



KS Engineers, P.C.

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Route 36 at Flat Creek

New Jersey

PROJECT NAME

Route 36 at Flat Creek – Design

PROJECT OWNER

New Jersey Department of Transportation

PROJECT CLIENT

T & M Associates

START/END DATES

2001 – 2002



PROJECT DESCRIPTION

KS Engineers, P.C. (KSE) performed Final Scope Development Services for this drainage improvement project. KSE was responsible for the establishment of horizontal and vertical control, topographic and utility surveys, a subsurface geotechnical exploration program, and preparation of a Geotechnical Foundation Engineering Report and Pavement Design Report. The pavement recommendation included the thicknesses of the subbase, base, and wearing course, and the design of a new pavement box as per New Jersey Department of Transportation (NJDOT) procedures. During the project, NJDOT increased the scope of work to include Initial/Final Design and Construction Engineering Services. That work was scheduled to begin in the winter of 2003.

The project raised the profile of Route 36 in this area by up to five feet. KSE's design of the new embankment and pavement section required an innovative approach that did not increase the existing overburden, because of very poor existing soil conditions which included a clay stratum. A solution was developed that included the excavation of a portion of the existing fill and placement of lightweight fill in a ratio that did not increase the overburden.