

SPECIAL ACHIEVEMENT AWARD WINNERS



■ STUDIES, RESEARCH AND CONSULTING

SAM SCHWARTZ ENGINEERING, PLLC **Master Plan for the Wicker Park Bucktown SSA**

Owner: Wicker Park Bucktown SSA #33
Consultants: Interface Studio / Civic Economics

Wicker Park Bucktown is located on the northwest side of Chicago and is one of the country's most vibrant neighborhoods with flourishing art, restaurant, and retail scenes. As part of the neighborhood's master planning process, Sam Schwartz Engineering created a plan that significantly enhanced the sustainability of the neighborhood's transportation system. The plan reduced the neighborhood's dependence on the automobile, while improving the safety and efficiency of biking, walking, and transit. Implementation has continued consistently since the plan was finalized. Many of the recommendations have not been applied before in Chicago and the plan was recognized for its innovative thinking.



T. Y. LIN INTERNATIONAL **I-57 at I-294 Interchange - Phase I**

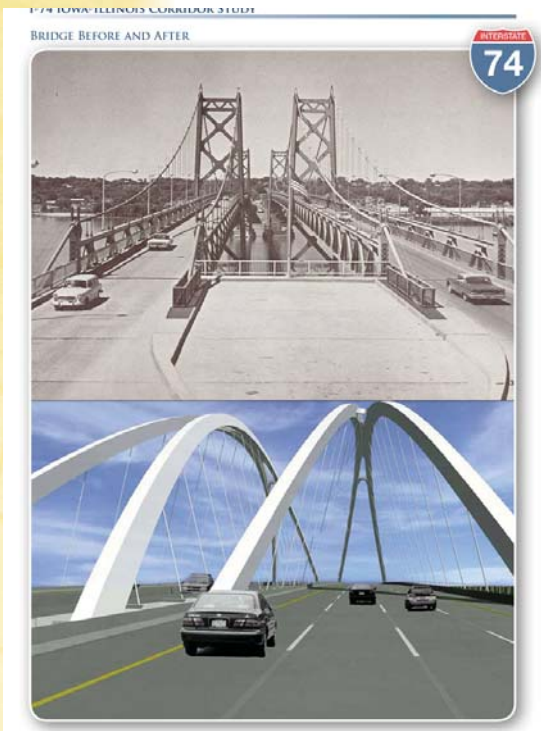
Owner: Illinois Department of Transportation, District One
Consultants: American Surveying & Engineering, P.C. / Geo Services, Inc. / Huff & Huff, Inc. / Images, Inc. / Lin Engineering, Ltd. / Planning Communities, LLC / SEC Group, Inc.

T.Y. Lin International was selected by the Illinois Department of Transportation to complete Phase I (30% engineering), including amending an Environmental Assessment, to connect I-57 with I-294, where no interchange had ever been constructed.

The \$647M project involved three miles of Interstate, inspection, and design of 14 bridges, CD roads, flyover bridges, toll plazas, drainage systems, environmental issues and public and agency involvement with two highway agencies, seven communities and numerous citizens.

The T.Y. Lin International team, including seven subconsultants, along with the extraordinary cooperation of IDOT, Illinois Tollway, and FHWA achieved Design Approval in twelve months.

SPECIAL ACHIEVEMENT AWARD WINNERS



CH2M HILL, Inc. I-74 Iowa Illinois Corridor Study

Owner: Iowa and Illinois Departments of Transportation
Consultants: Jacobs Engineering / Rosales & Partners / Martinez Corp. / Donohue & Associates / Tallgrass Historians / ASC / Terracon Consultants / TEAM Services / RDG Planning & Design

The I-74 study involved engineering and environmental studies for an 8-mile corridor extending from Moline, Illinois, across the Mississippi River into Bettendorf and Davenport, Iowa. The project includes construction of a new improved crossing of the Mississippi River.

The project began with a rigorous investigation of transportation problems. CH2M HILL developed and evaluated an array of alternative solutions designed to the transportation needs in the I-74 corridor. Solutions were developed and evaluated with input from agencies, officials, and the public. In this manner, solutions were technically sound, minimized community and environmental impacts, and complemented community goals and objectives.



■ BUILDING/TECHNOLOGY SYSTEMS

HENNEMAN ENGINEERING, INC. Illinois American Water – Champaign Treatment Plant

Owner: Illinois American Water
Consultants: Hazen and Sawyer, P.C. / River City Construction / Foster-Jacobs Inc. / G. A. Rich & Sons, Inc. / LangeTech Inc.

Henneman Engineering provided the HVAC, plumbing, and fire protection design for multiple buildings throughout the facility. Air conditioning for the Administration Building was provided using water source heat pumps, with well water as the source. The conditioning system for the Pipe Gallery within the Treatment Facility Building was designed to maintain maximum space conditions of 40% relative humidity year round. All systems were designed for LEED certification

SPECIAL ACHIEVEMENT AWARD WINNERS



HENNEMAN ENGINEERING, INC. **University of Illinois - Micro and Nanotechnology Laboratory**

Owner: University of Illinois at Urbana-Champaign
Consultants: Teng & Associates / Sodemann & Associates /
CORE Construction / Coleman Electric / A & R Mechanical /
F. J. Murphy & Son

Henneman Engineering provided the mechanical, electrical, plumbing, process piping, and information technology design for the new 48,500 square foot laboratory addition and 14,300 square foot office renovation. The additional space offers room for researchers from other disciplines to work collaboratively. Henneman Engineering developed creative strategies to reclaim the energy in the exhaust stream from the laboratory's many fumehoods. The design also ensured that indoor air quality standards were met, ensuring a safe environment for researchers. The University now has a world renowned research facility befitting the stature and accomplishments of the research staff of Micro and Nanotechnology Laboratory.



■ STRUCTURAL SYSTEMS

PRIMERA ENGINEERS LTD. **Navy Pier Plaza Deck Replacement (East End)**

Owner: Metropolitan Pier and Exposition Authority (MPEA)

For over ten years, Navy pier has been the place where all of Chicago-land and tourists alike come together to enjoy all the fun and beauty of a day on Lake Michigan. The \$6,000,000 Plaza Deck renovation project at the historic Navy Pier features new tourist attractions consisting of entertainment, shopping, dining, cruises and events. This 67,800 sq. ft. renovation project included demolition of existing structures and replacement of new flat plate elevated deck slab, medallions, loading and handicap ramps, topping slab, flag poles, perimeter step slab, repairs to existing foundation systems, new beer garden planter walls and utilities relocation. Primera provided structural engineering and construction administration services for the fast-tracked replacement project located at the East end of Navy Pier.

SPECIAL ACHIEVEMENT AWARD WINNERS



URS CORPORATION

Wisconsin Street Bridge over the Fox River

Owner: Wisconsin Department of Transportation
Consultants: Romanesko Engineering, LLC /
Soil And Engineering Services, Inc. / KL Engineering, Inc.

The Wisconsin Street Bridge provides a cost effective crossing of the heavily navigated Fox River in the heart of Oshkosh. With its bascule span providing a focal point; the piers, houses and approach spans feature architecturally consistent details throughout - enabling the structure to meet the City's desire for a signature bridge.

The bascule span is structurally efficient. Unique features were utilized to provide lightweight front arms and ensure machine-precision during fabrication of critical components. Configuration provides for both safety and reduced maintenance.

State-of-the-art electrical controls coupled with an onboard machinery system provide for highly reliable, smooth and simple operation.



ALFRED BENESCH & COMPANY

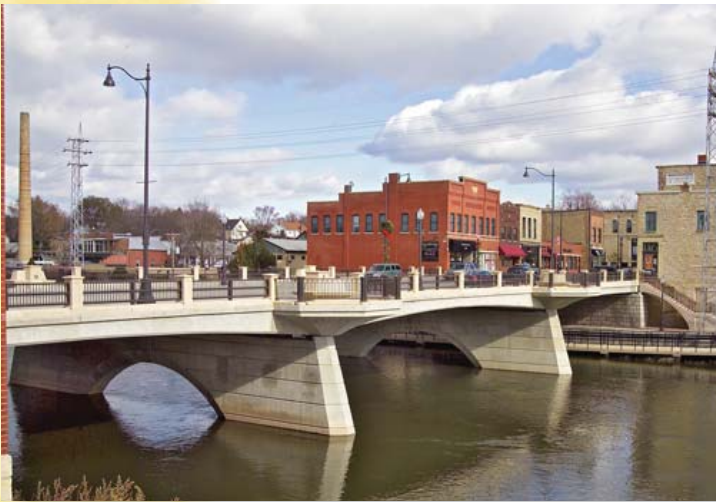
Abraham Lincoln Memorial Bridge Rehabilitation

Owner: Illinois Department of Transportation
Consultants: Lin Engineering, Ltd.

This \$40 million project was a Phase I/Phase II rehabilitation of I-39 over the Illinois River Valley, which included the 620 foot-long tied arch structure over the river. This structure was experiencing problems due to poor performance of the existing precast deck panels. The constant emergence of potholes created safety concerns and frequent lane

closures to facilitate repairs. The scope included total deck replacement, bearing replacement, bridge seats modifications and substructure repairs. Several project challenges were successfully addressed, including: an aggressive design and construction schedule; bearing seat width to satisfy seismic concerns; substructure inspections; and arch deflections during staged construction.

SPECIAL ACHIEVEMENT AWARD WINNERS



H. W. LOCHNER, INC. Wilson Street Bridge Replacement over the Fox River

Owner: City of Batavia
Consultants: Lane Allen Architects, Inc. / Huff and Huff, Inc.
/ Johnson-Lasky Architects / Kabbes Engineering, Inc. /
Stacy Ferguson Land Survey / EJM Engineering, Inc.

The Wilson Street Bridge is a three-span structure over the Fox River in Batavia, Illinois. The project objectives included an aesthetically pleasing replacement structure complementing the City, providing connection to the Fox River, and revitalizing the downtown area around the

bridge. The project is located within an urban corridor and environmentally-sensitive setting making it necessary to consider the impact of the project's construction on its surroundings. The replacement structure consists of a three-span parabolically haunched post-tensioned concrete bridge with arched piers. Aesthetic enhancements include architectural lighting, railings, sidewalk enhancements, planters, precast benches, river observation patios, and outlooks.



ENVIRONMENTAL

SCI ENGINEERING, INC. Collinsville Crossing Free Product Recovery System

Owner: Collinsville Acquisitions, Inc. / Koman Properties

As part of a major redevelopment project, Collinsville Acquisitions/Koman Properties retained SCI to provide peer review consultation on a significantly impacted site proposed for redevelopment in Collinsville, Illinois. SCI's review resulted in a savings of over \$500,000 in unnecessary soil remediation costs. SCI was then retained

and designed a cost-effective vacuum-enhanced free product recovery system that uniquely fit the site conditions. These activities were performed on a demanding schedule to ensure that its construction was integrated with other construction on site. This IEPA-approved system resulted in the conversion of a blighted Brownfield area into a highly visible revenue-producing retail center.

SPECIAL ACHIEVEMENT AWARD WINNERS



■ WATER AND WASTEWATER

AECOM TECHNOLOGY CORPORATION Calumet Isolation Chamber

Owner: Metropolitan Water Reclamation District of Greater Chicago

Consultants: Primera, Inc. / Rubinos & Mesia / Ground Engineering / Cushing & Co. / Charles C. S. Song Co., Inc. / Accurate Survey / Calumet Testing Services / Metcalf & Eddy / Construction Control Services / Henry Stewart / Omer Dix / Fairfield Engineering / Intelligent Design & Construction (IDCS)

The Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) desired to provide hydraulic protection of the Calumet TARP Pumping Station, in the instance of a catastrophic failure. This was achieved by installing redundant valving and constructing a 350-foot dividing wall in the wet shaft, providing complete hydraulic separation of the existing pump stations. The hydraulic isolation was done while keeping the tunnel system in service. The project provided protection in the event of valve failure during a catastrophic condition - allowing the MWRDGC to continue to use the facilities to protect water quality, public health, and homes.



■ TRANSPORTATION

KASKASKIA ENGINEERING GROUP, LLC Belleville Square Streetscape

Owner: City of Belleville

Belleville is centered on a historic downtown traffic circle referred to as "the Square". The Square Streetscape Project was Phase III of an overall beautification of the downtown district and included improvements to the existing infrastructure including: sidewalks with decorative concrete accents, planters and landscaped areas, decorative lighting, art pedestals, curb and gutters, roadway

geometrics, way-finding and directional signage, and roadway profile improvements. The traffic circle at the intersection of Main Street and Illinois 159 which serves as a major transportation corridor for truck traffic was converted into a roundabout to increase safety and efficiency.

SPECIAL ACHIEVEMENT AWARD WINNERS



TRANSYSTEMS **Sheridan Road Reconstruction and Enhancement**

Owner: Village of Wilmette
Consultants: DLK Civic Design / Great Lakes Soil & Environmental Consultants

The Sheridan Road project is located between 10th Street and Isabella Street in the Village of Wilmette and City of Evanston, a total distance of 2.16 miles. Over 17,000 motorists travel this route that parallels Lake Michigan, Baha'i House of Worship, Gillson Park and Wilmette Harbor. The roadway was reconstructed to provide two through

lanes, a bi-directional center turn lane, and two bike lanes. The new roadway is 1-foot narrower than the existing 4-lane section to protect hundreds of mature parkway trees. The center turn lane improves safety for users accessing the 135 drives and 22 side streets. Bike lanes were added to accommodate the many bicyclists.



JACOBS / HDR / HOMER L. CHASTAIN & ASSOCIATES

I-88 Reconstruction - IL 83 to York Road

Owner: Illinois State Toll Highway Authority
Consultants: American Surveying Consultants / D. B. Sterlin Consultants / Huff and Huff / Wang Engineering / Singh and Associates / Gandhi and Associates / Lin Engineering / 2IM Group / Faithful and Gould / Apex Consulting Engineers / Delta Engineering / Omega Engineering / Great Lakes Soil & Environmental Consultants / American GeoEngineering / Everest Engineering Company / Crawford, Murphy & Tilly / Primera Engineers

The Reagan Memorial Tollway (I-88) Rebuild and Widen Project involved construction of mainline pavement, ramps, bridges, retaining walls, noise barriers, a toll plaza, and the addition of two mainline lanes from IL 83 to York Road. The project also included reconstruction and widening of 22nd Street. Construction was separated into five contracts for a total budget cost of \$78.2 million.

Maintenance of traffic during construction activities was extremely complicated due to reconstruction of the toll plaza, a 20-foot shift in the I-88 mainline alignment, and the need to maintain three through lanes in each direction at all times.

SPECIAL ACHIEVEMENT AWARD WINNERS



CRAWFORD, MURPHY & TILLY, INC. **Airfield Pavement Panel Replacement** **2005-2008**

Owner: Metropolitan Washington Airports Authority
Consultants: R. W. McQueen & Associates / Burns Engineering / Cervantes & Associates / Thomas L. Brown Associates

For more than 25 years, CMT has been completing successful airfield pavement evaluation and design projects for the Metropolitan Washington Airports Authority (MWAA). For the Airfield Pavement Panel Replacement 2005-2008 task order project, CMT completed visual

inspection of the entire airfield pavement complex – all runways, taxiways and aprons – and then used that data, tempered with knowledge of airfield operational and budget constraints, to define pavement rehabilitation projects targeted at the most highly-valued pavements that were in the most need of repair. Four major rehabilitation projects valued at \$23.1M were designed and constructed as part of the effort.



PATRICK ENGINEERING INC. AND **BOLLINGER, LACH & ASSOCIATES, INC.** **Algonquin Road Reconstruction and** **Widening**

Owner: McHenry County Division of Transportation
Consultants: Bollinger, Lach & Associates / Mathewson Right of Way Company / Gandhi & Associates / Hitchcock Design Group / Planning Resources, Inc. / Lohmann Golf Designs, Inc.

Patrick Engineering was retained by the McHenry County Division of Transportation to prepare plans for the

reconstruction and widening of Algonquin Road from IL Route 47 to Randall Road. The purpose of the project was to improve safety and alleviate congestion.

Patrick utilized a comprehensive roadway design process, preparing contract plans, specifications, and estimates, for the approximately five mile project. The roadway was widened from a historically rural two lanes to a modern five lanes roadway with a raised landscaped barrier median. Multiple complex design elements were encountered including sensitive environmental issues, extensive utility coordination needs, and thought-provoking public dialogue.

SPECIAL ACHIEVEMENT AWARD WINNERS



■ SPECIAL PROJECTS

ENTRAN, LLC **I-88 Reagan Tollway Program Management**

Owner: Illinois Tollway / DuPage County Division of Transportation

The I-88 Reagan Memorial Tollway Program Management project from IL Route 59 to Veterans Memorial Tollway began in 2002 and was incorporated into the Illinois Tollway's 2004 Congestion-Relief Program (CRP — Open Roads for a Faster Future). It was among the first to utilize program management to coordinate the efforts of three agencies, six designers and seven separate contracts constructed over a three year period. The project was a successful partnership between the Tollway and DuPage County that demonstrates both agencies' commitment to serving the local community and set the precedent for communication, cooperation and cost-effective design on future CRP projects.



■ ENERGY

FEHR-GRAHAM & ASSOCIATES **EcoGrove Wind Project**

Owner: EcoGrove Wind, LLC
Consultants: Natural Resource Consulting, Inc. / Noise Solutions by Greg Zak, Inc. / Schomer and Associates, Inc. / Testing Service Corporation / University of Illinois, Department of Anthropology / Western EcoSystems Technology, Inc. / Barr Engineering Company / Christopher Fye & Associates / HDR, Inc. / REALTIME Utility Engineers

The EcoGrove Wind Project is a 100 megawatt (MW) wind energy conversion facility consisting of sixty-seven 1.5-MW turbines, manufactured by Acciona Windpower. The project was developed over 8,000 acres in northwestern Stephenson County, Illinois, with an estimated construction cost of \$250 million. Fehr-Graham & Associates was involved in all phases of the EcoGrove Wind Project from Project Development, Environmental Permitting, and Design through Construction. Fehr-Graham was involved in the coordination of a variety of engineering services among numerous contractors and consultants, and the reliable and timely delivery was instrumental to the successful completion of the EcoGrove Wind Project.