



UI

An AVANGRID Company

# UNITED ILLUMINATING STRATFORD 115-kV TRANSMISSION LINE UPGRADES

## CONTACT

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## PROJECT OVERVIEW

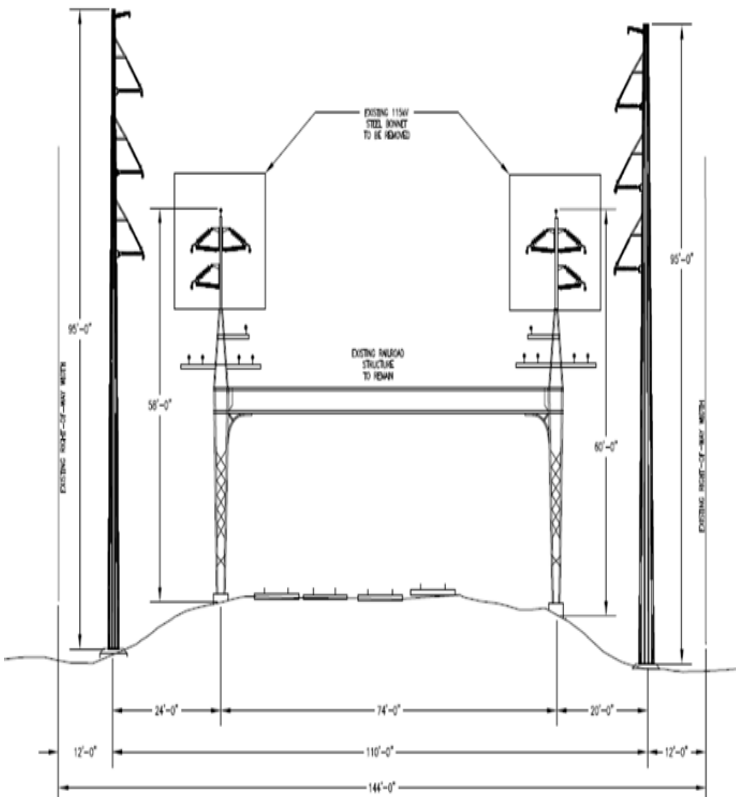
The Stratford 115-kV Railroad Transmission Line Upgrade rebuilds UI's transmission lines along the Metro-North Railroad corridor between Baird Substation, Barnum Substation and the Devon Tie Switching Yard, for a total distance of approximately 2.4 miles. This includes installing ~63 new foundation supported galvanized steel transmission poles, upgrading conductor size to 1590 kcmil conductor and installing two sectionalizing switches at Barnum Substation. This project will help UI to enhance the structural integrity and reliability of the high voltage transmission lines along the Metro-North Railroad corridor which provide power to New Haven and Fairfield counties. The new lines and poles will help UI to continue to provide safe, reliable electrical service to our customers for years to come.

## PROJECT PURPOSE AND NEED

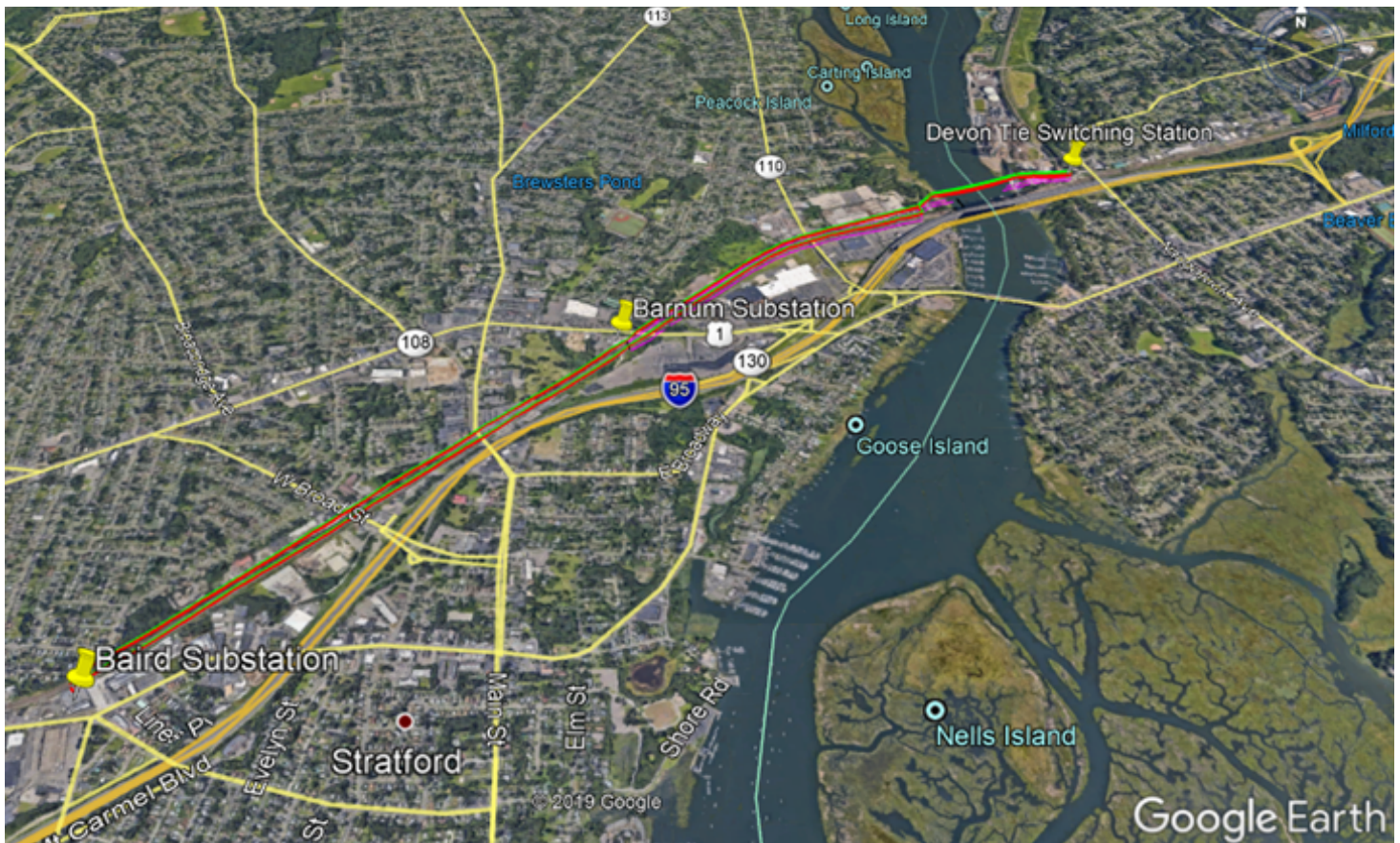
The ISO-New England Southwest Connecticut Transmission Planning Study shows that under certain conditions the reliability of the area transmission system will be at risk. In certain electrical scenarios, existing 115-kV transmission lines between Devon Tie and Baird Substation may be subject to damaging overloading conditions which will impact the system reliability throughout the service territory exposing the electric system and our customers to unacceptable reliability risks. Due to the physical limitations of the existing Metro-North structural support system which was originally installed in the early 1900's, coupled with the reliability risks, it was recommended that the new transmission lines be installed on new galvanized steel monopoles along this 2.4-mile transmission line corridor.

## PROJECT FACTS

Municipalities:	Stratford, Milford, Bridgeport
Counties Impacted:	Fairfield , New Haven
Permits:	Connecticut Siting Council: Petition for a Declaratory Ruling approved July 20, 2017 Connecticut Department of Energy & Environmental Protection: General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (Permit No. GSN003468) U.S. Army Corps of Engineers: Clean Water Act Section 404 Authorization (License No. NAE-2019-02393) Metro-North Railroad: Entry Permit (Permit No. NH-19-8 MP8.00-61.00)



Typical Catenary Structure and Proposed Monopole Structures



Project Route Overview

## STRATFORD 115-Kv TRANSMISSION LINE UPGRADES

### PROJECT SCOPE

- Staking, vegetation clearing, access roads and work pads construction
- Installation of drilled foundation supported monopoles and conductor
- Installation of 2 sectionalizing switches at the Barnum Substation
- Removal of bonnet structures on MNR Catenaries
- Site Restoration

### BENEFITS TO THE REGION

- The upgrades will improve the reliability and resiliency of the transmission system, ensuring that the safe and reliable transmission of power is maintained through Fairfield and New Haven County in accordance with Federal reliability standards.

### ESTIMATED TIMETABLE *(subject to change)*

Construction Start:	December 2019
In Service Date:	Third quarter 2021