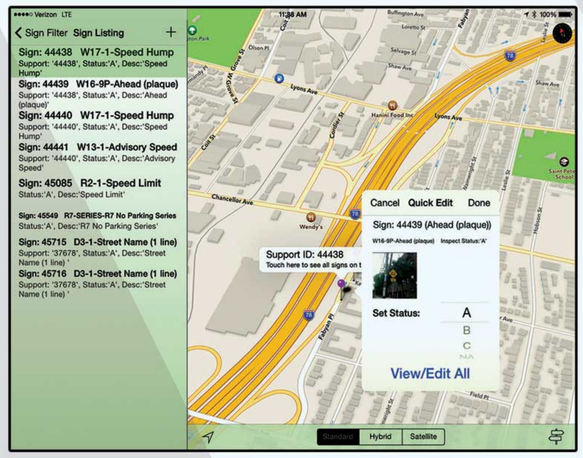
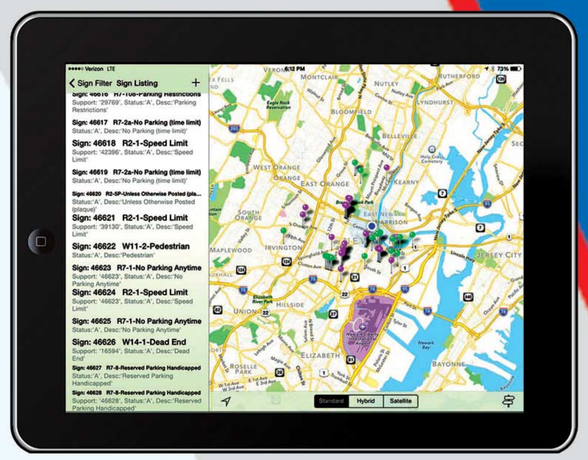
City of Newark Traffic Sign Management

The Federal Highway Administration has mandated that traffic signs meet the retroreflectivity requirements shown in the Manual on Uniform Traffic Control Devices. States, counties, and municipalities must evaluate their existing signs to determine their current retroreflectivity. Most governments do so using the Visual Nighttime Inspection methodology, which involves making a complete sign inventory, including a picture of each sign, and using that information to create a SignTRACK database that notes sign attributes such as latitude/longitude, size, orientation, and street name. For the City of Newark, New Jersey, partnering with GEOSPAN Corporation and SignCAD Systems, Inc., we developed a database that encompasses regulatory and wayfinding signs, and city signs located on Essex County roads.

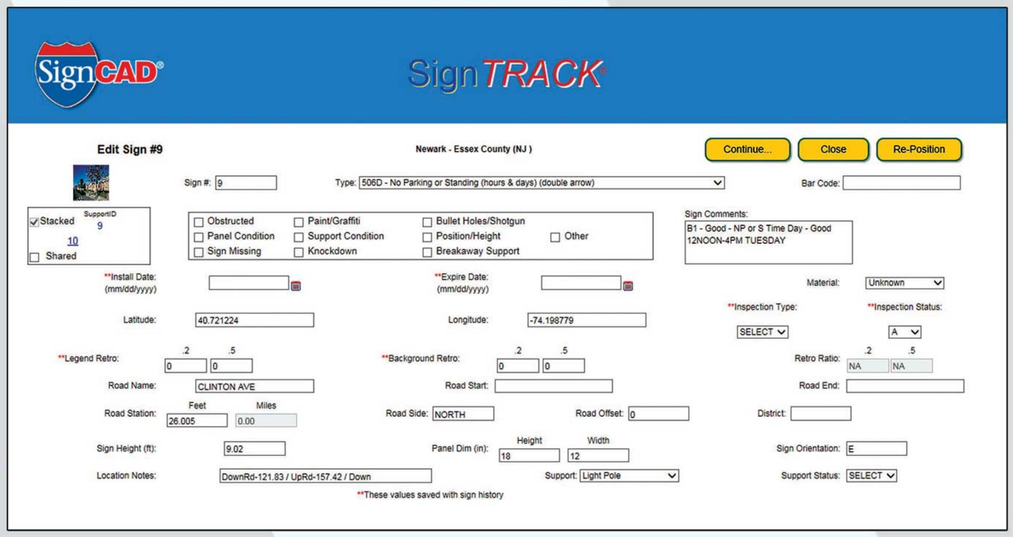
We uploaded the SignTRACK database to a secure website. Using an iPad, the surveyors, one driver and one observer, examine each sign individually as they drive along the road. The observer can enter the sign's current retroreflectivity level (good, fair, poor) via the iPad. The rating is updated immediately and saved. The SignTRACK software can sort the data by street name or sign number, and provide reports to analyze current sign conditions, plan for future sign replacement, and calculate installation costs for new or replacement signs. We also integrated the SignCAD software–which creates new signs and uses a new plotter/cutter to cut the sign components–and uploaded the sign information to the SignTRACK database.



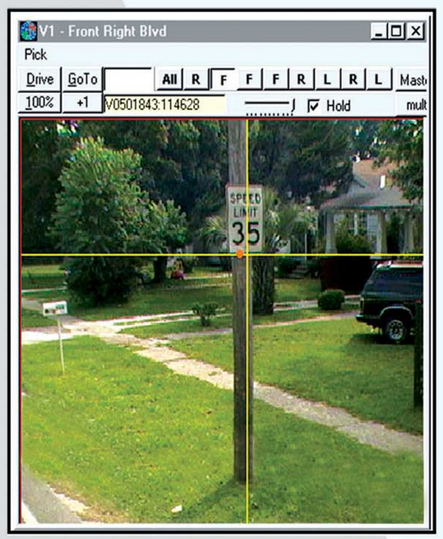
Sign Retroreflectivity Update Screen



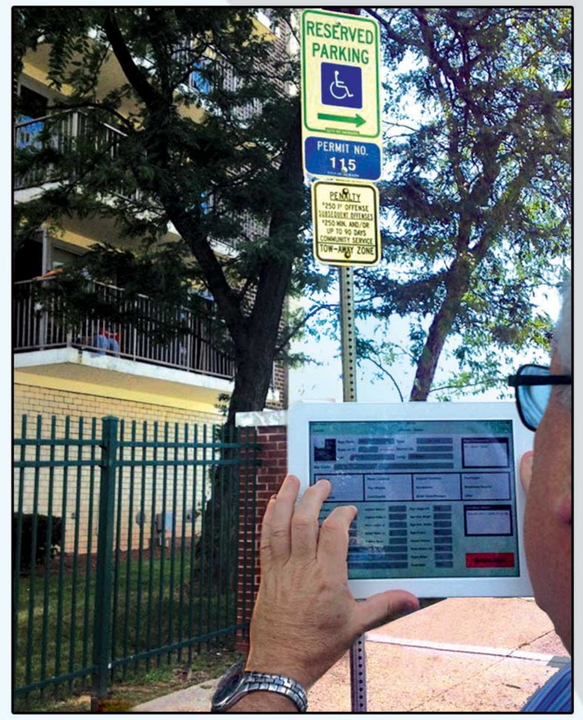
Location of Signs by Sign Number



SignTrack Desktop Sign Attribute Screen



Sign Height Measurement



Inserting Sign Attribute Information into SignTRACK Database

Sign Data Inventory Vehicle

City of Newark Traffic Sign Management

Client:
City of Newark
Department of Engineering
Division of Traffic and Signals
Newark, NJ

Entrant:
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KS Engineers, P.C.
Newark, NJ