

Tileyard Road over Flint Creek Bridge Replacement Project

Town of Gorham, Ontario County

P.I.N. 4ON0.06



**Ontario County
Public Works Department**



**Department of
Transportation**

ANDREW M. CUOMO
Governor

MARIE THERESE DOMINGUEZ, ESQ.
Commissioner



**U.S. Department of Transportation
Federal Highway Administration**

PROJECT OBJECTIVES

The following objectives have been established for this project:

- **Eliminate structural deficiencies** and provide a safe crossing meeting current Federal, State and County standards using cost effective techniques to minimize the life cycle cost of maintenance and repair with a useful service life of at least 75 years.
- **Improve safety** by providing adequate accommodations for pedestrians and bicyclists.
- **Improve the hydraulic performance of the structure** to provide a minimum of 2-ft of freeboard at the 50-year design storm.
- Meet the objectives above in a socially, economically, and environmentally sensitive manner.

WHY IS THE PROJECT NEEDED?

The existing bridge has a General Recommendation of 4 from its latest Biennial Inspection, indicating that the bridge is in Poor condition. The bridge has numerous areas of deterioration, including corroded steel girders, failing paint system, cracked and spalling concrete substructures and damaged bridge railing which does not meet current safety standards.

In addition to its condition the bridge does not perform well hydraulically, with the high water level during the 50-year and 100-year storms impacting the steel girders, causing a buildup of water upstream.

Geometrically, the bridge lacks shoulders, resulting in a narrow roadway width between the railings and leaving no space for the occasional pedestrian or bicyclist.

The project would eliminate all existing defects on the structure by replacing the bridge, and would improve the hydraulics to provide a minimum of 2-ft of freeboard at the 50-year storm by providing a new structure with a wide span and by raising the highway profile.

PREFERRED ALTERNATIVE

The preferred alternative is to remove the existing bridge and replace it with a new single-span steel multi-girder bridge with reinforced concrete integral abutments founded on piles. The metalized steel girders would be approximately 90-ft from centerline of bearing/abutment to centerline of bearing/abutment. The fully integral abutment configuration would eliminate the need for deck expansion joints and girder bearings.

The bridge span would be longer than the existing 55-ft span bridge, increasing the hydraulic opening. The highway profile would be raised over the structure by approximately 2.75-ft to allow a minimum of 2-ft of freeboard for the 50-year design storm to be provided. The proposed bridge width would be 35'-4" out-to-out, to allow for two 11-ft travel lanes and two 5-ft shoulders.

PROJECT FACTS

Project Location: Tileyard Road over Flint Creek, Gorham, NY

Bridge Roadway Widths:	<u>Feature</u>	<u>Existing</u>	<u>Proposed</u>
	Travel Lanes	10 ft	11 ft
	Shoulders	0 ft	5 ft
	Sidewalks	N/A	N/A

Structure Information: The proposed bridge is a 90-ft span steel multi-girder structure with a cast-in-place concrete deck supported on concrete integral abutments.

Additional Right-of-Way: Right-of-Way (ROW) acquisitions are anticipated in the form of permanent easements. The additional ROW is required to allow construction access and to accommodate the toes of slopes and relocated stone-lined ditches.

Maintenance of Traffic: A full closure of the bridge will be required. The posted detour will utilize Goose Street, Charlton Road, Old Mill Road and Mott Road and is approximately 3.2 miles long.

Construction Cost: Estimated at \$1,581,297.

Anticipated funding source(s): 80% Federal, 15% State, 5% Local

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Key Project Dates: Design Approval:March, 2021
ROW Acquisition Complete:October, 2021
Project Letting:December, 2022
Construction Start:March, 2023
Construction Complete:October, 2023