

May 28, 2021

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

Re: Mystic Substation Upgrade

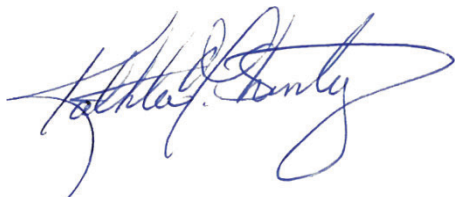
Dear Attorney Bachman,

The Connecticut Light and Power Company doing business as Eversource Energy (“Eversource”) requesting a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modifications to the Mystic Substation located at 148 Greenmanville Avenue in the Town of Stonington, Connecticut (“Petition”).

Prior to submitting this Petition, Eversource briefed Stonington officials about the proposed work and the filing of this Petition with the Connecticut Siting Council (“Council”). A list identifying the abutting property owners who were notified of the Mystic Substation Upgrade is provided in Attachment A: Mystic Substation, Arrangement Plan.

Per Council’s instructions in response to COVID-19, Eversource is submitting this filing electronically and will be providing one hard copy for the Council’s records. Eversource further understands that the Council will invoice the Company for the requisite \$625 filing fee.

Sincerely,



Kathleen M. Shanley  
Manager – Transmission Siting

Enclosure

cc: Danielle Cheeseborough, Stonington First Selectman



**THE CONNECTICUT LIGHT AND POWER COMPANY**

**doing business as**

**EVERSOURCE ENERGY**

PETITION TO THE CONNECTICUT SITING COUNCIL  
FOR A DECLARATORY RULING OF  
NO SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT  
FOR THE PROPOSED MODIFICATIONS TO EXISTING  
SUBSTATION IN THE TOWN OF STONINGTON, CONNECTICUT

1. The Connecticut Light and Power Company doing business as Eversource Energy (“Eversource”) hereby petitions the Connecticut Siting Council (“Council”) for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required pursuant to Section 16-50g et seq. of the Connecticut General Statutes for the modifications to the Mystic Substation (the “Project”) that are described herein. Eversource submits that no such Certificate is required because the proposed modifications would not have a substantial adverse environmental effect.

**2. Purpose of the Project**

The purpose of the Project is to improve system reliability and eliminate low and high voltage criteria violations with the addition of a series reactor with a bypass switch on the 1465 Line at Mystic Substation (“Substation”), as well as related modifications. This Project is part of a larger suite of projects that, together, will alleviate current Eastern Connecticut voltage violations in the Mystic to Kent County (Rhode Island) corridor that were identified by the Independent System Operator of New England (“ISO-NE”) in its 2027 Eastern Connecticut Reliability Needs Assessment. The proposed modifications at the Substation will mitigate the identified contingencies and improve reliability in the Eastern Connecticut area.

### 3. Project Description

The Project consists of modifications to the Substation located on Eversource's property at 148 Greenmanville Avenue in Stonington, Connecticut. The existing Substation is a facility with 115-kV, 34.5-kV, and 13.8-kV equipment. There are two 115-kV transmission lines terminated at the Substation, two 115- to 34.5 kV transformers, two 115- to 13.8-kV transformers, nine (9) 13.8-kV and one (1) 34.5-kV distribution circuits located at the Substation. A portion of the existing fence on southeast side of the Substation would be extended to accommodate the new equipment. An approximately 80-foot long section of the substation fence would be extended approximately 45-feet east on Eversource's property from the existing fence location. The extended fence section would be consistent with the existing fencing at seven feet high, with one and a quarter inch mesh and one foot of three-strand barbed wire. The total area of expansion would be approximately 3,600 square feet. Grading and drainage would be required for the new expansion area. The proposed modifications to the Substation are shown on Attachment A - Mystic Substation General Arrangement Plan and on Attachment B - Mystic Substation Aerial Map.

Detail of the proposed scope of work is as follows:

- a) Installation of three (3) new single phase 1% series reactors on the 1465 Line;
- b) Install one (1) new substation terminal structure;<sup>1</sup>
- c) Install one (1) new 115-kV 3000A three-phase circuit switcher for reactor bypass purposes;
- d) Install three (3) new single-phase 115-kV, 70-maximum continuous operating voltage rated lightning arrestors;
- e) Install approximately 600 feet of 1590 ACSR strain bus conductor;
- f) Install one (1) new three single-phase ganged operated 115-kV 3000A motor-operated disconnect switch with grounding switches;
- g) Install one (1) new 115-kV, 3000A three-phase manually operated disconnect switch;
- h) Remove all existing Power Line Carrier equipment such as CCVT, Line Tuning Unit, and Wave Trap;

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<sup>1</sup> The existing terminal structure for the 1465 Line will remain to connect the bus to the new terminal structure.

- i) Install necessary fiber connections from 1465 Line terminal to Relay Control Enclosure;
- j) Update relay settings for primary and backup relays;
- k) Extend the southeastern fence line near the 1465 Line to facilitate the proposed series reactor installation.
- l) Install underground conduits and cable, to accommodate the new equipment;
- m) Install required lighting for new or modified equipment within the expansion area;
- n) Repair ground grid within areas where the ground grid is to be disturbed, and extend the ground grid expansion area to match the existing grid spacing;
- o) Replace existing battery bank and its charger in the RC&E to accommodate the new loads from the reactor project installation; and
- p) Install hydrogen detection and battery monitor system for the new battery bank.

#### **4. Construction Methods**

The Project would be constructed, operated and maintained in accordance with established industry practices and in accordance with the Eversource *Best Management Practices Manual for Massachusetts and Connecticut, Construction and Maintenance*, September 2016 (“BMP’s”). Construction-related vehicular traffic would utilize the existing Substation access road from Greenmanville Avenue. This traffic is expected to be temporary and highly localized in the vicinity of the Substation.

Construction activities would include the following:

##### Staging

Equipment, materials and construction vehicles will be staged on-site, inside the Substation. The staging area will also be used for parking of worker vehicles.

##### Clearing

While the majority of the Project would be located within the Substation, the addition of the expansion area will require removal of brush under the existing transmission lines entering the Substation, and one tree at the north of the expansion area.

### Equipment Assembly/Installation/Removal

The equipment, components and hardware would be delivered to the Substation using flat-bed and light duty utility trucks; these items would be either pre-assembled or assembled on-site prior to installation. After installation, the area around the installed equipment would be backfilled and graded with crushed stone.

### Construction Schedule

Eversource proposes to begin construction in September 2021 and complete construction and restoration by June of 2022. Normal works hours would be Monday through Saturday from 7:00 AM to 7:00 PM. Sunday work hours or evening work hours past 7:00 PM may be necessary due to delays caused by inclement weather and/or outage constraints. In the event this is necessary, the Council, Town and abutters will be provided notice of the proposed Sunday and/or evening work hours.

## **5. Existing Environment, Environmental Effects and Mitigation**

The Project would not have a substantial adverse environmental effect or cause a significant adverse change or alteration in the physical or environmental characteristics because:

a) Radio and Television Interference

There will be no change to the existing television or radio interference at the Substation.

b) Sound Pressure

Sound-pressure levels at all points along properties lines will continue to meet state regulations set out in Regulations of Connecticut State Agencies §§ 22a-69-1 et seq.

c) Substations Appearance

At 68 feet, the new terminal structure will be seven feet taller than the tallest existing structure on Eversource's property. However, the new equipment to be installed would not cause any significant adverse change in the physical or environmental characteristics of the Substation.

d) Substation Security Measures and Lighting

The Substation has existing security measures including security cameras, an alarm system and lighting for safety and security purposes. Additional security lighting will be added to the new terminal structure.

e) Environmental Effects

- Eversource's review of the Connecticut Department of Energy and Environmental Protection's ("CT DEEP") Natural Diversity Data Base did not identify any state-listed endangered, threatened, or special concern species within the Project area.
- Eversource does not anticipate the need to disturb or clear any wetland vegetation. The proposed modifications are not located within a 500- or 100-year flood zone.
- A Phase 1A Cultural (archaeological and historical) Resources Assessment of previously recorded cultural resources on file with the Connecticut State Historical Preservation Office ("SHPO") was completed by Heritage Consultants, LLC ("Heritage") during April 2021.

May 6, 2021 Heritage determined that the area of impact east of the existing substation can be considered a moderate to low sensitivity for intact cultural deposits. Heritage recommended a follow up pedestrian survey of this area, which later determined that the Mystic Substation expansion area can be re-classified as no-low sensitivity for cultural resources, based on obvious signs of previous ground disturbances. No additional archeological examination of the proposed expansion is recommended prior to construction.

- The Project would not affect groundwater or surface water resources or cross any aquifer protection areas. Based on Aquifer Protection Areas ("APA") mapping maintained by CT DEEP, there are no APAs within or proximate to the Project area. The Project area is not located within a public water supply watershed and no public supply reservoirs or public water

supply wells are located within the Project area. No private water supply wells were observed within the Project area during field investigation activities.

Eversource would require its contractors to employ best practices for the proper storage, secondary containment, and handling of diesel fuel, motor oil, grease and other lubricants, to protect water quality within the Project area. Construction activities would conform to Eversource's BMPs, as well as to the requirements of Project-specific plans, which would be prepared prior to the commencement of construction.

- Project construction would conform to best management practices for erosion and sedimentation ("E&S") control, including those provided in the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control ("Connecticut Guidelines") and Eversource's BMPs.
- Typical E&S control measures include, but are not limited to, straw blankets, hay bales, compost filter socks, silt fencing and gravel anti-tracking pads. Silt fence would be installed prior to construction to intercept and retain sediment and/or construction materials from disturbed areas and prevent such materials from discharging to water resources. Temporary E&S control measures would be maintained and inspected throughout the Project to ensure their integrity and effectiveness and for compliance with the Connecticut Guidelines and Eversource's BMPs. Following completion of construction, seeding and mulching or finished surface treatments would be completed to permanently stabilize the areas disturbed by the work outside the modified Substation fence. The temporary E&S control measures would



remain in place until the Project work is complete and all disturbed areas have been stabilized.

- No publicly accessible scenic or recreational resources were identified within the Project area.
- Electric and magnetic field levels at the boundary of the Substation will not change as a result of the modifications.

## **6. Municipal and Property Owner Outreach**

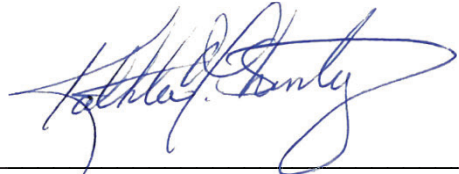
In May 2021, Eversource consulted with the municipal officials in the Town of Stonington to brief them on the proposed Project. Eversource also provided representatives of the Town of Stonington with written notice of the Petition filing. In conjunction with the submission of the Petition, all abutting property owners were notified of the filing and provided information on how to submit comments to the Council and how to obtain additional information on the Project. In addition, Eversource representatives will contact adjacent property owners via mail to notify them of the start of construction activities. Project representatives will also be available throughout the construction process to address any specific questions or concerns regarding Project or restoration activities.

## **7. Conclusion**

Section 16-50k(a) of the Connecticut General Statutes provides that a Certificate of Environmental Compatibility and Public Need is needed for proposed modifications of a facility that the Council determines would have a “substantial adverse environmental effect.” Eversource respectfully submits that the proposed modifications would not result in a substantial adverse effect on the environment or ecology, nor would they damage existing scenic, historical or recreational values. Accordingly, Eversource requests that the Council issue a declaratory ruling that the proposed modifications would have no substantial adverse environmental effect and, therefore, no Certificate is required.

8. Communications regarding this Petition for a Declaratory Ruling should be directed to:

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

By:   
Kathleen M. Shanley  
Manager – Transmission Siting

**List of Attachments**

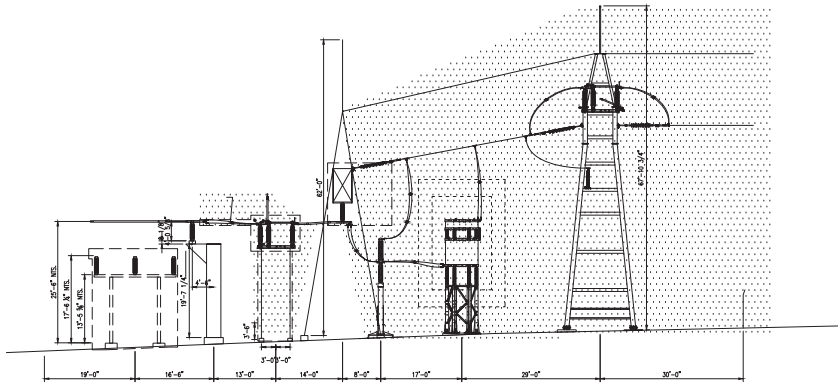
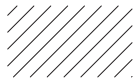
- Attachment A: Mystic Substation, General Arrangement Plan — Connecticut Siting Council.
- Attachment B: Mystic Substation, Petition Map
- Attachment C: Letter to the Abutters and Affidavit
- Attachment D: Abutters List

**Attachment A: Mystic Substation,  
General Arrangement Plan**

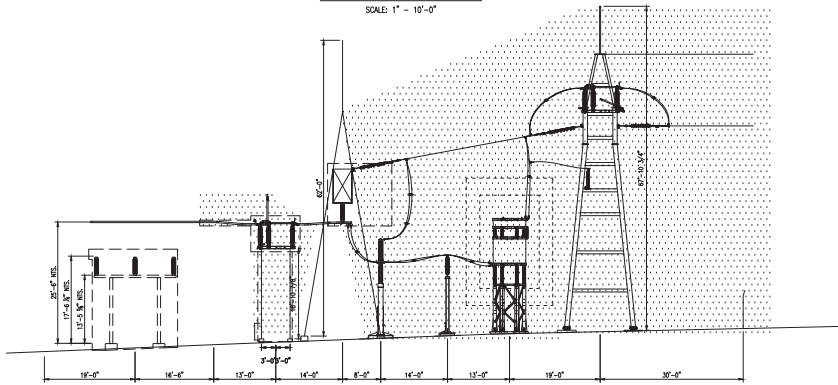
REV. AF ADDITIONS



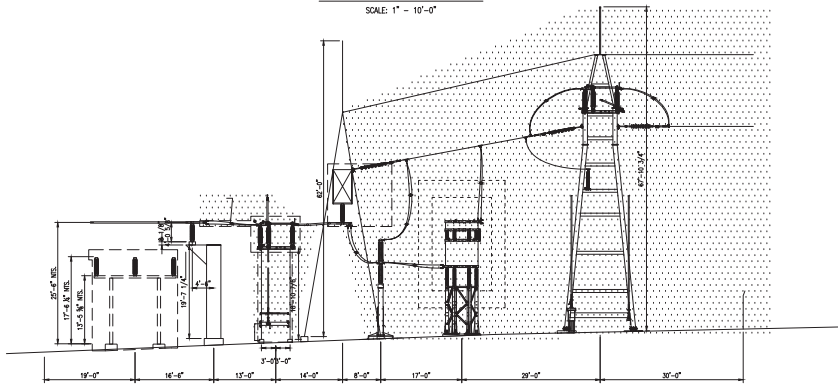
REV. AF REMOVALS



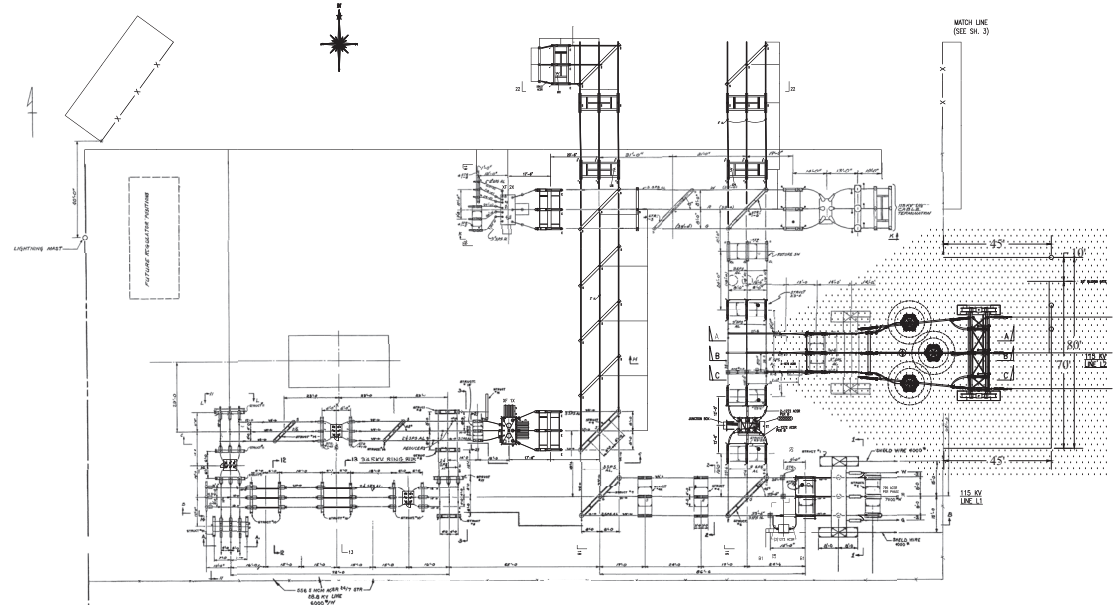
SECTION A-A ADDITIONS  
SCALE: 1" = 10'-0"



SECTION B-B ADDITIONS  
SCALE: 1" = 10'-0"

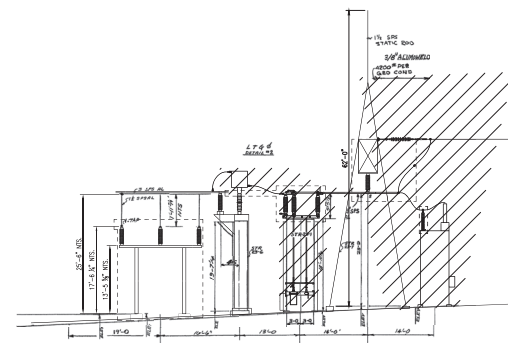


SECTION C-C ADDITIONS  
SCALE: 1" = 10'-0"

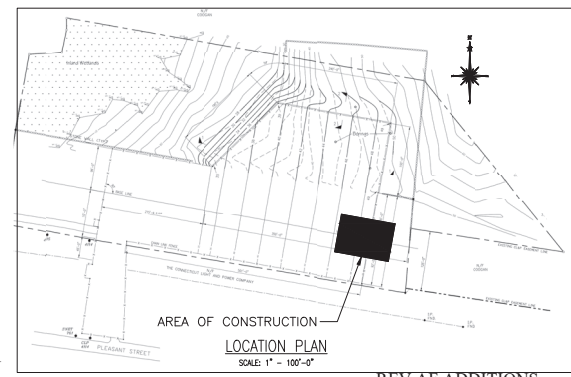


PLAN VIEW ADDITIONS  
SCALE: 1" = 20'-0"

MATCH LINE (SEE SH 2)



SECTION C-C REMOVALS  
SCALE: 1" = 10'-0"



AREA OF CONSTRUCTION  
LOCATION PLAN  
SCALE: 1" = 100'-0"

REV. AF ADDITIONS

REVISIONS DURING CONSTRUCTION									
NO.	DATE	BY	CHKD.	APP. / PCE.	NO.	DATE	BY	CHKD.	APP. / PCE.
01	03/21/21	TEL		REVISION FOR LINE 12 TO 14 (4000/100) PCE	ESP				

<b>EVERSOURCE ENERGY</b>					
MYSTIC 13K GENERAL ARRANGEMENT - PLAN & SECTIONS CONNECTICUT SITING COUNCIL STONINGTON, CT					
ESP / PCE	MD / PCE	MF / PCE	CM / PCE		
03/20/21	3/20/21	3/20/21	03/20/21		
DATE	DATE	DATE	DATE		
NAME	NAME	NAME	NAME		
N.S.L.	C				
N.S.L.	C				
NO.	DATE	AS BUILT REVISIONS	BY	CHKD.	APP. / PCE.
					23701-92002

3/21/2021 11:12 AM - 03/20/21 - W:\Projects\03\_Eversource\Connecticut\Connecticut\_CIT\03\_21042021 - Stoneham\03\_21042021 - 03/20/21.dwg - REV. AF ADDITIONS

**Attachment B: Mystic Substation,  
Petition Map**

# 2021 - Mystic Substation Expansion

Stonington, CT

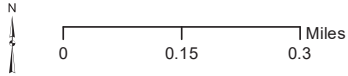
FINAL Map Set

Date: May 13, 2021



**Legend**

SUB Substation     Map Sheet



**INDEX OF FIGURES**  
 Title Sheet / Index Map  
 Abutter Tables & Map Sheets 1

NO.	DATE	REVISIONS

PREPARED FOR:



107 Selden Street  
 Berlin, CT 06037

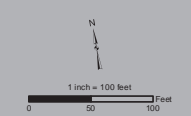
PREPARED BY:



33 Waldo Street  
 Worcester, MA 01608



Legend	
	Proposed Fence for Substation Expansion
	Area of Substation Equipment Upgrades
	Limit of Disturbance for Substation Equipment
	Existing Structure
	Overhead Eversource Line
	Delineated Hydrologic Connection
	Delineated Stream Centerline
	Estimated Stream Centerline
	Delineated Wetland Boundary
	Delineated Wetland
	FEMA 100yr Floodplain
	Natural Diversity Database Area (January 2021) *No Data Present in Map Area
	Existing Right-of-Way
	Eversource Owned Parcel
	Line List Parcel
	Line List Label
	Stone Wall
	Existing Fence
	Access Gate
	2ft Contour Line
	10ft Contour Line



NO.	DATE	REVISIONS

**EVERSOURCE**

**Mystic Substation Expansion**

Stonington, CT      MAP SHEET 1 of 1

Date: May, 2021

THIS MAPPING PRODUCT HAS BEEN CREATED TO COMPLY WITH SUBMITTAL REQUIREMENTS TO OBTAIN CERTAIN REGULATORY APPROVALS AND, AS SUCH, THERE IS NO RELIANCE ON THE INFORMATION CONTAINED HEREIN FOR ANY OTHER PURPOSE.





## **Attachment C: Letter to Abutters and Affidavit**

May 28, 2021

Dear Neighbor,

At Eversource, we're always working to serve you better. We are submitting a petition to the Connecticut Siting Council (CSC) for a proposed substation upgrade project in your area.

### Proposed Project Information

The upgrade, called the Mystic Substation Upgrade Project ("Project"), is necessary to support the continued reliability of the transmission system. The Project work would be located entirely on Eversource Substation property. The proposed modifications include:

- Addition of a series reactor and associated equipment.
- Expansion of the existing substation fence on the southeast side of the substation to accommodate the new equipment. An approximately 80-foot section of the fence would be extended approximately 45 feet west on substation property.
- Installation of a new terminal structure.
- Installation of lightning protection.
- Brush and tree removal as needed for this project.

### What You Can Expect

Pending receipt of the necessary approvals for this proposed work, construction is expected to begin in the third quarter of 2021. We anticipate to complete construction, including restoration of affected areas, by the end of 2022.

The safety of our employees, our customers, and the public is our top priority during the ongoing coronavirus public health crisis. Our commitment to safety, first and always, is continuous.

At the same time, Eversource must fulfill its foundational mission to deliver safe, reliable services to our customers. We continue to call on our employees and contractors to perform essential work, such as this proposed project, that maintains and improves the reliability of our networks, while also adapting our work practices to incorporate social distancing, heightened hygiene, and other best practices to protect their, and the public's, health.

### Contact Information

Eversource is committed to being a good neighbor and doing our work with respect for you and your property. For more information please call our projects hotline at 1-800-793-2202 or send an email to [ProjectInfo@eversource.com](mailto:ProjectInfo@eversource.com).

If you would like to send comments regarding Eversource's petition to the CSC, please send them via email to [siting.council@ct.gov](mailto:siting.council@ct.gov) or send a letter to the following address: Melanie Bachman, Executive Director, Connecticut Siting Council, Ten Franklin Square, New Britain, CT 06051.

Sincerely,  
*Ken Roberts*

Ken Roberts  
Eversource Project Manager - Transmission

# COVID-19 Safety Information

## Meeting Customer Needs During this Critical Time

### Safety First and Always

The safety of our employees, our customers and the public is our top priority during the ongoing coronavirus public health crisis. Our commitment to safety, first and always, is continuous.

### Providing Reliable Service to Customers

Eversource is committed to delivering safe, reliable service to our customers. This commitment has taken on even more importance during these unsettled times. We continue to call on our employees and contractors to perform essential work in the field that maintains and improves the reliability of our networks and serves customers' best interests, while also adapting our work practices to incorporate social distancing, proper protective equipment, heightened hygiene, and other best practices to protect their, and the public's, health and avoid the spread of coronavirus.

### Safely Performing Our Work

Essential work is activity that maintains or improves the condition of our system and supports our delivery of safe and reliable energy and other services, including the replacement or installation of electrical lines, structures/poles, and related equipment.

In addition to relying on alternate communications channels to keep customers safe and informed (letters, emails and phone calls), we will resume our use of door hangers as a part of our outreach efforts. Eversource representatives will leave these notifications that include information on our work in rights-of-way and who to contact with any questions — without knocking on doors. Eversource representatives will continue to abide by all COVID-19 safety guidelines, which include wearing personal protective equipment, following social distancing, enhanced sanitizing requirements and other federal and state health and safety guidelines.

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### Questions and More Information

For any questions regarding essential work in your area, please call **1-800-793-2202** or email us at ***ProjectInfo@eversource.com***.

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## **Attachment D: Abutters List**

<u>Owner Full Name</u>	<u>OR CURRENT RESIDENT</u>	<u>Mailing Address</u>	<u>Mailing Town</u>	<u>Mailing State</u>	<u>Mailing Zip</u>
DENISON PEQUOTSEPOS NATURE CENTER INC	OR CURRENT RESIDENT	109 PEQUOTSEPOS RD PO BOX 122	MYSTIC	CT	06355
ROBERT J BOEST	OR CURRENT RESIDENT	19 PLEASANT ST	MYSTIC	CT	06355
THEODORE T TYLASKA III	OR CURRENT RESIDENT	PO BOX 107	OLD MYSTIC	CT	06372
ROY J AND BARBARA A WILSON	OR CURRENT RESIDENT	23 PLEASANT ST	MYSTIC	CT	06355
REBECCA GRILLS	OR CURRENT RESIDENT	3 PLEASANT ST	MYSTIC	CT	06355
J PATRICK BURNS	OR CURRENT RESIDENT	5 PLEASANT ST	MYSTIC	CT	06355
SANDRA A DEVEAU	OR CURRENT RESIDENT	33 LIBRARY ST	MYSTIC	CT	06355
RAYMOND & RUTH MELANCON TRUSTEES	OR CURRENT RESIDENT	11 PLEASANT ST	MYSTIC	CT	06355
LAUREN C MIDDLETON	OR CURRENT RESIDENT	13 PLEASANT ST	MYSTIC	CT	06355
MARGUERITE A PHILPOT	OR CURRENT RESIDENT	15 PLEASANT ST	MYSTIC	CT	06355
SANDRA A DEVEAU	OR CURRENT RESIDENT	33 LIBRARY ST	MYSTIC	CT	06355
CARLOS & JANET L OLIVAS	OR CURRENT RESIDENT	17 PLEASANT ST	MYSTIC	CT	06355
JESSICA GEERVLIT	OR CURRENT RESIDENT	P O BOX 192	IVORYTON	CT	06442