

State Project 0052-0093: Replacement of Bridge No. 01547, Franklin Public Information Meeting

Meeting: Monday, October 24th, 7:00 p.m.

**Located at Franklin Municipal Complex
5 Tyler Dr, Franklin, CT 06254**

Join us for a Question and Answer session following the formal presentation.

Project Email:

DOTProject52-93@ct.gov

Phone: (860) 594-2020

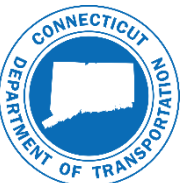
Visit the Project Webpage:

<https://portal.ct.gov/DOTFranklin52-93>



Purpose of Tonight's Meeting

- Introduce the Project Team
- Formal Presentation of the Design
 - Overview of the Existing Bridge
 - Review the Purpose and Need for the project
 - Review the Proposed Bridge Design
 - Overview of Design Schedule
 - Overview of Construction Schedule & Impacts
- Rights of Way Process
- Open Q&A session



Title VI – 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>
- Title VI Notice to the Public Available
 - [TitleVIFlyerEnglishwSafeHarborpdf.pdf \(ct.gov\)](#)



Project Team



Bart Sweeney,
P.E.
Division Chief of
Bridges – CTDOT



Andrew Cardinali,
P.E.
Principal Engineer
– CTDOT, Bridge
Design



Jacob Platt, P.E.
Project Manager
– CTDOT, Bridge
Design



Chris Patria, P.E.
Project Engineer
– CTDOT, Bridge
Design



Matt Colonna
Design Engineer
– CTDOT, Bridge
Design



Matt
Geanacopoulos
Rights of Way
Coordinator –
CTDOT, Office of
Right of Way



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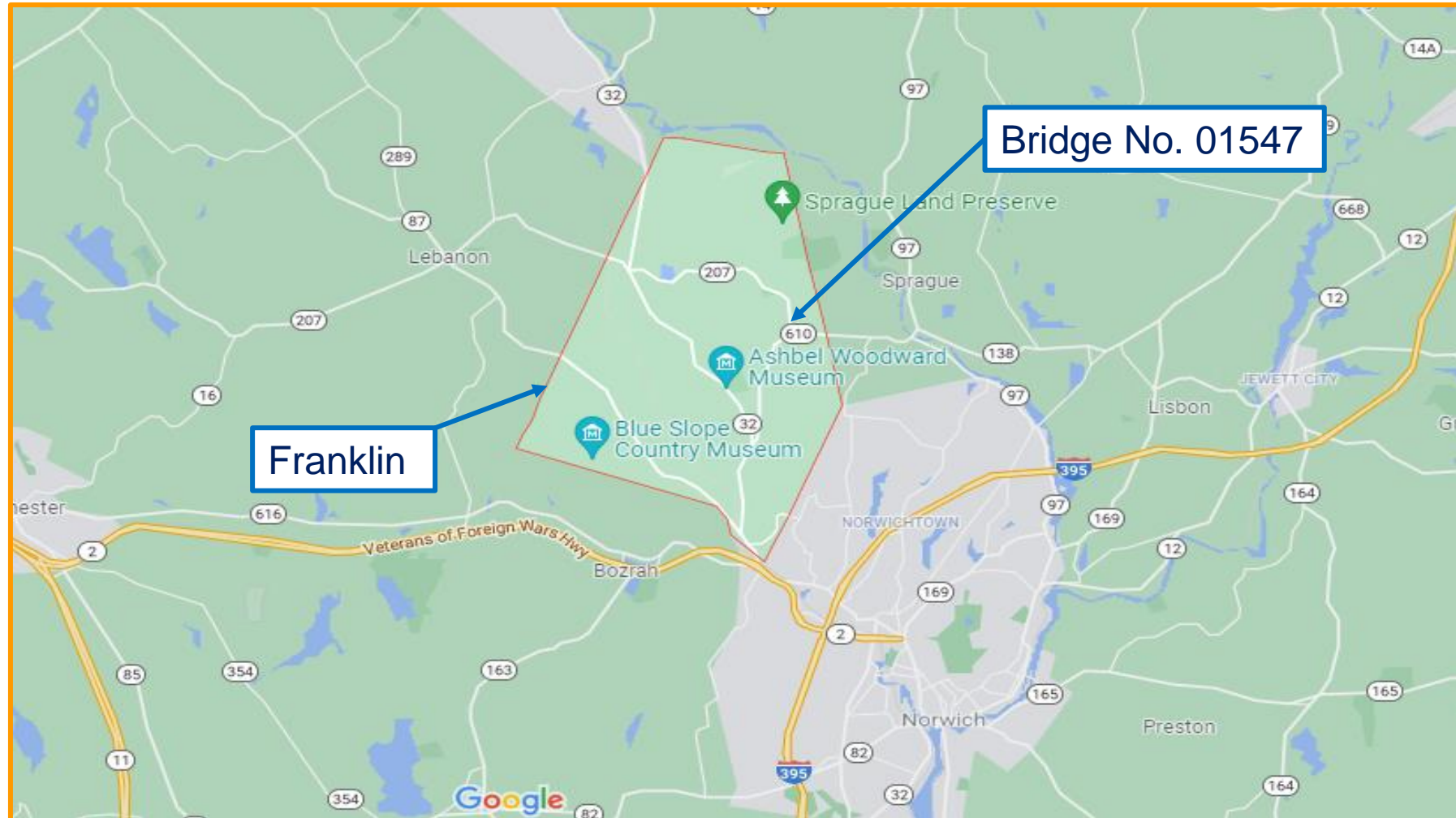


Design Presentation Outline

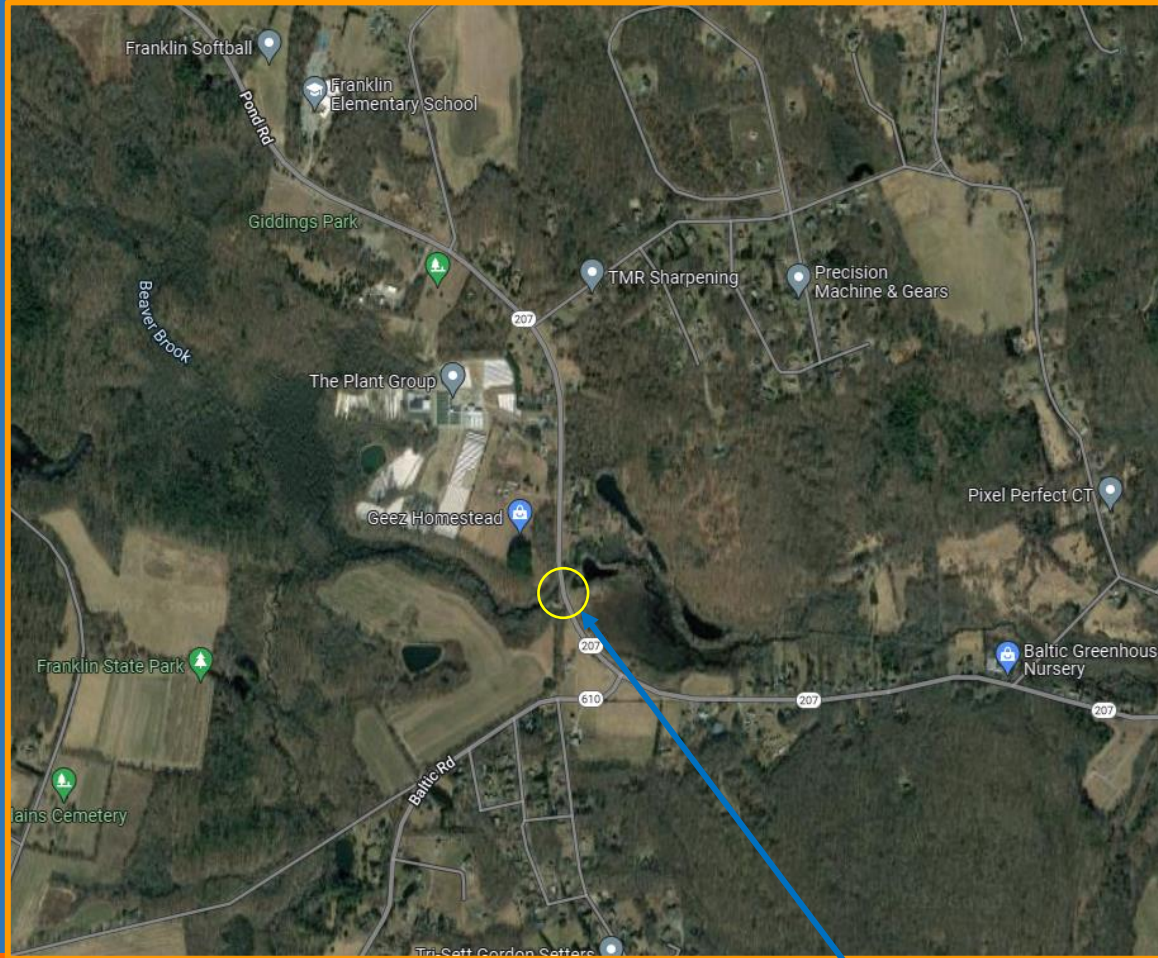
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Project Location



Bridge Aerial View



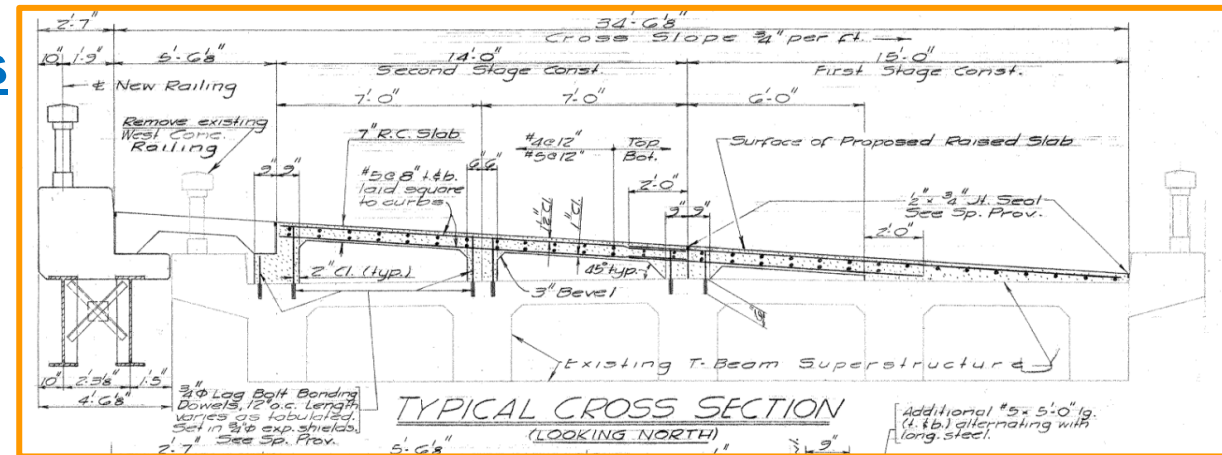
Bridge No. 01547

Replacement of Bridge No. 01547 // State Project No. 0052-0093



Existing Bridge Description

- Originally Constructed in **1938**.
- Bridge Widened in **1961**.
- Structure Type:
Concrete T-beams with 2 Steel Beams
- Structure Dimensions:
 - Clear span length: 28' clear span (40' skew span).
 - Curb-to-curb width: 35'-6"
 - Out-to-Out width: 39'-11".
 - 45-Degree skew
- Bridge has a Weight Restriction of **31 tons**
- Average Daily Traffic (ADT) is **2400** Vehicles and **3% truck traffic**.



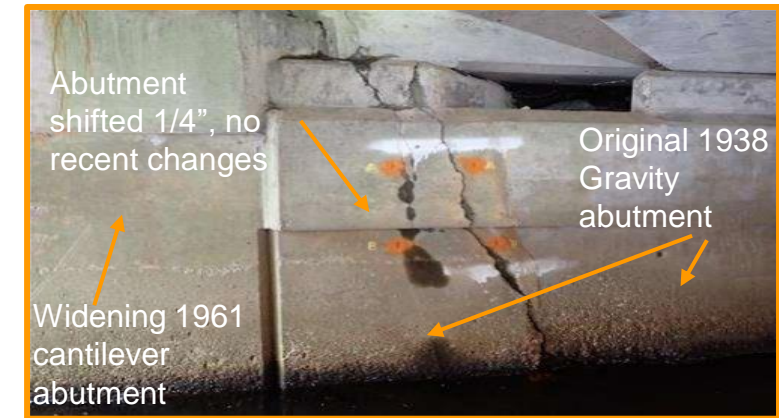
Existing Condition of the Bridge



Spalls with exposed stirrup & honeycombing



Active leakage at deck joint & efflorescence



Full height abutment crack



Spalls with exposed stirrup
(Beam 3)



Spalls with exposed stirrup
(Beam 5)



Spalls with exposed stirrups
(Beam 5)

Purpose and Need

Purpose:

Improve the poor condition of the existing structure to a state of good repair

Need:

- Superstructure is in poor condition (rating = 4).
- Substructure is in fair condition (rating = 5).
- Bridge has a weight restriction posting of 31 tons (Single Unit).



Bridge Condition Ratings on a Scale of 1 to 9

9 – Excellent

8 – Very Good

7 – Good

6 – Satisfactory

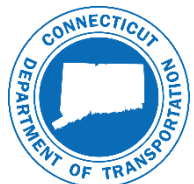
5 – Fair

4 – Poor

3 – Serious

2 – Critical

1 – Imminent Failure



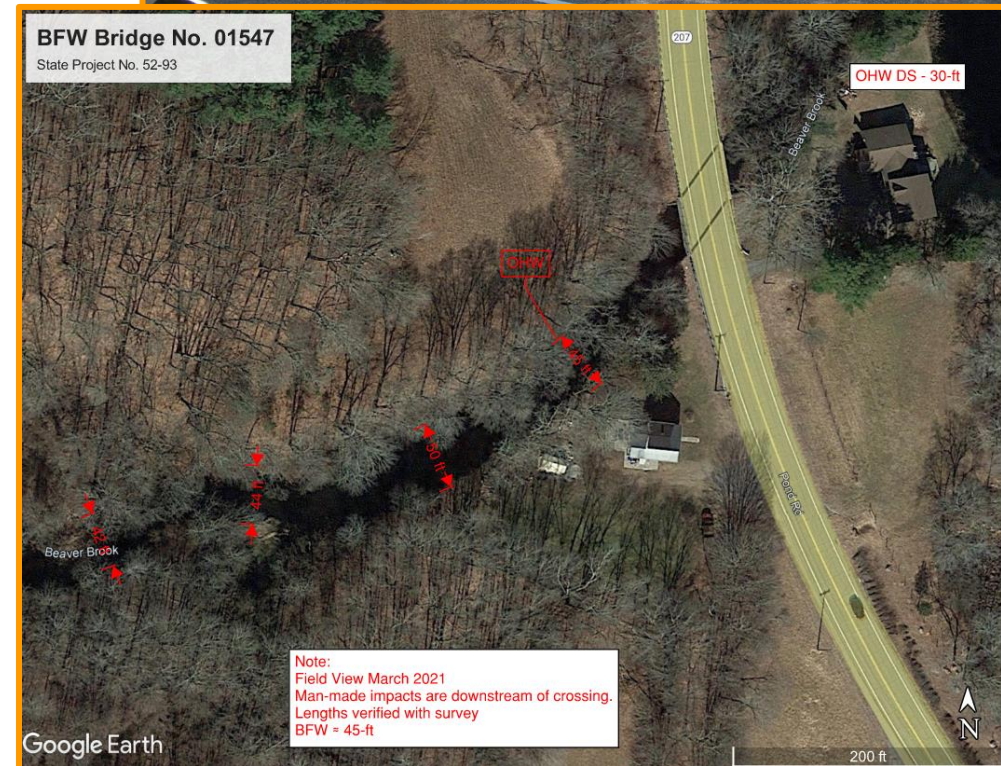
Solution: Full Bridge Replacement

- Addresses the purpose of the project to bring the structure to a state of good repair:
 - Removes the poorly rated structure from service
 - Reopen Route 207 to full legal truck traffic
- Improves Hydraulic & Environmental Conditions:
 - Designed to achieve low chord clearance to design storm water elevation
 - Designed to meet bank-full width criteria: 55-foot Clear Span (>1.2BFW)



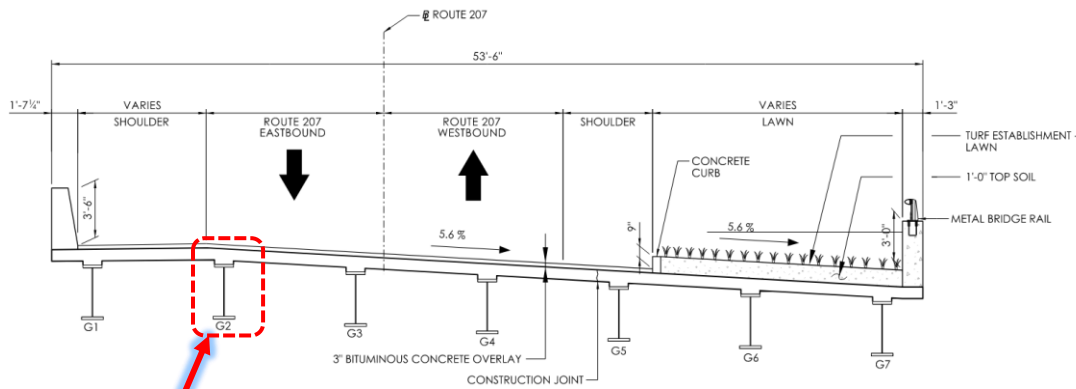
Site Constraints

- Hydraulics
 - Low Chord within 100-year storm
 - Abutments within stream bank full width
- Vibration induced settlement soils
- Aerial power and communication utilities
- Nearby Driveway
- Nearby Wetlands

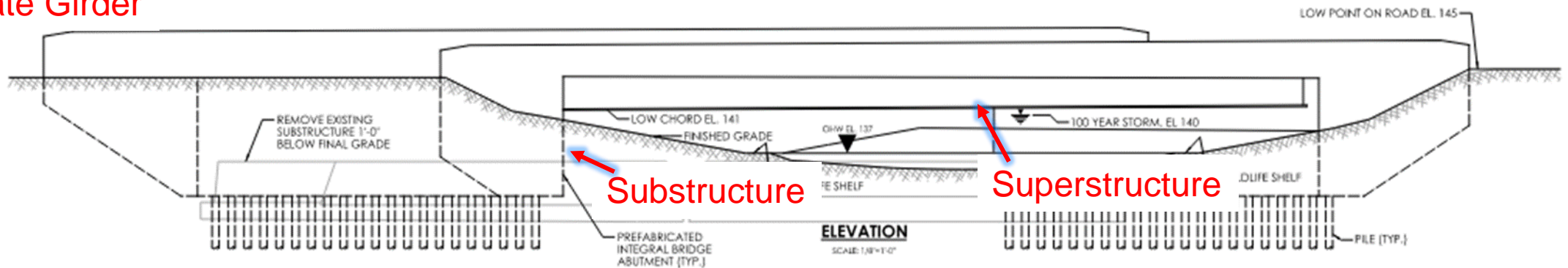
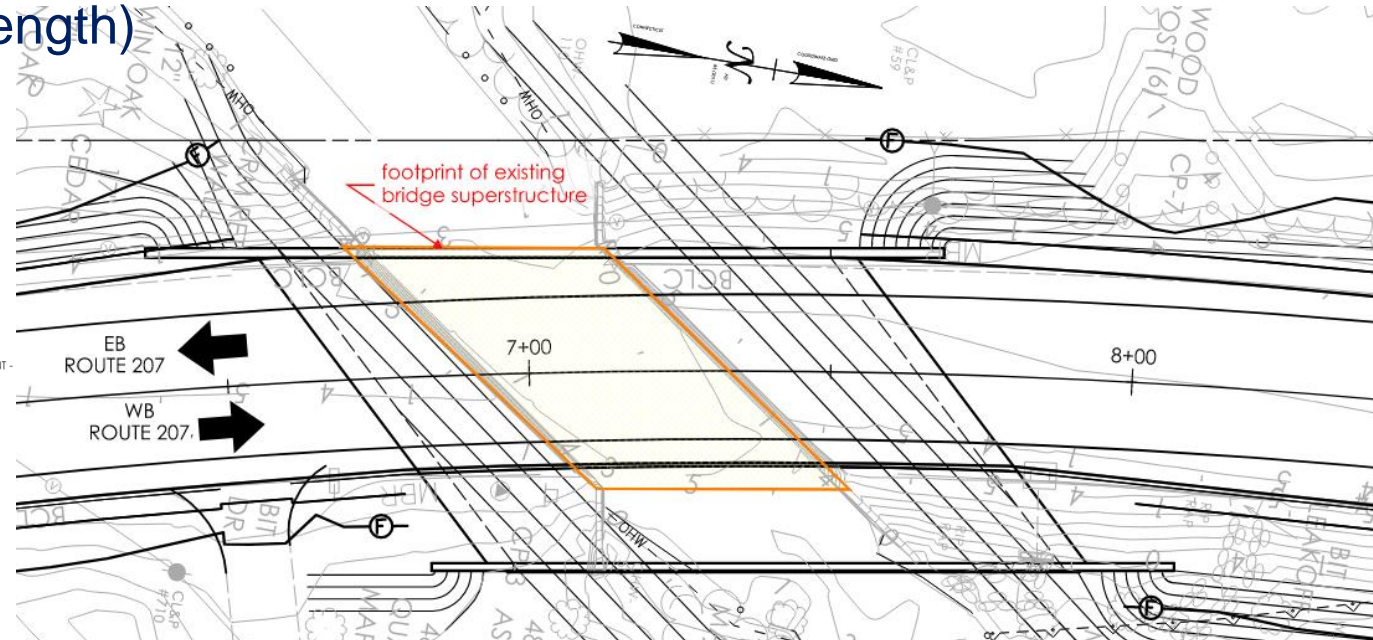


Proposed Structure

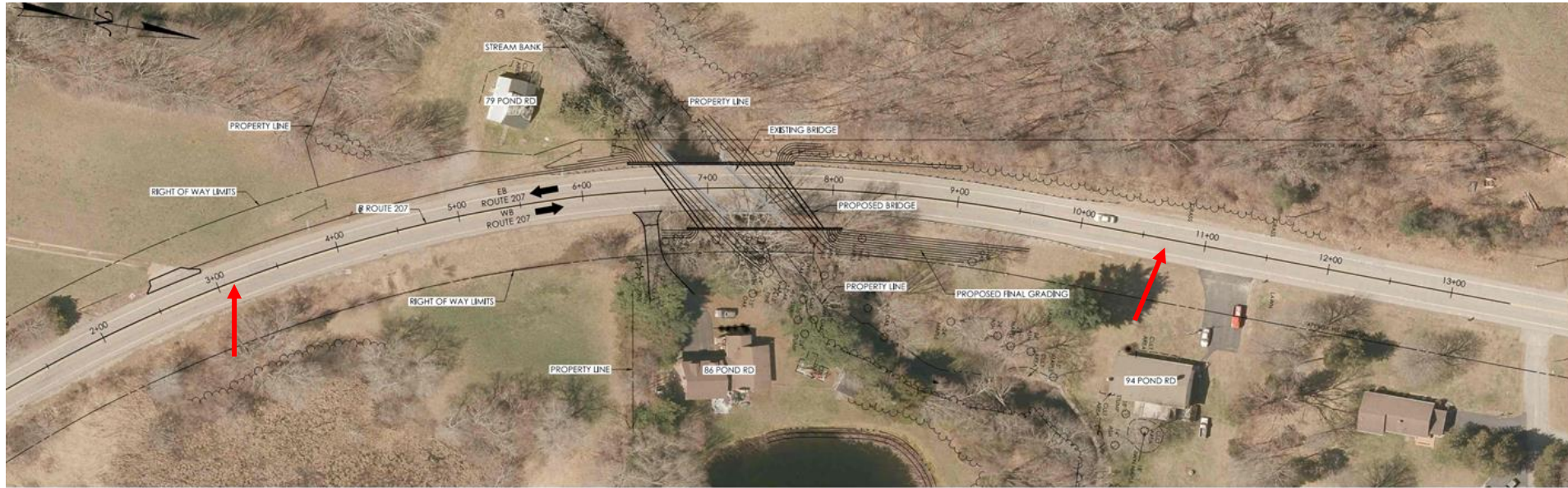
- Steel Plate Girders with Integral Abutments
- Road elevation raised 21-inches
- Widen bridge to 53'-6" (improve sight lines)
- 55-foot clear span (95-foot bridge length)
- Design life of 75 years



Steel Plate Girder

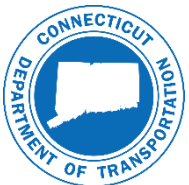
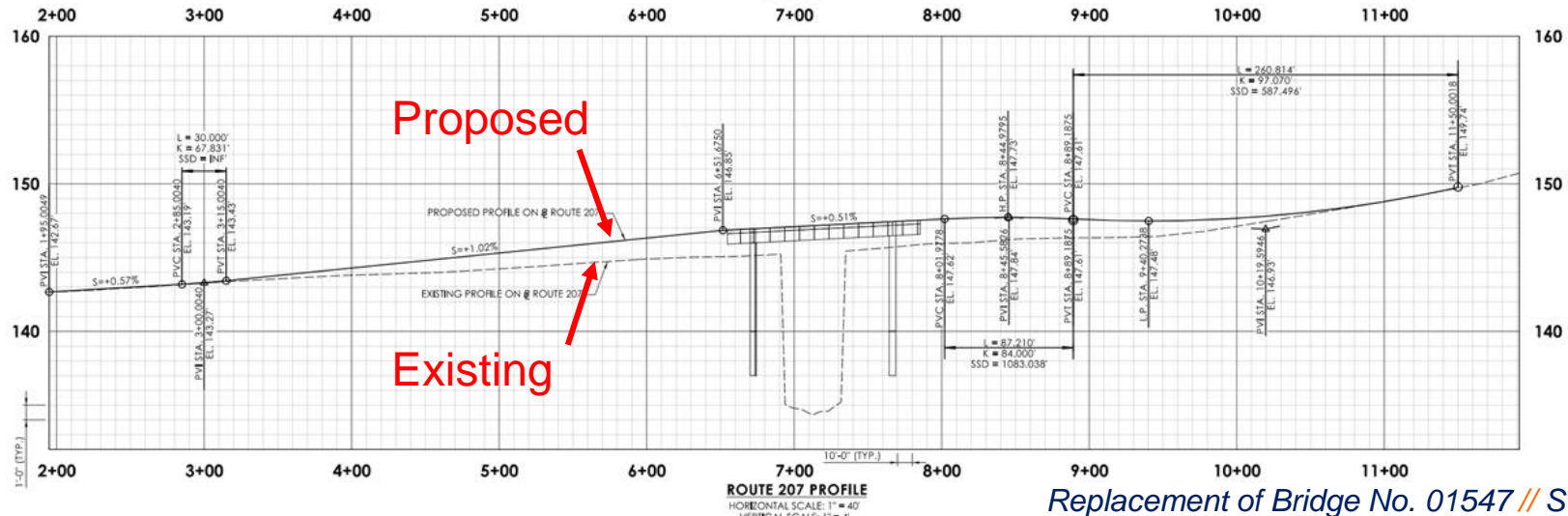


General Plan and Profile



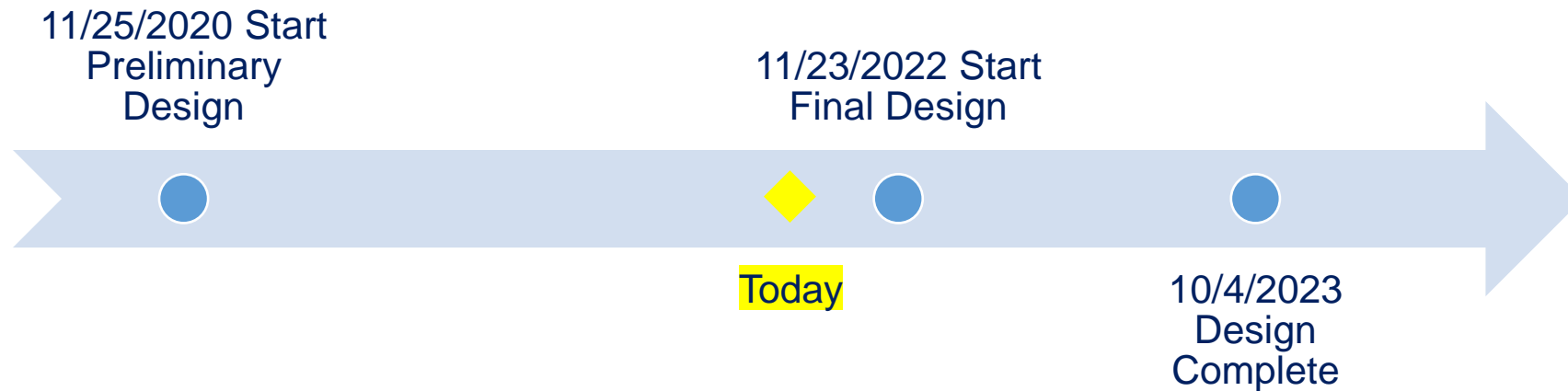
PROJECT 0052-0093 - REPLACEMENT OF BRIDGE NO. 01547

SCALE: 1" = 40'



Design Schedule

- 11/25/2020 – Start of Preliminary Design
- 11/23/2022 – Start Final Design
- 10/4/2023 – Design Complete

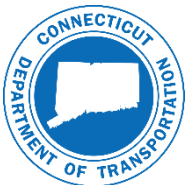
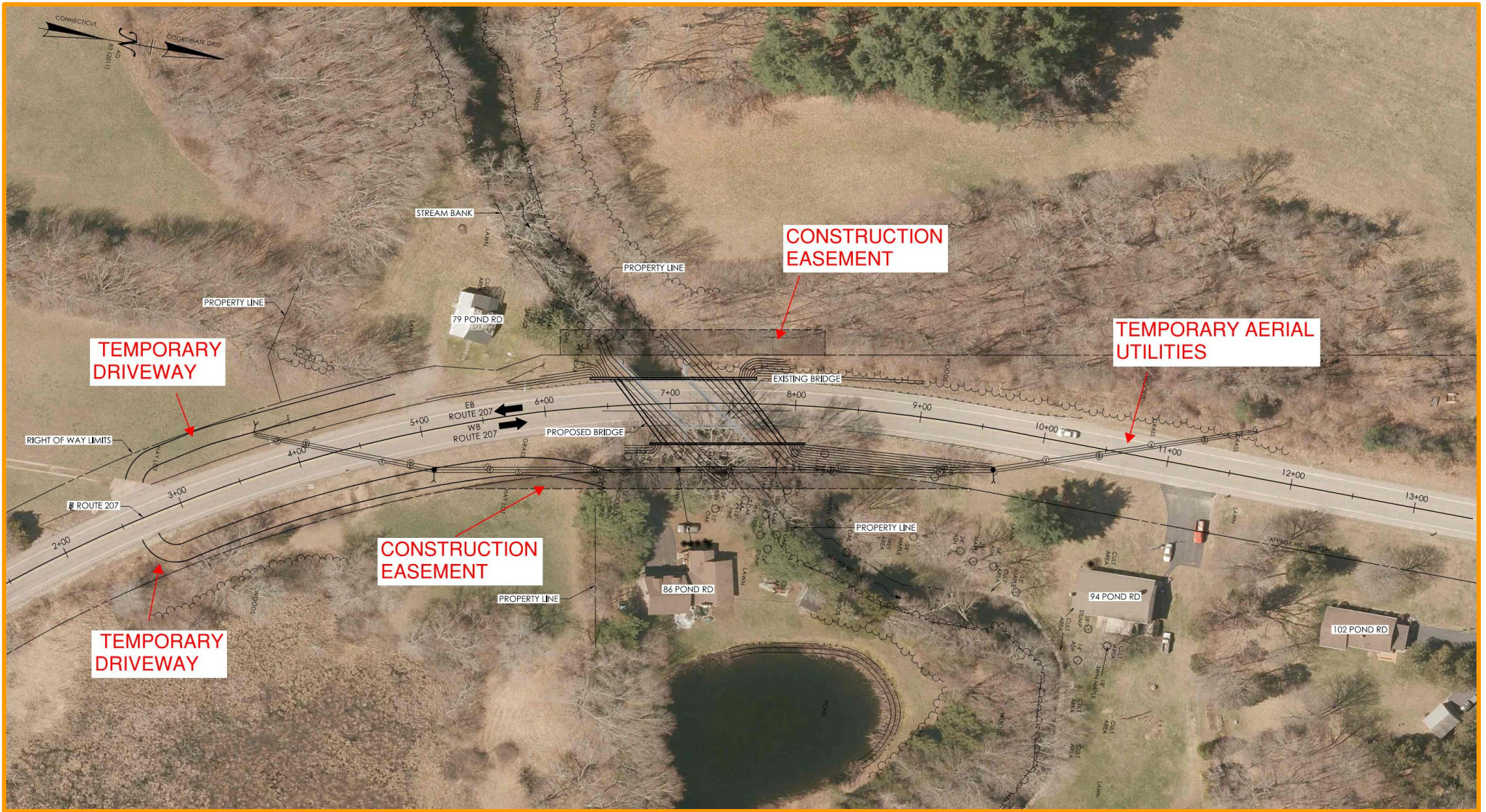


Construction Schedule

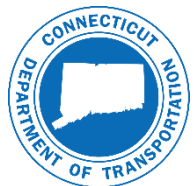
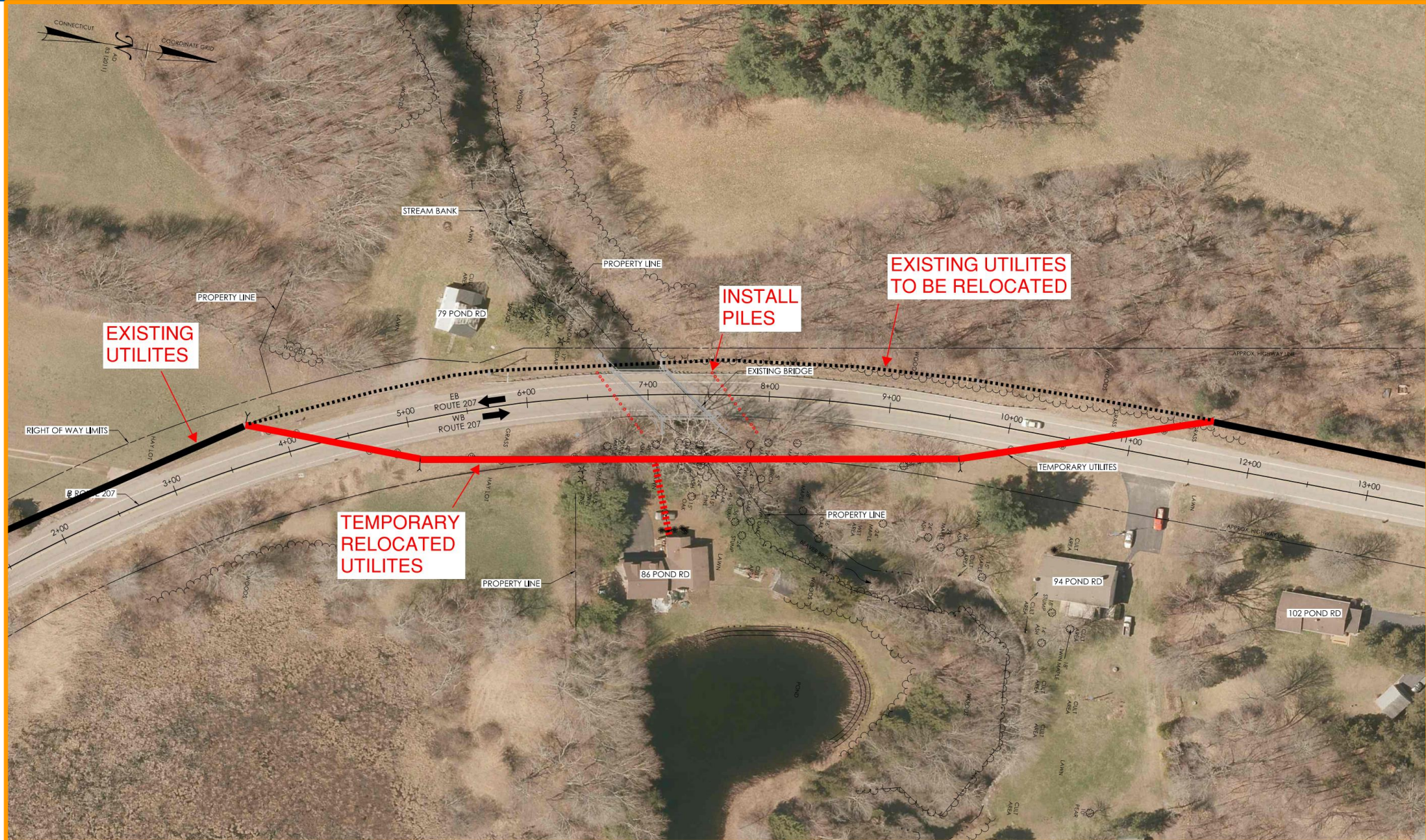
- Construction will last 2 seasons: April through November of 2024 & 2025
- The 2024 construction season will have minor impacts to traffic.
 - Anticipated daily lane closures.
- The 2025 construction season will have larger impacts to traffic.
 - Alternating one-way traffic through the project limits – anticipated Spring 2025
 - Approximate 9-week road closer and traffic detour around the project limits



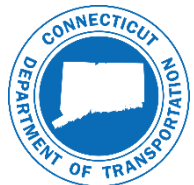
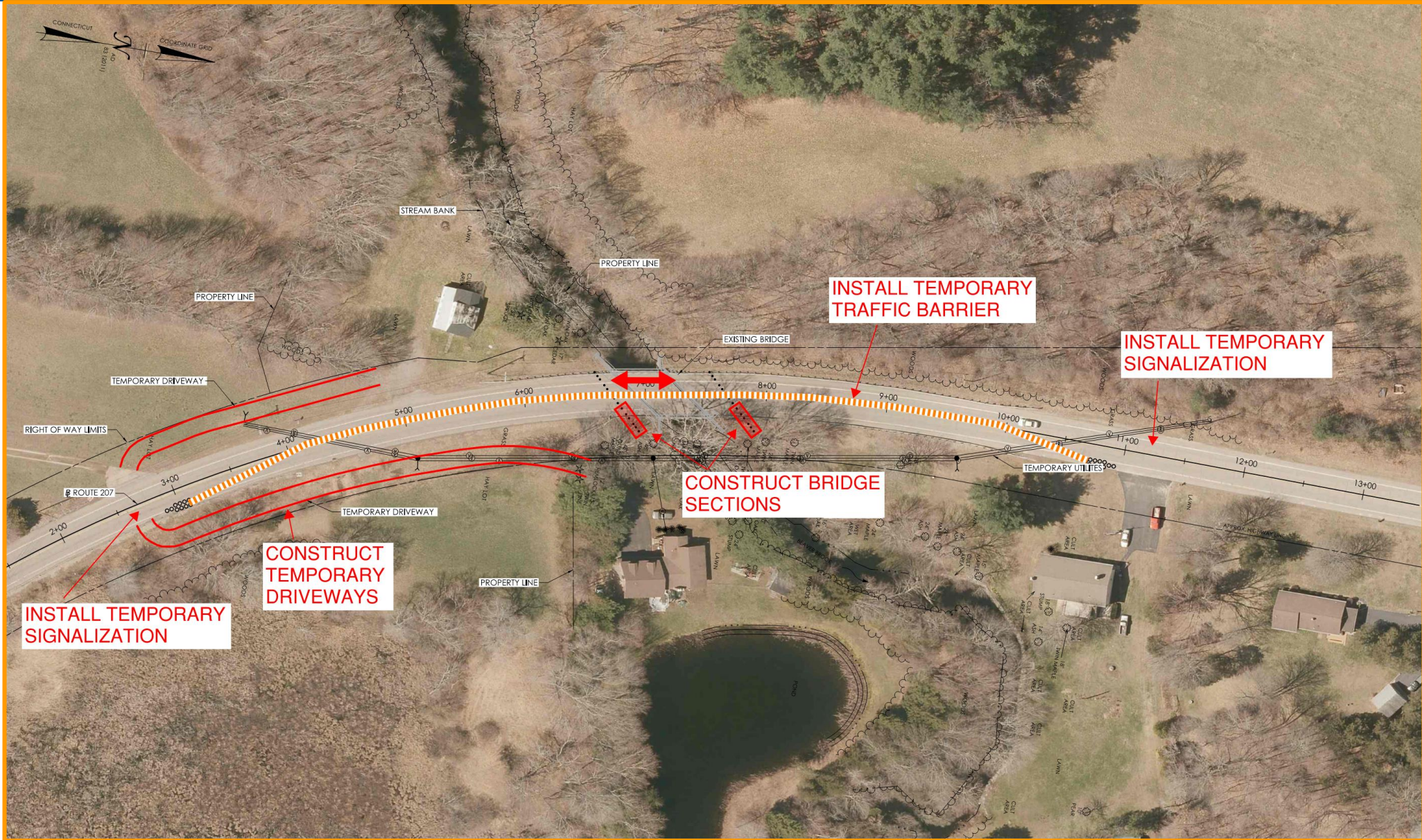
Property Impacts



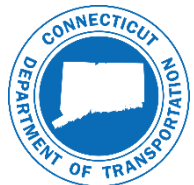
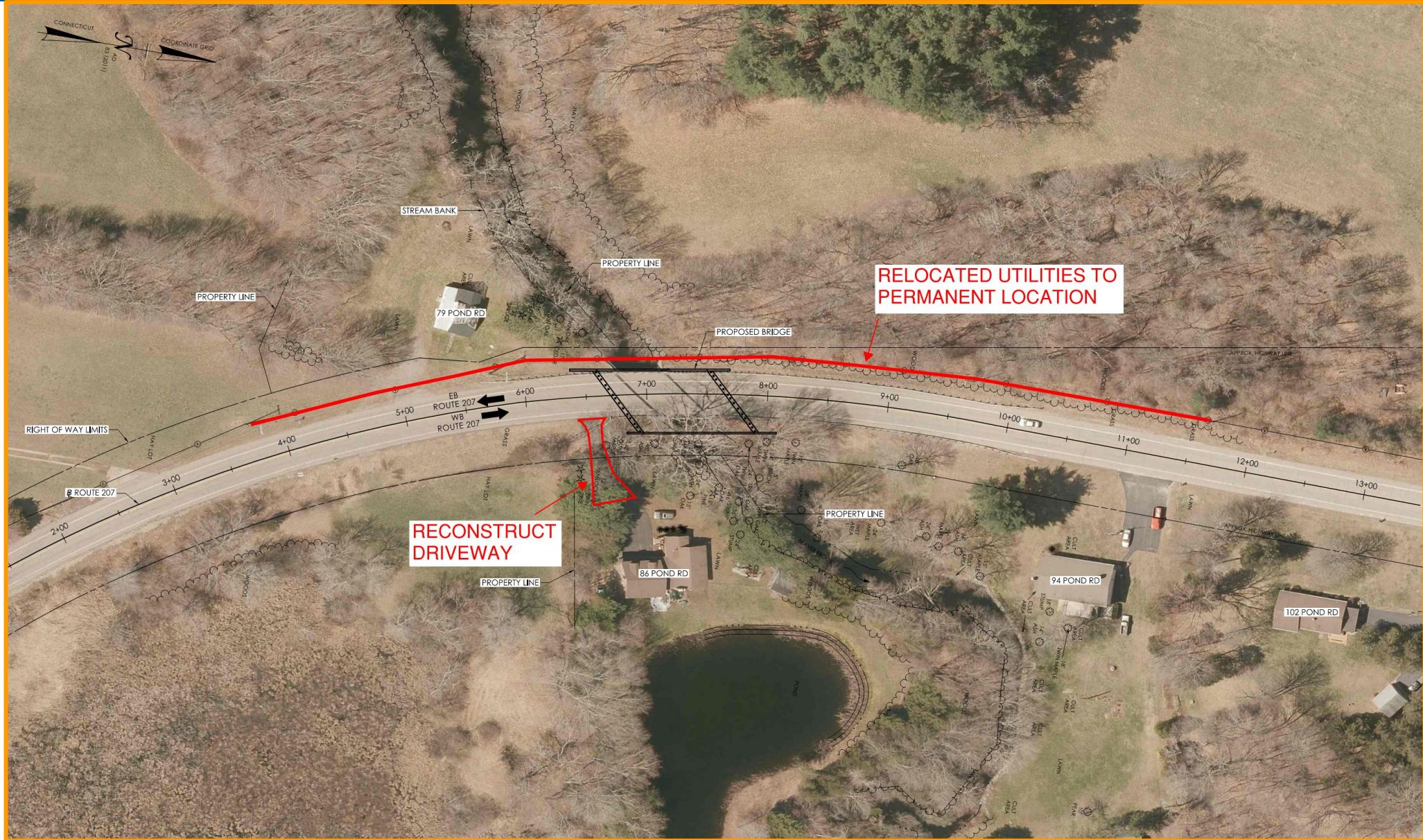
General Construction Sequence – Summer 2024



General Construction Sequence – Spring 2025 Alternating One-Way

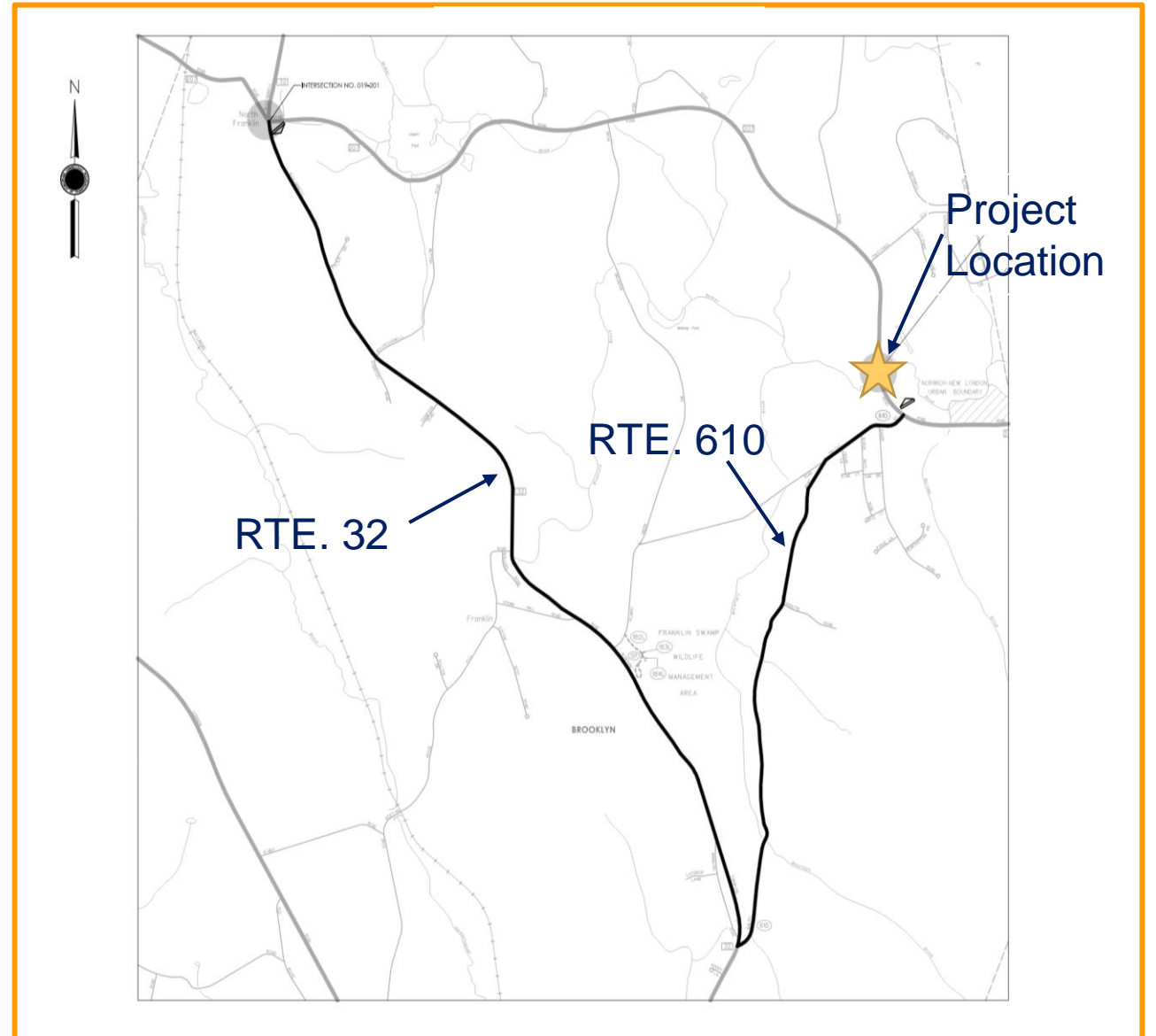


General Construction Sequence – Summer 2025 Road Reopened



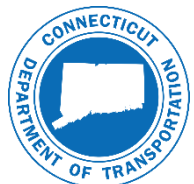
Detour Route

- Signed detour route will utilize:
 - Route 32 (Franklin Tpke.)
 - Route 610 (Baltic Rd.)
- State Detour Route:
 - 6 miles
 - 8 minute
 - 9 week duration



Anticipated Permits

- **US Army Corps of Engineers SV (GP-19)**
- **CT DEEP General Permit for Water Resource Construction Activities (IWGP)**
- **CT DEEP Individual Flood Management Certification**



Project Cost

- Total Construction Costs: \$6,000,000

CONTRACT COST SUMMARY		
	Utility Items	\$0.00
	Structures Items	\$1,861,331.42
	Highways Items	\$780,220.97
	Traffic Items	\$193,613.46
	Environmental Items	\$0.00
	Landscape Items	\$0.00
		\$2,835,165.85
		%
	MINOR ITEMS	15
	IDENTIFIED WORK+MINOR ITEM ALLOWANCE	\$425,274.88
		\$3,260,440.73
		%
	Recurring Lump Sum Items (Estimated based on % total contract cost)	
	CLEARING & GRUBBING	0
	M & P OF TRAFFIC	4.5
	MOBILIZATION & CLOSEOUT	7.5
	CONSTRUCTION STAKING	2
		\$65,208.81
	CONTRACT WORK	\$3,716,902.43
		%
	CONTINGENCY (as % of CONTRACT)	20
	CONTRACT, INCLUDING CONTINGENCY, IN BASE YEAR	\$743,380.49
		\$4,460,282.92
	CONTRACT, INCLUDING CONTINGENCY AND INFLATION (3.5%/YR)	\$4,759,493.56
	CONSTRUCTION (CN) PHASE TOTAL	\$6,009,367.95
	Estimated By: MC	Reviewed By:
	DATE: 6/2/2022	DATE:



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.



Project 0052-0093 Question & Answer (Q&A)

Any questions?

The comment period is open through **Monday, November 7, 2022**.

Comments or questions may be submitted through the following methods during this Q & A session:

- Project email: **DOTProject52-93@ct.gov** (available through November 7)
- Project voicemail: **(860) 594-2020** (available November 7)

Please complete our survey: <https://portal.ct.gov/ctdotsurvey>

