

2.4.1

Use of Mobile GIS for Sign Inventories

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The West Virginia Department of Transportation (WVDOT), Traffic Engineering Division, is in the process of renovating the signing along each of its interstates and major corridors. To create an efficient project for both the consultants performing the work and the contractors, the corridors are broken into large segments for design and construction. HDR Engineering is performing three of these projects:

- I-77 from Ohio State Line to Ravenswood Interchange (40 miles 3348 GIS data points)
- US 50 from Parkersburg to Clarksburg (60 miles 3329 GIS data points)
- I-79 from Charleston to Weston (100 miles project is still being scoped)

As part of these sign renovation projects, a detailed inventory of every sign along the corridor, interchanges, and sideroads is undertaken. In addition, miscellaneous features, such as guardrail, major drainage features, and signal poles, is included in the inventory. In the past, WVDOT has utilized paper forms and a distance measuring device to perform the inventories.

To increase the efficiency and accuracy of the data collected for the sign renovations, HDR utilized Trimble handheld GPS equipment and custom data collection forms created using ArcPad Application Builder. After the data collection was completed, the GIS data was exported to Access to create customized inventory forms for submission to the WVDOT.