

PINGREE ROAD (US ROUTE 14 TO CONGRESS PARKWAY) CITY OF CRYSTAL LAKE, ILLINOIS



CHALLENGE

Reduce traffic congestion and long delays at a busy arterial intersection.

Pingree Road is a minor arterial route extending across the east side of Crystal Lake, providing connections to major east-west highways with regional access. As the City has grown in area and population, traffic demand on Pingree Road has outgrown the original two-lane rural road.

The City of Crystal Lake called on HLR to develop a plan to improve traffic flow and traffic safety. The project design included Pingree Road from south of US 14 to north of the Union Pacific / Metra Northwest rail line.

RESULTS

Construction of the project was completed in 2005.

Benefits of the proposed project include:

- Enhanced traffic flow
- Reduced delays
- Improved traffic safety

CONSTRUCTION BUDGET
\$2 MILLION

SOLUTION

HLR began with Phase I Engineering and a project development report. These included traffic flow and intersection traffic capacity analysis and stormwater management engineering analysis and design. Preliminary work also included an Environmental Class of Action Determination, a public hearing and property owner meetings.

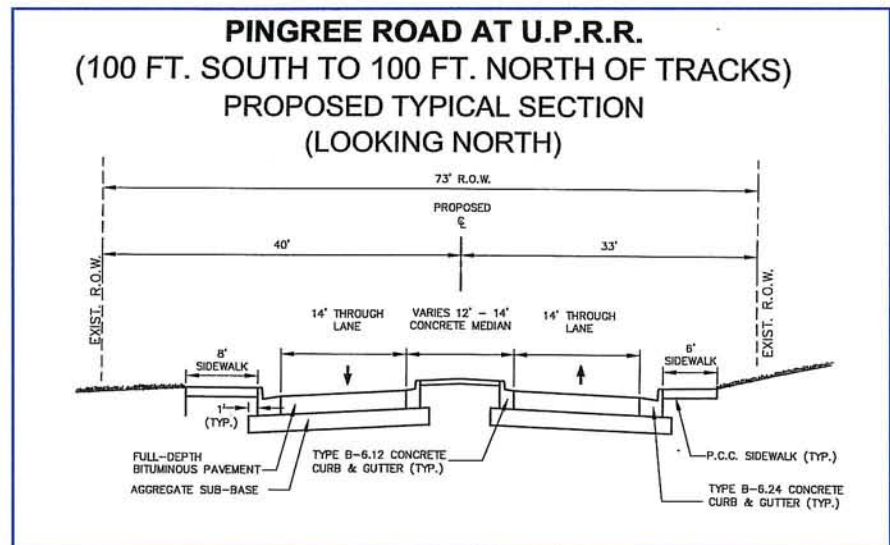
To gain approval for the project, HLR coordinated with regulatory agencies including:

- IDOT for Federal funding and state route involvements
- Illinois Commerce Commission and Union Pacific Railroad for railroad crossing involvements

HLR also provided Phase II detailed engineering design for the first stage of the project – US 14 to Cog Circle. Plans, specifications and estimates were provided including a detailed traffic management plan to detour traffic safely during construction.

Improvements designed include:

- Additional through-traffic lanes on Pingree Road
- New right turn lanes on US 14
- Improvement of stormwater drainage management
- Profile adjustment of over 4 feet to lower and smooth out a sharp vertical crest on Pingree Road
- New sidewalks
- New traffic signals with pedestrian push buttons and crosswalks
- Improvements to coordination between signal-controlled intersections



PLAN SHOWING PROPOSED LANES AND MEDIAN ON PINGREE ROAD