

Schoolcraft Road Rehabilitation

Livonia, Michigan



Spalding DeDecker Associates, Inc., (SDA)

was retained by the City of Livonia to design the rehabilitation of Schoolcraft Road as part of their ongoing annual road improvement program. This program received full review and oversight by the City of Livonia Department of Public Works, was partially funded through the Michigan Department of Transportation (MDOT) Local Agency Program, and received full design oversight and review by MDOT. SDA provided all survey, design, and construction engineering services.

OWNER / CLIENT

City of Livonia

PROJECT START - END

May 2007 - November 2007

SDA PROJECT NO.

RB06-012

Road Design Engineering

The project included the rehabilitation of 0.31 miles of hot mix asphalt resurfacing including concrete pavement repair. Schoolcraft Road was prepared in accordance with MDOT standards and specifications and let as part of Governor Granholm's JOBS TODAY program in 2007. The road repair work was designed to meet MDOT, the American Association of State Highway and Transportation Officials (AASHTO), and the City of Livonia's standards and specifications. Designs addressed geometric features such as cross-slopes, ADA sidewalk upgrades, curb and gutter replacement, and minor drainage improvements.

SDA prepared a special provision for Maintaining Traffic tailored to the traffic volumes and safety needs for the street. Access was provided for residents and emergency vehicles throughout construction.

Road Construction Engineering

A Professional Engineer reviewed daily construction reports, verified quantities against design requirements, processed pay certifications, negotiated modifications and contractor claims, and maintained contract documentation. Construction technicians and engineers oversaw all work in accordance with the City of Livonia and the AASHTO standards and procedures; Schoolcraft Road was administered in accordance with MDOT policies and practices.

Design Survey and Construction Staking

SDA prepared a design survey for the portion requiring pavement reconstruction. Staking consisted of setting graded off-set stakes at regular intervals and producing cut sheets.