HR Green, Inc., (HR Green) is a multi-discipline professional services and construction firm offering planning, technical consulting, engineering, environmental services, and construction to clients in diverse markets. Founded in Cedar Rapids, Iowa in 1913, by Howard Ruggles Green, the firm now employs over 400 people in Missouri, Iowa, Illinois, California, Minnesota, Pennsylvania, South Dakota, Colorado and Texas.

One of America’s longest operating design and construction firms, HR Green enjoys a longstanding reputation for environmental stewardship, public service and technical excellence. The firm is consistently ranked among ENR’s Top 500 Design Firms and ENR’s Top 100 Construction Firms in the United States.

HR GREEN TRANSPORTATION

Our transportation business puts the end users first—developing designs, building consensus and constructing infrastructure that meets the needs of our clients while considering the future. Funding, environmental compliance and public involvement can be daunting obstacles before even tackling the technical complexities of a project. Your needs are great, and they can be met by a creative partner with the resources to tackle every aspect of your challenge.

HR Green is equipped with the latest technology and knowledge to lead any project from planning through construction, while applying valuable business sense.

Our transportation engineers have created Centralized Traffic Management Systems, used advanced vehicle control systems, dynamic route guidance, and advanced traveler information to compile data when working on upgrades to transportation systems. 3D models allow us to design with greater accuracy and efficiency, identifying potential conflicts before they become challenges. Professionals who specialize in construction interact with our designers to provide constructability reviews during a project’s design, allowing the development of projects that can be built with minimal surprises. Construction engineers monitor projects as they are being built, so you are sure that your improvements ultimately comply with approved designs.

ROUTE 100 “GREAT STREETS”: HR Green recently completed design plans to implement the first section of “Great Streets” improvements on a 7-mile stretch of Manchester Road (Route 100). Project components included design and installation of a shared use path, new concrete sidewalks, wayfinding signage, modifications of traffic signals, new lighted bollards, aesthetic landscaping, and specialty bus shelters.
ROADWAYS AND INTERCHANGES

From urban arterial streets to federal interstates and interchanges, HR Green can help create sustainable, successful roadway systems.

The need for infrastructure that facilitates safe and efficient travel by all means, while maintaining environmental compliance, is the driver of our transportation business.

We partner with clients and residents and take a creative and comprehensive approach to solving transportation challenges by first understanding the underlying needs of projects. We then link these needs to community values, environmental requirements and infrastructure standards to design a lasting solution that satisfies local citizens and businesses.

Our design teams develop safe, functional, affordable structures and roadways to provide connectivity for today’s economy and lifestyles. Transportation planning must consider the environmental impacts, current operations and future needs of any community. We will balance these elements to establish infrastructure that preserves our client’s investments.

HR Green’s transportation business line is supported by 268 professionals across our geographies. We have expertise ranging from transportation planning and NEPA processing to Highway design, through program management and construction management. We have managed major transportation projects of significant value and complexity throughout our geographies.

TRAFFIC ENGINEERING

HR Green provides a full range of services from traffic impact studies, corridor studies, traffic signal studies and design, traffic safety evaluations, road safety audits and access management plans to traffic operations models, evaluation of potential “Road Diets”, urban interchange and intersection design, roundabout design, implementation of the Safe Routes to School Program and funding applications for a variety of traffic improvement projects.

In collaboration with our geometric engineers, we can tackle traffic challenges in both the complex urban environment and the rural setting and develop cost effective solutions for interchanges, rural highway intersections, arterial intersections or county roads involving multi-lane intersections and roundabouts. During collaboration, we identify the safety or operational elements of concern and implement innovative geometric or technologic solutions to remedy them.

Traffic Engineering Services:
- Traffic Impact Studies
- Corridor Studies
- Traffic Signal Studies and Design
- Traffic Safety Evaluations
- Road Safety Audits
- Access Management Plans
- Traffic Operations Modeling

CONSTRUCTION

Our construction professionals provide services to verify long-lasting, low maintenance facilities while managing our client’s investment throughout construction. We provide the documentation and final records necessary for full reimbursement from funding authorities.

We do not wait until plans are finished before we involve the trained eye of a construction professional. We perform constructability reviews early in the design process whenever possible, even as early as the preliminary design phase. Above all, we want constructible projects. This approach frequently pays off in the form of favorable construction bids for our clients, and, in general, fewer change orders during the construction process.

Construction Services:
- Contract Administration
- Construction Observation
- Construction Management/Owner Representation
- Project Accounting and Material Tracking
- Performance Records and Payment
- On-Call Troubleshooting
- Constructability Reviews
- NPDES Erosion Control Services
**ENVIRONMENTAL AND NEPA**

HR Green develops methods and strategies that are attentive to regulatory bodies, socially responsible and scientifically sound, while minimizing timeframe and costs.

Our highly collaborative and interdisciplinary approach allows us to effectively manage environmental concerns, regulatory requirements, funding strategies, public and agency coordination, and technology solutions with the needs of transportation infrastructure projects.

HR Green implements the procedural requirements of NEPA in accordance with individual agency policies, procedures and preferences. We prepare NEPA documentation for a variety of federal actions ranging from permitting decisions to major funding allocations. Clients rely on us to identify the resources within the project study area and determine the necessary steps to comply with NEPA and other federal and state laws such as the Clean Water Act, National Historic Preservation Act and Threatened and Endangered Species Act.

**Environmental Services:**
- Noise and Special Studies
- Land Use Inventory/Evaluation
- Contaminated Sites (Phase I & II ESA)
- Air Quality
- Cumulative and Indirect Impacts
- Wetlands Mitigation

**ROUTE 61 PEDESTRIAN BRIDGE:** HR Green was selected to design this new pedestrian crossing over Rte. 61 in the City of Troy, MO, in October, 2013 and received Notice to Proceed in early November. The new bridge is parallel to Old Cap Au Gris Road and serves as a connection between the nearby Troy High School and the City of Troy. It is a two-span, 136'-136', prestressed concrete I-girder bridge with an 8'-0" wide clear pathway. The steel railings are 6'-0" tall with vertical pickets and include lighting fixtures mounted on top of the posts. The substructure consists of integral end bents and a hammerhead intermediate bent, all founded on steel H-piles. HR Green was able to meet the project’s tight schedule and submitted final signed and sealed plans and specifications on March 7, 2014, just 4 months after receiving Notice to Proceed.

**CYPRESS CORRIDOR STUDY:** The City of St. Ann obtained federal funding to complete an environmental assessment of the extension of Natural Bridge Road, from just west of Airflight Drive to Cypress Road. The project included a public involvement component focused on engaging the local stakeholders and regulatory/governmental agencies in the study process. Based on the public involvement process, alternatives were developed which were screened in accordance with NEPA requirements. The project included a conceptual design of the roadway alignment, which contained a detailed traffic engineering element. The traffic engineering element defined the infrastructure needs such as signalization, turning lanes, roadway linkages, and pedestrian mobility. A traffic count program was conducted, which utilized data from the EW Gateway travel demand model to create opening year and future year peak hour traffic volumes.
With a staff of over 400 people and offices in 9 states, HR Green has employed the latest technology, operating in a virtual, cloud-computing environment. This allows our staff more efficient access to files and data, across all geographies providing improved mobility and delivery of projects.

For more than a century, HR Green has been dedicated to providing the services that our clients need to achieve success. We collaborate across geographies and markets to provide the engineering, technical, and management solutions that connect and shape communities and are driven by the commitment of our clients.

We commit to providing great client service through honesty, responsiveness, and understanding, forming a partnership with our clients and coworkers that leads to success.

HR Green is uniquely positioned to provide the services our clients demand. HR Green has 16 offices, primarily located in the Midwest (Missouri, Illinois, Iowa, Minnesota, and South Dakota) with additional offices in Texas, California, Colorado, and Pennsylvania.

Our local Missouri Transportation team allows us to easily provide specialty services to our clients. We are poised to handle peak workloads with our local St. Louis staff, while pulling resources from other locations when necessary.

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