL N & LESLEY D MARA
1031	ANN R WOCHOMURKA
1032	TIMOTHY P & HEATHER M DIBBLE
1034	MICHAEL J & JESSICA D BONGIOVANNI
1035	JAMES T GRAHAM & MARY U EBERLE
1036	RAYMOND J & JUDITH ROY
1038	AGNES RISMA Y
1041	JOHNATHAN B & ELIZABETH J JOSEPH
1042	TOWN OF BLOOMFIELD
1043	THE CONNECTICUT LIGHT & POWER COMPANY
1044	JUDITH G & GODFREY D PEARLSON

Area Description

Adjacent Land Use

- Residential
- Wetland areas
- FEMA 100-Year Flood Plain
- Forested Lands

Road Crossings

- Adams Road

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Griffen Brook - Flows through portions of the wetland complex without a well defined bank
- Natural Diversity Data Base Areas

Right-of-Way Description

Right-of-Way Land Use

- Maintained Transmission Corridor

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands – W22A, W23
- Wetland Cover Types – PFO, PSS
- Vernal Pools – VP-1751-9, VP-1751-10, VP-1751-11, VP-1751-12, VP-1751-13
- Watercourses and Waterbodies – None

Wetland, Vernal Pools, and Watercourse Crossings

- W22A, W23 – Construction mats for access and work pads
- Tree clearing and trimming at wetlands W22A, W23
- Tree clearing and trimming at vernal pools VP-1751-10, VP-1751-12, and VP-1751-13

Right-of-Way Description (Cont.)

Listed Species Considerations / BMPs

- See Detail Sheet 1 – State Listed Amphibians
- See Detail Sheet 1 – State Listed Plants
- See Detail Sheet 1 – Federally Listed Mammals

Right-of-Way Vegetation

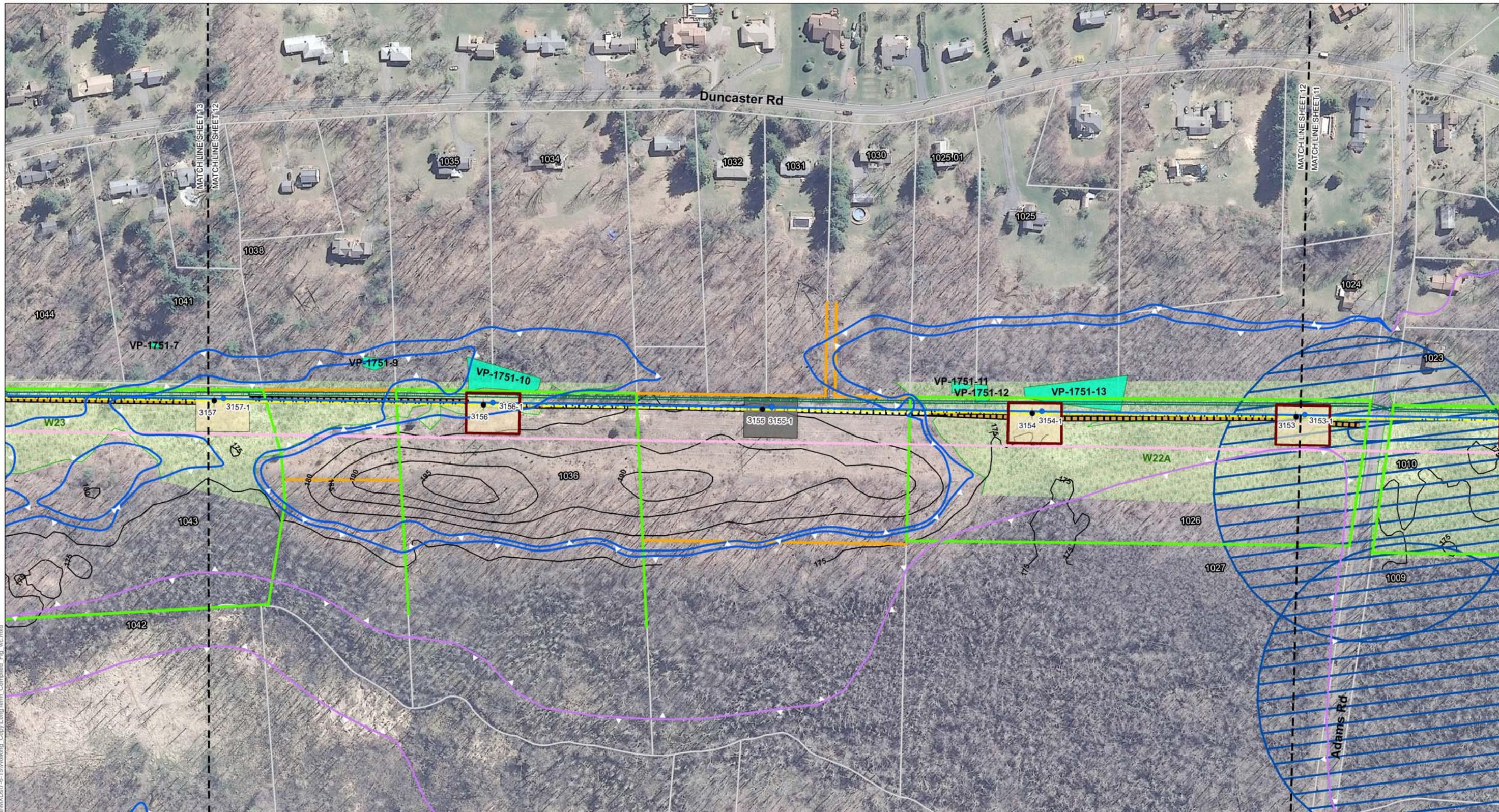
- Old field/shrub land
- Wetland cover types noted above

Potential Access

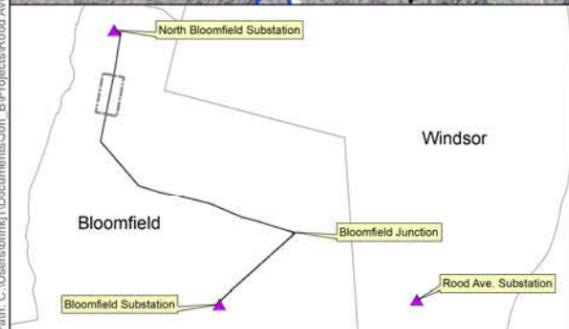
- Access to Structures 3153_1 through 3157_1 via Adams Road

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

- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northeastern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the eastern ROW edge.



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<ul style="list-style-type: none"> — 1751/1777 Line - Existing — 1777 Line - Proposed — 3642 Line - Existing ● Existing Structure ● Proposed Structure — Culvert — Eversource Property — Eversource Right of Way 	<ul style="list-style-type: none"> ▭ Parcel Boundary ▭ Perennial Stream (e.g. PS-1, PS-2) ▭ Wetland Delineation ▭ Wetland (e.g. W1, W2) ▭ Vernal Pool (VP) ▭ Proposed Vegetation Removal Limits ▭ Exclusion Fencing (See Detail Sheet BMPs) 	<ul style="list-style-type: none"> ▭ Proposed Temporary Access Road Construction Mats ▭ Existing Access Road ▭ Proposed Access Road - Gravel ▭ Proposed Gravel Pad ▭ Proposed Timber Mat Pad ▭ FEMA 100-Year Flood Zone ▭ FEMA 500-Year Flood Zone 	<ul style="list-style-type: none"> ▭ Syncopated Silt Fencing (See Detail Sheet BMPs) ▭ Stream Flow Direction
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BLOOMFIELD - WINDSOR UPGRADES PROJECT
1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
Bloomfield, CT

Linear Units: Foot US
Datum: North American 1983
Projection: Lambert Conformal Conic
Coordinate System: NAD 1983 StatePlane
Connecticut FIPS 0600 Feet
Data Layers and Imagery: USGS Earth Explorer,
CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
Google Earth Imagery, Eversource.

Scale in Feet
0 100 200

Revised: 3/7/2016

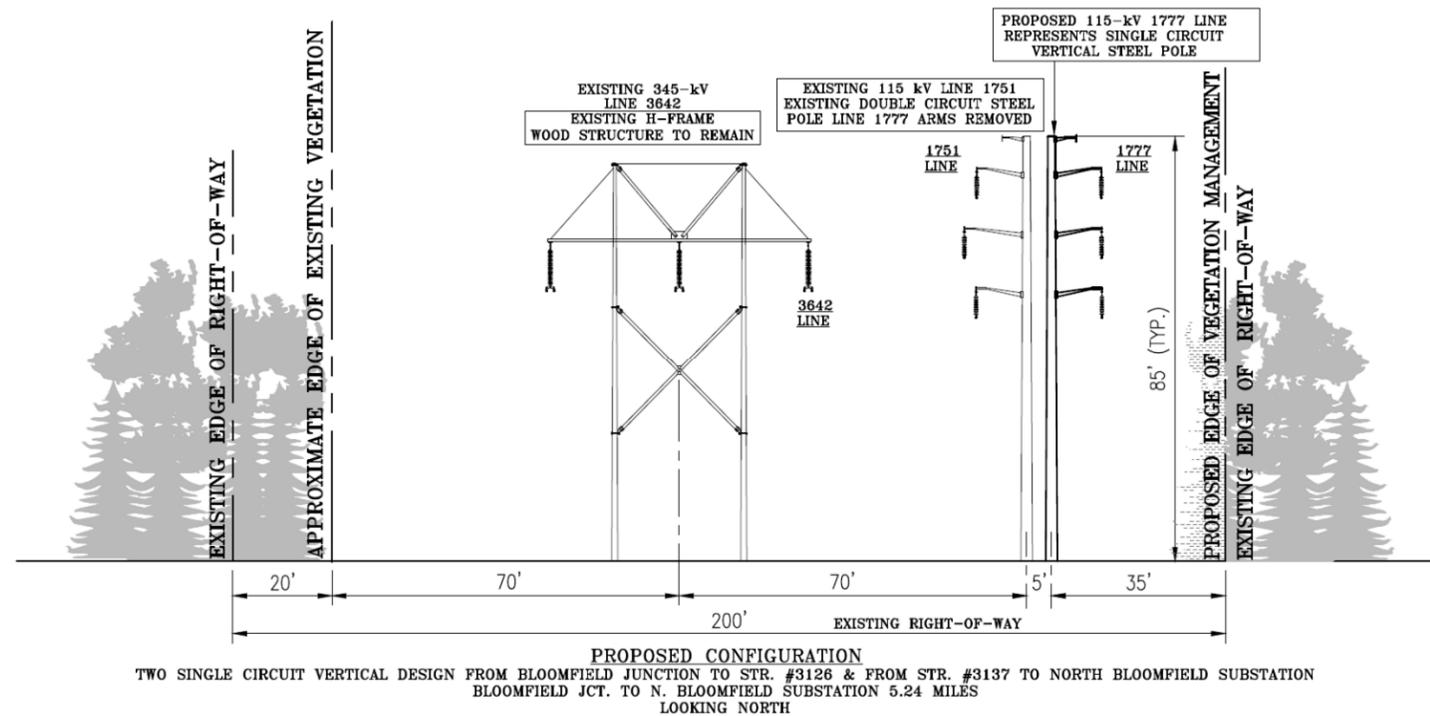
EVERSOURCE

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Sheet 12 of 15

MAPSHEET 13 of 15

Bloomfield-Windsor Upgrades Project Proposed Route Existing Structure Locations 3157 to 3162 Town of Bloomfield, CT



Line List

Number	Owner Name (Now or Formerly)
1038	AGNES RISMAY
1041	JOHNATHAN B & ELIZABETH J JOSEPH
1042	TOWN OF BLOOMFIELD
1043	THE CONNECTICUT LIGHT & POWER COMPANY
1044	JUDITH G & GODFREY D PEARLSON
1045	JOHN E & PENELOPE A PEARSON
1046	KIUMARS SETAYESH
1047	STEVEN C RADTKE
1048	ROBIN B JONES & EDDIE DIAZ
1049	CHRISTOPHER P NORWOOD
1050	DONAL R WHITNEY AMENDED AND RESTATD TR & PALMIRA PINA-SHELTON TRUSTEE
1051	SHAWN M BEGIN
1052	THE CONNECTICUT LIGHT & POWER COMPANY
1053	STEPHEN A & SUZANNE T DAVIS
1056	ROBERT G & METAXIE L HUBBARD

Area Description

Adjacent Land Use

- Residential
- Wetland areas
- FEMA 100-Year Flood Plain
- Forested Lands

Road Crossings

- None

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Griffen Brook - Flows through portions of the wetland complex without a well defined bank
- Open water feature - presumably man-made

Right-of-Way Description

Right-of-Way Land Use

- Maintained Transmission Corridor

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands –W23
- Wetland Cover Types – PFO, PSS, PEM, POW
- Vernal Pools - None
- Watercourses and Waterbodies – None

Wetland, Vernal Pool, and Watercourse Crossings

- W23 – Construction mats for access and work pads
- Tree clearing and trimming at wetland W23

Listed Species Considerations / BMPs

- See Detail Sheet 1 – Federally Listed Mammals

Right-of-Way Description (Cont.)

Right-of-Way Vegetation

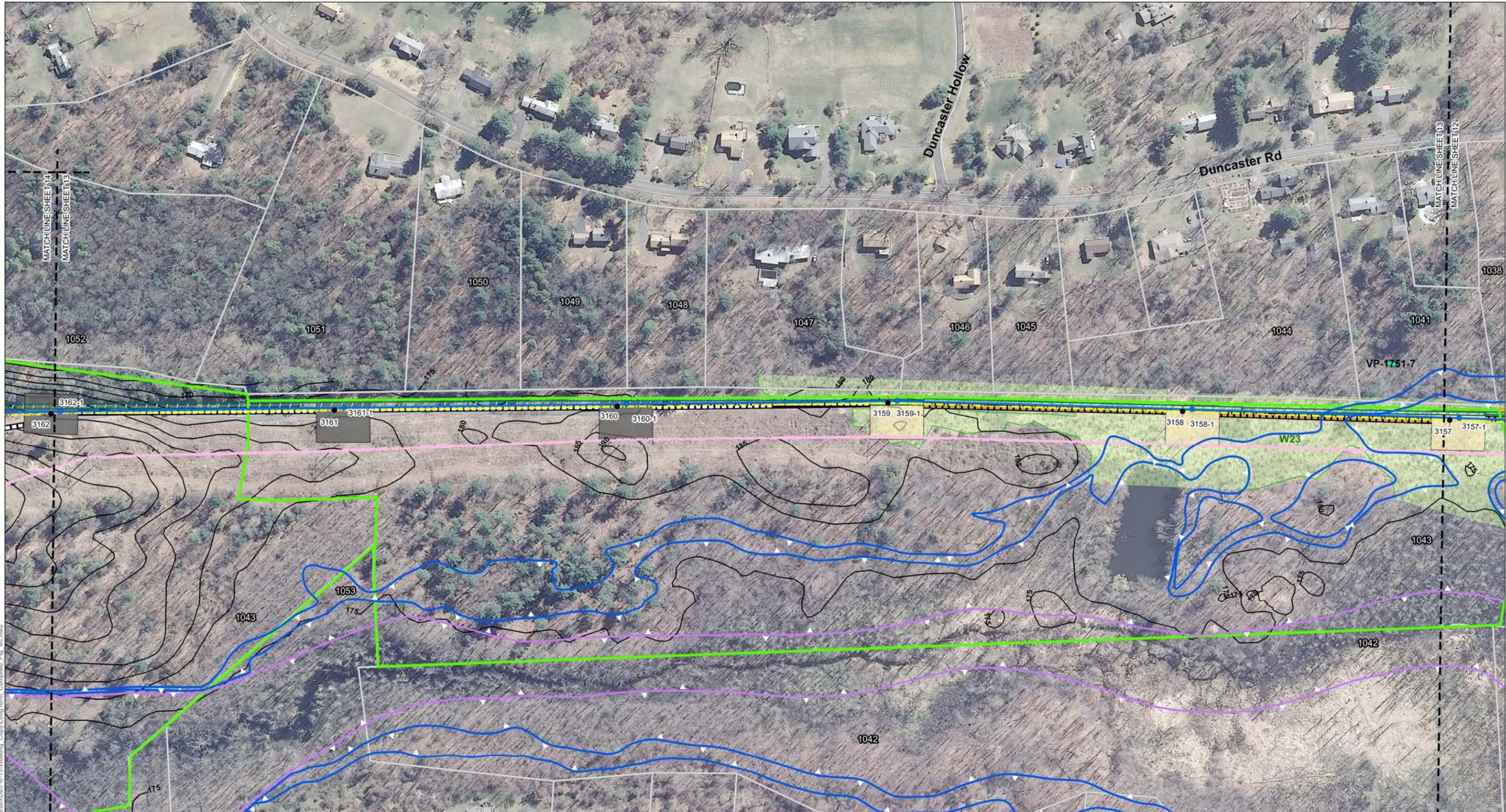
- Old field/shrub land
- Wetland cover types noted above

Potential Access

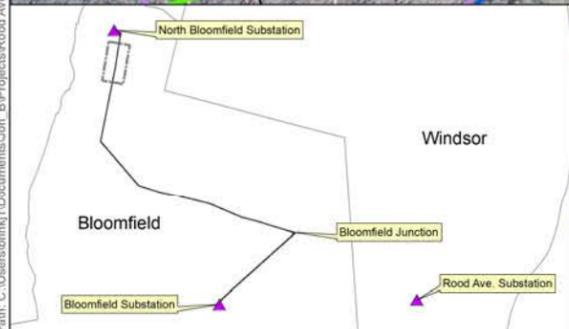
- Access to Structures 3157_1 to 3162_1 via Adams Road or Duncaster Road

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

- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northeastern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the eastern ROW edge.



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1751/1777 Line - Existing	Parcel Boundary	Proposed Temporary Access Road Construction Mats	Syncopated Silt Fencing (See Detail Sheet BMPs)
1777 Line - Proposed	Perennial Stream (e.g. PS-1, PS-2)	Existing Access Road	Stream Flow Direction
3642 Line - Existing	Wetland Delineation	Proposed Access Road - Gravel	
Existing Structure	Wetland (e.g. W1, W2)	Proposed Gravel Pad	
Proposed Structure	Vernal Pool (VP)	Proposed Timber Mat Pad	
Culvert	Proposed Vegetation Removal Limits	FEMA 100-Year Flood Zone	
Eversource Property		FEMA 500-Year Flood Zone	
Eversource Right of Way			

BLOOMFIELD - WINDSOR UPGRADES PROJECT
 1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
 Bloomfield, CT

Linear Units: Foot US
 Datum: North American 1983
 Projection: Lambert Conformal Conic
 Coordinate System: NAD 1983 StatePlane
 Connecticut FIPS 0600 Feet
 Datalayers and Imagery: USGS Earth Explorer,
 CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
 Google Earth Imagery, Eversource.

Scale in Feet
 0 100 200

Revised: 3/7/2016

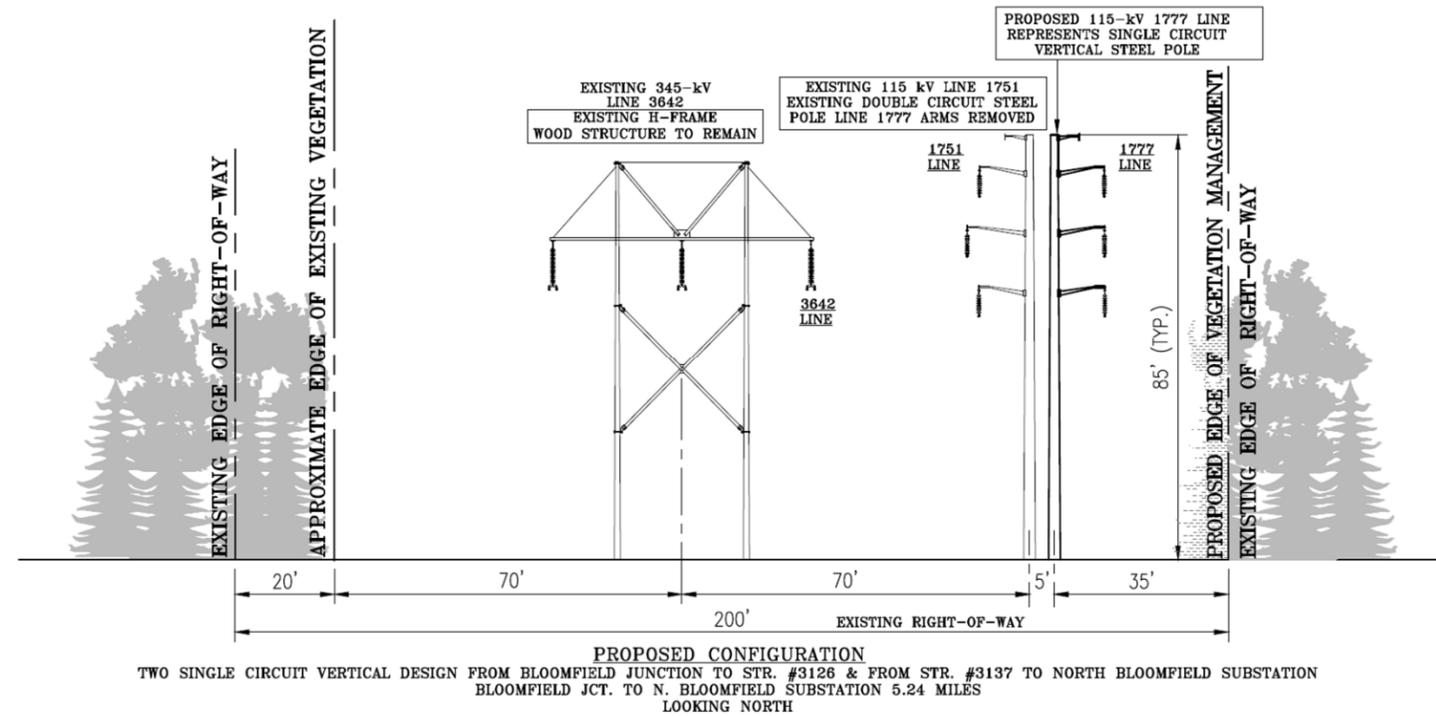
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Sheet 13 of 15

MAPSHEET 14 of 15

Bloomfield-Windsor Upgrades Project Proposed Route Existing Structure Locations 3161 to 3164 Town of Bloomfield, CT



Line List	
Number	Owner Name (Now or Formerly)
1042	TOWN OF BLOOMFIELD
1043	THE CONNECTICUT LIGHT & POWER COMPANY
1051	SHAWN M BEGIN
1052	THE CONNECTICUT LIGHT & POWER COMPANY
1053	STEPHEN A & SUZANNE T DAVIS
1056	ROBERT G & METAXIE L HUBBARD
1057	MAX & KATHY-ANN ERICA YAWINGU
1058	ROBERT J & DIANE J FORTIN
1059	ROBERT F LOCKWOOD JR
1060	CAMILLE BURKE GEATHERS & CYRIL C SR & GLORIA BURKE
1061	ERIC J SHELDON & TURA M HOLZ
1062	ANDREW C BUDLONG
1063	LEONARD W & CATHY M SCHLUDE
1064	WINTONBURY LAND TRUST INC

Area Description

Adjacent Land Use

- Residential
- Wetland areas
- FEMA 100-Year Flood Plain
- Forested Lands
- North Bloomfield Substation

Road Crossings

- None

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses
- Natural Diversity Data Base Areas

Right-of-Way Description

Right-of-Way Land Use

- Maintained Transmission Corridor
- Electrical Substation

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands –W24, W24A
- Wetland Cover Types – PFO, PSS
- Watercourses – PS8 (Griffen Brook) (Perennial Stream)
- Vernal Pools and Waterbodies - None

Wetland, Vernal Pools, and Watercourse Crossings

- No construction mats or tree clearing in wetlands anticipated

Listed Species Considerations / BMPs

- See Detail Sheet 1 – State Listed Turtles
- See Detail Sheet 1 – State Listed Plants
- See Detail Sheet 1 – Federally Listed Mammals

Right-of-Way Description (Cont.)

Right-of-Way Vegetation

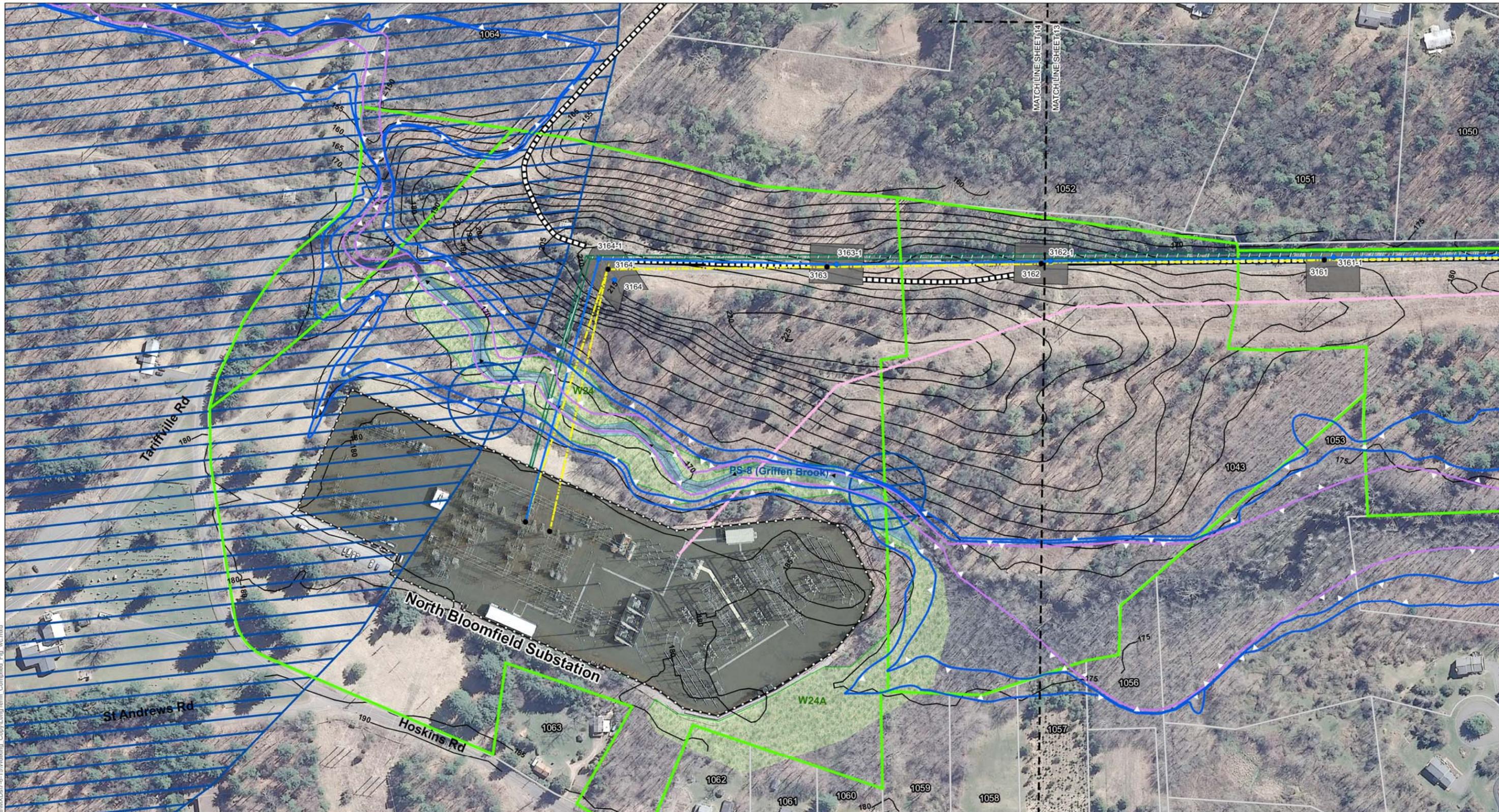
- Old field/shrub land
- Wetland cover types noted above

Potential Access

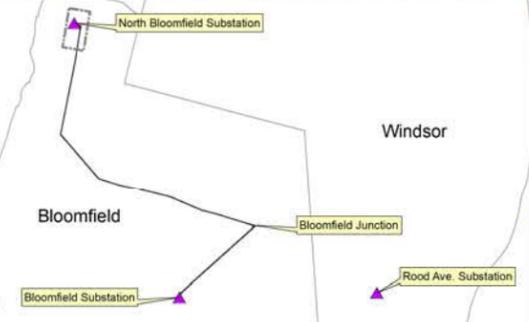
- Access to Structures 3161_1 to 3164_1 via Adams Road or Duncaster Road

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

- 175 feet / 5 feet
- In addition to the proposed 5 ft. of new tree clearing/trimming to the northeastern edge of ROW, non-compatible vegetation may be cleared in the ROW, within 90 ft. of the eastern ROW edge.



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1751/1777 Line - Existing	Parcel Boundary	Proposed Temporary Access Road Construction Mats	Syncopated Silt Fencing (See Detail Sheet BMPs)
1777 Line - Proposed	Perennial Stream (e.g. PS-1, PS-2)	Existing Access Road	Stream Flow Direction
3642 Line - Existing	Wetland Delineation	Proposed Access Road - Gravel	Existing Fence
Existing Structure	Wetland (e.g. W1, W2)	Proposed Gravel Pad	
Proposed Structure	Vernal Pool (VP)	Proposed Timber Mat Pad	
Culvert	Proposed Vegetation Removal Limits	FEMA 100-Year Flood Zone	
Eversource Property		FEMA 500-Year Flood Zone	
Eversource Right of Way			

BLOOMFIELD - WINDSOR UPGRADES PROJECT
 1751/1777 Line between Bloomfield Junction and North Bloomfield Substation
 Bloomfield, CT

Linear Units: Foot US
 Datum: North American 1983
 Projection: Lambert Conformal Conic
 Coordinate System: NAD 1983 StatePlane
 Connecticut FIPS 0600 Feet
 Datalayers and Imagery: USGS Earth Explorer,
 CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
 Google Earth Imagery, Eversource.

Scale in Feet
 0 100 200

Revised: 3/7/2016

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Sheet 14 of 15

MAPSHEET 15 of 15

Bloomfield-Windsor Upgrades Project
Proposed Route
Existing Structure Locations – Rood Avenue
Substation
Town of Windsor, CT

Area Description

Adjacent Land Use

- Residential
- Interstate Highway (I-91)
- Electrical Substation

Road Crossings

- Rood Ave.

Natural Systems

- Mixed Hardwood Forests of varying size and age
- State/Federal Jurisdictional Wetlands and Watercourses

Right-of-Way Description

Right-of-Way Land Use

- Maintained Transmission Corridor
- Electrical Substation

Wetlands, Vernal Pools, Watercourses and Waterbodies

- Wetlands –W25, W26
- Wetland Cover Types – PFO, PSS, PEM
- Vernal Pools, Watercourses and Waterbodies - None

Wetland and Watercourse Crossings

- W26– Construction mats for access and work pads
- No tree clearing work anticipated in wetlands

Right-of-Way Vegetation

- Old field/shrub land
- Wetland cover types noted above

Potential Access

- Access to Substation and Structures via Rood Avenue

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

- 200 feet / 0 feet

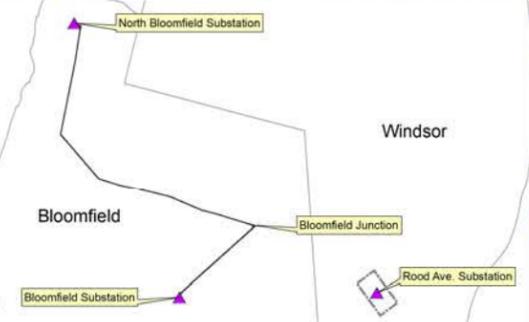
Listed Species Considerations / BMPs

- None

Line List	
Number	Owner Name (Now or Formerly)
100	DELANE ERIC K & DEBRA M
101	SOTO CARMEN E & EPIFANIO JR
102	LOMBARDI MARION S TRUSTEE
103	CLARK VALERIE L
104	DEMKO EMIL J & BARBARA
105	CANTY REGINA
106	WILLIAMS DERRICK A
107	DURANT JAMES F & LAURIE
108	TAYLOR GARLEN & ROBIN JS
109	BARBER JOHN C JR & KATHERINE
110	MURRAY BRENDA A
111	THOMAS MARK
112	LEWIS STEPHEN W
114	WASHINGTON PATRICIA C
115	JACOBS JEAN T
116	HERBURT SHERYL
117	KING WALTER JR BETTY JS
118	BENJAMIN WENDY
119	MYERS RHONDA & HARPER FRANCES
120	BEAVER FRANK & VIVIAN
121	DIXON RONALD A & GAIL
122	BASDEKIS THOMAS M
123	NICKSON TRAVON
125	HUGHES TIMOTHY P & NORMA
126	SCHIAVONE JAMES A & LAURA A



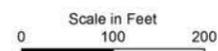
Path: C:\Users\brink1\Documents\B\Projects\Rood Ave\MXD\17-6-15\Working_Copy\Long_Term_Compiled_Fig_wc.mxd



<ul style="list-style-type: none"> --- 1448 Line - Existing --- 1751 Line - Existing --- 1779/3642 Line - Existing ● Existing Structure ● Proposed Structure — UG Transmission Line — Culvert — Eversource Property — Eversource Right of Way 	<ul style="list-style-type: none"> ▭ Parcel Boundary ▭ Perennial Stream (e.g. PS-1, PS-2) ▭ Wetland Delineation ▭ Wetland (e.g. W1, W2) ▭ Vernal Pool (VP) ▭ Area of Previous Pink Lady Stripper 	<ul style="list-style-type: none"> ▭ Proposed Temporary Access Road Construction Mats ▭ Existing Access Road ▭ Proposed Access Road - Gravel ▭ Proposed Gravel Pad ▭ Proposed Timber Mat Pad ▭ FEMA 100-Year Flood Zone ▭ FEMA 500-Year Flood Zone 	<ul style="list-style-type: none"> ▭ Syncopated Silt Fencing (See Detail Sheet BMPs) ▭ Stream Flow Direction ▭ Substation Expansion ▭ New Fence ▭ Existing Fence
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BLOOMFIELD - WINDSOR UPGRADES PROJECT
 1779 Line Loop at Rood Avenue Substation
 Windsor, CT

Linear Units: Foot US
 Datum: North American 1983
 Projection: Lambert Conformal Conic
 Coordinate System: NAD 1983 StatePlane
 Connecticut FIPS 0600 Feet
 Datalayers and Imagery: USGS Earth Explorer,
 CT DEEP GIS, UCONN MAGIC, UCONN CLEAR,
 Google Earth Imagery, Eversource.



Revised: 3/7/2016

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Sheet 15 of 15

WETLANDS AVOIDANCE AND MINIMIZATION MEASURES

- A. COMPLY WITH RELEVANT PORTIONS OF EVERSOURCE'S BEST MANAGEMENT PRACTICES MANUAL: CONNECTICUT CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS (12/2011).
- B. COMPLY WITH THE INVASIVE SPECIES CONTROL MEASURES DURING CONSTRUCTION (REFER TO INVASIVE SPECIES CONTROL PLAN).
- C. INSTALL EROSION AND SEDIMENTATION CONTROLS AROUND DISTURBED EARTH NEAR WETLANDS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED IN WETLANDS OUTSIDE OF THE WORK LIMITS DEFINED IN THE PLAN DRAWINGS.
- D. INSPECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS THROUGHOUT CONSTRUCTION. SEDIMENT THAT ACCUMULATES BEHIND THESE CONTROLS WILL PERIODICALLY BE REMOVED AND PLACED IN UPLAND AREAS, IN A MANNER THAT WILL PRECLUDE THE POTENTIAL FOR SUBSEQUENT DEPOSITION INTO WATERCOURSES OR OTHER WATERS OF THE U.S., OR WILL OTHERWISE BE DISPOSED OF OFF-SITE.
- E. INSTALL TEMPORARY CONSTRUCTION MATTING FOR ACCESS ROADS ACROSS WETLANDS OR TO ESTABLISH SAFE AND STABLE CONSTRUCTION WORK PADS WITHIN WETLANDS.
- F. TIMBER MAT COMPLEX AT THE JUNCTION SHALL BE UNDERLAIN WITH FILTER FABRIC.
- G. AVOID OR MINIMIZE ACCESS THROUGH WETLANDS, WHERE POSSIBLE. WHERE EXISTING ACCESS ROADS MUST BE IMPROVED OR DEVELOPED, THE ROADS WILL BE DESIGNED, WHERE PRACTICAL, SO AS NOT TO INTERFERE WITH SURFACE WATER FLOW OR THE WETLAND FUNCTIONS.
- H. IMPLEMENT PROCEDURES TO AVOID OR MINIMIZE THE POTENTIAL FOR SPILLS INTO WETLANDS (REFER TO THE SPILL PREVENTION AND COUNTERMEASURES PLAN). NO FUEL WILL BE STORED OR EQUIPMENT REFUELED WITHIN 25 FEET OF ANY WETLAND, EXCEPT UNDER THE FOLLOWING CIRCUMSTANCE: EQUIPMENT THAT IS NOT READILY MOBILE OR MUST REMAIN ON-SITE FOR PROLONGED PERIODS TO SAFELY COMPLETE A CONSTRUCTION TASK MAY BE REFUELED IN WETLANDS, PROVIDING PROPER TEMPORARY SPILL PREVENTION, CONTROL, AND CONTAINMENT PROCEDURES ARE FOLLOWED.
- I. PROHIBIT VEHICLES OR EQUIPMENT FROM BEING PARKED OVERNIGHT ON ACCESS ROADS OR WORK PADS IN WETLANDS, EXCEPT FOR EQUIPMENT THAT CANNOT BE PRACTICALLY MOVED.
- J. REMOVE, FOLLOWING THE COMPLETION OF TRANSMISSION LINE WORK, TIMBER MATS USED FOR WORK PADS AND TEMPORARY ACCESS ROADS IN WETLANDS.
- K. RESTORE WETLANDS, AFTER TRANSMISSION LINE WORK IS COMPLETE, TO PRE-CONSTRUCTION CONFIGURATIONS AND CONTOURS TO THE EXTENT PRACTICABLE. IF NECESSARY, REVEGETATE WITH ANNUAL RYEGRASS, APPROPRIATE WETLAND SEED MIX, OR EQUIVALENT.
- L. INSPECT AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS UNTIL RESTORATION HAS BEEN DETERMINED TO BE EFFECTIVE.

RARE SPECIES PROTECTION MEASURES

STATE LISTED PLANTS

Confirmed populations will be protected by:

- A. Orange highway fencing installations if located in close proximity to the proposed work areas.
- B. Construction pads and roads will be created with temporary swamp mats.
- C. Disturbed areas will be allowed to revegetate naturally. No seed, topsoil, fertilizer, or other amendments will be added within any areas confirmed to support this species.
- D. Where feasible in NDDB proximity, the access road sections may be realigned to minimize impacts to early-successional habitat within the ROW.

STATE LISTED TURTLES

When construction activities occur between Nov. 1 and April 1, the following will be implemented:

- A. Removal of low-growth vegetation and tree stumps adjacent to banks of identified suitable riparian habitat will be avoided and minimized to the greatest extent possible.
 - B. Mowing in preparation of Project construction activities will be limited to the extent practicable.
- When construction activities occur between April 1 and Nov. 1, the following will be implemented:
- A. A contractor awareness program will be developed and implemented to ensure that contractors have been instructed on the proper response in the event that a protected turtle is observed.
 - B. A sweep of the work area shall be conducted prior to heavy machinery access, construction, and/or mowing to look for basking turtles.
 - C. If mowing during the active season is required, vegetation will be mowed to no lower than 7". Brontosaurus or Fecon mower heads are preferred. Flail type mowers shall not be used.
 - D. Any turtle encountered during construction will be safely moved, unharmed, by the Environmental Monitor to an area immediately outside of the work area, and positioned in the same direction that it was heading when discovered. Workers will be informed that turtles should never be moved off site.
 - E. Silt fencing will be removed after work is completed and exposed soils are stable so reptile and amphibian movements are not restricted.
 - F. Any confirmed listed turtle sightings will be reported to the NDDB.
 - G. E&S controls to be installed so that movement is not inhibited through the construction area.
 - H. Install silt fencing to prevent turtles from accessing areas where they may become trapped.

WATERBODIES AVOIDANCE AND MINIMIZATION MEASURES

- A. COMPLY WITH RELEVANT PORTIONS OF EVERSOURCE'S BEST MANAGEMENT PRACTICES MANUAL: CONNECTICUT CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS.
- B. INSTALL AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS ALONG THE ROW WHERE CONSTRUCTION ACTIVITIES DISTURB SOILS NEAR WATERCOURSES. THESE CONTROLS WILL BE INSTALLED AND MAINTAINED TO PREVENT SEDIMENTATION INTO WATER RESOURCES. SEDIMENT THAT ACCUMULATES BEHIND THESE CONTROLS WILL PERIODICALLY BE REMOVED AND PLACED IN UPLAND AREAS, IN A MANNER THAT WILL PRECLUDE THE POTENTIAL FOR SUBSEQUENT DEPOSITION INTO WATERCOURSES OR OTHER WATERS OF THE U.S., OR WILL OTHERWISE BE DISPOSED OF OFF-SITE.
- C. NO UNCONFINED IN-STREAM ACTIVITIES ARE PROPOSED OR AUTHORIZED. EXISTING ACCESS ROAD CROSSINGS OF WATERCOURSES, WHICH MAY BE RE-ESTABLISHED DURING THE PROJECT, WILL NOT BE CONSTRUCTED DURING CONDITIONS OF PEAK FLOWS OR BANK-FULL CONDITIONS. ONLY CLEAN MATERIALS WILL BE USED (E.G., CLEAN RIPRAP, GRAVEL, STONE OR EQUIVALENT).
- D. MAJOR CONSTRUCTION EQUIPMENT WILL BE PROHIBITED FROM FORDING STREAMS.
- E. ACCESS ROADS ACROSS WATERCOURSES WILL BE INSTALLED, WHERE PRACTICABLE, SO AS TO AVOID OR MINIMIZE DIRECT ADVERSE IMPACTS TO STREAM BANKS AND STREAM BOTTOM SEDIMENTS, AS WELL AS TO PROVIDE UNOBSTRUCTED AMBIENT FLOW IN PERENNIAL STREAMS (E.G., SPAN CROSSINGS WILL PROVIDE ADEQUATE CLEARANCE ABOVE THE WATERCOURSE TO CONVEY FLOWS).
- F. WHERE TEMPORARY CONSTRUCTION WORK PADS MUST BE CONSTRUCTED OVER WATERCOURSES, THE WORK PAD DESIGN WILL INCORPORATE MEASURES DESIGNED TO MAINTAIN FLOWS AND MINIMIZE AQUATIC HABITAT DISTURBANCE DURING THE CONSTRUCTION PERIOD.
- G. MAT SPANS OR EQUIVALENT ACCESS ACROSS WATERCOURSES WILL BE PERIODICALLY SWEEPED, AS APPROPRIATE, TO MINIMIZE THE POTENTIAL FOR SOIL DEPOSITION INTO WATERCOURSES AS A RESULT OF VEHICLE/EQUIPMENT MOVEMENTS.
- H. TIMBER MAT COMPLEX AT THE JUNCTION SHALL BE UNDERLAIN WITH FILTER FABRIC.
- I. EXISTING RIPARIAN VEGETATION ALONG THE ROW WITHIN 25 FEET OF WATERCOURSE BANKS WILL BE MAINTAINED, TO THE EXTENT PRACTICABLE AND CONSISTENT WITH ROW VEGETATION MANAGEMENT REQUIREMENTS.
- J. EXCEPT FOR EQUIPMENT THAT IS NOT READILY MOBILE OR MUST REMAIN ON-SITE FOR PROLONGED PERIODS TO SAFELY COMPLETE A CONSTRUCTION TASK, CONSTRUCTION VEHICLES AND EQUIPMENT WILL NOT BE REFUELED WITHIN 25 FEET OF A WATERCOURSE. FOR REFUELING THAT MUST BE PERFORMED LESS THAN 25 FEET FROM A WATERCOURSE, APPROPRIATE SPILL PREVENTION MEASURES. (REFER TO THE SPILL PREVENTION AND COUNTERMEASURES PLAN).
- K. NO BULK PETROLEUM PRODUCTS WILL BE STORED WITHIN 25 FEET OF A WATERCOURSE.
- L. AS THE FINAL PHASE OF CONSTRUCTION, TEMPORARY MAT SPANS WILL BE REMOVED AND WATERCOURSES WILL BE RESTORED. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REMOVED UPON THE STABILIZATION OF EXPOSED SOILS NEAR WATERCOURSES.

STATE LISTED AMPHIBIANS

- A. S&E control implementation per Eversource BMPs to minimize sediment deposition into seasonal pools in vegetated wetlands, and prompt contractor response to repair/maintain S&E controls.
- B. Environmental Monitor reconnaissance and monitoring in the designated NDDB area during active construction periods, along with providing contractor awareness, to minimize the potential of impacts to migrating individuals.

STATE LISTED BIRDS

- A. Perform bird surveys in May through July to determine if nesting activity is present in the Project Area (Only Select NDDB bird species/areas).
- B. Implement time-of-year restrictions to avoid or minimize disturbance during the nesting season.
- C. Conduct construction-phase monitoring to determine if nesting activity is present if TOY restrictions are not feasible.

FEDERALLY LISTED MAMMALS

- A. S&E control measures will be implemented to avoid altering wetlands, vernal pools, and larger water bodies where foraging may occur.
- B. Dead or dying trees will be left standing where practical and where they do not create a safety hazard.
- C. Trees (over 4 inches dbh) that are outside of, but in close proximity to, the prescribed clearing area will be clearly demarcated or monitored by the Environmental Monitor to avoid accidental removal of suitable roosting trees.

VERNAL POOL AVOIDANCE AND MINIMIZATION MEASURES

- A. THE USE OF CONSTRUCTION MATTING OVER IDENTIFIED VERNAL POOL DEPRESSIONS IS NOT AUTHORIZED.
- B. GRAVEL WORK PADS ARE NOT PERMITTED WITHIN 100 FEET OF IDENTIFIED VERNAL POOLS.
- C. EXCEPT IN AREAS WHERE ACCESS ROADS AND WORK PADS MUST BE INSTALLED, EXISTING SCRUB-SHRUB VEGETATION WITHIN 25 FEET OF VERNAL POOLS WILL BE MAINTAINED, CONSISTENT WITH ROW VEGETATION MANAGEMENT REQUIREMENTS.
- D. REMOVAL OF LOW GROWING (SCRUB-SHRUB) VEGETATION SURROUNDING VERNAL POOLS SHALL BE MINIMIZED BY UTILIZING CONSTRUCTION MATTING WHERE ACCESS IS NEEDED. IF VEGETATION MUST BE CUT ADJACENT TO VERNAL POOLS, THE CUT VEGETATION (SLASH) WILL BE LEFT IN PLACE TO SERVE AS RECRUITMENT FOR LEAF LITTER AND COARSE WOODY DEBRIS.
- E. EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED AND MAINTAINED ALONG CONSTRUCTION ACCESS ROADS AND AROUND WORK PADS AS NECESSARY TO PROTECT WATER QUALITY AND TO LIMIT THE POTENTIAL FOR SEDIMENT TRANSPORT TO VERNAL POOLS.
- F. WHERE EXISTING ON-ROW ACCESS ROADS ADJACENT TO VERNAL POOLS MUST BE IMPROVED, SWAMP MATS OR CORDUROY ROAD WILL BE USED IF PRACTICABLE; OTHERWISE, CLEAN MATERIALS WILL BE USED (E.G., CLEAN RIPRAP, GRAVEL, STONE OR EQUIVALENT AND ROCK FORDS). NOTE: MAN-MADE DEPRESSIONS WITHIN EXISTING ON-ROW ACCESS ROADS MAY PROVIDE AMPHIBIAN BREEDING HABITAT. IN GENERAL, SUCH DEPRESSIONS PROVIDE LOW QUALITY VERNAL POOL HABITAT DUE TO AN INSUFFICIENT HYDROPERIOD. TO ACCOMMODATE PROJECT CONSTRUCTION VEHICLES, THESE ACCESS ROADS MAY NEED TO BE IMPROVED. THE PROPOSED ACCESS ROAD IMPROVEMENTS WILL ELIMINATE THESE DEPRESSIONS AND THE ASSOCIATED POTENTIAL FOR AMPHIBIAN BREEDING HABITAT. TO AVOID DIRECT IMPACTS TO AMPHIBIANS THAT MAY BREED IN THESE DEPRESSIONS, EVERSOURCE WILL ATTEMPT TO PERFORM THE IMPROVEMENTS TO THESE ON-ROW ACCESS ROADS OUTSIDE OF THE BREEDING AND MIGRATION SEASONS OF VERNAL POOL SPECIES.
- G. TO THE EXTENT THAT CIRCUIT OUTAGE AND OTHER CONSTRUCTION TIMING CONSTRAINTS ALLOW, EVERSOURCE WILL ATTEMPT TO SCHEDULE THE INSTALLATION OF ACCESS ROADS AND WORK PADS IN AND AROUND VERNAL POOL HABITATS SO AS NOT TO INTERFERE WITH AMPHIBIAN BREEDING AND MIGRATION SEASONS.
- H. FOR PROJECT ACTIVITIES THAT MUST OCCUR ADJACENT TO VERNAL POOLS DURING AMPHIBIAN MIGRATION PERIODS, MEASURES WILL BE IMPLEMENTED ON A SITE-SPECIFIC BASIS AS NECESSARY TO FACILITATE UNENCUMBERED AMPHIBIAN ACCESS TO AND FROM VERNAL POOLS. MITIGATION MEASURES WILL BE IDENTIFIED AFTER TAKING INTO CONSIDERATION SITE-SPECIFIC CONDITIONS, INCLUDING THE TYPE OF CONSTRUCTION ACTIVITY IN PROXIMITY TO A VERNAL POOL, THE AMPHIBIAN SPECIES KNOWN TO OCCUR IN THE VERNAL POOL, AND SEASONAL CONDITIONS. OPTIONS TO BE EVALUATED TO ALLOW AMPHIBIAN ACCESS TO VERNAL POOLS MAY INCLUDE, BUT NOT BE LIMITED TO: SYNCOPATED SILT FENCING IN THE IMMEDIATE VICINITY OF VERNAL POOLS; ELEVATED CONSTRUCTION MATTING; AND ALIGNING EROSION AND SEDIMENTATION CONTROLS TO AVOID BIFURCATING VERNAL POOL HABITAT.
- I. EROSION AND SEDIMENTATION CONTROL DEVICES WILL BE PROMPTLY REMOVED UPON FINAL REVEGETATION AND STABILIZATION OF THE ROW.

WETLAND INVASIVE SPECIES BEST MANAGEMENT PRACTICES

TO CONTROL THE SPREAD OF WETLAND INVASIVE PLANT SPECIES, EVERSOURCE WILL REQUIRE CONSTRUCTION CONTRACTORS TO IMPLEMENT THE PROCEDURES DESCRIBED BELOW, AS APPROPRIATE TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED.

- A. ALL CONSTRUCTION EQUIPMENT, VEHICLES, AND MATERIALS (E.G., EQUIPMENT MATS) MUST BE CLEANED AND FREE OF EXCESS SOIL, DEBRIS, AND VEGETATION BEFORE BEING MOBILIZED TO THE PROJECT ROW.
- B. TO MINIMIZE THE POTENTIAL FOR SPREADING INVASIVE PLANT SPECIES FROM WETLAND TO WETLAND ALONG THE ROW, ANY EQUIPMENT WORKING IN OR TRAVERSING A WETLAND CONTAINING INVASIVE PLANT SPECIES WILL BE CLEANED PRIOR TO RELOCATING TO ANOTHER WORK SITE. CLEANING OF VEHICLES AND OTHER EQUIPMENT (INCLUDING TRACKS AND TIRES) WILL INVOLVE REMOVAL OF VISIBLE DIRT, DEBRIS, AND VEGETATION USING BROOMS, SHOVELS, AND COMPRESSED AIR.
- C. SWAMP MATS OR EQUIVALENT WILL BE USED AT WETLAND CROSSINGS SO CONSTRUCTION VEHICLES THAT FREQUENTLY TRAVEL ALONG ON-ROW ACCESS ROADS, SUCH AS PICKUPS CARRYING PERSONNEL OR MATERIAL DELIVERY TRUCKS, CAN AVOID DIRECT WETLAND INTERACTION.
- D. MATS USED IN WETLANDS CONTAINING INVASIVE SPECIES WILL BE CLEANED PRIOR TO RELOCATING TO OTHER WORK AREAS OR WETLANDS. CLEANING OF MATS WILL INVOLVE DROPPING MATS ONE ON TOP OF THE ANOTHER TO SHAKE LOOSE ANY SEDIMENT AND DEBRIS. THE MATTING WILL THEN BE SWEEPED TO REMOVE LOOSE SOIL AND PLANT MATERIAL.
- E. CONSTRUCTION EQUIPMENT WILL REMAIN WITHIN THE APPROVED WORK AREA LIMITS AS DEFINED ON THE PROJECT PLANS.
- F. FINAL RESTORATION OF THE ROW WILL BE PERFORMED IN ACCORDANCE WITH THE BMP MANUAL.

Bloomfield-Windsor Upgrades Project

1751, 1777 & 1779 Line

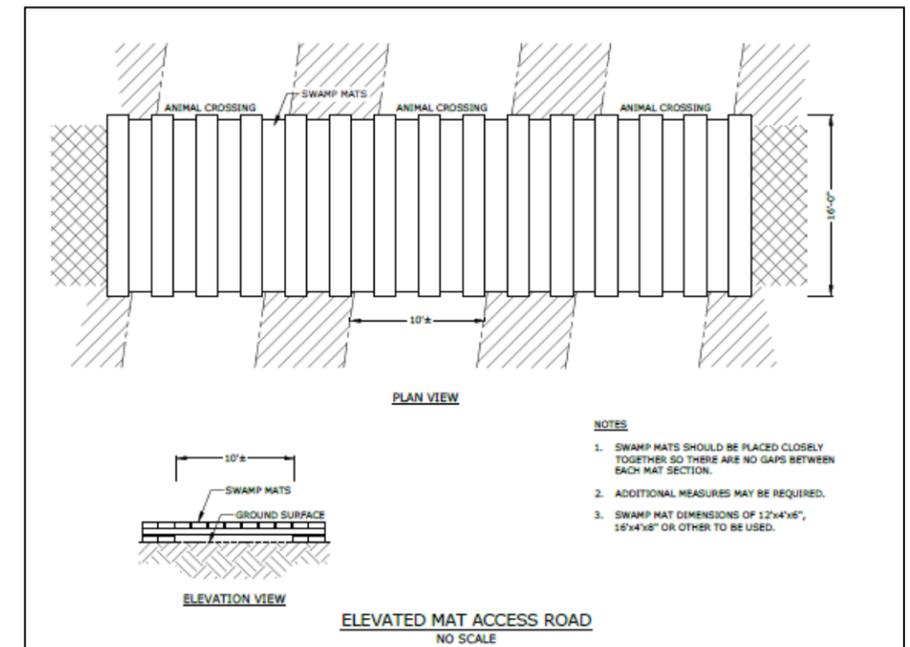
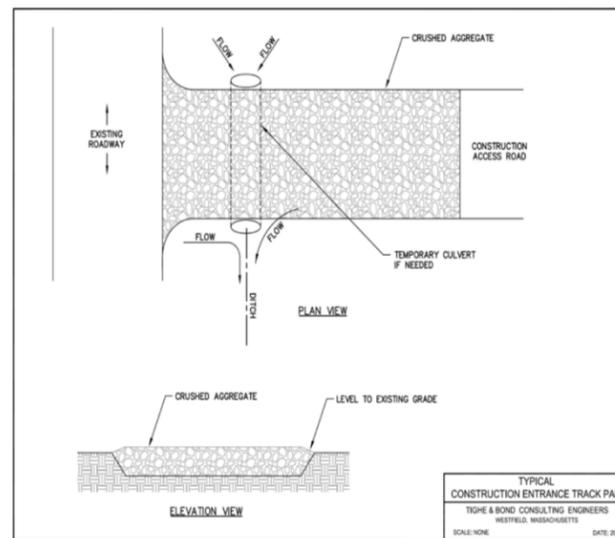
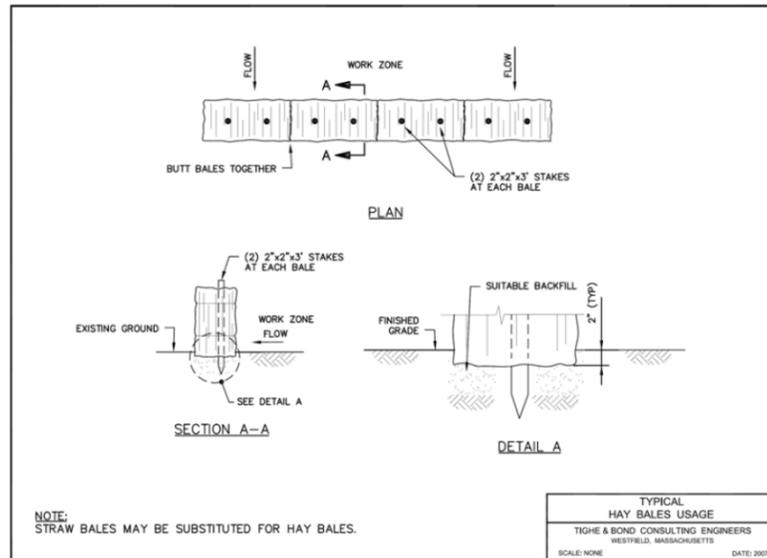
Select Best Management Practices (BMPs)

Bloomfield & Windsor, CT

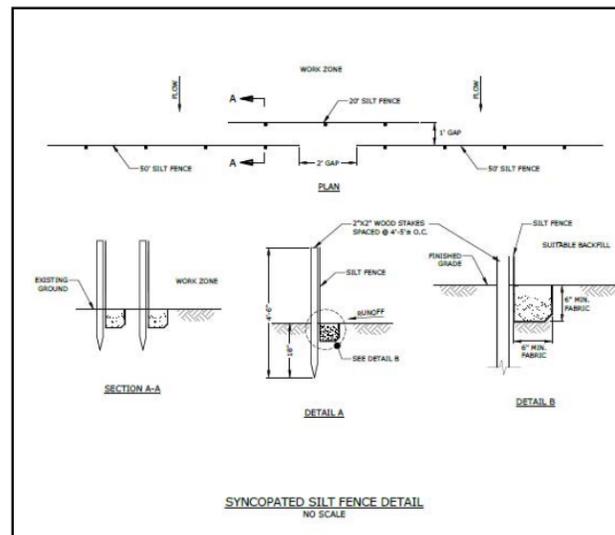
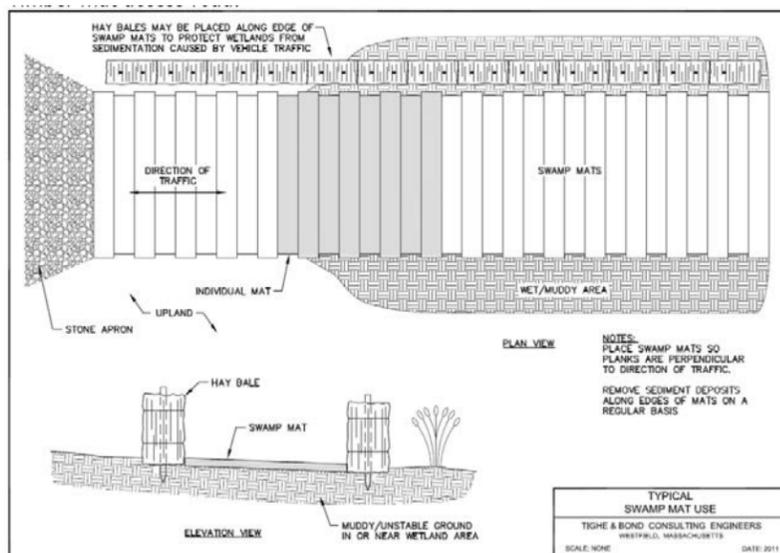
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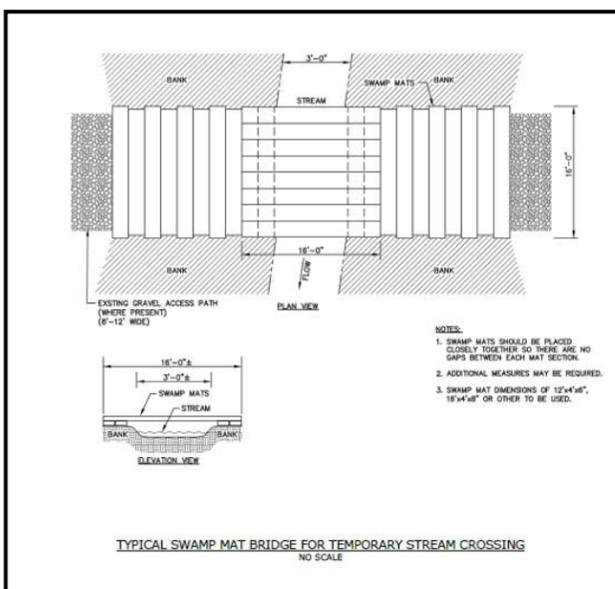
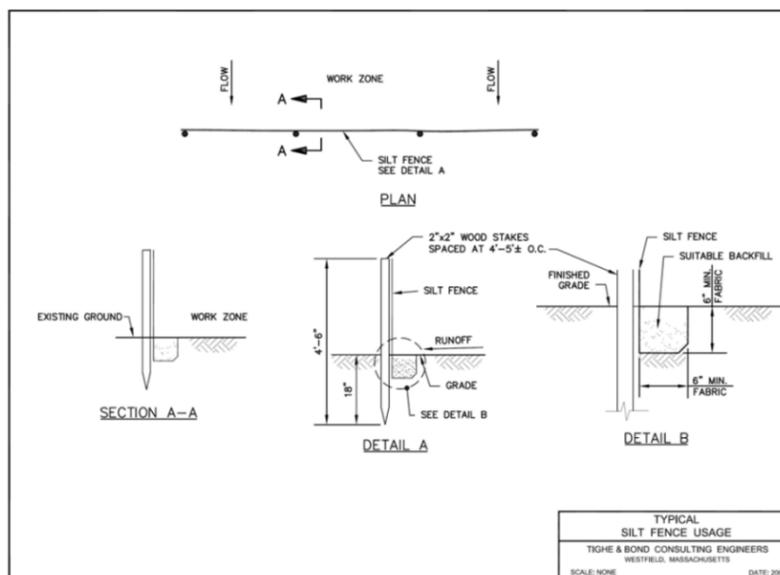
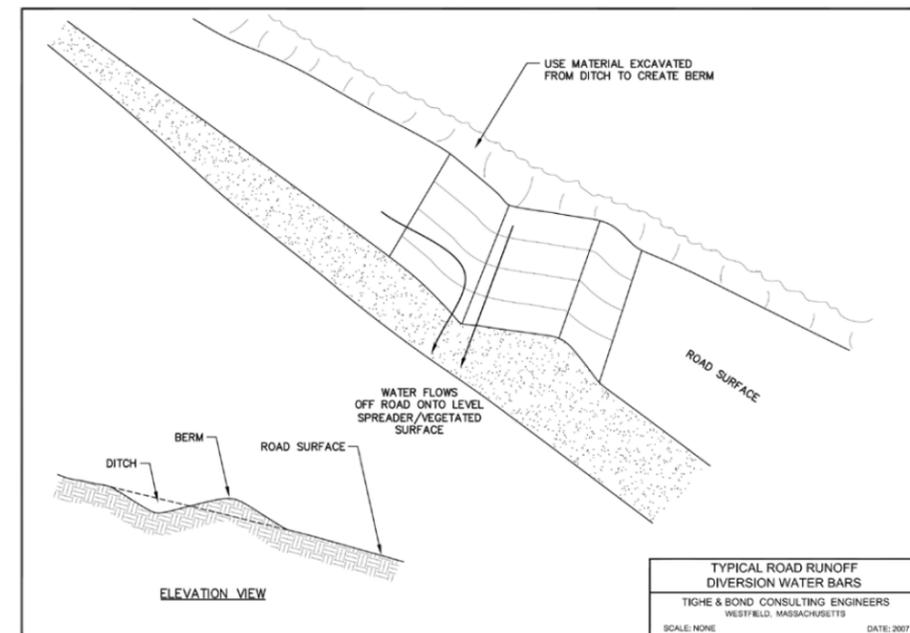
Detail Sheet 1



Detail per Eversource/Tighe & Bond 1763 Line Reconductoring Project D&M Plans (05/2015)



Detail per Eversource/Tighe & Bond 1763 Line Reconductoring Project D&M Plans (05/2015)



Detail per Eversource/Tighe & Bond 1763 Line Reconductoring Project D&M Plans (05/2015)

Bloomfield-Windsor Upgrades Project
1751, 1777 & 1779 Line

Select Best Management Practices (BMPs)
 Bloomfield & Windsor, CT
 No Scale-

EVERSOURCE

AECOM

Detail Sheet 2