

Computerized Traffic Signal System (CTSS) Replacement US Route 1 (Kings Highway)
STATE PROJECT NO. 0050-0223
Fairfield

1. Project Description

This state project is located along U.S. Route 1 (Kings Highway) in the Town of Fairfield from Meadowbrook Road to Jennings Road/Rainbow Street; approximately 1.5 miles in length. The project has been initiated to replace the aging traffic signal infrastructure along this section of the U.S. Route 1 corridor, as needed for a state of good repair, by replacing the existing Computerized Traffic Signal System (CTSS). The project includes a total of eleven (11) traffic signal upgrades; one (1) of the eleven (11) locations requiring only partial upgrades or minor modifications.

2. Purpose and Need

The replacement of the CTSS will involve new fiber optic communications and will allow Connecticut Department of Transportation (CTDOT) to continue the deployment and use of advanced traffic signal technology to monitor and reduce travel times.

3. Scope of Work

The replacement of outdated traffic signal infrastructure to CTSS infrastructure along U.S. Route 1 will implement proven transportation systems and technologies that would largely benefit Connecticut. These transportation systems and technologies include:

- Advanced traffic signal controllers to provide updated traffic signal and data collection functionality.
- Upgraded traffic signal detection, using non-intrusive sensors to provide additional detection and visual capabilities.
- Fiber optic interconnect among all project intersections to provide reliable, high bandwidth communications
- Upgraded wireless communications back to the CTDOT's central traffic signal control software.
- Pedestrian safety enhancements throughout the corridor.
- Installation of new traffic signal infrastructure to replace infrastructure that has surpassed its life expectancy. New signal infrastructure will meet current MUTCD standards.
- Automated Traffic Signal Performance Measures (ATSPM)

Benefits from the improvements and technology include increased mobility, safety, reduced fuel consumption and congestion, and enhanced performance measures reporting capabilities.

TOWN	INT. NO.	INTERSECTION DESCRIPTION
Fairfield	050-216	U.S. Route 1 SB (Kings Highway) at Meadowbrook Road
Fairfield	050-233	U.S. Route 1 NB (Kings Highway) at Meadowbrook Road
Fairfield	050-217	U.S. Route 1 (Kings Highway Cut Off) at Grasmere Avenue
Fairfield	050-260	U.S. Route 1 (Kings Highway Cut Off) at New England Avenue
Fairfield	050-265	U.S. Route 1 (Kings Highway Cut Off) at Kings Highway East
Fairfield	050-257	U.S. Route 1 (Kings Highway) at I-95 NB Exit 24 Off-ramp
Fairfield	050-266	U.S. Route 1 (Kings Highway) at Black Rock Turnpike. & Johnson Drive
Fairfield	050-264	U.S. Route 1 (Kings Highway) at S.R. 732 (Black Rock Turnpike.) & Stephens Lane
Fairfield	050-218	U.S. Route 1 (Kings Highway) at Chambers Street & Private Drive
Fairfield	050-219*	U.S. Route 1 (Kings Highway) at Brentwood Avenue & Longfellow Avenue
Fairfield	050-220	U.S. Route 1 (Kings Highway) at Jennings Road & Rainbow Street

*Partial Upgrade

4. Location Plan

