



## Replacement of Bridge No. 01015

State Project No. 0116-0135  
Route 53 over Saugatuck Reservoir  
Redding, Connecticut

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## Design Team

<p>Andrew Cardinali Principal Engineer <a href="mailto:Andrew.Cardinali@ct.gov">Andrew.Cardinali@ct.gov</a></p>	<p>Ken-Taro Plude Project Manager <a href="mailto:Ken-Taro.Plude@ct.gov">Ken-Taro.Plude@ct.gov</a></p>
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# Title VI – Your Civil Rights


No Person shall, on the basis of race, color or national origin, be excluded from participation or subject to discrimination in the development of this project.

- Voluntary Post-Meeting Survey:
  - <https://portal.ct.gov/ctdotsurvey>
- Civil Rights information:
  - <https://portal.ct.gov/DOT/Business/Office-of-Equity/Title-VI-Page>



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## Connecticut Department of Transportation Title VI Notice to the Public

The Connecticut Department of Transportation (CTDOT) operates its programs and services without regard to race, color, and national origin in accordance with Title VI of the Civil Rights Act. Any person who believes she or he has been aggrieved by any unlawful discriminatory practice under Title VI may file a complaint with the CTDOT.

For more information on the CTDOT's civil rights program, and the procedures to file a complaint, contact the CTDOT Title VI Coordinator at (860) 594-2169, TRS 711; [Debra.Goss@ct.gov](mailto:Debra.Goss@ct.gov); or visit our administrative office at 2800 Berlin Turnpike, Newington, CT 06131. For more information, visit [www.ct.gov/dot](http://www.ct.gov/dot).

A complainant may file a complaint directly with the Federal Transit Administration by filing a complaint with the FTA Office of Civil Rights, Attention: Title VI Program Coordinator, East Building, 5<sup>th</sup> Floor-TCR, 1200 New Jersey Ave, SE, Washington, DC 20590

A complainant may file a complaint directly with the Federal Highway Administration by filing a complaint with the FHWA Office of Civil Rights, Attention: Title VI Program Coordinator, 8<sup>th</sup> Floor E81-105, 1200 New Jersey Ave, SE, Washington, DC 20590

如需更多信息或免費語言協助，請致電 (860) 594-2169

Para información adicional, o asistencia lingüística gratuita, por favor llame al (860) 594-2169

Per informazioni aggiuntive o assistenza linguistica gratuita, chiamare il numero (860) 594-2169

Para obter mais informações, ou para auxílio gratuito em outro idioma, ligue para (860) 594-2169

Aliq suvstak dodatnih informacija ili besplatno pomoć u drugim jezicima, pozivajte brojevi (860) 594-2169

Для получения дополнительной информации или бесплатной помощи на другом языке позвоните по телефону (860) 594-2169

Para weitere gute Informationen, sowie kostenlos an lang gratis, rufen Sie (860) 594-2169


Para obtener más información, o asistencia lingüística gratuita, llame al número (860) 594-2169

Si vous souhaitez en savoir plus ou bénéficier d'une assistance linguistique gratuite, merci de composer le numéro suivant (860) 594-2169


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Individuals and organizations may file a complaint by completing the Title VI complaint form (<https://railroads.dot.gov/resource-center/title-vi-civil-rights-act-1964/title-vi-complaint-format>). Complaints should be signed and include contact information and should be sent to: Office of Civil Rights, Federal Railroad Administration, 1200 New Jersey Avenue, SE, Room 10, Mail Stop 5, Washington, DC 20590




Departamento de Transporte de Connecticut

## Título VI Aviso al Público

- El Departamento de Transporte de Connecticut (CTDOT) se compromete a asegurar que ninguna persona sea excluida de participar en, o le sean negados los beneficios de, sus servicios de transporte basándose en la raza, color o país de origen de la persona protegida por el Título VI de la Ley de los Derechos Civiles. Si a usted le parece que ha sido objeto de discriminación en lo que corresponde al Título VI, puede presentar una queja al CTDOT.
- Para más información sobre el programa de derechos civiles del CTDOT y el proceso de presentar una queja, comuníquese con el Coordinadora del Título VI del CTDOT al teléfono (860) 594-2169, TRS 711; Debra.Goss@ct.gov. También puede visitar nuestra oficina administrativa en 2800 Berlin Turnpike, Newington, CT 06131. Para más información, visite [www.ct.gov/dot](http://www.ct.gov/dot).
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- Para recibir más información o ayuda gratuita en otros idiomas, llame al (860) 594-2109.

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### Aerial View:



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## Existing Bridge Information:

Year Built	1939
Structure Type	Concrete encased steel beams Concrete abutments founded on bedrock
Curb-to-Curb	30'-2"
Out-to-Out	34'-1"
Structure Length	44'-0"
Service	Route 53 (Newtown Turnpike) over Saugatuck Reservoir
Average Daily Traffic	2600 vehicles

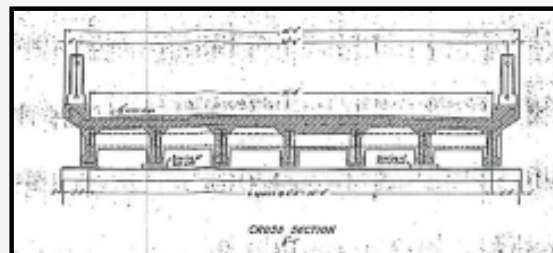


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## Existing Structure

- Superstructure (Horizontal Span)
  - Rated at 6: **Satisfactory**
  - Concrete-encased steel beams
- Substructure (Underlying Foundation)
  - Rated at 4: **Poor**
  - Unreinforced concrete abutments and wingwalls
  - Major cracking, spalling and efflorescence



- 9 - Excellent
- 8 - Very Good
- 7 - Good
- 6 - Satisfactory
- 5 - Fair
- 4 - Poor
- 3 - Serious
- 2 - Critical
- 1 - Imminent Failure



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## Bridge Elevations



Downstream (East) Elevation



Upstream (West) Elevation



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## North Approach



North Approach



Bridge from North Approach



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## South Approach



South Approach



Bridge from South Approach



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## North Embankments



Northwest embankment and exposed ledge



Northeast embankment and exposed ledge



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## South Embankments



Southeast embankment



Southwest embankment



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## Utilities

### Overhead:

- Eversource
- Frontier
- Cablevision

### Underground:

- Lumen
- Altice USA
- Crown Castle

### Aquarion:

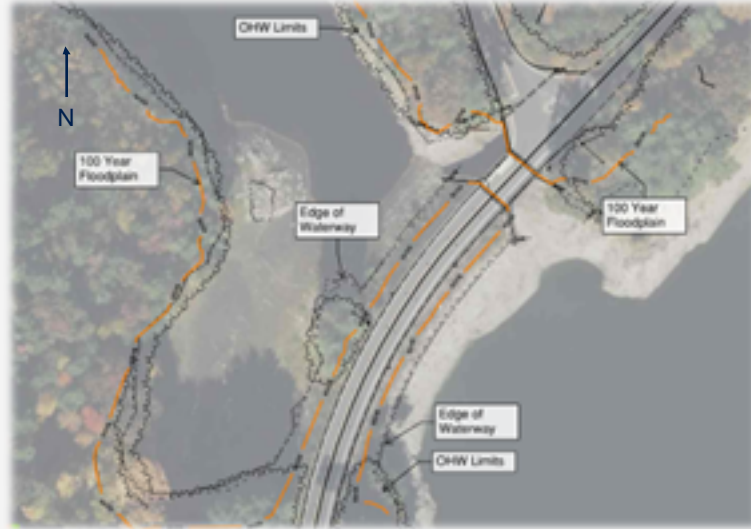
- Class 1 watershed



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## Floodplain:



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## Environmental Review:

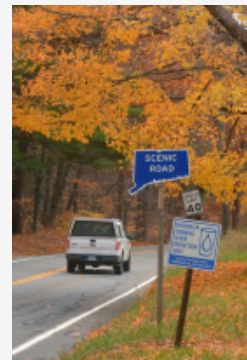
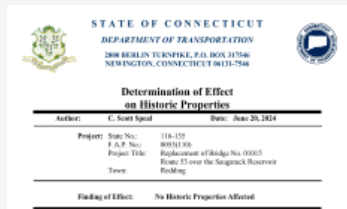
Designated as a Scenic Road

- Preservation of exposed rock outcroppings

Determination of No Historic Properties Affected has been made under Section 106 of National Historic Preservation Act

- Areas of moderate archaeological potential avoided through restriction of staging area and layup areas to existing roadways and paved surfaces

Potential presence of Northern Long Eared Bat



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## Environmental Impacts

- Maintain fish passage
- Maintain trail access
- Maintain fishing access
- Project is located within the 100-year flood plain
- No wetlands in project area
- Flood management certification will be required
- Preliminary floodplain/floodway indicate will not result in adverse increases to regulatory base flood elevations



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## Deficiencies:



Northwest wingwall barrier is misaligned >1-1/2"



Steel Bearings with heavy laminated and pack rust



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### Deficiencies (cont.):



Concrete encasement broken off at end of beam, negligible section loss



Concrete encasement cracking at end of beam

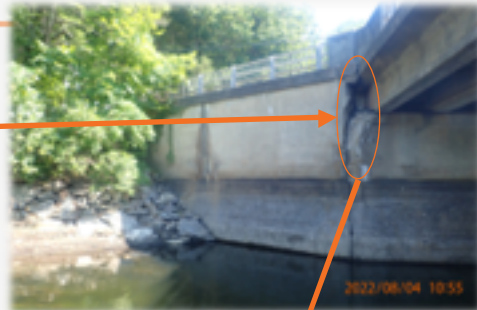


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### Deficiencies (cont.):



Abutment 2 with cracking and spalling (crumbling off)



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## Deficiencies (cont.):



Northwest Wingwall, note cracking, efflorescence (mineral deposits) and spall (crumbling concrete)



Crack up to 1.25" displacement



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## Deficiencies (cont.):



Southeast Wingwall, note cracking and efflorescence (mineral deposits)



Northeast Wingwall, note cracking, efflorescence (mineral deposits)

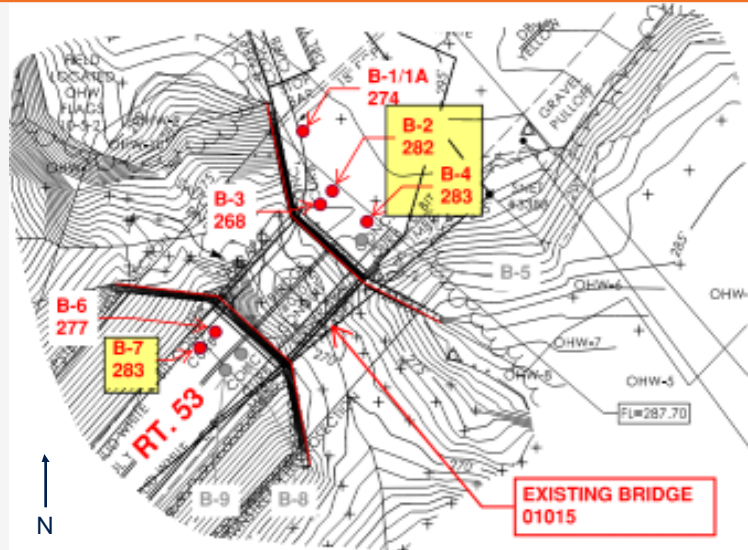


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## Subsurface Investigation

Subsurface conditions studied  
Bedrock elevations identified for new bridge placement

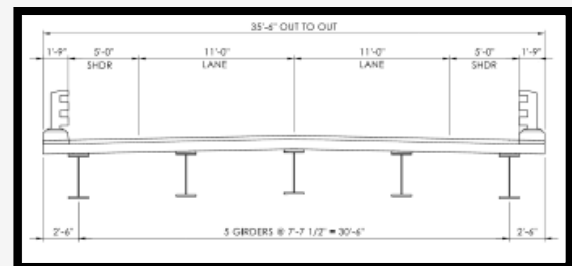
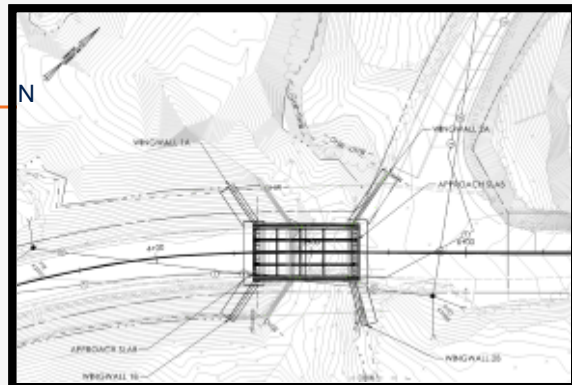


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## Bridge Replacement

- Increased length at south end to 63' total span
- Increased width to 35.5' out-to-out
- Increased curb-to-curb width to 32'
- No roadway or intersection realignments
- Abutments placed on solid bedrock
- Steel plate girders
- 3-Tube rail barriers
- Cost: \$7,200,000



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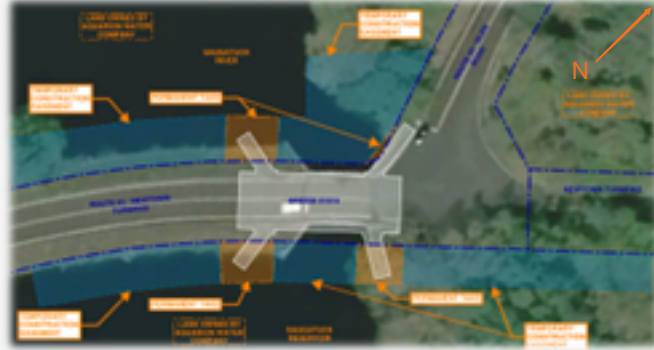
## Rights of Way Impacts:

State ROW – 15’ off E.O.R  
both sides

Aquarion owns all land and water adjacent to work area

- Subject to Easement in favor of the State of CT and the Nature Conservancy

Require limited land acquisitions, extensive construction easements



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## Right-of-Way Relevant Law

### State of Connecticut

- C.G.S. Sections 13a-73 & 13a-98e



Matt Geanacopoulos  
Rights-of-Way Coordinator

### Federal

- Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended.



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## Right-of-Way Acquisition Process

Letter of Intent to Acquire

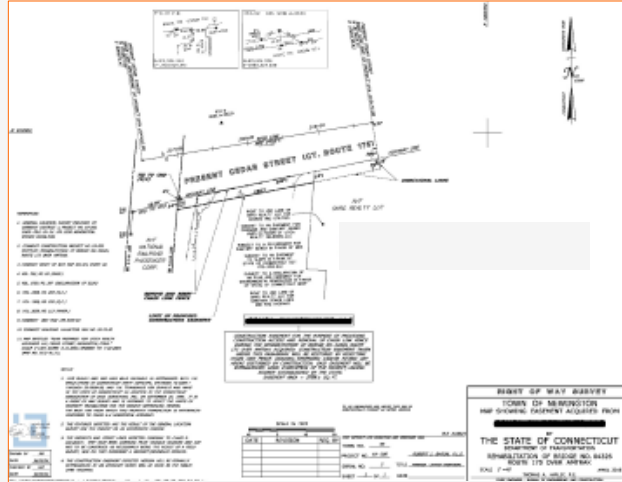
Valuation

Offer of Just Compensation

Negotiation

Acquisition

- Agreement
- Eminent Domain/Condemnation
- 6-month Appeal Period



Sample Property Map

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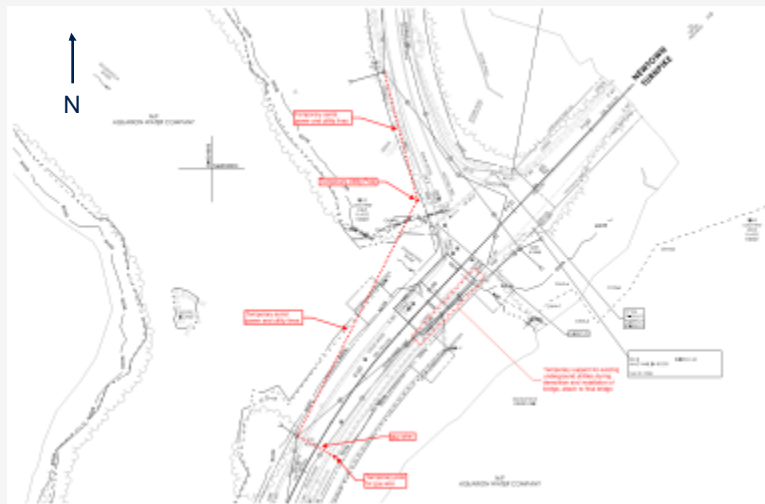
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## Utility Relocation and Protection

Overhead utilities to be relocated

Underground utilities to be protected in place

Avoids interruptions



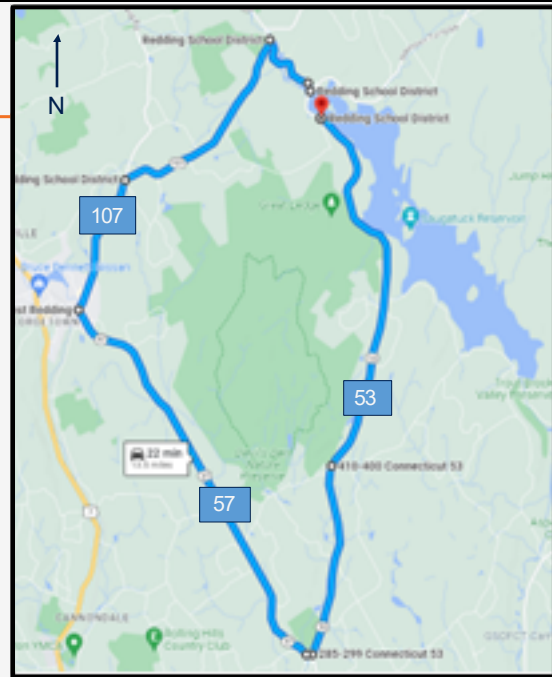
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## Detour

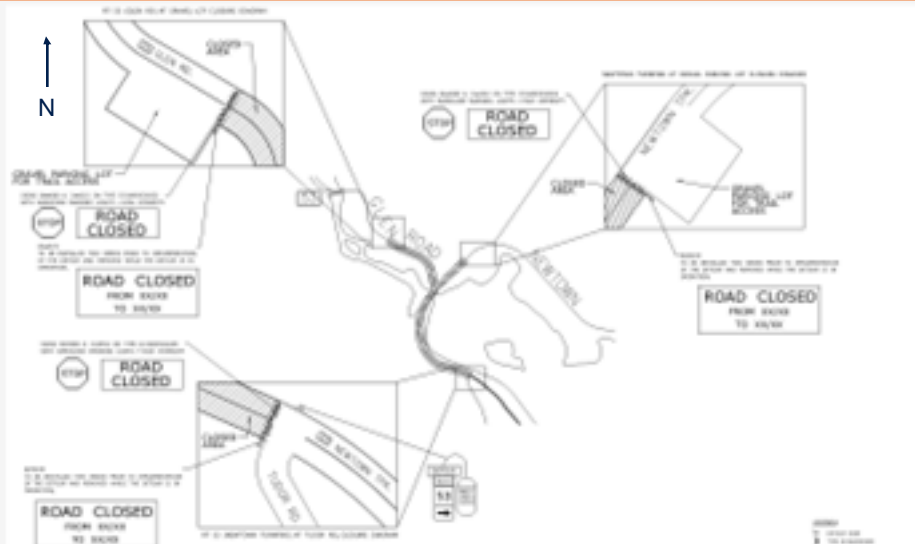
- Full detour
- No vehicular or pedestrian ability during closure
- Closing Rt 53 from Tudor Road to the bridge
- Rt 53 North traffic redirected to Rt 57 N and Rt 107 N
- Close Glen Rd and Newtown Turnpike north of the bridge and reroute along Rt 107
- Full route shown is 13 miles, approx. 22 min.



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## Roadway Closure



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## Contractor Access and Staging

All contractor access will remain along the roadway in the Detour Closure Area

- Avoids Saugatuck Trail limits
- Avoids exposed ledge throughout
- Avoids Aquarion ROW
- Avoids impacts to the hiking trail access parking areas



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## Project Schedule & Cost:

### Schedule

- Anticipated construction start: **Fall 2026**

### Duration:

- Anticipated to be a single season
- 2-3 months for overhead utility relocation before winter shutdown

### Cost:

- Estimated at \$7.2M
- No town funds required



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