

DESIGN REPORT

STATE PROJECT NO. 26-125 FEDERAL AID PROJECT NO. 0082 (122) PAVEMENT PRESERVATION ON ROUTE 82 TOWNS OF CHESTER AND HADDAM

TOWNS: Chester and Haddam

ROUTE: Route 82

DISTRICT NO.: 2

FINAL MAINTENANCE RESPONSIBILITY: State of Connecticut

LOCATION: The proposed project is located on Route 82 in the Towns of Chester and Haddam. The project begins in Chester at Exit 7 off Route 9 (mile point 0.03) and ends in Haddam at the Route 154 Intersection (mile point 2.74) for a total project length of approximately 2.71 miles.

DESCRIPTION OF PROJECT: The purpose of this project is to extend the service life of the roadway by preserving the existing pavement. Route 82 is classified as a Minor Arterial in a rural area running in the east-west direction. The average width of roadway is 24 feet in the EB direction and 30 feet in the WB direction. The Average Daily Traffic is approximately 6,800 vehicles per day and the posted speed limit is 50 m.p.h. in both directions. Within the project limits, Route 82 consists of two travel lanes in the westbound direction and varies between one and two travel lanes in the eastbound direction. The pavement in this area shows signs of longitudinal and transverse cracking making it a good candidate for preservation.

The general scope will consist of a 2.5" mill and overlay from curb to curb in both directions. The overlay on Route 82 will be 2" HMA S0.5 on 0.5" of rubberized chip seal. For ramps the overlay will be 2.5" HMA S0.5 with crack filling.

Four structures have been identified within the project limits. These structures have been reviewed by the Bridge Management Unit. It was determined that asphaltic plug joint systems should be installed on two of the four structures as part of this project. The asphaltic plug joint replacement will be for structures No. 01682 which passes over Route 9 and No. 01683 which passes over Ruth Hill Road and Roaring Brook. Structure No. 01682 (MP 0.416 – MP 0.466) and 01683 (MP 2.169 – MP 2.225) will be milled to a 1.5" depth and overlaid with 1.5" of S0.5 HMA.

PUBLIC UTILITIES: There is no utility involvement with this project.

SALVAGE: There are no items to be salvaged on this project

ENVIRONMENTAL PERMITS: No permits are required for this project.

RIGHTS OF WAY: All work is contained within State Right of Way.

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. Traffic volumes are approximately 6,800 VPD throughout the project limits. The contractor will not be permitted to perform any work which will interfere with traffic operations between 6 a.m. – 9 a.m. and 3 p.m. – 6 p.m., Monday through Friday.