Texas Woman's University Circulation and Drainage Project

Denton, Texas

Client
Texas Woman's University

Cost
$126,000

Date
2008 – 2009

Reference
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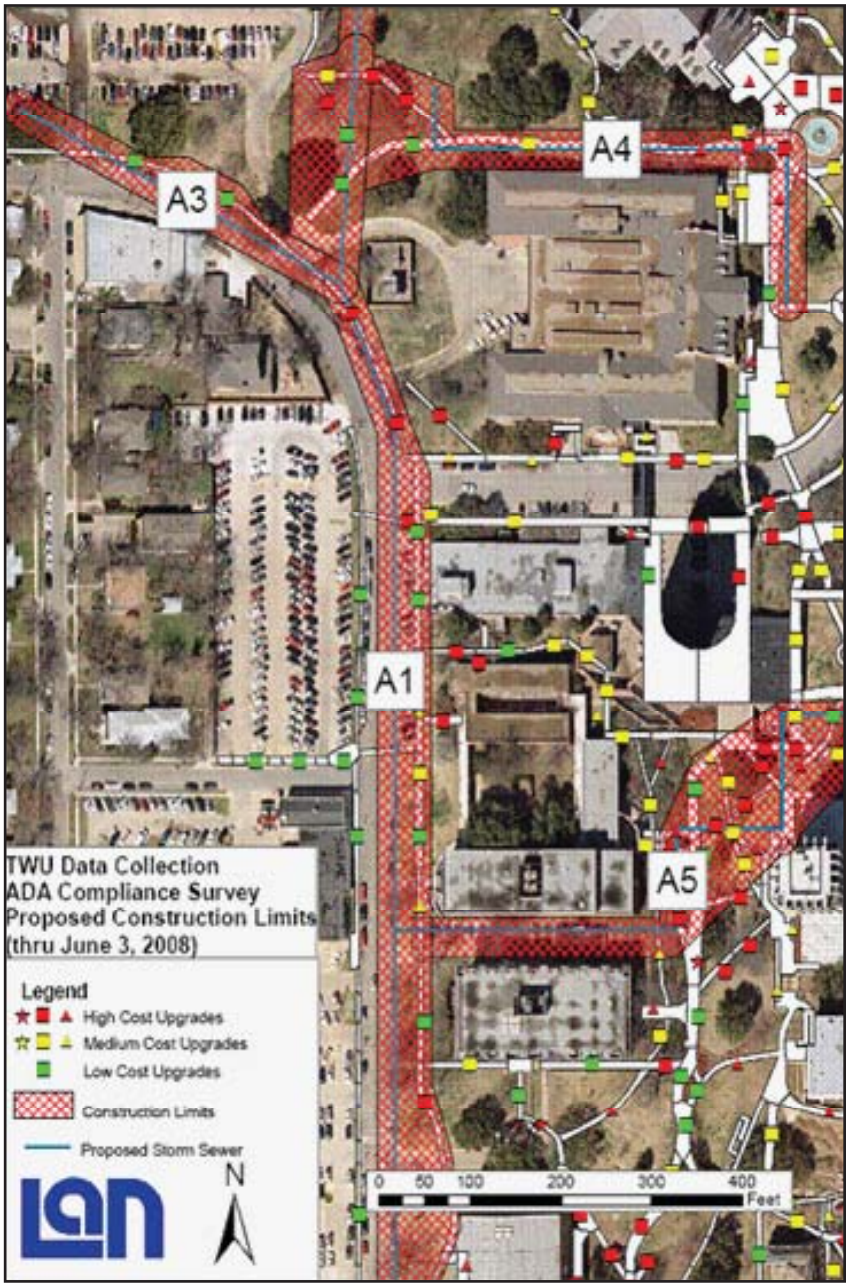
LAN was contracted to design storm drain improvements for the entire campus, including detention ponds, drop inlets, in-line detention and conveyance piping after Texas Women's University in Denton experienced serious flooding issues.

The campus is hilly and divided into several different watersheds, each of which was analyzed. Various phased improvements were designed, which also tied in to other projects planned by the City of Denton.

Since storm drain construction would require the removal and subsequent reconstruction of numerous sidewalks, the project also included a complete Americans with Disabilities Act (ADA) assessment task, to provide an assessment of the University's pedestrian infrastructure in designated portions of the campus, including the central north/south walkway, identifying infrastructure such as sidewalks and ramps that are missing or out of compliance with current ADA standards.

LAN created GIS data sets that detailed the accessible building entrances, accessible parking areas, sidewalk centerlines, marked crosswalks and curb ramps points. LAN performed a field assessment of the existing pedestrian infrastructure (sidewalk and curb ramps) in the project area for compliance with Texas Department of Licensing and Registration (TDLR) accessibility guidelines and maintenance condition.



This included walking the sidewalks in the study area, recording TDLR and maintenance deficiencies and transferring the data to the database. LAN developed a custom application for a handheld PDA with a series of drop-down menus for data entry. This made it possible to create a condition assessment database in the field, using a GPS device for location. Ultimately, expanded construction limits were proposed for the various drainage projects that would address nearby ADA compliance issues, and aid the University in improving overall accessibility.