



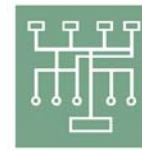
Associates



Engineers



Architects



Systems



Construction
Managers

**MAIN STREET
(216TH STREET
TO
SAUK TRAIL)
RICHTON PARK,
ILLINOIS**

**COOK COUNTY
HIGHWAY
DEPARTMENT
CHICAGO, IL**

The proposed Main Street improvement is from 216th Street on the north to 1.5 miles south to Sauk Trail. There are four different sections to the improvement of the road, including reconstruction of Main Street in three communities to municipal standards. The urban cross section included bituminous pavement (12 inch depth), maximum width of 42 feet face-to-face with barrier curb and gutter, an enclosed drainage system. In addition, design included modernization of the traffic signal at Sauk Trail, signing, pavement marking and landscaping as required.

The engineering contract was in two parts: a Phase I conceptual phase and a Phase II design with detailed plans and specifications, including the following: a full topographical survey and traffic counts, pavement cores for pavement analysis, traffic warrants for an IDS at 216th Street, an IDS for modification to signals at Sauk Trail, a design report, 2 at-grade railroad crossings with the EJ&E RR, attendance at municipal meetings, drainage, horizontal and vertical alignment, Right-of-way analysis, cost estimate, utility agency and municipal coordination, geotechnical investigations and a soils profile.

Drainage details were provided for existing storm sewer systems, culvert replacements and extensions, detention, compensatory storage, proposed outfalls and receiving storm system, a schematic showing existing and proposed drainage systems, an analysis of the proposed drainage system using the hydraulic gradient (providing a minimum of three feet of freeboard to the sub-grade), and profile views of the storm sewer showing all elevations.

