

DESIGN REPORT

OCTOBER 2014

STATE PROJECT NO. 035-0195
FEDERAL AID PROJECT NO. N/A
PAVEMENT PRESERVATION ON I-95
TOWN OF *DARIEN AND NORWALK*

TOWN: Darien & Norwalk

ROUTES: Interstate 95

DISTRICT NO.: 3

FINAL MAINTENANCE RESPONSIBILITY: State of Connecticut

LOCATION: This project is located on Interstate 95 (I-95) in the Town of Darien and the City of Norwalk, from interchange 10 (Mile Point 10.67) to interchange 15 (Mile point 15.91), for a total project length of approximately 5.24 miles. The Interstate is classified as an Urban Principal Arterial and consists of three travel lanes in both the northbound and southbound directions. The posted speed limit is 55 mph.

DESCRIPTION OF PROJECT: The purpose of this project is to improve the pavement condition and extend the service life of I-95 by resurfacing. The scope of the project consists of a 2.5" mill and 3" overlay from curb to curb in both directions of I-95. The treatment on the adjacent ramps will consist of a 2" mill and 2" overlay, excluding exit ramps 14 northbound and southbound, and entrance ramp 14 northbound. The overlay will be 2" Polymer Modified Asphalt (PMA) S0.5 on 1" Polymer Modified Asphalt (PMA) S0.25.

Twenty two structures have been identified within the project limits. Three of these structures, Bridges No. 00053, 00054 & 00055, are being addressed by State Project No. 102-278 currently under construction. Bridge No. 00059 will be addressed by State Project No. 102-348. Therefore, milling and overlaying on these bridges will be excluded from the scope of work. The scope on the remaining 18 Bridges involves milling and overlaying, and plug joint replacement according to the recommendations of the Bridge Management Unit.

A Project Safety Review has been performed to identify safety deficiencies.

PUBLIC UTILITIES: There are no utilities within the project limits.

SALVAGE: There are no items to be salvaged.

ENVIRONMENTAL PERMIT: A Coastal Area Management (CAM) Consistency Form from the Office of Environmental Planning has been acquired for this project.

RIGHTS OF WAY: All work is contained within State Right of Way, therefore, no rights of way is required.

CONSTRUCTION CONSIDERATIONS:

1. **Traffic Management (Maintenance and Protection of Traffic):**

Traffic will be maintained within the requirements of the Limitations of Operations for this project. Construction will occur at night when traffic can be reduced to 1 travel lane. Ramps that are less than 28 feet wide will be closed and Detour Plans are provided.

State Project No. 102-278 is currently under construction within the pavement preservation project limits, from Interchange 14 to 15. The purpose of this project is to add an auxiliary lane and it is scheduled to be completed in the summer of 2015. The construction of the pavement preservation project is scheduled to start in the spring of 2015. The work will begin at Interchange 10 northbound to allow completion of Project 102-278 with limited disruption to traffic. Coordination between the two projects is ongoing and will continue through construction.

2. **Specialized Equipment and/or Construction Method:**

This project does not require the use of any specialized material or equipment. Standard paving methods and materials will be used. This project will implement corrections to the cross slope on some sections of I-95, within the project limits. These corrections will be done with the purpose of adjusting the grades to improve drainage. The sections receiving the general cross slope correction method will require 1-1/2" of PMA S0.25 at the crown of the road tapering down to 1" at the shoulder line.

TRANSPORTATION MANAGEMENT PLAN (TMP): Activity on I-95 is considered a significant project in the Department's Policy on Systematic Consideration and Management of the Work Zone Impacts when there are sustained mobility impacts for more than 3 days with either intermittent or continuous lane closures. It is anticipated that this project will cause such impacts; therefore a TMP is included with this project. The plan requires the use of permanent and portable variable message signs, monitoring of work zone impacts on traffic queues and accidents, and providing real time warnings of delays through the Highway Advisory Radio, CTDOT website, and variable message signs. The TMP also includes the Limitations of Operations which restricts partially or completely the lane closures allowed based on the time of day, day of week, and recognized holidays and holiday periods. The public, affected municipalities and local first responders will be notified prior to the start of construction and during construction. **Construction should invite town of Darien and Norwalk representatives to the preconstruction meeting.**

**SUBMITTED BY:
HIGHWAY DESIGN UNIT**