

University of Toledo Pavement Management Program

Toledo, Ohio

Spalding DeDecker Associates, Inc. (SDA) was contracted by the University of Toledo to evaluate pavements maintained by the University, provide recommendations for repair improvements, and develop a network-wide five-year work plan. Cartégraph PavementView Plus was used in the development of the five-year work plan. The project included the following elements:

Pavement Inventory

SDA performed a network level inspection of the facility's pavement to determine pavement area, type, and basic condition and to select pavements to repair. The inspection included:

- A visual inspection of pavement conditions, including sidewalks
- Obtaining pavement cores, base samples and subgrade samples for analysis where existing data was unavailable
- Rating existing pavement conditions using the Pavement Surface Evaluation and Rating (PASER) System which is based on a visual examination and rating of pavement conditions
- Noted areas of poor drainage
- Noted general conditions of ADA ramps and surfaces and identified situations that may require further action

Evaluation and Report

Following the field inventory, SDA processed the data into both tabular and graphical summations of the collected information including:

- Preparation of exhibits using ArcViewGIS software linked to the pavement database to identify the various pavement sections and graphically present the use, priority, pavement type, and condition of each section
- Presentation of site photos of representative sections and ratings
- Used Cartégraph PavementView Plus to provide an analysis of the pavement Overall Condition Index (OCI), use, priority and classification for each segment area
- Developed repair costs based on current conditions
- Developed replacement costs for each section based on terminal conditions
- Provided a five-year backlog projection to show the results if no or insufficient maintenance, rehabilitation, or reconditioning is performed. The network OCI over this period was also determined.
- Prepared a report summarizing findings and general recommended repairs with relative costs

OWNER / CLIENT

University of Toledo

PROJECT START - END

February 2011 - Ongoing

SDA PROJECT NO.

NP11-015