

## Engineering Services for Novi 2011 Neighborhood Road Program

Novi, Michigan



**Spalding DeDecker Associates, Inc. (SDA)** provided survey, design, construction observation and construction contract administration services to the City of Novi for rehabilitation of twelve concrete and asphalt roads in Novi subdivisions. The City's on-going annual program is focused on improving local streets, based on the current PASER rating, which prioritizes the roadways by condition.

The 2011 Neighborhood Road Program (NRP) concrete roadway work includes full-depth concrete panel replacements, partial and full-depth concrete repairs of longitudinal and transverse joints, and crack and joint sawing and resealing. The asphalt portion of the project includes sections of full-depth removal and replacement for very poor condition areas, with all other areas being rehabilitated via a 3-inch mill and overlay. Both projects included rehabilitation of all drainage structures and ADA ramp upgrades.

As part of the design services, SDA developed separate bidding packages for the asphalt and concrete roadways. We also prepared and submitted a permit application to the Wayne County DPS, which was approved for work within the Base Line Road right-of-way.

The Construction Engineering Department provided full-time Construction Observation for both projects during construction. They were responsible for the day-to-day observation of the field operations. They also orchestrated the interface and coordination between the Contractor and Public during construction. SDA provided daily construction observation reports produced on FieldManager software, along with digital photos. These reports were delivered to the City with electronic copies. The FieldManager information was used to track the project item quantities, and prepare Contractor Pay Estimates. Construction Engineering and Contract Administration ensured that all of the elements of the plans are constructed to specifications, and completed within the budget.

### SPECIAL FEATURES

SDA developed unique concrete pavement repair details and specifications specific to the local concrete streets. MDOT and County Road Commission style details were utilized as a starting point, and modified with input from the Michigan Concrete Paving Association and input from contractors. The result was a selection of details which match the nature of the roadways and will lead to a greatly improved roadway for a fraction of the price of reconstruction.

*Prior Existing Condition*



### OWNER / CLIENT

City of Novi

### PROJECT START - END

April 2010 – December 2011

Constructed Spring/Summer 2011

### SDA PROJECT NO.

NV10-001