

# Frost Bridge – Campville 115-kV Transmission Project

Meeting with Town of Harwinton Board of Selectmen October 6, 2015

### Agenda

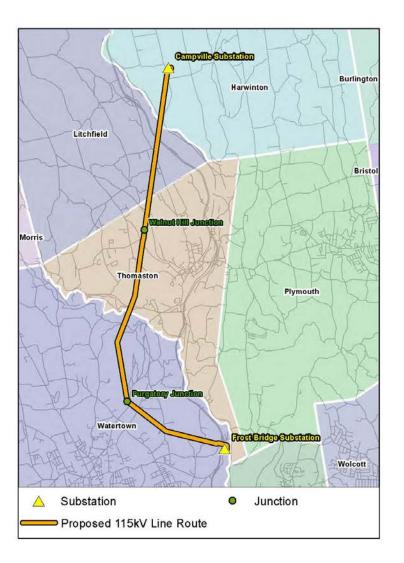


- Project Need
- Project Overview
- Siting Process Overview
- Project Timeline
- Stakeholder Outreach
- Contact Information





- The Independent System Operator of New England's (ISO-NE) transmission planning studies show reliability criteria problems in the Northwest CT area.
- As currently configured, certain operating conditions will cause voltage and thermal problems on the transmission system.



The proposed solution includes:

- Building a new 10.4 mile 115-kV line between Frost Bridge and Campville Substation on existing Right-of-Way.
- Replacing an existing tower outside Frost Bridge Substation with a steel monopole on existing Right-of-Way.

- Replacing the two existing towers that cross the Naugatuck River with steel monopoles on existing Right-of-Way.
- Installing new equipment at Frost Bridge Substation. Work does not require expanding the fence line.
- Installing new equipment at Campville Substation. Work requires an expansion of the current fence line, but it's on Eversource-owned property.

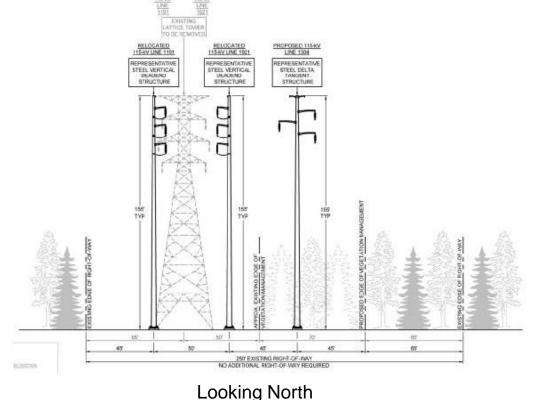
### What we propose to build in Harwinton

### **Overhead Line Scope – 1.3 miles Project route is in Harwinton**

**EVERS** URCE

South Bank Naugatuck River – North Bank Naugatuck River (approximately 0.01 mile in Harwinton)

- Existing lattice structures on either side of the Naugatuck River to be removed and replaced with three vertical monopoles
- New structures will be approximately 155 feet tall
- Approximately 70 feet of clearing required on east side of right-of-way



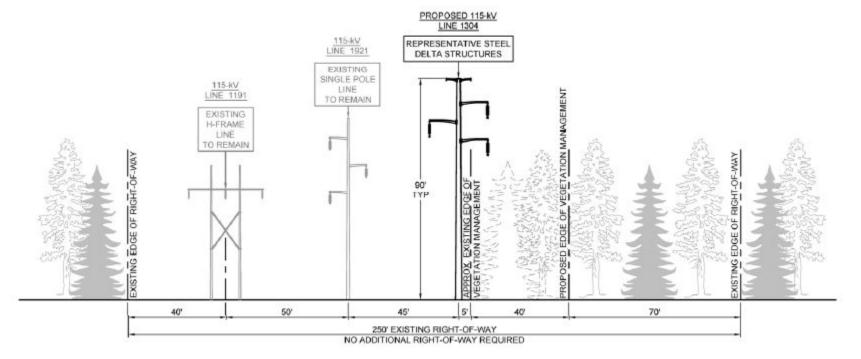
### What we propose to build in Harwinton (cont.)

### **Overhead Line Scope**

North Bank Naugatuck River – Campville Substation (approximately 1.3 miles in Harwinton)

**EVERS** URCE

- New 115-kV structures to be installed to the east of existing structures
- New structures will average 90 feet in height
- Approximately 40 feet clearing required to east of centerline of new structures
- Approximately 70 feet of tree buffer will remain to east of centerline of the new structure



Looking North

### What we propose to build in Harwinton (cont.)

### **Campville Substation Scope**

- The fence line will be expanded approximately 90 feet to the east on Eversource-owned property.
- Clear and grade as necessary to accommodate the substation expansion.
- Install new breakers and associated equipment and replace existing breakers.
- A new control enclosure will be constructed within the fence line to house new equipment.





### Siting Process Overview

## 



#### *First Step:* Eversource seeks stakeholder input as part of its Municipal Consultation Process

- Eversource submitted its Municipal Consultation Filing (MCF) to local municipal officials.
- As part of the MCF process, Eversource seeks municipal and public input. Written comments received are provided to the Connecticut Siting Council (CSC).
- Eversource hosted two Regional Open Houses to provide officials and residents the opportunity to learn more about the proposed project.

#### Second Step:

#### **Eversource files its siting application with the CSC**

- The CSC conducts a local public hearing as well as evidentiary hearings.
- The public, municipal officials and other interested stakeholders are given the opportunity to participate in the local public comment hearing.

#### Third Step:

#### The CSC Issues its Decision

 If approved, Eversource develops construction plans, called Development and Management Plans (D&M). The D&M process traditionally offers additional opportunity for public input.

### Next Steps - Timeline



	2 <sup>nd</sup> Q 2015	3 <sup>rd</sup> Q 2015	4 <sup>th</sup> Q 2015	1 <sup>st</sup> Q 2016	2 <sup>nd</sup> Q 2016	3 <sup>rd</sup> Q 2016	4 <sup>th</sup> Q 2016	2 <sup>nd</sup> Q 2017	3 <sup>rd</sup> Q 2017	4 <sup>th</sup> Q 2018
Discussions with Town	Completed									
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Application to CT Siting Council (CSC)										
CSC Review										
CSC Decision										
Development & Management (D&M) Plan**										
Construction**										
Project Outreach										

\*Subject to Change \*\*Pending Approval

Project In Service: 2018

8

### Stakeholder Outreach



- Key Stakeholders
  - Property Owners
  - Businesses
  - Local Officials
  - State Officials
- Communication Tactics
  - Briefings, Presentations
  - Emails
  - Door hangers
- General Public:
  - Transmission Hotline 1-800-793-2202
  - Email: TransmissionInfo@eversource.com





For municipal officials: Marcia Wellman Transmission Project Outreach 860.728.4547 marcia.wellman@eversource.com

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# Frost Bridge - Campville Project

## Meeting with Town of Harwinton April 8, 2015

### Agenda

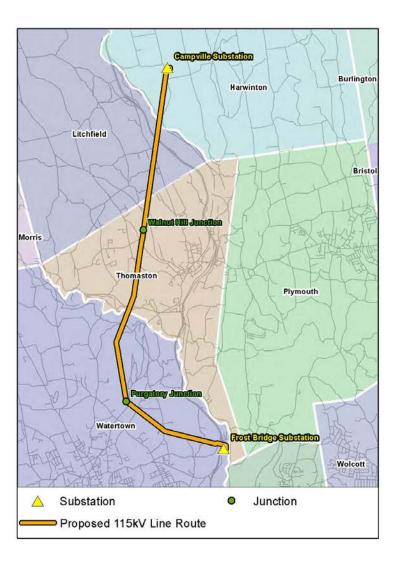


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- The Independent System Operator of New England's (ISO-NE) transmission planning studies show reliability criteria violations in the Northwest CT area.
- As currently configured, certain operating conditions will cause voltage and thermal violations on the transmission system.



The proposed solution includes:

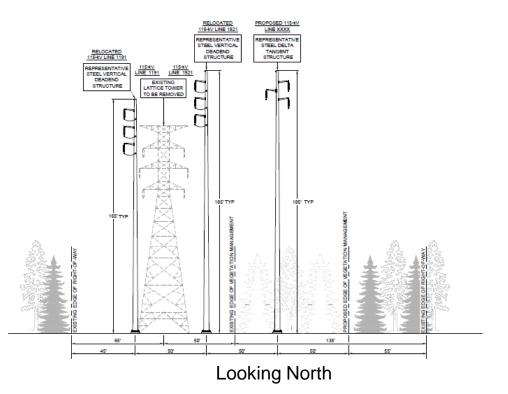
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- Replacing several existing towers outside Frost Bridge Substation with steel monopoles on existing Right-of-Way.
- Replacing the two existing towers that cross the Naugatuck River with steel monopoles on existing Right-of-Way.
- Installing new equipment at Frost Bridge Substation. Work does not require expanding the fence line.
- Installing new equipment at Campville Substation. Work requires an expansion of the current fence line, but it's on Eversource-owned property.

**EVERS** URCE

South Bank Naugatuck River – North Bank Naugatuck River (approx.1 miles in Harwinton)

- Existing lattice structures on either side of the Naugatuck River to be removed and replaced with three vertical monopoles
- New structures will be between 165-185 feet tall
- Approximately 80 feet of clearing required on east side of right-of-way

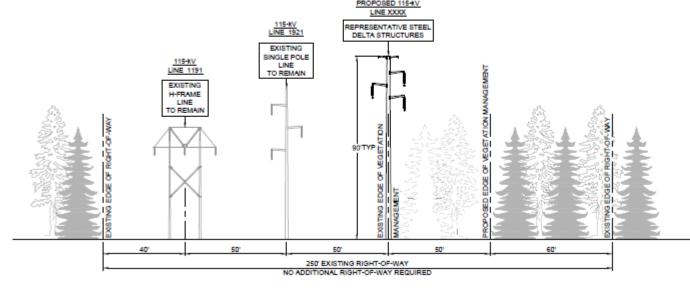


### What we propose to build in Harwinton (cont.)

### **Overhead Line Scope**

North Bank Naugatuck River – Campville Substation (approx. 1.2 miles in Harwinton)

- New 115-kV structures to be installed to the east of existing structures
- New structures will average 90 feet in height
- Approximately 50-55 feet clearing required to east of centerline of new structures
- Approximately 60 feet of tree buffer will remain to east of centerline of the new structure



**EVERS** URCE

Looking North

### What we propose to build in Harwinton (cont.)

### **Campville Substation Scope**

- The fence line will be expanded by approximately 70 feet to the east on Eversource-owned property.
- Install new breakers and associated equipment and replace existing breakers.
- A new control enclosure will be constructed within the fence line to house new equipment.



### Siting Process Overview





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#### Second Step:

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- The CSC conducts a local public hearing as well as evidentiary hearings.
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#### Third Step:

#### The CSC Issues its Decision

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### Stakeholder Outreach



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# Frost Bridge - Campville Project

## Meeting with Town of Litchfield April 9, 2015

### Agenda

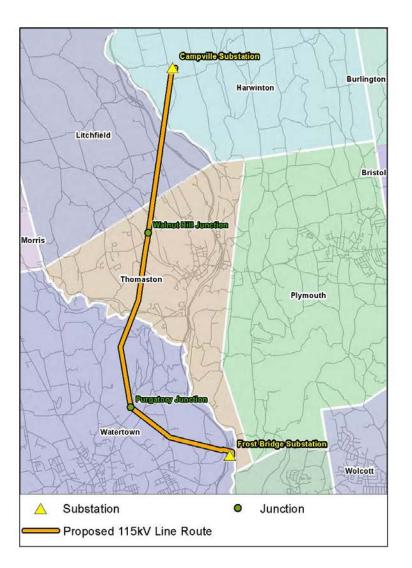


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The proposed solution includes:

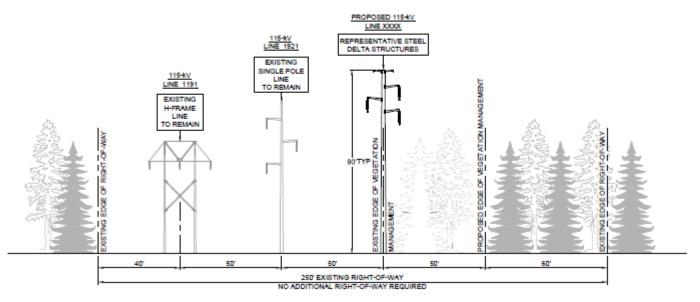
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- Replacing the two existing towers that cross the Naugatuck River with steel monopoles on existing Right-of-Way.
- Installing new equipment at Frost Bridge Substation. Work does not require expanding the fence line.
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### **Overhead Line Scope – 1.8 miles of Project route is in Litchfield**

Walnut Hill Junction – South Bank Naugatuck River (approx. 1.3 miles in Litchfield)

- New 115-kV structures to be installed to the east of existing structures
- New structures will average 90 feet in height
- Approximately 50-55 feet clearing required to east of centerline of new structure
- Approximately 60 feet tree buffer will remain to east of centerline of new structure



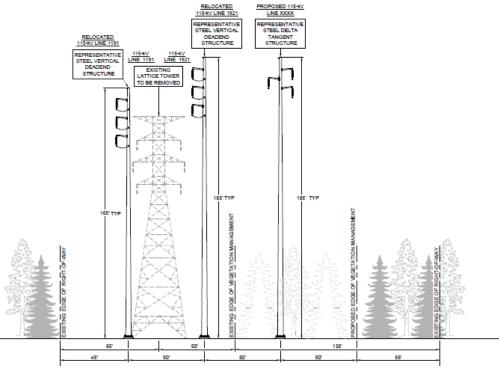
### What we propose to build in Litchfield



### **Overhead Line Scope**

South Bank Naugatuck River – North Bank Naugatuck River (approx.4 miles)

- Existing lattice structure to be removed and replaced with three vertical monopoles
- New structures will be between 165-185 feet tall
- Approximately 80 feet clearing required on east side of right-of-way



### Siting Process Overview





#### *First Step:* Eversource seeks stakeholder input as part of its Municipal Consultation Process

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### Stakeholder Outreach



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# Frost Bridge - Campville Project

Town of Litchfield – Board of Selectman Briefing May 19, 2015

### Agenda

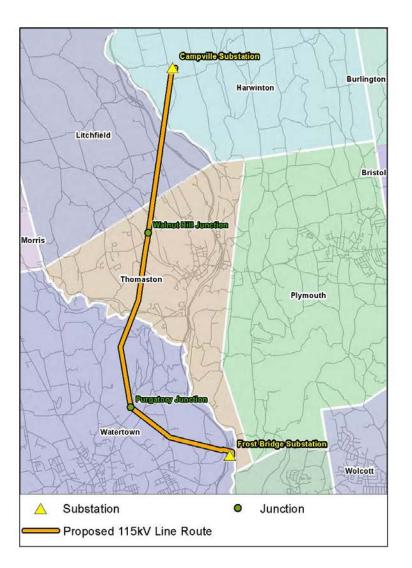


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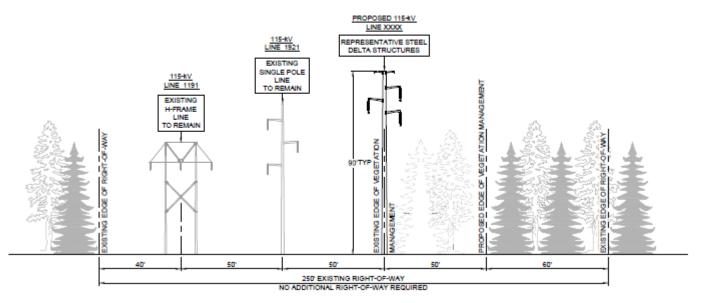
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# **Overhead Line Scope – 1.8 miles of Project route is in Litchfield**

Walnut Hill Junction (Thomaston) – South Bank Naugatuck River (approx. 1.3 miles in Litchfield)

- New 115-kV structures to be installed to the east of existing structures
- New structures will average 90 feet in height
- Approximately 50-55 feet clearing required to east of centerline of new structure
- Approximately 60 feet tree buffer will remain to east of centerline of new structure



Looking North

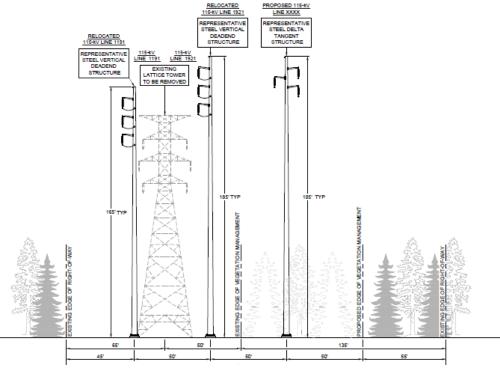
# What we propose to build in Litchfield



## **Overhead Line Scope**

South Bank Naugatuck River (Litchfield) – North Bank Naugatuck River (Harwinton) (approx.4 miles)

- Existing lattice structure to be removed and replaced with three vertical monopoles
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Looking North

# Siting Process Overview





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## Third Step:

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# Stakeholder Outreach



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# Frost Bridge – Campville 115-kV Transmission Project

Meeting with Town of Thomaston Board of Selectmen October 6, 2015

# Agenda



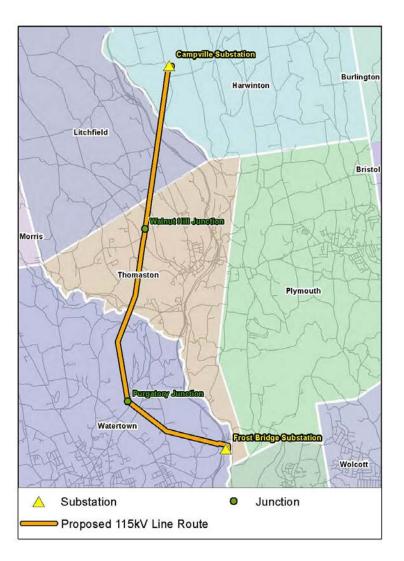
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- The Independent System Operator of New England's (ISO-NE) transmission planning studies show reliability criteria problems in the Northwest CT area.
- As currently configured, certain operating conditions will cause voltage and thermal problems on the transmission system.

# Frost Bridge -Campville Overall Project Scope



The proposed solution includes:

- Building a new 10.4 mile 115-kV line between Frost Bridge and Campville Substation on existing Right-of-Way.
- Replacing an existing tower outside Frost Bridge Substation with a steel monopole on existing Right-of-Way.

**EVERS** URCE

- Replacing the two existing towers that cross the Naugatuck River with steel monopoles on existing Right-of-Way.
- Installing new equipment at Frost Bridge Substation. Work does not require expanding the fence line.
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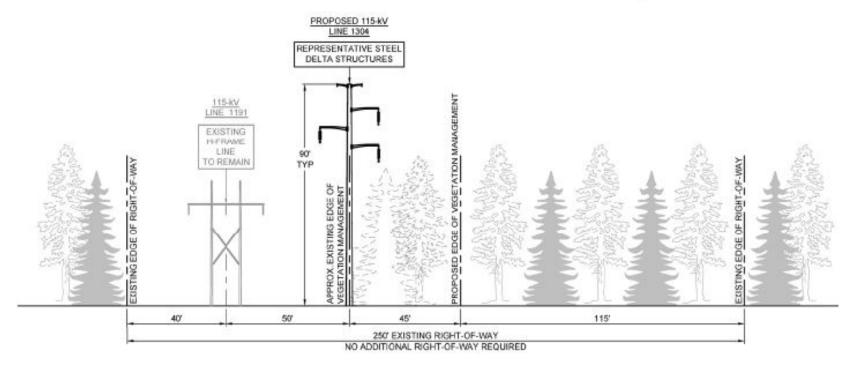
# What we propose to build in Thomaston

## **Overhead Line Scope – 2.6 miles of Project Route is in Thomaston**

**EVERS** URCE

Purgatory Junction – Walnut Hill Junction (approx. 1.7 miles in Thomaston)

- New 115-kV structures to be installed to the east of existing structures
- New structures will average 90 feet in height
- Approximately 45 feet clearing required to east of centerline of new structure
- Approximately 115 feet of tree buffer will remain to east of centerline of the new structure



## Looking North

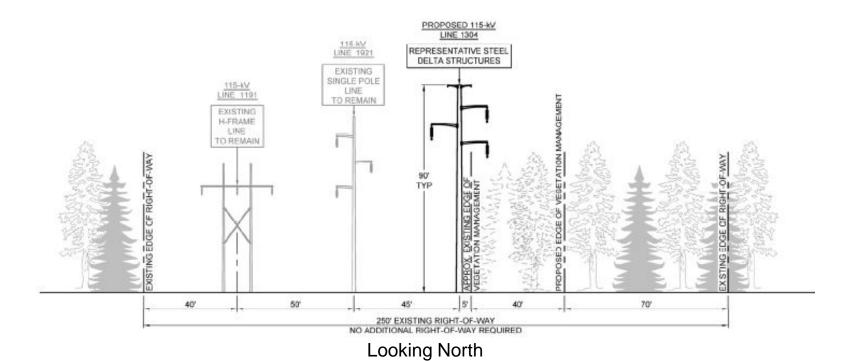
# What we propose to build in Thomaston (cont.)

## **Overhead Line Scope**

Walnut Hill Junction – South Bank Naugatuck River (approximately 0.9 miles in Thomaston)

**EVERS** URCE

- New 115-kV structures to the east of existing structures
- New structures will average 90 feet in height
- Approximately 40 feet new clearing required to east of centerline of new structure
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# Siting Process Overview

# 



## *First Step:* Eversource seeks stakeholder input as part of its Municipal Consultation Process

- Eversource submitted its Municipal Consultation Filing (MCF) to local municipal officials.
- As part of the MCF process, Eversource seeks municipal and public input. Written comments received are provided to the Connecticut Siting Council (CSC).
- Eversource hosted two Regional Open Houses to provide officials and residents the opportunity to learn more about the proposed project.

## Second Step:

### **Eversource files its siting application with the CSC**

- The CSC conducts a local public hearing as well as evidentiary hearings.
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## Third Step:

#### The CSC Issues its Decision

 If approved, Eversource develops construction plans, called Development and Management Plans (D&M). The D&M process traditionally offers additional opportunity for public input.

# Next Steps - Timeline



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Project Outreach										

\*Subject to Change \*\*Pending Approval

Project In Service: 2018

# Stakeholder Outreach



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# Frost Bridge - Campville Project

# Meeting with Town of Thomaston April 8, 2015

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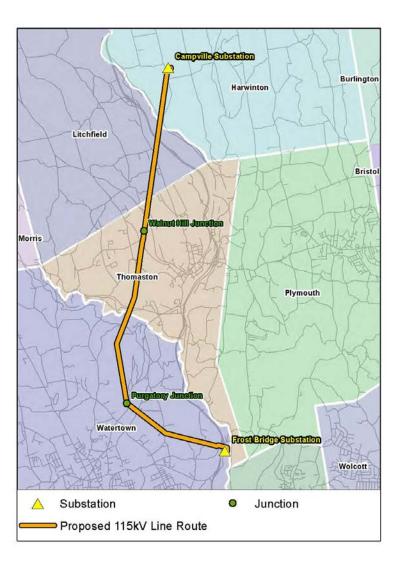


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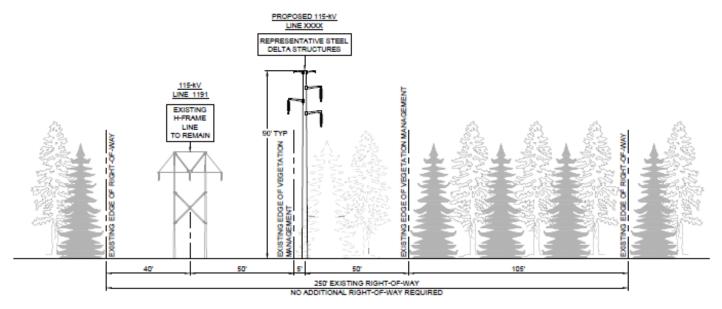
**EVERS** URCE

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## **Overhead Line Scope – 2.6 miles of Project Route is in Thomaston**

Purgatory Junction – Walnut Hill Junction (approx. 1.7 miles in Thomaston)

- New 115-kV structures to be installed to east existing structures
- New structures will average 90 feet in height
- Approximately 55 feet clearing required to east of centerline of new structure
- Approximately 105 feet of tree buffer will remain to east of centerline of the new structure



Looking North

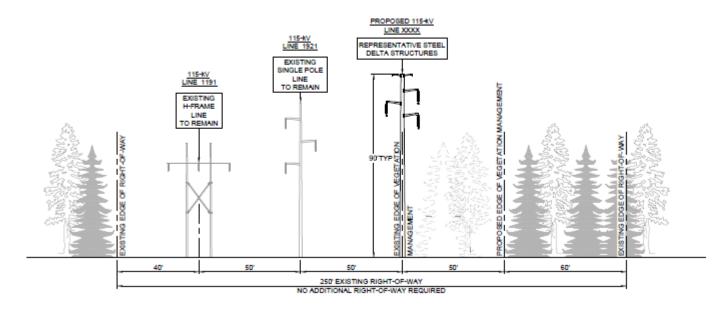
## **Overhead Line Scope**

Walnut Hill Junction – South Bank Naugatuck River (approx .9 miles in Thomaston)

- New 115-kV structures to east of existing structures
- New structures will average 90 feet in height
- Approximately 50-55 feet new clearing required to east of centerline of new structure

**EVERS** URCE

Approximately 60 feet of tree buffer will remain to east of centerline of new structure



Looking North

# Siting Process Overview





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# Frost Bridge to Campville Project

# Meeting with Town of Watertown April 7, 2015

# Agenda

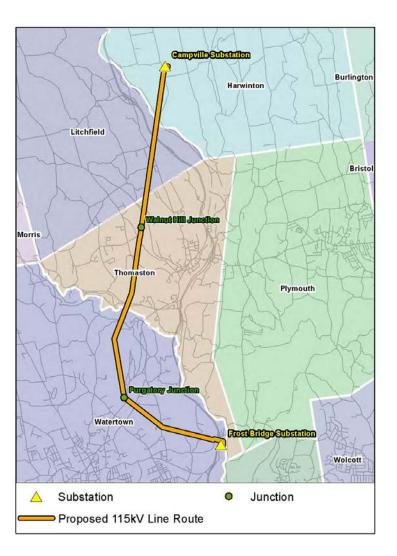


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- Stakeholder Outreach
- Contact Information





- The Independent System Operator of New England's (ISO-NE) transmission planning studies show reliability criteria violations in the Northwest CT area.
- As currently configured, certain operating conditions will cause voltage and thermal violations on the transmission system.



The proposed solution includes:

 Building a new 10.4 mile 115-kV line between the Frost Bridge Substation (Watertown) and the Campville Substation (Harwinton) on existing right-of-way.

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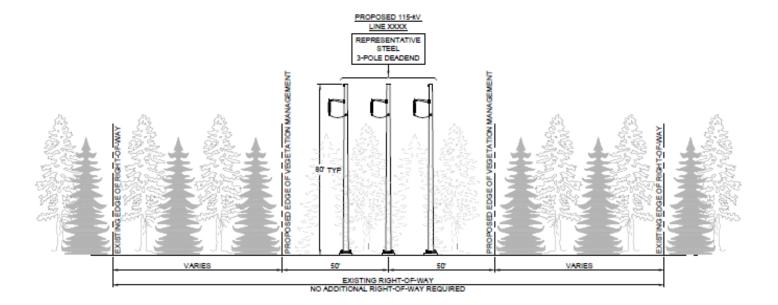
- Replacing several existing structures outside Frost Bridge Substation with steel monopoles
- Replacing the two existing structures that cross the Naugatuck River with steel monopoles
- Installing new equipment at Frost Bridge Substation. Work does not require expanding the fence line.
- Installing new equipment at Campville Substation. Work requires an expansion of the current fence line, but it's on Eversource-owned property.

## **Overhead Line Scope- 4.8 miles of the Project route is in Watertown**

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## Frost Bridge Substation – 0.4 miles out of substation

- Install three monopoles, approx. 80ft tall outside Frost Bridge Substation on fee-owned property.
- Approximately 100ft clearing required on Eversource property.



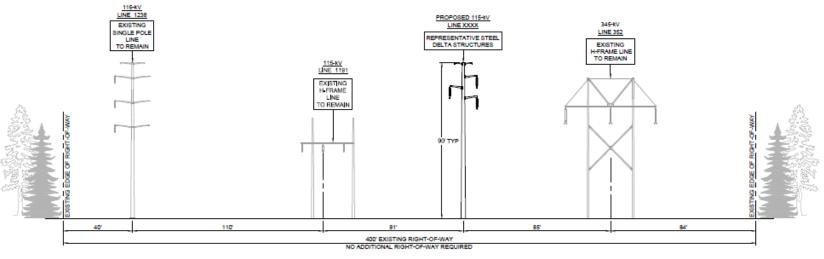
Looking North, East & West

## **Overhead Line Scope**

Frost Bridge Substation – Purgatory Junction (Thomaston Road – route 6 & 282) (2.2 miles)

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- New structures to be installed between two existing lines of structures
- New structures will average 90 feet in height
- Minimal clearing required



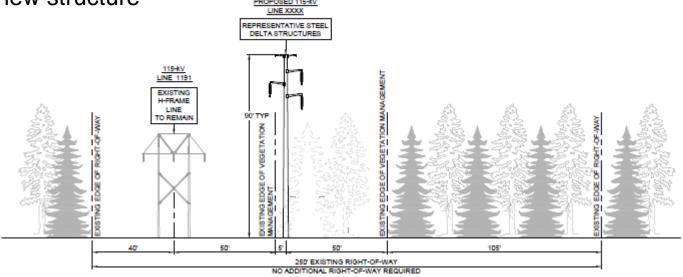
Looking Northwest

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# **Overhead Line Scope**

Purgatory Junction – Thomaston border (2.1 miles)

- Structures to be installed to the east of existing structures
- New structures will average 90 feet in height
- Approximately 55 feet clearing required to east of centerline of new structure
- Approximately 105 feet of tree buffer will remain to east of the new structure



# What we propose to build in Watertown (cont.)

# **Frost Bridge Substation Scope**

- Installing one 115 kV breaker and associated equipment within the existing fence line.
- No expansion of fence line required
- Transmission line modifications coming out of Substation



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# Siting Process Overview





## *First Step:* Eversource seeks stakeholder input as part of its Municipal Consultation Process

- Eversource submits its Municipal Consultation Filing (MCF) to local municipal officials.
- As part of the MCF process, Eversource seeks municipal and public input. Written comments received are provided to the Connecticut Siting Council (CSC).
- Eversource will host an Open House to provide officials and residents the opportunity to learn more about the proposed project.

## Second Step:

## **Eversource files its siting application with the CSC**

- The CSC conducts a local public hearing as well as evidentiary hearings.
- The public, municipal officials and other interested stakeholders are given the opportunity to participate in the local public comment hearing.

## Third Step:

#### The CSC Issues its Decision

 If approved, Eversource develops construction plans, called Development and Management Plans (D&M). The D&M process traditionally offers additional opportunity for public input.



	2 <sup>nd</sup> Q 2015	3 <sup>rd</sup> Q 2015	4 <sup>th</sup> Q 2015	1 <sup>st</sup> Q 2016	2 <sup>nd</sup> Q 2016	3 <sup>rd</sup> Q 2016	4 <sup>th</sup> Q 2016	1st Q 2017	3 <sup>rd</sup> Q 2017	4 <sup>th</sup> Q 2018
Discussions with Town										
Municipal Consultation Filing										
Application to CT Siting Council (CSC)										
CSC Review										
CSC Decision										
Development & Management (D&M) Plan										
Construction										
Project Outreach										

# Stakeholder Outreach



- Key Stakeholders
  - Property Owners
  - Businesses
  - Local Officials
  - State Officials
- Communication Tactics
  - Briefings, Presentations
  - Emails
  - Door hangers
- General Public:
  - Transmission Hotline 1-800-793-2202
  - Email: TransmissionInfo@eversource.com





For municipal officials: Marcia Wellman Transmission Project Outreach 860.728.4547 marcia.wellman@eversource.com

For the public: Transmission Hotline 1-800-793-2202 Email: TransmissionInfo@eversource.com