

Preliminary Project Description
State Project 0052-0093
F.A.P. No. 0207(007)
Replacement of Bridge No. 01547
carrying CT Route 207 over Beaver Brook
Town of Franklin

Existing Bridge Description: This project involves Bridge No. 01547 which carries Route 207 (Pond Road) over Beaver Brook in Franklin. The bridge is located at mile post 14.14, approximately 3 miles east of the intersection with Route 32 and approximately 0.2 miles west of the intersection with Route 610.

Constructed in 1933, the existing bridge consists of single span reinforced concrete T-Beams. The bridge was widened with two-steel girders to accommodate the relocation of Route 207 in 1961. The bridge has a clear span length of 28-feet, and a curb-to-curb width of 35-feet. The average daily traffic (ADT) is approximately 2400 vehicle per day with 3 percent truck traffic (2018).

Purpose and Need: The purpose of this project is to bring the structure to a state of good repair. Due to the extent of the deterioration of the existing bridge, this project was initiated to replace the bridge.

This project is needed because the existing structure is in poor condition. The most recent Bridge Inspection Report (12/107/2021) assigned the superstructure a rating of '4', indicating that the superstructure is in poor condition. The existing substructure is currently rated a '5'. The existing bridge has a weight restriction posting of 31 Tons.

Project Description: A full bridge replacement is proposed. The proposed structure is anticipated to be an open span multi-beam steel I-section superstructure with integral abutments that will be constructed in approximately the same location of the existing structure. The substructure will be constructed behind the existing abutments and the clear span length increased to 55-feet to meet bank full width criteria. The out-to-out of the proposed structure will be increased to improve sight lines to the adjacent driveway. The bridge and road profile will be raised 21-inches to meet the 100-year flood water surface elevation. Full depth road reconstruction will be required to the bridge approaches.

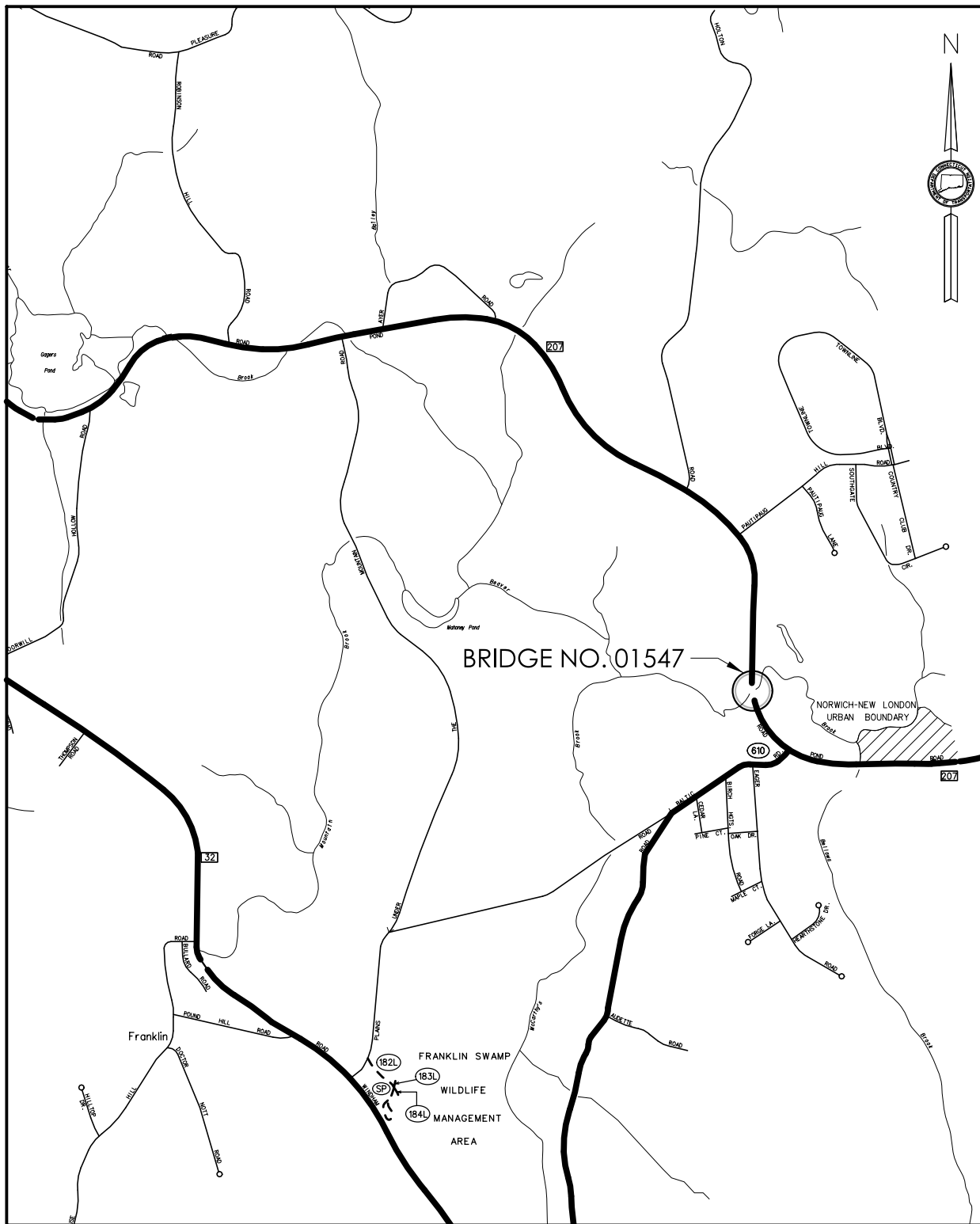
Permits: USACE SV (GP-19), CT DEEP General Permit for Water Resource Construction Activities, CT DEEP Individual Floor Management Certification

Utilities: Temporary relocation of aerial facilities will be required.

Rights of Way: Temporary construction easements will be required on the adjacent private properties of the bridge.

Maintenance and Protection of Traffic: Alternating one way traffic and a road closure with detour will be require to replace the bridge. The detour is approximately 6 miles using Route 610 and Route 32.

Project Schedule: Design Approval: 11/23/2022 – Final Design: 10/4/2023 – Construction: Spring 2024



LOCATION PLAN
REPLACEMENT OF BRIDGE NO. 01547

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

PROJECT NO.: 0052-0093
FRANKLIN

DATE: 03/19/2021

