

# *Hutchison Engineering, Inc.*

**Since 1945**

**Jacksonville • Quad Cities • Peoria • Shorewood • Carbondale**

Since 1945, Hutchison Engineering, Inc. has provided civil engineering services to a wide range of clients on a variety of projects. Services for DOTs and Local Agencies have included Phase I - Project Report/NEPA, Phase II – Design Plans, Specifications and Estimates, Phase III - Construction Inspection/Material Testing engineering. Hutchison Engineering, Inc. routinely provides traffic engineering services to various local agency clients. Our experience includes intersection design studies and traffic studies to determine traffic signal and turn lane warrants, and traffic management plans. We have the technical expertise to provide the following services:

1. Traffic Counting
2. Crash Analysis
3. Traffic Signal Warrant Analysis
4. Turn Lane Warrant Analysis
5. Traffic Safety Studies
6. Intersection Option Development
7. Urban and Rural Intersection Design
8. Round-about Design
9. Traffic Signal Design
10. Traffic Management/Staging Plans

The following is a description of a few of our projects that show relevant experience for the On-Call Services for Traffic Engineering.

**Project:** 19<sup>th</sup> Street Reconstruction  
**Client:** City of Moline, IL  
**Responsibility:** Phase I and II Engineering

Hutchison Engineering is providing Phase I and II preliminary engineering services for this \$3.3M ITEP funded bike trail/sidewalk project. The project consists of constructing 5 blocks of urban two-way cycle track adjacent to a pedestrian sidewalk. To construct the trail from 7<sup>th</sup> Ave. to River Drive, a "road diet" to reduce the number of traffic lanes will be required to allow space for the cycle track. The project includes curb & gutter, PCC cycle track/sidewalk, HMA resurfacing, landscaping, and traffic signals. HEI is providing services including traffic studies, intersection design studies for five intersections, geometric option development, IDOT and FHWA coordination, environmental coordination, utility coordination, railroad coordination, public involvement, developing an IDOT approved Project Development Report, and final plans, specifications and estimates for a state letting.

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**Project:** Rock Island Parkway/85<sup>th</sup> Ave. Intersection Reconstruction  
**Client:** City of Rock Island, IL  
**Responsibility:** Phase I and II Engineering  
Hutchison Engineering provided Phase I and II preliminary engineering services for this \$2.5M federally funded intersection reconstruction project. The project consisted of the complete reconstruction of the intersection to construct buried left turn lanes and the addition of traffic signals. The work included earthwork, PCC pavement, storm sewer, traffic signals, and other collateral work. HEI provided Phase I and II preliminary services including traffic studies, intersection design study, pavement design, IDOT and FHWA coordination, environmental coordination, utility coordination, railroad coordination, public involvement, developing an IDOT approved Project Development Report, and final plans, specifications and estimates for a state letting.

**Project:** Pioneer Parkway/University St. Intersection Reconstruction  
**Client:** City of Peoria, IL  
**Responsibility:** Phase I and II Engineering  
Hutchison Engineering provided Phase I and II preliminary engineering services for this \$4.0M federally funded intersection reconstruction project. The project consists of the complete reconstruction of the intersection to correct alignment issues and make the intersection safer. The work includes earthwork, PCC pavement, storm sewer, traffic signals, shared use path, sidewalks, and other collateral work. HEI provided Phase I and II preliminary services including traffic studies, intersection design study, pavement design, IDOT and FHWA coordination, environmental coordination, utility coordination, railroad coordination, public involvement, developing an IDOT approved Project Development Report, and final plans, specifications and estimates for a state letting.

**Project:** CH 34 (Peace Rd.)/IL 64 Intersection Reconstruction  
**Client:** Dekalb County, IL  
**Responsibility:** Phase I and II Engineering  
Hutchison Engineering provided Phase I and II preliminary engineering services for this federally funded intersection reconstruction project. The improvement involved the widening and resurfacing of the intersection and the north leg of Peace Rd. to provide a five-lane section in order to improve traffic safety and operations at this high accident intersection. Hutchison Engineering provided services including traffic counting, capacity analysis/auto-turn movements, traffic signal and turn lane warrant analysis, traffic signal design, geometric design, intersection design study, development of a Project Development Report, and final plans, specifications, and estimates for a state letting.

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**Project:** CH 43/CH 33 Intersection Reconstruction

**Client:** LaSalle County, IL

**Responsibility:** Phase I and II Engineering

Hutchison Engineering provided Phase I and II preliminary engineering services for this federally funded intersection reconstruction project. The improvement involved the widening and resurfacing of the intersection to provide important safety measures to reduce the severe accidents occurring at this intersection. Hutchison Engineering provided services including traffic counting, capacity analysis/auto-turn movements, traffic signal and turn lane warrant analysis, traffic signal design, geometric design, intersection design study, development of a Project Development Report, and final plans, specifications, and estimates for a state letting.

**Project:** Ridge Rd./Holt Rd. Intersection Reconstruction

**Client:** Kendall County, IL

**Responsibility:** Phase I and II Engineering

Hutchison Engineering provided Phase I and II preliminary engineering services for this federally funded intersection reconstruction project. The improvement included the reconstruction of Ridge Rd. from a two-lane section to a five-lane section, while Holt Rd. was widened to provide left turn lanes. The improvements were required to improve the capacity and safety of the intersection. Hutchison Engineering provided services including traffic counting, intersection geometric design, intersection design studies, capacity analysis, turn lane storage calculations and auto-turn movements, traffic signal warrant analysis, and crash analysis.

**Project:** CH 15/CH 4 Intersection Reconstruction

**Client:** LaSalle County, IL

**Responsibility:** Phase I and II Engineering

Hutchison Engineering provided Phase I and II preliminary engineering services for this federally funded intersection reconstruction project. The improvement involves the widening and resurfacing of the intersection to provide important safety measures to reduce the severe accidents occurring at this intersection. The improvements were required to improve the capacity and safety of the intersection. Hutchison Engineering provided services including traffic counting, intersection geometric design, intersection design studies, capacity analysis, turn lane storage calculations and auto-turn movements, traffic signal warrant analysis, and crash analysis.



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**Project:** IL 9 Reconstruction  
**Client:** Illinois Department of Transportation, District 5  
**Responsibility:** Phase I & II Engineering

Hutchison Engineering was selected by IDOT – District 5 to provide Phase I and II preliminary engineering services for this \$32M, 6.2 mile urban corridor improvement project. The improvement involves the resurfacing/reconstruction of the roadway, reconstruction of ADA ramps/landings, and the addition of bicycle lanes and multi-use paths. The engineering services include pavement evaluation and HMA thickness design, design of 350 sidewalk ramps to meet the accessibility requirements of the City, IDOT, Illinois Accessibility Code, and the United States Access Board (PROWAG), sidewalk and trail design, four intersection design studies, and intersection/traffic signal design at 23 intersections. The intersection design studies include the design and analysis of the operational efficiency of round-a-bouts. Hutchison Engineering is responsible for conducting coordination with IDOT, City of Bloomington, railroad companies, utility companies, etc. as well as leading a public involvement campaign following IDOT's Context Sensitive Solutions process.

**Project:** US Route 30 (IL 47 to IL 31) Corridor Expansion  
**Client:** Illinois Department of Transportation  
**Responsibility:** Phase I Preliminary Engineering

Hutchison Engineering provided Phase I preliminary engineering services for this \$59M corridor improvement project. The study included intersection geometric design, intersection design studies, traffic counting, capacity analysis, turn lane storage calculations and auto-turn movements, traffic signal warrant analysis, and crash analysis.