

CONNECTICUT DEPARTMENT OF TRANSPORTATION

VIRTUAL PUBLIC INFORMATION MEETING

State Project No. 0134-0149

Replacement of Bridge No. 04776 carrying Hydeville Road over Furnace Brook

Stafford

December 1, 2022, 7:00 p.m.

Register: <https://portal.ct.gov/DOTStafford134-149>

YouTube Livestream: <https://portal.ct.gov/ctdotvpimarchive>

The purpose of this meeting is to provide the community an opportunity to learn about the proposed project and allow an open discussion of any views and comments concerning the proposed improvements. A Question and Answer (Q&A) session will immediately follow the presentation.

The purpose of the project is to replace Bridge No. 04776, which is a two-span, 24-foot-long structure that carries Hydeville Road over Furnace Brook in the town of Stafford (Town). The bridge is located approximately 250-feet north of the intersection of Hydeville Road and East Street (Route 19). The bridge carries two lanes of traffic in the northbound and southbound directions over an unstriped curb-to-curb roadway width of 21-feet. The bridge is located in a residential area and the brook flows under the bridge from east to west with the Hydeville Pond Dam located approx. 225 feet upstream of the bridge.

The existing bridge was originally constructed in 1935 and comprises of a cast-in-place concrete slab superstructure with bituminous concrete overlay supported by reinforced concrete abutments and a center pier. The bridge has an 8-degree skew and an out-to-out width of 23-feet, 10-inches. Both the abutments and the center pier are founded on concrete footings that appear to be bearing on soil. However, the exact bearing stratum are unknown due to the absence of original bridge construction plans and soil boring information. Concrete slabs are present along the invert of the stream of both spans. Stone masonry wingwalls are present at all corners of the bridge except the northwest wingwall which is reinforced concrete. Metal beam rail from the bridge extends along the approach roadways. Hydeville Road is classified as an Urban Local Road, and the Average Daily Traffic (ADT) on the bridge is estimated to be 631 vehicles per day according to a traffic count taken in November 2021.

The purpose of the project is to address the deficiencies in the bridge, identified by recent inspections. The bridge is considered to be structurally deficient primarily due to the deteriorated and poor condition of the substructure and superstructure. The north abutment near the easterly wingwall has an exposed footing with areas of missing concrete sections and undermining. The existing bridge is hydraulically inadequate and does not pass the 25-year storm. The roadway width does not meet current FHWA or State standards, and the bridge rail system does not meet current safety standards.

The proposed bridge is a twin precast concrete box culvert with a 16-foot clear span and 10-foot rise each. Cutoff walls and return walls will be detailed at the inlet and outlet to provide for scour protection. The proposed 27 ft. -6 in. wide structure will be able to provide a 24ft. – 0 in. curb-to-curb roadway width meeting FHWA and State standards. A crash-tested 3-tube open bridge rail system is proposed to be mounted along concrete curbs/headwalls. The bridge rail system will be extended to the limits of the proposed wingwalls. U-type wingwalls, 19 feet in length, are proposed at the two southerly corners and curved wingwalls, 24 feet in length and terminated outside the clear zone to eliminate the need for guiderails, are proposed on the two northerly corners. The top surface of the roof slab of the proposed twin precast concrete box culvert will be protected by a spray applied waterproofing membrane and a 3 in. (min.) bituminous concrete overlay. The roadway is proposed to be realigned 5 feet to the west for improved alignments and due to the close proximity of the ROW line on the east side. Full depth pavement reconstruction is proposed to tie in the roadway work approximately 175 feet and 150 feet at the south and north approaches, respectively resulting in a project length of approximately 360-feet. The existing roadway profile will be maintained. Guiderail, bridge attachments and end treatments at the two southerly bridge approaches will be replaced to meet current MASH design standards.

There are right-of-way impacts associated with the proposed improvements. Three properties on the east side of Hydeville Road, near the bridge, will have right-of-way impacts. Impacts may include right to construct driveway, right to install sedimentation control system, temporary construction easement or easement to slope for the safety of the highway and remove, use or retain excavated material.

Construction is anticipated to begin in spring 2025 based on the availability of funding, acquisition of rights of way, and approval of permits. The estimated construction cost for this project is approximately \$2.73 million. This project is anticipated to be undertaken with 80 percent Federal funds and 20 percent State funds.

Please register for the virtual public information meeting at <https://portal.ct.gov/DOTStafford134-149>. Registration is required to participate. Once registered, you will receive a confirmation email with a link to access the meeting.

Members of the public can submit comments and questions during the two-week public comment period following the meeting. Please direct comments and questions by December 15, 2022 to DOT-FLBP@ct.gov and (860) 594-2020 or Marc Byrnes, Project Manager (Marc.Byrnes@ct.gov, (860) 594-3489).

For more information, please visit the project webpage: <http://portal.ct.gov/DOTStafford134-149>.

ACCESSIBILITY

This meeting will also be livestreamed on YouTube, and closed captioning will be available. Non-English translation options will be available on Zoom and YouTube. The recording will also be available on CTDOT's YouTube Virtual Public Information Meeting playlist: <https://portal.ct.gov/ctdotvpimarchive>.

Persons with limited internet access, use the call-in number (877) 853-5257 and enter Meeting ID 827 4108 6115. Persons with limited internet access may also request that project information be mailed to them within one week by contacting James R. Barrows II, Project Engineer (James.Barrows@ct.gov; (860) 594-3192).

Persons with hearing and/or speech disabilities may dial 711 for Telecommunications Relay Services (TRS).

Language assistance may be requested by contacting the CTDOT's Language Assistance Call Line (860) 594-2109. Requests should be made at least five business days prior to the meeting. Language assistance is provided at no cost to the public and efforts will be made to respond to timely requests for assistance.