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VOLUME 5: PROJECT MAPPING & DRAWINGS

EXHIBIT 1: 400 SCALE MAPS: PROPOSED ROUTE
APPENDIX 1A: OVERVIEW OF ROUTE ON USGS MAPS
APPENDIX 1B: PROPOSED ROUTE AERIAL MAPS – 400 SCALE

EXHIBIT 2: 100 SCALE MAPS: PROPOSED ROUTE
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EXHIBIT 3: SUBSTATION DRAWINGS
APPENDIX 3A: PROPOSED FROST BRIDGE SUBSTATION MODIFICATIONS
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EXHIBIT 1: 400 SCALE MAPS: PROPOSED ROUTE

APPENDIX 1A: OVERVIEW OF ROUTE ON USGS MAPS
APPENDIX 1B: PROPOSED ROUTE AERIAL MAPS – 400 SCALE
INTRODUCTION

This volume provides maps that identify both the regional setting and the land use / environmental characteristics of the 10.4-mile Proposed Route that Eversource Energy has identified for the new 115-kV transmission line and related facilities comprising the Frost Bridge to Campville Project (Project).

Eversource’s Proposed Route, along which the new 115-kV transmission line would be constructed and operated in overhead configurations, would follow an existing Eversource right-of-way (ROW) extending between Eversource’s existing Frost Bridge Substation in the Town of Watertown and Campville Substation in the Town of Harwinton. In conjunction with the development of the new 115-kV transmission line, Eversource would modify the existing Frost Bridge Substation and Campville Substation. (Refer to Volume 1 for details regarding the Proposed Route and transmission line facilities.)

The following maps are included in this volume:

- **Exhibit 1: U.S. Geological Survey Maps.** These topographic maps (at a scale of 1” = 2,000’) illustrate the general locations of the proposed Project facilities and variations.

- **Exhibit 2: Proposed Route Maps.** These aerial photography-based maps (at a scale of 1” = 400’) identify the location of the Proposed Route along Eversource’s existing ROW; depict existing and proposed transmission line structures; and illustrate environmental, social, and land use features (e.g., town boundaries, zoning, water resources, vegetative cover types, forests, parks, other recreational areas, historic areas, and settled areas). Each aerial map is accompanied by explanatory data (on the page facing the map) that summarizes the primary environmental and land use characteristics of the ROW and surrounding region within the map viewing area. The page facing the map also includes a cross-section illustrating the configuration of the existing and proposed transmission lines within the ROW, as applicable to the map segment. *(Note: Cross-section drawings also are included in Volume 1, Section 3, Appendix 3A and Volume 10.)*

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1Aerial photographs were derived from 2012 aerial imagery; environmental and land use features are mapped based on 2010 Geographical Information System data obtained from federal and state agencies (such as the Connecticut Department of Energy and Environmental Protection (CT DEEP) and the Federal Emergency Management Agency (FEMA), as well as the results of environmental and engineering field surveys and ROW / transmission lines locational information from Eversource.
APPENDIX 1A: OVERVIEW OF ROUTE ON USGS MAPS
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# United States Geological Survey Topographic Map Symbols

## Bathymetric Features
- Area exposed at mean low tide, sounding datum line
- Channel
- Sunken rock

## Boundaries
- National
- State or territorial
- County or equivalent
- Civil township or equivalent
- Incorporated city or equivalent
- Federally administered park, reservation, or monument (external)
- Federally administered park, reservation, or monument (internal)
- State forest, park, reservation, or monument and large county park
- Forest Service administrative area
- Forest Service ranger district
- National Forest System land status
- Forest Service lands
- National Forest System land status, non-Forest Service lands
- Small park (county or city)

## Buildings and Related Features
- Building
- School; hours of worship
- Athletic field
- Built-up area
- Forest headquarters
- Ranger district office
- Guard station or work center
- Racetrack or raceway
- Airport, paved landing strip, runway, taxiway, or apron
- Unpaved landing strip
- Well (other than water), windmill or wind generator
- Tanks
- Covered reservoir
- Saging station
- Located or landmark object (feature as labeled)
- Boat ramp or boat access
- Roadside park or rest area
- Picnic area
- Campground
- Winter recreation area
- Cemetery

## Coastal Features
- Forosha flat
- Coral or rock reef
- Rock, bare or awash; dangerous to navigation
- Group of rocks, bare or awash
- Exposed seawall
- Breakwater, pier, jetty, or wharf
- Seawall
- oil or gas well platform

## Contours
- Topographic
  - Index
  - Approximate or indefinite
  - Intermediate
  - Approximate or indefinite
  - Supplementary
  - Depression
- Cut
- Fill
- Continental divide

## Control Data and Monuments – continued
- Principal point
- U.S. mineral or location monument
- River mileage marker

## Glaciers and Permanent Snowfields
- Contours and limits
- Farmlines
- Glacial advance
- Glacial retreat

## Land Surveys
- Public land survey system
  - Range or Township line
  - Location approximate
  - Location doubtful
  - Promoted
  - Promoted (AK 1:83,300-scale)
- Section line
  - Location approximate
  - Location doubtful
  - Promoted
  - Promoted (AK 1:83,300-scale)
  - Section numbers
  - Found section corner
  - Found closing corner
  - Witness corner
  - Meandar corner
  - Week corner

## Other Land Surveys
- Range or Township line
- Section line
- Land grant, mining claim, donation land claim, or tract
- Land grant, homestead, mineral, or other special survey monument

## Rive, Licks, and Canals
- Shoreline
- Apparent edge of vegetation
- Indefinite or unsurveyed

## Mines and Caves
- Quarry or open pit mine
- Gravel, sand, clay, or borrow pit
- Mine tunnel or cave entrance
- Mine shaft
- Prospect
- Tailings
- Mine dump
- Former disposal site or mine

## Projection and Grids
- UTM grid (full grid)
- UTM grid ticks

## Railroads and Related Features
- Standard gauge railroad, single track
- Standard gauge railroad, multiple track
- Narrow gauge railroad, single track
- Narrow gauge railroad, multiple track
- Railroad siding
- Railroad in highway
- Railroad in light duty road
- Railroad underpass, overpass
- Railroad bridge, drawbridge
- Railroad tunnel
- Railroad yard
- Railroad turntable, roundhouse

Source: USGS Website; erg.usgs.gov/isb/pubs/booklets/symbols
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United States Geological Survey Topographic Map Symbols (continued)

### RIVERS, LAKES, AND CANALS – continued

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<td>Dry lake/pond</td>
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<td>Narrow wash</td>
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<td>Wide wash</td>
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<td>Canal, flume, or a quagmire with lock</td>
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<tr>
<td>Elevated aqueduct, flume, or conduit</td>
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<td>Aqueduct tunnel</td>
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<td>Water well, geyser, fumarole, or mud pot</td>
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<td>Spring or seep</td>
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### SUBMERGED AREAS AND BOGS

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<td>Submerged marsh or swamp</td>
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<td>Wooded marsh or swamp</td>
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<tr>
<td>Submerged wooded marsh or swamp</td>
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<td>Land subject to inundation</td>
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### SURFACE FEATURES

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<td>Disturbed surface</td>
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<td>Gravel beach or glacial moraine</td>
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<td>Tailings pond</td>
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### TRANSMISSION LINES AND PIPELINES

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<td>Telephone line</td>
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<tr>
<td>Aboveground pipeline</td>
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<td>Underground pipeline</td>
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### VEGETATION

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<td>Shrubland</td>
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<tr>
<td>Orchard</td>
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<tr>
<td>Vineyard</td>
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<tr>
<td>Mangrove</td>
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* USGS-USDA Forest Service Single-Edition Quadrangle maps only.

In August 1993, the U.S. Geological Survey and the U.S. Department of Agriculture’s Forest Service signed an Interagency Agreement to begin a single-edition joint mapping program. This agreement established the coordination for producing and maintaining single-edition primary series topographic maps for quadrangles containing National Forest System lands. The joint mapping program eliminates duplication of effort by the agencies and results in a more frequent revision cycle for quadrangles containing National Forests. Maps are revised on the basis of jointly developed standards and contain normal features mapped by the USGS, as well as additional features required for efficient management of National Forest System lands. Single-edition maps look slightly different but meet the content, accuracy, and quality criteria of other USGS products.

** Provisional-Edition maps only.

Provisional-edition maps were established to expedite completion of the remaining large-scale topographic quadrangles of the contiguous United States. They contain essentially the same level of information as the standard series maps. This series can be easily recognized by the title “Provisional Edition” in the lower right-hand corner.

*** Topographic Bathymetric maps only.

### Topographic Map Information

For more information about topographic maps produced by the USGS, please call: 1-888-ASK-USGS or visit us at http://ask.usgs.gov/
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INDEX

FROST BRIDGE TO CAMPVILLE 115-kV PROJECT PROPOSED ROUTE

<table>
<thead>
<tr>
<th>Mapsheet</th>
<th>Town(s)</th>
<th>Proposed Structure Numbers (1304 Line)</th>
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<tbody>
<tr>
<td>1 of 9</td>
<td>Watertown</td>
<td>Frost Bridge Substation to 9</td>
</tr>
<tr>
<td>2 of 9</td>
<td>Watertown</td>
<td>10 to 21</td>
</tr>
<tr>
<td>3 of 9</td>
<td>Watertown</td>
<td>22 to 35</td>
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<tr>
<td>4 of 9</td>
<td>Watertown, Thomaston</td>
<td>36 to 46</td>
</tr>
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<td>5 of 9</td>
<td>Thomaston</td>
<td>47 to 59</td>
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<tr>
<td>6 of 9</td>
<td>Thomaston</td>
<td>59 to 70</td>
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<td>7 of 9</td>
<td>Thomaston, Litchfield</td>
<td>71 to 81</td>
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<td>8 of 9</td>
<td>Litchfield, Harwinton</td>
<td>82 to 88</td>
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<tr>
<td>9 of 9</td>
<td>Harwinton</td>
<td>90 to Campville Substation</td>
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Frost Bridge to Campville 115-kV Project

Index Map

- Purgatory Junction
- Walnut Hill Junction
- Campville Substation
- Frost Bridge Substation
- Proposed 115-kV Line (Centerline)

INDEX MAP

1 inch = 0.75 mile

September 2015
**Frost Bridge to Campville 115-kV Project**

**Proposed Route**
- Frost Bridge Substation to Proposed Structure 9
- Frost Bridge Road to West of Echo Lake Road
- Town of Watertown, CT

---

### Right-of-Way Description

**Land Use**
- Commercial/Industrial (Frost Bridge Substation) east of proposed structure 1E
- Eversource property at Frost Bridge Substation and adjacent to proposed structures 1E to 4
- Recreation (CFPA Jericho-Whitestone Connector Trail) between proposed structures 1E and 1F and between proposed structures 4 and 5 (Jericho Trail)
- CT DEEP Property/Open Space (Mattatuck State Forest) between proposed structures 4 and 9

**Wetlands, Watercourses and Waterbodies**
- Wetland Cover Types: Palustrine Emergent (PEM), Palustrine Scrub/Shrub (PSS), Palustrine Forested (PFO)
- Stream Nos.: S-FB1, S-FB2, S-FB3, S-A1, S-A3, S-A4, S-A5 (Turkey Brook), S-A6, S-A7

**Potential Access**
- Frost Bridge Substation can be accessed from Frost Bridge Road
- Proposed structures 1E to 2 can be accessed from Echo Lake Road
- Proposed structures 3 to 9 can be accessed from existing Mattatuck State Forest access roads originating at Echo Lake Road and entering the ROW between proposed structures 4 and 5

**Right-of-Way Vegetation**
- Upland and Wetland Forest
- Old Field/Shrub Land

**Terrain**
- Rocky upland with precipitous outcrops

---

### Area Description

**Existing Land Use**
- Forested
- Connecticut Department of Energy and Environmental Protection (CT DEEP) Property/Open Space (Mattatuck State Forest)
- CT DEEP Hunting Areas (Mattatuck State Forest)
- Commercial/Industrial (Frost Bridge Substation)
- Recreational (Connecticut Forest and Park Association (CFPA) Hiking Trails – Jericho Trail, Jericho-Whitestone Connector)

**Zoning**
- Town of Watertown
  - Residential (R-90)
  - Restricted Industrial (I-R 80, I-R 200)
  - General Industrial (I-G 80)

**Natural Systems**
- Mixed hardwood forests of varying size and age
- State/Federal jurisdictional wetlands and watercourses
- Turkey Brook and its associated tributaries
- Naugatuck River and its associated tributaries
- 100-Year Flood Zone (Naugatuck River)

**Visual Character**
- Prominent ridges with exposed rock outcrops along the Naugatuck River Valley

---

**Existing Right-of-Way Width / Proposed Expansion of Right-of-Way Width**
- 400 feet / 0 feet

**Existing Cleared / Maintained Right-of-Way Width / Proposed Additional Cleared Right-of-Way Width**
- 400 feet / varies

**Road Crossings / Major Utility Crossings**
- James H. Darcey Memorial Highway (Route 8) between Frost Bridge Substation and proposed structure 1E
- Frost Bridge Road (Route 262) between Frost Bridge Substation and proposed structure 1E
- Echo Lake Road between proposed structures 1E and 1F
Frost Bridge to Campville
115-kV Project
Watertown, Connecticut
Mapsheet 1 of 9

INDEX MAP

EXISTING STRUCTURE
PROPOSED STRUCTURE
RIGHT-OF-WAY (EXISTING)
EXISTING TRANSMISSION LINE (CENTRATLINE)
PROPOSED 115-KV LINE (CENTERLINE)
EXISTING ACCESS ROAD
MARKED TRAIL

NATIONAL REGISTER LISTED HISTORIC SITE
NATIONAL REGISTER LISTED HISTORIC PLACE
FEDERAL PROPERTY
STATE FOREST
STATE PARK
STATE ROUTE
NATIONAL DISSERTATION DATABASE AREA (DECEMBER 2014)
COMMUNITY FACILITIES

APPELLATION PROTECTION AREA (APA)
APPROXIMATE FEMA 100-YEAR FLOOD ZONE
TRAIL POINTS

EVERSOURCE OWNED PROPERTY
MUNICIPAL BOUNDARY
LAND USE/VEGETATIVE COVER
EMERGENT WETLAND (PWE)
FORESTED WETLAND (PFW)
SCREW-SHRUB WETLAND (PSS)
OPEN WATER (PON)

OLD FIELD-SHRUB LAND (OF/S)
UPLAND FOREST (UF)
COMMERCIAL/INDUSTRIAL (CI)
AGRICULTURAL LANDS (AG)
HOUSE/YARD (HY)
OTHER (OT)
PROPOSED SUBSTATION EXPANSION

AQUIFERS PROTECTION AREA (APA)
APPROXIMATE FEMA 100-YEAR FLOOD ZONE
TRAIL POINTS

EVERSOURCE OWNED PROPERTY
MUNICIPAL BOUNDARY
LAND USE/VEGETATIVE COVER
EMERGENT WETLAND (PWE)
FORESTED WETLAND (PFW)
SCREW-SHRUB WETLAND (PSS)
OPEN WATER (PON)

OLD FIELD-SHRUB LAND (OF/S)
UPLAND FOREST (UF)
COMMERCIAL/INDUSTRIAL (CI)
AGRICULTURAL LANDS (AG)
HOUSE/YARD (HY)
OTHER (OT)
PROPOSED SUBSTATION EXPANSION

Aquifer Protection Area (APA)
Approximate FEMA 100-Year Flood Zone
Trailing Points

EverSource Owned Property
Municipal Boundary
Land Use/Vegetative Cover
Emergent Wetland (PWE)
Forest Wetland (PFW)
Scrub-Shrub Wetland (PSS)
Open Water (PON)

Old Field/Shrub Land (OF/S)
Upland Forest (UF)
Commercial/Industrial (CI)
Agricultural Lands (AG)
House/Yard (HY)
Other (OT)
Proposed Substation Expansion

G:\GIS\CT\EversourceEnergy\N0915\N0915_43_FrostBridgetoCampville\MapDocuments\Constructability\400Scale_Constructability\FrostBridgeCampville_400ScaleConstructability2015Data_20150611.mxd

1 inch = 400 feet

Eversource
ENERGY

September 2015
Frost Bridge to Campville 115-kV Project
Proposed Route
Proposed Structure Locations 10 to 21
East of Park Road to Nova Scotia Hill Road
Town of Watertown, CT

RIGHT-OF-WAY DESCRIPTION

Land Use
- Residential adjacent to proposed structures 14 and 21
- Commercial/Industrial adjacent to proposed structures 15 and 16
- Town and Private Open Space (Veteran’s Memorial Park) between and adjacent to proposed structures 3097 to 3100
- Eversource property adjacent to Structure 3100

Wetlands, Watercourses and Waterbodies
- Wetland Cover Types: Palustrine Open Water (POW), PEM, PSS, PFO
- Stream Nos.: S-A6, S-A7

Potential Access
- Proposed structures 10 to 20 can be accessed from Park Road
- Proposed structure 21 can be accessed from Nova Scotia Hill Road

AREA DESCRIPTION

Existing Land Use
- Forest
- Agricultural
- Commercial/Industrial
- Residential
- Town and Private Open Space (Veteran’s Memorial Park)
- Recreational (Veteran’s Memorial Park)
- CT DEEP Property/Open Space (Mattatuck State Forest)
- CT DEEP Hunting Area (Mattatuck State Forest)

Zoning
- Town of Watertown
  - Restricted Industrial (I-R 200)
  - Residential (R-30, R-90)

Natural Systems
- Mixed hardwood forests of varying size and age
- State/Federal jurisdictional wetlands and watercourses
- Jericho Brook Pond and its associated tributaries
- Jericho Brook and its associated tributaries

Visual Character
- Rural with rolling agricultural fields and forest land

Right-of-Way Vegetation
- Old Field/Shrub Land
- Upland and Wetland Forest
- Agricultural

Terrain
- Level with sloped areas at wetland/upland transitions

Existing Right-of-Way Width/ Proposed Expansion of Right-of-Way Width
- 400 feet / 0 feet

Road Crossings / Major Utility Crossings
- Park Road between proposed structures 14 and 15
- Seemar Road adjacent to proposed structure 15
- Nova Scotia Hill Road between proposed structures 21 and 22 (Mapsheet 3)
RIGHT-OF-WAY DESCRIPTION

Land Use
- Commercial/Industrial adjacent to proposed structures 22 and 23 (greenhouses)
- Upland and/or wetland forest adjacent to proposed structures 26 to 35
- CT DEEP Property/Open Space (Black Rock State Park) between and adjacent to structures 32 and 35
- Residential adjacent to proposed structure 27

Wetlands, Watercourses and Waterbodies
- Wetland Cover Types: POW, PSS, PFO
- Stream Nos.: S-B1, S-B2, S-B3, S-C1, S-C3, S-C4, S-C5

Potential Access
- Proposed structures 22 and 23 can be accessed from Nova Scotia Hill Road
- Proposed structures 24 to 35 can be accessed from High Meadow Road (west of Purgatory Junction)

Right-of-Way Vegetation
- Old Field/Shrub Land
- Upland and Wetland Forest

Terrain
- Irregular bedrock-controlled topography with common rock outcroppings

Existing Right-of-Way Width / Proposed Expansion of Right-of-Way Width
- 400 feet / 0 feet (south of Purgatory Junction)
- 250 feet / 0 feet (north of Purgatory Junction)

Existing Cleared/Maintained Right-of-Way Width / Proposed Additional Cleared Right-of-Way Width
- 400 feet / 0 feet (south of Purgatory Junction)
- 90 feet / 45 feet (north of Purgatory Junction)

Road Crossings / Major Utility Crossings
- Thomaston Road (Route 6) between proposed structures 23 and 24
- Eversource 1238 & 352 Transmission Lines (Purgatory Junction) adjacent to proposed structure 25
Frost Bridge to Campville 115-kV Project
Proposed Route
Proposed Structure Locations 36 to 46
North of Thomaston Road (Route 6) to Old Branch Road
Towns of Watertown and Thomaston, CT

RIGHT-OF-WAY DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to proposed structures 36 to 46
- CT DEEP Property/Open Space (Black Rock State Park) between and adjacent to proposed structures 36 to 46
- Recreational (CFPA Mattatuck Trail and Black Rock State Park Red Loop) between proposed structures 43 and 45
- Branch Brook Reservoir Dam north of proposed structure 46

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W-C15, W-C18, W-C20, W-C21, W-C23
- Wetland Cover Types: POW, PSS, PFO
- Stream Nos.: S-C6, S-C7, S-C8 (Branch Brook), S-C9

Potential Access
- Proposed structures 36 and 46 can be accessed from High Meadow Road (west of Purgatory Junction)

Right-of-Way Vegetation
- Old Field/Shrub Land
- Upland and Wetland Forest

Terrain
- Steep irregular bedrock-controlled topography and common rock outcroppings

Existing Right-of-Way Width / Proposed Expansion of Right-of-Way Width
- 250 feet / 0 feet

Existing Cleared/ Maintained Right-of-Way Width / Proposed Additional Cleared Right-of-Way Width
- 90 feet / 45 feet

Road Crossings / Major Utility Crossings
- Old Branch Road north of proposed structure 46

AREA DESCRIPTION

Existing Land Use
- CT DEEP Property/Open Space (Black Rock State Park)
- Forested
- Town and Private Open Space (Crestbrook Park and Golf Club)
- Recreational (CFPA Hiking Trail – Mattatuck Trail, Black Rock State Park Trail – Red Loop, and unblazed Black Rock State Park recreational trails)
- Branch Brook Reservoir (Black Rock) Dam
- Residential
- Commercial/Industrial

Zoning
- Town of Watertown
  - Residential (R-90)
- Town of Thomaston
  - Residential (RA-15, RA-40)

Natural Systems
- Mixed hardwood forests of varying size and age
- State/Federal jurisdictional wetlands and watercourses
- Lockwood Pond and its associated tributaries
- Black Rock Pond and its associated tributaries
- Branch Brook and its associated tributaries
- 100-Year Flood Zone (Branch Brook)
- Natural Diversity Data Base Area

Visual Character
- Forest land with irregular bedrock-controlled topography and common rock outcroppings
MAPSHEET 5 of 9
Frost Bridge to Campville 115-kV Project
Proposed Route
Proposed Structure Locations 47 to 59
Branch Road (Route 109) to North of Branch Road (Route 109)
Town of Thomaston, CT

RIGHT-OF-WAY DESCRIPTION

Land Use
- Upland and/or wetland forest adjacent to proposed structures 47 to 59
- CT DEEP Property/Open Space (Mattatuck State Forest, Black Rock State Park) between and adjacent to proposed structures 47 to 50
- CT DEEP Hunting Area (Mattatuck State Forest) between and adjacent to proposed structures 48 to 50
- Eversource Property between proposed structures 52 to 54
- Maintained fields adjacent to proposed structure 56 (shooting range)
- Town and Private Open Space (Thomaston Fish and Game Club) between and adjacent to structures 55 to 57
- Agricultural between and adjacent to proposed structures 58 to 59

Wetlands, Watercourses and Waterbodies
- Wetland Nos.: W-D1, W-D2, W-D3, W-D4, W-D5, W-D6, W-D15
- Wetland Cover Types: POW, PEM, PSS, PFO
- Stream Nos.: S-D1, S-D2, S-D3

Potential Access
- Proposed structures 3128 can be accessed by Branch Road (Route 109)
- Proposed structures 3129 to 3141 can be accessed from Old Northfield Road

Right-of-Way Vegetation
- Old Field/Shrub Land
- Upland and Wetland Forest
- Agricultural

Terrain
- Irregular with rock outcrops

Existing Right-of-Way Width / Proposed Expansion of Right-of-Way Width
- 250 feet / 0 feet

Existing Cleared/ Maintained Right-of-Way Width / Proposed Additional Cleared Right-of-Way Width
- 90 feet / 45 feet

Road Crossings / Major Utility Crossings
- Branch Road (Route 9) between proposed structures 47 and 48

AREA DESCRIPTION

Existing Land Use
- CT DEEP Property/Open Space (Mattatuck State Forest, Black Rock State Park)
- CT DEEP Hunting Area (Mattatuck State Forest)
- Forested
- Town and Private Open Space (Dug Road, Thomaston Fish and Game Club)
- Agricultural

Zoning
- Town of Thomaston
  - Residential (RA-15, RA-40)

Natural Systems
- Mixed hardwood forests of varying size and age
- State/Federal jurisdictional wetlands and watercourses
- Morton Pond and its associated tributaries
- Natural Diversity Data Base Area

Visual Character
- Forest land and rocky with prominent outcrops

CROSS-SECTION 3 (XS-3) VIEW LOOKING NORTH FROM FROST BRIDGE TOWARDS CAMPVILLE SUBSTATION