

DOVER-ROCHESTER 29440
OPEN ROAD TOLLING CONVERSION AT THE DOVER AND
ROCHESTER TOLL PLAZAS

TOWN: Dover-Rochester

STATE NO: 29440

FUNDING: Turnpike (Non-Federal)

PROGRAM: Turnpike System Priority Capital Program

DATE: February 29, 2016

ROUTE: Spaulding Turnpike (NH 16)

LEAD PERSON: David S. Smith, P.E.

DESCRIPTION: This project consists of converting the two Spaulding Turnpike (NH 16) toll plazas in the Cities of Dover and Rochester to Open Road Tolling (ORT) facilities. Design alternatives have been developed for the Dover location and include reconstruction at the existing location or relocation 1.25 miles to the north. Evaluation of the Rochester plaza will be initiated in the near future. ORT conversion at both plazas would construct two high speed toll lanes and two cash lanes.

PROJECT FUNDING: This project is 100% Turnpike funded under the Turnpikes "Capital Program" under the current revenue structure.

PROJECT INITIATED: Legislative approval being requested under the 2017-2026 TYP.

PROJECT EXPLANATION: The conversion to ORT will increase throughput capacity at the plaza, increase safety, mobility and reduce emissions and energy use. Cost-benefit analysis shows that there will be a net benefit when compared to rehabilitating the existing facilities. Delaying implementation of the ORT facilities will result in higher costs attributed to the greater need for rehabilitation as well as increased costs for traffic control and construction operations. Additionally, upon completion of conversion of these plazas to ORT, all mainline toll facilities will be ORT providing for operational consistency for the traveling public.

PROJECT CHALLENGES: Operational and constructability challenges due to the proximity with the Exit 6 interchange, as well as conflicts with proposed soundwalls and environmental infrastructure at the existing Dover location do not allow for conversion to ORT. Relocation of the Dover facility approximately 1.25 miles to the north has been evaluated and provides many benefits in operations and constructability.

PROJECT SCHEDULE:

July 2016	Start procurement of engineering consultant for ORT improvements
May 2017	Complete selection and fee development for ORT improvements
July 2017	Start Design for ORT improvements
July 2020	Advertising of ORT contract
September 2020	Start of Construction for ORT Improvements
October 2022	Overall Construction Completion

PRELIMINARY ENGINEERING: \$1,600,000 (\$800,000 in FY 2018 and 2019)

DOVER PLAZA CONSTRUCTION COST: \$ 11,600,000 (FY 2021)

ROCHESTER PLAZA CONSTRUCTION COST: \$ 13,200,000 (FY 2022)