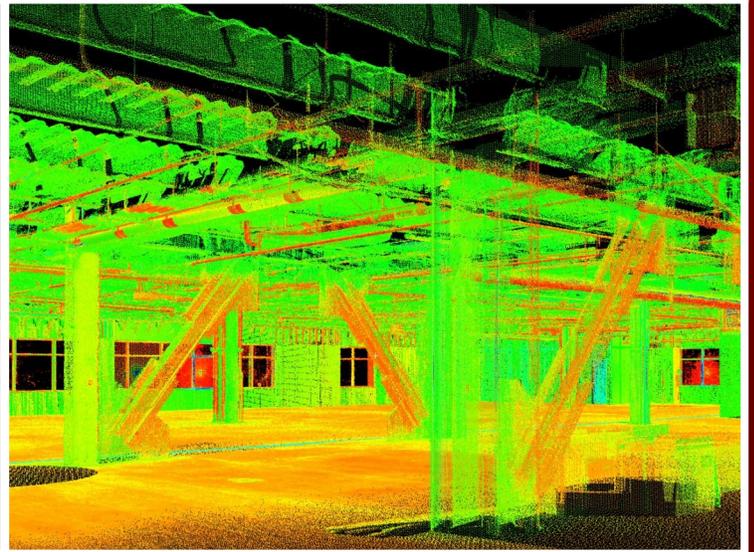
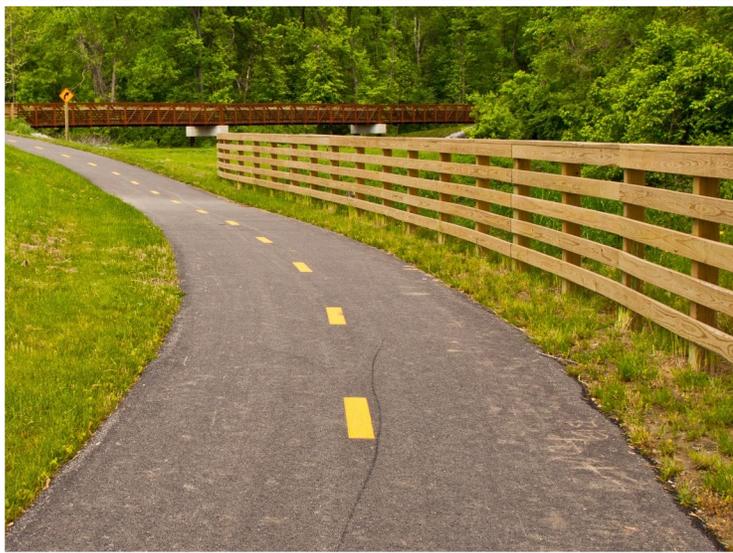




**Missouri's  
Local  
Program**  
*for community  
development*

## FIRM BROCHURE 2019



**EXCEPTIONAL SERVICE. NOTHING LESS.**  
twm-inc.com



## Exceptional Service. *Nothing Less.*

That's our mission statement and our promise to you. Our success is built upon a solid reputation for getting the job done right. We are particularly proud that **we retain approximately 95% of our customers' business.** Our resolution of challenges is what sets us apart, and based on our level of repeat business, we think our clients agree.

### By the numbers

**102 total employees, including:**

- 33 licensed PEs
    - 3 PTOEs
    - 7 licensed SEs
  - 11 engineers in training
  - 8 licensed PLSs
  - 4 surveyors in training
  - 4 construction inspectors
- 
- 20 simultaneous survey crews
  - 7 terrestrial LiDAR scanners
  - 2 UAVs (drones)
  - 1 mobile LiDAR unit

### Company data

Self-Certified Small Business

100% ESOP-owned

Professional Licensure:

IL, MO, TN, IN, KY, FL, TX

### Corporate headquarters

4940 Old Collinsville Road  
Swansea, IL 62226  
618.624.4488

### Missouri LPA Contact

J.R. Landeck, PE, PLS  
720 Olive Street, Suite 200A  
St. Louis, MO 63101  
314.241.6300

## Core Competencies

TWM, Inc. is a 100% employee-owned firm that specializes in civil and structural engineering, and other geospatial services. Over the last 73 years, we have successfully completed projects for over 100 government agencies throughout Missouri, Illinois, the Midwest and beyond, including:

**DOTs | Municipalities | Counties | Federal | Military | Transit Districts  
St. Louis Metropolitan Sewer District | Parks & Recreation Departments**

As a full-service engineering consultant, TWM prides itself on being able to provide a broad range of design projects and related services. TWM has diversified into five primary disciplines:

- **Transportation**
- **Survey/Geospatial Services**
- **Structural**
- **Site/Land Development**
- **Water Infrastructure**

We have a long history of serving both private and public sector clients. Those clients and the communities we have served can attest to our focus on the details, our commitment to project schedules, and our care toward the client as a vested partner in the project.

## Range of Capabilities

At TWM, we have the resources of a larger firm and the personalized customer service of a small, family-oriented firm working for local communities. With **7 office locations in 3 states**, our firm is an ideal size—large enough to take on major projects but small enough to respond to your needs quickly.

We're capable of providing a broad range of design projects and related services for nearly any type of project, including:

- **Roadways, highways, and streetscapes**
- **Multi-modal and pedestrian facilities**
- **Traffic analysis, traffic studies, and signal design**
- **Recreational, commercial, industrial, institutional, and residential sites**
- **Bridges, retaining walls, large structures, and buildings**
- **GIS, land surveying, mapping, reality capture data collection, and construction layout**
- **Municipal engineering/consulting**
- **Water distribution, water systems, and treatment**
- **Wastewater collection and treatment systems**
- **Stormwater management**
- **Video inspection of pipes and culverts, and air testing**
- **Construction inspection services**

We continually strive for the most **efficient, effective, and economical solutions** to address our clients' problems, with the highest level of technical expertise, and without compromising quality or integrity. We pledge to serve as your trusted partner to help you resolve the engineering challenges you face.



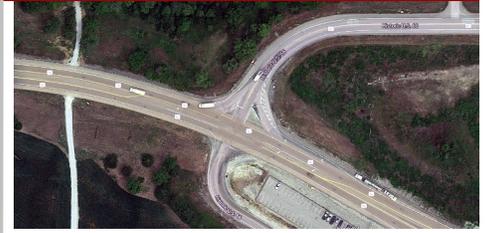


**TRANSPORTATION—ROADWAY**  
**Coeur De Ville Drive | Creve Coeur, MO**  
 TWM provided engineering and surveying services for this 6,000' project running from Ladue Road to Olive Blvd. Main focus addressed issues pertaining to failing pavement, deteriorating curb and gutter, differential sidewalk settlement, addition of pedestrian beacons, and non-compliant curb ramps, bringing them into compliance with current ADA Guidelines and PROWAG rules.

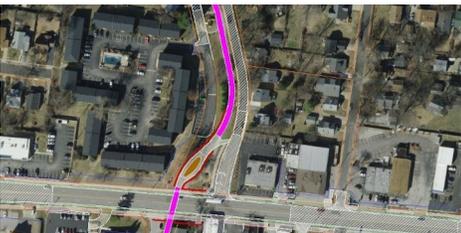


Existing Conditions

**TRANSPORTATION—MULTI-MODAL**  
**Colinear Trail—Katy Trail State Park**  
**St. Louis, MO**  
 TWM designed a 1.4 mile colinear trail to relocate a segment of the Boonville to Clinton section of the Katy Trail. The colinear portion of the trail will connect to a future realignment of Katy Trail through the City to the Katy Depot. Design included one pedestrian/service vehicle bridge crossing to span over Cedar Creek.



**TRAFFIC ENGINEERING**  
**MoDOT Traffic Study**  
**Franklin County, MO**  
 The intersection of US Route 50 & Route AT/North Outer 44 was experiencing significant safety concerns. Traffic study created five intersection configurations and reviewed the viability, cost, and methodology of each as a safety improvement strategy. TWM authored a Conceptual Study Report and recommended a Preferred Option.



**TRAFFIC STRUCTURES**  
**MO Route 100 Pedestrian Underpass**  
**Brentwood, MO**  
 Improvements include realigning Mary and Dorothy Avenue and raising Manchester Road to accommodate the tunnel, and adding 1,000' of shared-use path. Design tasks for the corridor include upgrades to drainage and traffic signals, ADA-compliant sidewalks and curb ramps, streetscape elements, and regulatory wayfinding signage.



Route H

**STRUCTURAL—BRIDGES**  
**Routes H, J, & Z | Stoddard County, MO**  
 Provided hydraulic design, preliminary bridge design, and final bridge design/plan preparation. All were replaced with no grade raise, minimizing roadway work required. In addition, one bridge was reduced by approximately 40' after hydraulic analysis determined that the existing waterway opening was larger than necessary. TWM completed the design under budget.

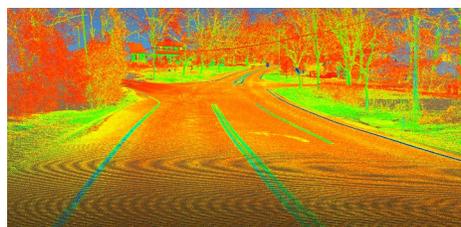


**STRUCTURAL—BRIDGE INSPECTIONS**  
**Great Rivers Greenway (GRG) Bridge Inspection Program | St Louis, MO**  
 Reviewed existing bridge and culvert inventory to determine age, type, and condition of 107 structures providing critical connections for GRG's network of greenways. Developed recommendations for frequency, type, and personnel to perform inspections of all structures; Administered training for partner staff.



Existing Conditions

**GEOSPATIAL—SURVEYING**  
**Wildwood Shared-Use Path**  
**Wildwood, MO**  
 This project was part of the City's Master Plan to create more connected neighborhoods. TWM's surveying responsibilities included ROW survey, topographic survey, and drone (UAV) data collection. Design included a 10' wide shared-use path, curb ramps, ADA-compliant crosswalks, and flashing warning beacons.



**GEOSPATIAL—LiDAR**  
**McKnight Road | Richmond Heights, MO**  
 TWM provided 3D laser scanning survey and property research, geotechnical investigation as needed, right-of-way plans including easement exhibits and legal descriptions as needed, construction plans, ADA-compliant sidewalk and ramps, pavement analysis, hydraulic analysis and stormwater design, signal and rapid flashing beacon design, and utility coordination.



**CONSTRUCTION INSPECTION**  
**River Bridge District—Phase 1**  
**East St. Louis, IL**  
 Construction phase services included in-house staking and layout, depth and grade checks, coordination of outside material testing, quantity verification, preparation of pay estimates, material certification, project documentation (ICORS), and enforcement of DOT specifications and requirements.



**Your project needs are understood** | With a highly skilled team of professionals, we can solve nearly any problem or challenge your project may face. TWM provides a comprehensive approach, a smooth workflow, and the right solution to meet challenges every step of the way. You want a company with experience, people who understand your kinds of projects, and a knowledgeable and skilled team who will listen to you, effectively communicate with you, and pay attention to details. You also want to know you're getting real value for your investment and to know you can trust that the work of the firm you choose.

**You can expect us to take an innovative look** | Our firm often looks at how to do things differently on projects. A value engineering approach can often streamline the design and save money for our clients. It also supports alternative ways to solve complex infrastructure problems. Being current and well-versed in ADA standards also allows our design team to visualize practical, cost-effective solutions. Also, on projects with a number of right-of-way parcels, due diligence in developing practical solutions can garner the support of the public, as needed.

**Your timeline is respected** | You deserve a firm that will honestly estimate the time it should take to complete your project. You deserve qualified professionals dedicated to your project team with the capacity to meet your deadlines. And once you agree on the time schedule of your project, then you have the right to expect it to be done on time.

**Your project will be completed with budget in mind** | Our team will work with you to honestly develop a comprehensive scope of work, and then set a realistic estimate for the cost of services. Sure, sometimes the scope of work might change during design. But unless it does, you should not have any surprises that affect your project budget.

**Your project will be done with confidence** | You deserve a firm with the knowledge, skill, and experience to complete your project correctly. People rely upon engineers and land surveyors to know what they're doing. Our employees are among some of the best and brightest in their fields. We invest in training and continual education. We have strong Quality Assurance/Quality Control processes and procedures. And we stand behind our work.

*"TWM kept MoDOT in the loop throughout the project and was very responsive. The bridge final design phase went very well and the quality of the final bridge plans was very good! Despite the tight schedule, the deadlines were all met and the consultant did great work! The consultant has responded to many questions throughout construction. Revisions to the bridge plans have been necessary due to utility interference and contractor errors. TWM quickly responds to construction issues and has proposed good solutions to resolve them."*

**Michele Atkinson, PE**  
**MoDOT Structural Liaison Engineer | 573.522.2371**

## Five Core Values Define Our Work

### Quality

We strive for Quality in every aspect of our work, so that we will never be afraid to put our seal on a design and stand behind that work.

### Relationships

We have built our business on the foundation of Relationships. Our clients trust us. Many would do business with us on a handshake.

### Stability

TWM is conservative in its fiscal and operational approach to business. We have been in business for 70+ years, and our employees and clients do not have to worry about our Stability or whether we are going to be in business next week or next year.

### Ambition

We value and therefore hire employees who are determined and persevere, who have Ambition and a can-do attitude and who do not give up.

### Loyalty

We also value employees who exhibit Loyalty and true teamwork and are in the game 100% - head, hands, and heart - working together with eyes on the goal and putting forth whatever effort it takes to achieve that goal.