

Hackmann Road Improvements

City of St. Charles, Missouri

Hackmann Road is an important 1.5 mile urban collector in the city of St. Charles, providing access to the Early Childhood Family Education Center, Henderson Elementary School, Francis Howell North High School and Route 94/Rte 364. The existing roadway was two-lane asphalt pavement with open drainage and no pedestrian facilities. The location of the school facilities near the center of the project and the number of residential subdivisions necessitated continuous sidewalks and crosswalks for safety.



Hackmann Road at the entrance to Francis Howell North High School.

While employed with another consulting firm, David Ellermann acted as design engineer responsible for all aspects of design and production, as well as construction supervision. The project successfully improved both horizontal and vertical sight distances and improved a 90-degree turn midway through the alignment. The stormwater was collected and conveyed through enclosed drainage systems. The alignment also crossed a tributary



Hackmann Road looking east towards Muegge Road.

With subdivisions along the roadway throughout, gravity modular retaining walls were selected in order to preserve homeowners' lawns and to facilitate access to stormwater pipes placed between proposed sidewalks and the roadway. Improvements included signalization of one major intersection.

David also performed as survey party chief on the project, carrying out topographic,

hydraulic, utility, and right-of-way surveys.

Calendar Years Worked on Project: 1998-2003.