

# HIGHLIGHTS

## DRESBACH BRIDGE REPLACEMENT PROJECT



The I-90 bridge over the Mississippi River, located between Dresbach, Minnesota and Onalaska, Wisconsin, is nearing the end of its useful life and replacement of the existing bridge will be necessary in the coming years. In addition to replacing the bridge, the three-year preliminary design project considered the function and safety of the interchange on the Minnesota side of the river.

Yaggy Colby Associates was a prominent member of the consultant team retained by the Minnesota Department of Transportation (Mn/DOT) and the Wisconsin Department of Transportation (WisDOT) to conduct the preliminary design study to determine the configuration and design of the new interchange and the type of bridge structure needed to replace this important river crossing. Yaggy Colby Associates was responsible for the analysis and preliminary design of the new interchange. Many interchange alternatives were developed and evaluated by Yaggy Colby Associates as well as a Technical Advisory Committee consisting of representatives of the consultant team, the Federal Highway Administration, Mn/DOT and WisDOT.

The Dresbach bridge and its approach roadways are adjacent to the Upper

Mississippi River Wildlife Refuge. In addition to this natural resource, the roadways sit at the base of scenic river bluffs and share the limited land with the Canadian Pacific Railway, one canoe launch, two boat launches and a Mn/DOT rest area/travel center. The Mississippi River Bike Trail passes through the area and wetlands and floodplain are present on the project. Impacts to all of these items are being considered as the project nears completion. The extensive number, length and height of walls required have been estimated at over 270,000 square foot at an anticipated cost of nearly \$11 million.

Yaggy Colby Associates' design of the interchange has included alternative development, evaluation and selection, geometric layout preparation, development of cross sections, retaining wall design, and construction staging design and traffic control. The firm also provided surveying, traffic counts, origin/destination studies, utility coordination services as well as assisting with the public involvement process.

When final approvals have been obtained, this \$165 million project will proceed to final design and construction.



YAGGY  
COLBY

ASSOCIATES

ENGINEERS

LANDSCAPE  
ARCHITECTS

SURVEYORS

PLANNERS

JUNE 2010

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# IOWA DOT EMBRACES LEED



The Iowa Department of Transportation has embraced the USGBC's LEED (Leadership in Energy and Environmental Design) rating system as the benchmark for the design of new buildings in their Safety Rest Area program.

Yaggy Colby Associates conducted a study in 2009 that demonstrated how, with minor adjustments in overall design and specifications, the Rest Area Building Prototype designed by the firm in the late 1990's could achieve a LEED Certified or LEED Gold level of certification.

Considering that rest area buildings are inherently designed to be durable and require relatively low maintenance, the existing prototype design used throughout the state became a very good candidate to explore how much of an additional investment would be required in order to pursue the coveted LEED Certification, which is the ultimate way of demonstrating how "green" and environmentally friendly a building really is.

Yaggy Colby Associates' study included a thorough analysis of building systems and components, including items such as: site selection, native landscaping, use of regional building materials, re-use and recycling of previously used

materials, natural lighting, reduced water usage, high efficiency HVAC systems, occupancy sensors for lighting, etc.

Once completed and presented to Iowa DOT leaders, the study became the catalyst for a re-design of the building prototype and its specifications into a "LEED friendly" building that will become the new standard for rest area replacement and construction, beginning with implementation in 2010.

With an expected 30 to 40 year building service life for each new rest area building, the energy and water usage savings alone have the potential for saving the State of Iowa not only considerable operating costs, but also highlighting the Iowa DOT's commitment to the environment and conservation for generations of travelers to come.

For a sampling of the firm's past and current rest area building projects, visit: <http://www.iowadot.gov/maintenance/restareaposters.html>. Contact Yaggy Colby Associates for more information on how we can help you achieve LEED Certification for your project.

## NEW PROJECTS

### MINNESOTA

*TH 63 and 6th Street S. Signal  
Stewartville, Minnesota*



*Imagine Slaterly/Eastside  
Rochester, Minnesota*



*Mayo Rain Garden Study  
Rochester, Minnesota*



*Winona County Flood Projects  
Winona, Minnesota*



*CSAH 25, 13, and 20 Roadway Design  
Houston, Minnesota*



*2010 Capital Improvement Plan  
Stewartville, Minnesota*



*3 Pedestrian Bridges/2 State Trails  
Preston to Pipestone, Minnesota*

### IOWA

*Sparboe Farms - Vincent Expansion  
New Wastewater Collection  
and Treatment Project,  
Fenton, Iowa*



*Water Treatment Plant Flood Wall,  
Mason City, Iowa*



*Personnel Parking Lot Expansion  
Mercy Medical Center  
Mason City, Iowa*



*Master Planning,  
Mason City Community School District,  
Mason City, Iowa*

### WISCONSIN

*2010 Parking Lot Redesign, WCTC*



*Center Oak Road Repaving,  
Town of Merton*



*Lake Drive Watermain Relay,  
Village of Whitefish Bay*



*Fairmount Avenue Reconstruction,  
Village of Whitefish Bay*



*Lake Country Trail Paving,  
Construction Observation,  
WisDOT SE Region*



*Wisconsin Avenue Repaving  
(Waukesha), Construction  
Observation, WisDOT SE Region*

# ANNOUNCES CORPORATE REORGANIZATION

Yaggy Colby Associates (YCA) is always mindful of its strategic plan for improvement and growth. While recent economic times have presented great challenges; YCA has constantly looked for ways to best focus on our markets while continuing to provide top level of service to clients. With this in mind, YCA has taken the opportunity to accomplish this and move forward with the restructuring of two of its disciplines, architecture; and mechanical, electrical and plumbing (MEP).



## **Creation of CRW architecture + design group**

Beginning June 1, 2010, Yaggy Colby Associates announced the creation of CRW architecture + design group, a spin off of its architectural and interior design department. Jose Rivas and Chris Colby, formerly Principals with YCA, will lead this company, together with Jason Woodhouse. YCA and CRW will continue to partner on projects and with clients. According to Bob Ellis, CEO of Yaggy Colby Associates, "This move will allow CRW to focus on marketing architectural services more directly to existing and new clients, while allowing YCA to concentrate on the marketing of its engineering, planning, and landscape architecture and surveying services to its client base. As we discussed ways to improve services to all of our clients prior to this transition, we concluded there was a need for a different marketing approach for architectural services from the other disciplines offered by YCA, and creating this company was the best way to accomplish this objective, while still providing the best value to our clients." CRW architecture + design group is co-located with Yaggy Colby Associates in the Rochester, MN office.

ASSOCIATES  
*Celebrating 40 Years  
of Excellence*  
1970 - 2010

## **Partnering with AKF Group**

Yaggy Colby Associates has recently executed a plan to separate mechanical/electrical services from YCA and partner with AKF Group LLC as a means to provide more in-depth service to our clients. Robb Gelle and John Sahli, Mechanical and Electrical Engineers, are now employees of AKF Group LLC, a national mechanical, electrical, and plumbing (MEP) firm from New York. "AKF is a top five MEP firm in the U.S. with approximately 400 employees and we are pleased to have the opportunity to partner with them on projects as we go forward", according to Bob Ellis. AKF is also co-located with Yaggy Colby Associates in the Rochester office, which will allow for close collaboration on projects.

## **YAGGY COLBY ASSOCIATES**



***Corporate Location***  
***717 Third Avenue SE***  
***Rochester, MN 55904***

With approximately 100 employees, Yaggy Colby Associates continues as a multi-disciplinary firm providing engineering, surveying, landscape architecture, and planning services to municipal, transportation, land development, and building and site design clients in the Upper Midwest. The firm's civil, transportation, structural, traffic, and environmental engineering services support design of highways, streets, bridges, water storage/distribution systems, storm sewers, sanitary treatment /collection systems, trails, parks, buildings, and parking lots. Other services include right-of-way/property acquisition, design-build delivery methods, construction observation and administration, boundary and topographic surveying, platting, construction staking, streetscape and landscape plans,

wetland delineations, comprehensive plans, financial planning and grants, economic development and downtown revitalization.

Yaggy Colby Associates will continue to provide value added services which are predicated on responsive, quality based, and personable attributes to all of its clients. With this restructuring, the ability to provide the best level of service to existing and new clients will be further enhanced and the characteristics that have made us a successful firm for over 40 years will be strengthened.

***For more information please contact  
Yaggy Colby Associates President, Bob Ellis at  
(507) 288-6464 or any one of our Principals.***

# DELAFIELD OFFICE INDUCTED INTO GREEN TIER PROGRAM

Yaggy Colby Associates' Delafield office has become the first consulting firm inducted into the Wisconsin Department of Natural Resources' (DNR) Green Tier Program. The firm was welcomed into the program at an acceptance ceremony on January 28, 2010.

Under Green Tier, qualified businesses and associations make voluntary, binding commitments to superior environmental performance. In exchange, they are granted streamlined review and permitting, improved agency relations, and other benefits. Diverting focus from regulatory compliance enforced by agency personnel to self-imposed performance standards will support government efficiency, allowing DNR staff to focus efforts where its expertise is most needed.

Yaggy Colby Associates' Delafield office has committed to planned improvements at its facility, as well as changes to its internal operations. In addition to these improvements, the firm's professionals will integrate a vision of Green Tier into



*Heather McGuire, Mark Mickelson, Mike Court, DNR Secretary Matt Frank and Roger Dupler.*

their design work for clients by offering solutions that go beyond compliance. Their hope is that by encouraging clients to exceed minimum compliance expectations, their clients will be rewarded with quicker permitting decisions and greater flexibility in implementation.

“The DNR commends the firm’s commitment to environmental stewardship” said Department of

Natural Resources’ Secretary Matt Frank, “*They set a fine example for the development community by working to reduce their ecological footprint and by working with their clients to do the same.*”

The benefits of Green Tier will be offered to both our municipal and private development clients, with the goal of fostering environmental stewardship and commitment.

## PRELIMINARY DESIGN - TH 14 - OWATONNA TO DODGE CENTER

Highway 14 (TH 14) is a major east-west highway that provides an important link between the interregional corridors of Interstate 35 (I-35) in Owatonna and TH 52 in Rochester. The project proposes to improve approximately 19 miles of TH 14 from the existing four-lane bypass of Dodge Center, Minnesota to the interchange with I-35 near Owatonna, Minnesota.

The need for improvements is a result of growing traffic levels, reduced average travel speeds, limited passing opportunities, and increased safety issues along the existing two-lane highway. From 2000 to 2005 there were nearly two hundred crashes along the nineteen mile stretch, including nine fatal crashes, according to information

provided by the Minnesota Department of Transportation (Mn/DOT).

The proposed improvements include the construction of a four-lane divided, full access controlled freeway between the project termini. Various alternatives were studied and the Environmental Impact Statement and Geometric Layout were completed. As a member of the consultant team selected by Mn/DOT to complete the four year preliminary design project, Yaggy Colby Associates conducted traffic counts, completed drainage and hydraulic studies, provided location and design surveying (including field drain tile and existing culverts), and wrote portions of the Environmental Impact Study.

Although funding for this \$140 million project is not available at this time, the safety concerns have prompted Mn/DOT to begin the long planning process required for a project of this nature, length, and scope so the project design can continue when the funding does become available.



