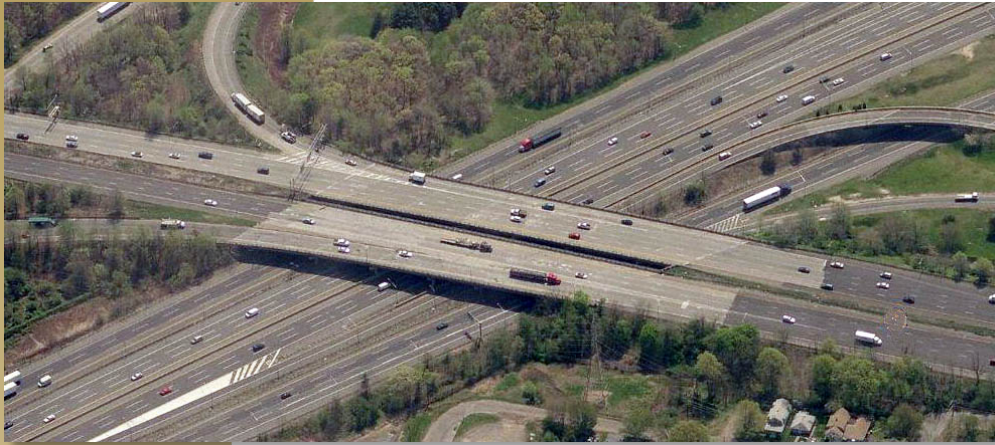


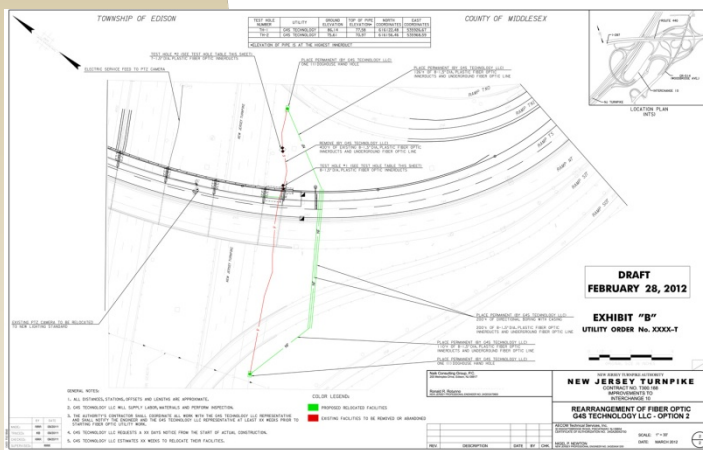
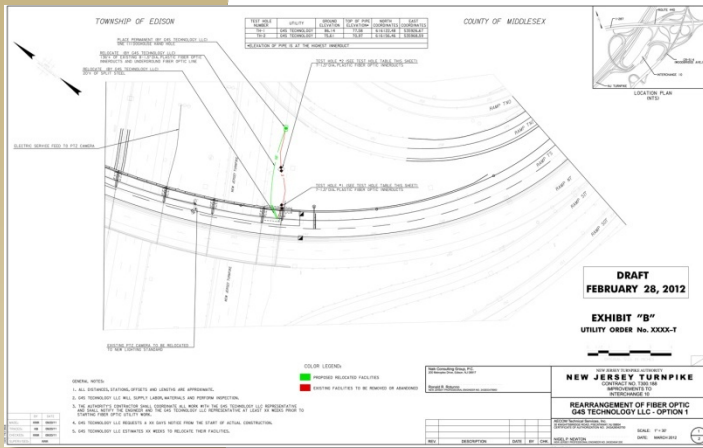
# New Jersey Turnpike Authority Interchange 10 Improvements, MP 88.7

Edison, New Jersey

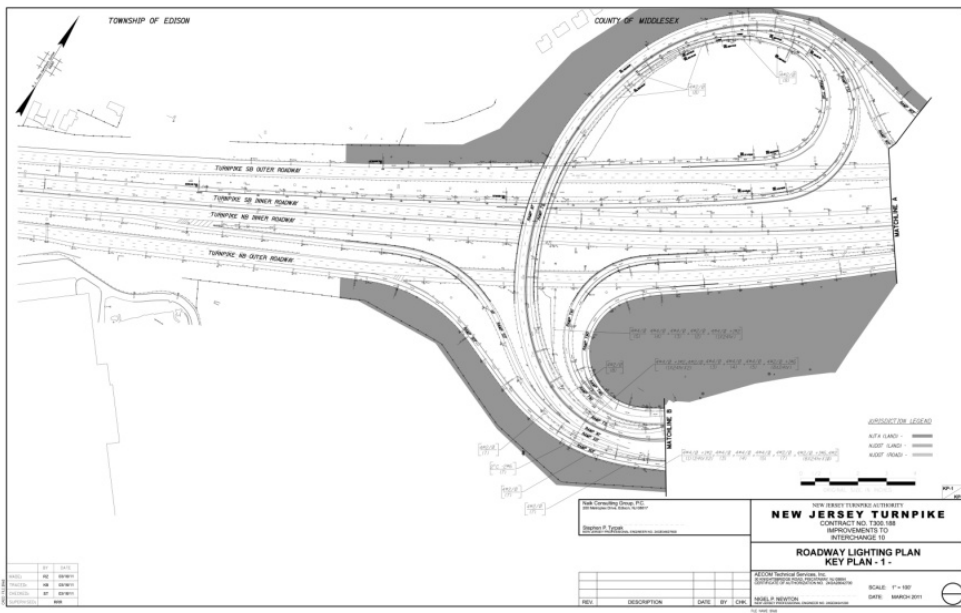


Naik Consulting Group, P.C. (NAIK) provided utility engineering services and roadway lighting for the improvements to NJ Turnpike Interchange 10 located in Edison, New Jersey. Improvements include the widening of the exit ramp (Ramp TS) from Toll Plaza to the NJTA mainline, widening of Ramp WT from I-287 Southbound to the Toll Plaza and the realignment of the egress ramps from the Toll Plaza east to Woodbridge Ave

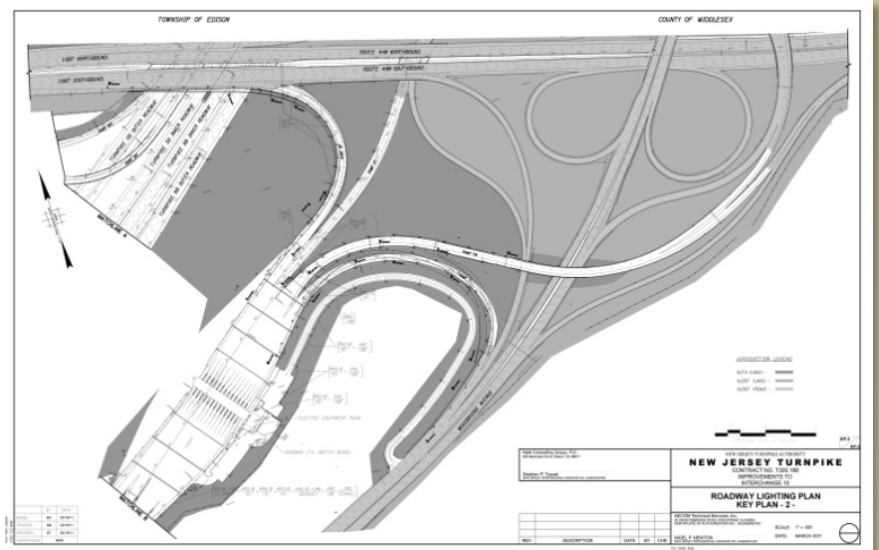
(Ramp TL) and east to the ramp over Woodbridge Avenue (Ramp TW).



Due to the proposed improvements, potential utility conflicts investigated included existing communication, water and gas facilities. Utility Orders were performed in conformance with Section 7.2.8, of the NJTA Procedure Manual. Key issues as they relate to the utility task for this project were: Identify all overhead and underground facilities within the project limits; Early Coordination with the Utility Companies and Agencies; Maintaining Communication, Electric and Gas facilities during construction. These included coordination with eight (8) utility companies: PSEG-Electric, Adesta, Verizon-Telephone, Elizabethtown Gas, Edison Township Sewer, Colonial Pipeline, Sunoco Petroleum, and Middlesex Water. Other responsibilities included the preparation of the initial utility contact letter, utility orders, checklists (Exhibit A), utility relocation plans (Exhibit B), utility cost estimates (Exhibit C), and the Utility Engineering Authorization Orders (UEAO), utility plans, supplemental specifications, and Engineer's Estimate. NAIK also retained a subsurface utility engineering company to perform ten (10) test holes for the project.



The roadway lighting tasks included the removal of several existing lighting standards, and installation of new lighting standard assemblies. Based on the existing roadway lighting at Interchange 10, a warrant analysis was conducted based on warranting conditions as depicted in Exhibit 7-1, warranting conditions for complete interchange lighting of the NJTA design manual. **NAIK** performed review of seven (7) previous lighting contracts to develop the existing lighting system layout, prepared warrant analysis reports, preparation of roadway lighting key plan, roadway lighting plans, roadway lighting wiring diagram, and roadway lighting schedule, a total of seventeen (17) plans sheets were prepared and submitted as part of the contract documents. Engineer's estimate, quantity calculations and supplemental specifications were also prepared for this project. The above roadway lighting documents were prepared in accordance with the Authority's Design Manual, Section 7, Lighting and Power Distribution Systems, Roadway Lighting Design Guide, October, 2005 and National Electric Code, National Fire Protection Association (NFPA), Publication Number NFPA 70. The project is currently under construction.



**Agency/Owner:**  
New Jersey Turnpike Authority

**Project Duration:**  
2009 - 2012