

Modjeski and Masters, Inc. (M&M), a 100% employee-owned company, is a recognized leader in the design, inspection, and rehabilitation of all types of bridges, highways, and tunnels. Ranked **#15 on the 2025 ENR Top 25 Bridge Design Firms** list and celebrating **130+ years of continuous operation**, M&M offers integrated in-house expertise in structural, electrical, mechanical, highway, and construction engineering, all under a unified management approach.

M&M's MidAmerica leadership brings proven expertise tailored to meet MoDOT's needs.



Jerilyn Hassard, PE, SE

Vice President, MidAmerica Regional Director, and **MoDOT's Direct Contact**

P: 618.659.9102 | **E:** JMHassard@modjeski.com

- 29 years of transportation engineering experience
- Licensed in Missouri
- NBIS Program Manager
- Corridor management, including lighting and roadway design expertise
- Public involvement and context sensitive solutions
- Award-winning Project Manager



Rachel Mertz, PE, SE

Senior Project Manager, MidAmerica Assistant Regional Director

- 27 years of transportation engineering experience
- Licensed in Missouri
- NBIS Program Manager
- Load capacity rating expert, including AASHTOWare BrR specialist
- Hydraulic and scour analysis and design expertise
- Extensive rehabilitation experience



Aaron Kober, PE, SE

Project Manager

- 28 years of transportation engineering experience
- Licensed in Missouri
- NBIS Team Leader
- CM/GC and Resident Engineer experience
- Railroad coordination specialist
- LPA Federal Basic Training and LPA experience



“...without M&M’s willingness and ability to rapidly accelerate their design efforts, the bridge would not have been funded or constructed.”

—City of Columbia, MO

Every step of the development and implementation of the project was under a tight schedule, and M&M met or improved upon the schedule deadlines...”

—Illinois DOT

MISSOURI LOCATIONS



AWARDS

Iowa DOT I-74 Mississippi River Bridge

- 2023 ACEC Illinois Grand Conceptor & Honor Award
- 2022 Roads & Bridges Magazine Top 10 Bridges
- 2022 NCSEA Outstanding Project – Bridge/Transportation
- 2022 NSBA Prize Bridge Award – Major Span
- 2022 ABCD Outstanding New Long Span Bridge

Illinois DOT Martin Luther King Bridge Approach

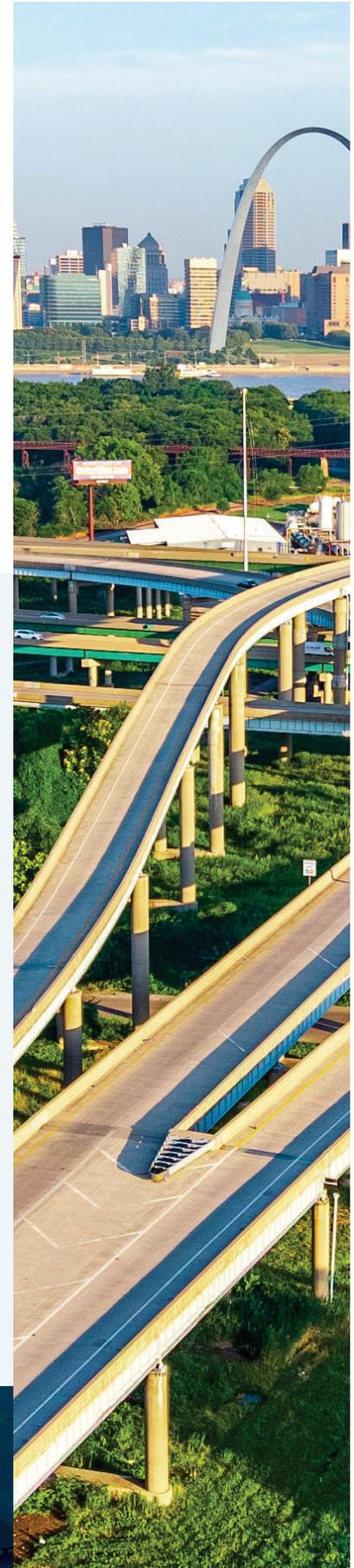
- 2022 ACEC Illinois Honor Award
- 2022 ACEC Illinois Judges Choice Award - Structural Systems
- 2019 WTS St. Louis Innovation in Transportation

Illinois DOT Legal Loads Parametric Evaluation

- 2018 ACEC Illinois Special Achievement Award

M&M’s comprehensive, in-house capabilities allow us to support the entire life cycle of transportation infrastructure— from initial research and conceptual studies, through design, construction, maintenance, demolition, and replacement.

- New and rehabilitation bridge design
- Roadway, highway, interchange, and corridor design
- ADA compliance and safe systems design
- Inspection services
- Field instrumentation and NDT
- Load capacity evaluations
- WIM traffic studies
- Maintenance and protection of traffic
- Vessel collision investigation
- Scour analysis
- Erection analysis and design of temporary works
- Lighting design
- Mechanical engineering
- Electrical engineering
- Bridge security and vulnerability analyses
- Hydraulic and scour analyses
- Fatigue and seismic evaluations
- Emergency response and forensic studies
- Bridge engineering research, code, and course development



M&M is a recognized leader in lifecycle transportation engineering services for all structure types. Our expertise spans the full lifecycle of bridge and highway support – from research and conceptual studies to design, construction engineering, field services, and rehabilitation. We are deeply rooted in the communities we serve, while maintaining a nationwide reach.



Route D over Byrd Creek

Cape Girardeau County, MO

M&M provided preliminary design services for the replacement of the existing five-span structure on MO Route D over Byrd Creek. These services included hydraulic and scour analysis, preliminary roadway plans, a bridge memorandum, and initial cost and workday estimates. M&M delivered final roadway and bridge design, along with limited construction support services.



Route 114E over Dexter Creek and UPRR

Dexter, MO

M&M provided preliminary design services, including hydraulic and scour analysis, drainage design, preliminary roadway plans, ROW plans, UPRR coordination, bridge memorandum, and preliminary cost and workday estimates for the replacement of these two curved, elevated, structures. The proposed alignment was tied into the existing alignment as quickly as possible to minimize the ROW impacts. Drainage was designed to flow away from the UPRR ROW and cross slopes were adjusted throughout the project limits for safety concerns on the low-speed route. M&M provided final roadway and bridge design and is delivering limited construction support services.



Route A over Indian Creek Bridge

Perry County, MO

M&M provided preliminary engineering, final design, and construction support services for the replacement of the Route A Bridge over Indian Creek. The scope included hydraulic and scour analysis, along with a detailed substructure investigation and cost comparison to determine the optimal foundation solution. The new structure consists of a four-span precast, prestressed concrete spread box beam superstructure supported by pile bent caps and integral end bents.



MLK Bridge Approach Complex

East St. Louis, IL

M&M provided Phase I, II, and III engineering services for the replacement of the original east approach structure to the MLK Bridge. The project also included miscellaneous repairs and highway improvements to six additional structures within the approach complex. These elements were added late in the schedule to maximize project value. M&M's scope also included highway lighting and MSE wall design.



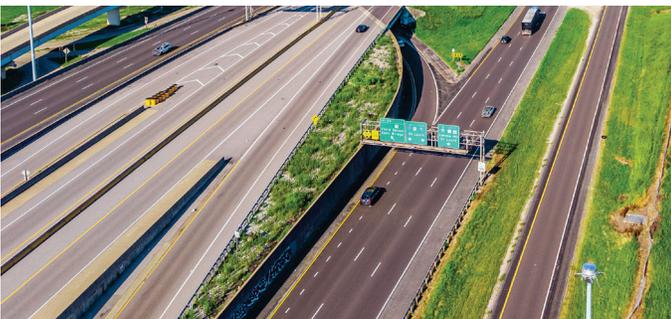
Lighting Design

M&M delivers comprehensive electrical system design and inspection services for a wide range of transportation lighting projects. Our experienced team has worked on lighting solutions for roadways, streetscapes, tunnels, bridges, and plazas, as well as traffic control and monitoring and facility interior and exterior lighting.



ADA Compliance and Bicycle/Pedestrian Design

M&M partners with clients to improve facilities and ensure compliance with ADA and PROWAG standards. Typical projects enhance safe access to businesses, restaurants, schools, and residences. Our experience includes implementing ADA transition plan upgrades in high-pedestrian areas, such as sidewalks, curb ramps, signing and pavement markings, and street crossing improvements



Highway, Roadway, and Corridor Design

M&M has developed expertise in the planning and design of roadways, corridors, and major expressways. From the complex urban interchanges to rural roadways, our comprehensive roadway-related services include geometric design of highways and streets, traffic/safety studies and signal design, roadway lighting, hydrologic and hydraulic analyses/scour, drainage/E&S/PCSM design, ADA pedestrian/bicycle design, and maintenance and protection of traffic.



Maintenance and Protection of Traffic

M&M has prepared numerous Maintenance and Protection of Traffic plans for the construction of various roadway projects. We are very familiar with Federal regulations and follow these mandates when preparing the plans to ensure the safety of all motorists and workers in the construction area.



Design Visualization

M&M's visualization services help clients, stakeholders, and the public see the "big picture" before, during, and after project completion. Our in-house 3D capabilities include:

- ◆ High-Quality Photo-realistic Renderings
- ◆ Flyby and Drive Thru Animations
- ◆ Computer Generated Details and Animations

Every visualization is developed by trained engineers using accurate, engineered designs and details.