



December 15, 2022

SERVICES

Structural
Civil
MEP
Project Management

ESTABLISHED

1973

OWNERSHIP

Employee-owned ESOP

EDM DATA

Business License in MO,
IL and 20 other states
SAM-Registered Small
Business
DUNS 06-464-4586
E-Verify 183182
CAGE 8Y777
NAICS 541330 Eng
541310 Arch

EDM INCORPORATED

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MoDOT | Local Programs Administrator
LPAoncall@modot.mo.gov

LPA On-Call Professional Services
Roadway Design

Dear Selection Committee:

EDM Incorporated is pleased to submit this Letter of Interest for Missouri's Local Program work category of Roadway Design. Following is a summary of our relevant firm background and project information as outlined in the solicitation letter.

GENERAL EXPERIENCE OF THE FIRM

EDM delivers transportation projects with innovation, value engineering, and practical design. Founded in 1973, EDM is an employee-owned professional design firm providing structural, civil, building systems (mechanical, electrical, plumbing) engineering and project management services — comprehensive services under one roof, provides you with complete project integration.

Municipal and County Experience

Over the years, EDM engineers have built a strong practice providing valuable professional services for numerous infrastructure and roadway improvement projects for municipal, county and state agencies, including the following Missouri municipalities:

City of Branson	City of Fenton	City of Manchester	City of St. Louis
City of Bridgeton	City of Ferguson	City of Maplewood	City of St. Peters
City of Clayton	City of Florissant	City of Maryland Heights	City of Sullivan
City of Crestwood	City of Frontenac	City of O'Fallon	City of Town & Country
City of Creve Coeur	City of Hazelwood	City of Overland	City of University City
City of Dardenne Prairie	City of Herculaneum	City of Rock Hill	City of Webster Groves
City of Ellisville	City of Ladue	City of St. Charles	City of Wentzville

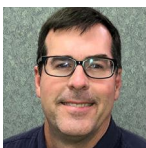
PAST PERFORMANCE

EDM has numerous projects that could be highlighted. Below is a summary of projects with unique features, then selected projects follow on the next page to demonstrate our experience.

Client	Project Location	Unique Feature
Clayton	Hillcrest Subdivision	EDM's cost estimate was within 0.2% of winning bid
Frontenac	Glen Abbey Road	Worked under 4 design contracts for different features due to 4 funding sources
Hazelwood	Fee Fee Road*	Improvements to Fee Fee and McDonnell intersection
Hazelwood	Teson Road*	Required 100-year hydraulic study to meet MSD Requirements
MoDOT	MO Route 21	Resurfacing consisted of a combination of treatments
St. Louis County	Barrett Station Road*	2,500 ft of 18-in sewer design, MSD-funded as part of interagency agreement
University City	George Street	Reconstruction completed in less than a week

*STP Projects





Glen Abbey Road Design | City of Frontenac Working under four design contracts for different features due to different funding sources (two 319 grants, City and MSD), EDM provided engineering design for 300 LF of roadway design and a replacement culvert. Included vertical curves with tapers and open and enclosed drainage systems. A 200-LF access road was designed to allow unimpeded construction. A ConSpan bridge was chosen as replacement, so that a single opening was available for passing debris on the creek. *Services provided:* **Resurfacing | Pavement Reconstruction | Accommodation of Utilities | Stormwater Retention | Hydraulics | Design and Analysis of Pedestrian/Bicycle Facilities | Conceptual Studies**

Fee Fee Road Improvements | City of Hazelwood EDM provided engineering services for the design of a 1450 LF, three-lane roadway between McDonnell Boulevard and Chapel Ridge, **federally funded and designed to MoDOT Standards**. Included sidewalks, and ADA improvements to the intersection of Fee Fee and McDonnell. BMPs, consisting of two bioretention basins, two hydrodynamic separators and two rain gardens to meet MSD stormwater management requirements. *Services provided* included construction inspection as well as **Widening | Pavement Reconstruction | Accommodation of Utilities | Stormwater Retention | Hydraulics | Design and Analysis of Pedestrian/Bicycle Facilities**

Teson Road Drainage Structure Replacement | City of Hazelwood EDM designed and managed this stormwater project, which included roadway improvements in the vicinity of the new culvert. The project required a 100-year hydraulic study in order to meet MSD requirements. *Services provided:* **Widening | Pavement Reconstruction | Accommodation of Utilities | Hydraulics | Design and Analysis of Pedestrian/Bicycle Facilities**

Resurfacing Highway 21, Jefferson County | MoDOT EDM was selected by MoDOT through an on-call contract to resurface six miles of Hwy 21 between DeSoto and Hillsboro. Tasks included preparation of plans using as-built drawings, improvement plans, JSPs, cost estimating using Oman Systems bidTabs software, field verification of as-built conditions, and preparation of RES document. *Services provided:* **Widening | Resurfacing**

West Meyer Road and Replacement Bridge | City of Wentzville EDM provided civil and structural design and project management for 800 LF of roadway and a replacement bridge. Project included vertical curves with taper to shift the centerline and guardrail, and open and enclosed drainage systems. Two driveways were relocated to account for the raised and widened road. The bridge was designed **per MoDOT and AASHTO standards** and featured four, 12-foot wide lanes and six-foot sidewalks; and was designed to seismic Category "A." *Services provided:* **Widening | Pavement Reconstruction | Hydraulics | Design and Analysis of Pedestrian/Bicycle Facilities**

QUALIFICATIONS OF PERSONNEL

The EDM team is comprised of individuals who have technical expertise, availability, and comprehensive experience for LPA transportation projects.

Len Madalon, MS, PE, Executive President and Director of the Civil Group, Len has over 30 years of experience designing civil roadway and drainage projects. Additionally, He was the Design Engineer on 14 road and/or bridge projects for MoDOT, St. Louis County, St. Charles County, Wentzville and Frontenac. He is currently managing a multi-year contract for MSD and has yet to miss a deadline on 15 separate projects. *MoDOT LPA Training*





KEY TRANSPORTATION DESIGN SERVICES

- Transportation Engineering
- Utility Accommodation and Coordination
- Roadways and Streets
- Bridges and Culverts
- Sidewalks and Paths
- Curbs and Gutters
- Grading and Drainage
- Hydraulic Modeling
- Land-Use and Rezoning
- Life Cycle Cost Analysis
- Parking Analysis and Plans
- Parking Lots and Garages
- Permeable Pavements
- Permitting
- Stormwater Plans
- Wastewater Sewer Lines
- Site Development
- Traffic Data Collection, Analysis and Control Plans
- Construction Observation and Administration

Kurtis Eisenbath, MS, PE, Lead Civil Engineer, has extensive design experience in sewers, stormwater detention and drainage for roadways and site developments. He has worked on MoDOT projects prior to joining EDM, including US 61 and Route P Interchange in St. Charles County, I-64 Lane Additions from I-270 to Route 340, and Stan Musial Veterans Memorial Bridge, where he designed connections to existing I-70 and streets. *MoDOT LPA Training*

Eric W. Mullikin, PE, Vice President and Lead Structural Engineer, is EDM's lead structural designer. His expertise includes the design of bridges and buildings with structural steel, reinforced concrete, masonry and wood framing. His projects include multiple parking structures, junction chamber design for the City of Frontenac's stormwater program, several pedestrian bridges, and even the railroad trestle renovation at the Saint Louis Zoo.

Anthony Tarro, Lead Civil CADD Designer/Technician has over 35 years of design and construction experience, including as a certified inspector. In addition to preparing plans and exhibits with the latest software including InfraWorks, Tony has expertise in quantities, cost estimates and easement documents. *MoDOT LPA Training*

The entire EDM team has considerable experience with transportation projects (and accompanying structures, such as parking facilities, rest areas and maintenance buildings), and are sensitive to the impacts their designs have on the traveling public.

FAMILIARITY | CAPABILITY

EDM has successfully delivered prior MoDOT and municipal projects that utilize federal funding and are compliant with federal law. Our experience provides us with the knowledge, familiarity and capability to interact with municipalities as well as the governing and reviewing agencies, as required, and to expeditiously complete an On-Call Roadway contract. EDM consistently provides projects to our clients that are on-time and on, or under, budget. The range of construction bids received on our projects are typically very close to our estimates, indicating not only the accuracy of our estimates but the completeness and quality of our bid documents.

ACCESSIBILITY

EDM professionals are ready and accessible to provide On-Call Roadway Design to any Missouri municipality. EDM has Missouri offices in St. Louis and St. Charles, and our projects are throughout Missouri, primarily in the central and eastern half of the state. Our staff will be available for all meetings as dictated by project schedule and issues. The frequency and location of team meetings and core team meetings will be coordinated with the municipality, and modified as necessary as the project progresses. Communications with project team members will be on-going to provide the accessibility necessary to meet the municipality's expectations and successfully complete the project.

EDM appreciates the opportunity to respond to this LPA Solicitation, and we look forward to working with various Missouri municipalities on On-Call Roadway Design projects.

Sincerely,

EDM Incorporated

Len Madalon, MS, PE
Executive Vice President





OVERVIEW

MISSION

Inspiring trust in our services based on staff expertise, creativity and unmatched service.

SERVICES

Civil
Building Systems | MEP
Structural
Project Management

ESTABLISHED

1973

OWNERSHIP

Employee-owned (ESOP)

KEY MARKETS

Commercial | Corporate
Education
Government
Health Care
Hospitality | Housing
Industrial
Recreation | Theme Parks
Stormwater Management
Water/WW Systems

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EDM is an employee-owned professional design firm providing structural, civil, building systems (mechanical, electrical, plumbing) engineering and project management services, as well as complementary architectural services.

EDM encompasses engineering, architecture and project management under one roof, offering you complete project integration. Our services are available independently or jointly to build essential collaboration and coordination.

The breadth of project experience of our staff, from a small neighborhood stormwater system to 70,000-seat stadiums, provides EDM clients with virtually unlimited project capabilities.

PROJECT TYPES

New Construction | Additions | Renovations
Adaptive Reuse | Urban Retrofits
Historic Restoration
Water Quality | Creek Bank Stabilization
Energy Studies | Feasibility Studies
Facility Condition Assessments
HVAC and Chillers | Air Quality
Fire Protection | Life Safety
Transportation Circulation | Parking, Garages
HVAC Upgrades/Modernization
Seismic Studies and Upgrades
Site Development
LEED/Sustainable Design
Design/Build
Value Engineering | BIM

ROADWAY TRAILS SIDEWALKS



ENGINEERING

Creative application of science, mathematics and experience



DESIGN

Development of a sound concept for a project



MANAGEMENT

Administration of a team to achieve success



MISSOURI GOVERNMENT AND AGENCY CLIENTS

City of Branson	City of Manchester
City of Bridgeton	City of Maplewood
City of Clayton	City of Maryland Heights
City of Crestwood	City of O'Fallon
City of Creve Coeur	City of Overland
City of Dardenne Prairie	City of Rock Hill
City of Ellisville	City of St. Charles
City of Fenton	City of St. Louis
City of Ferguson	City of St. Peters
City of Florissant	City of Sullivan
City of Frontenac	City of Town & Country
City of Hazelwood	City of University City
City of Herculaneum	City of Webster Groves
City of Ladue	City of Wentzville
St. Charles County	St. Louis County
State of Missouri Multiple Departments	
Ameren Missouri	
GSA General Services Administration	
MSD Metropolitan St. Louis Sewer District	
MoDOT Missouri Department of Transportation	
St. Louis Lambert International Airport	
USACE US Army Corps of Engineers	
US Department of Veterans Affairs	





CIVIL ENGINEERING

EDM HAS BEEN GREAT TO WORK WITH,

responsive to Frontenac's needs and resourceful in addressing issues and concerns that have arisen over the 13 years we have worked together.

Jeff Wappelhorst
Director of Public Works
City of Frontenac, MO

RECENT AWARDS

Timber Trail to Briar Ridge Channel

ASCE St. Louis -

2022 Project of the Year

APWA Missouri Chapter-

2022 Project of the Year

East-West Gateway

2022 Outstanding

Local Government

Achievement Award

CIVIL DESIGN

Site Development
Land-Use and Rezoning
Roadways / Streets
Water Supply System
Creek Bank Stabilization
Bio-Stabilization
Stormwater (SW) Pollution Prevention Plans *SWPPP*
SW Needs Assessments
Sewer / SW Sewers
Pump Stations
CSO Control
Permitting
Utility Corridor Mapping
SCADA Systems
Feasibility Studies
CSO Replacements
Parking Analysis and Plans
Permeable Pavements



TRANSPORTATION

- City of Clayton | Bonhomme Garage
- City of Creve Coeur | Ladue and Spoede Intersection
- City of Fairview Heights | Kassing Drive, Summit Avenue
- City of O'Fallon, MO | Sonderen Bridge, Mexico Road Widening
- City of St. Charles, MO
 - Augusta Bottom Road Bridge Replacements
 - Hemsath Road Reconstruction
- City of St. Louis | Truman Boulevard Reconstruction
- St. Charles County | Multiple Projects
- St. Louis County | Multiple Projects
- St. Louis Lambert International Airport | Multiple Projects
- City of University City, MO | George Street Improvements
- City of Wentzville, MO | West Meyer Road and Replacement Bridge
- BJC HealthCare | Clayton Road Assessment
- MoDOT | Multiple Projects
- IDOT | Rest Areas, Storage Facilities, Maintenance Buildings

STORMWATER | WATER | WASTEWATER

- Metropolitan St. Louis Sewer District | Multiple Projects
- City of Brentwood | Stormwater (SW) Ordinance
- City of Bridgeton | SW Detention Basin, SW Needs Assessment
- City of Crestwood | Whitecliff Park/Pardee Lane Feasibility Study
- City of Fenton | Fenpark Industrial Center Storm Sewers
- City of Frontenac | SW Designs, SW Master Plan, Rain Gardens
- City of Maryland Heights | Storm Sewers, Hydraulic Analysis/Design
- City of St. Peters | Multiple Bio-Stabilization of Stream Banks
- City of Town & Country | Nettle Creek LOMR
- City of Webster Groves | Rain Gardens, Stormwater Designs

SITE DEVELOPMENT

- Ameren | Headquarters Entrance Redevelopment, St. Louis
- Anheuser-Busch | Northeast Campus, St. Louis
- Collinsville School District | High School Campus, Collinsville, IL
- First Bank | Branch Offices, Multiple Locations
- Foodmaker | Jack-in-the-Box Restaurants, Multiple Locations
- MasterCard | Global Technology Headquarters, O'Fallon, MO
- State of Missouri
 - Mark Twain State Park
 - Dept of Conservation | Columbia Bottom Conservation Area
 - Wappapello State Park | Visitors Center and Campgrounds
- City of O'Fallon, IL | O'Fallon Community Park
- Old Post Office | Plaza Renovation, St. Louis
- Rockwood School District | Multiple Projects, St. Louis
- City of St. Charles | Riverfront Park





ROADWAYS AND BRIDGES

SAFE, QUICK, RELIABLE AND EFFICIENT ARE THE TENETS

of every transportation project designed by EDM.

Our team looks at the planning, functional design, operation and management of infrastructure, with a focus on its economic and environmental impact.

TRANSPORTATION DESIGN EXPERTISE

Curbs and Gutters
Grading and Drainage
Grant Assistance
Land Use and Rezoning
Life Cycle Cost Analysis
Hydraulic Modeling
Kiss and Ride Lots
Parking Analysis and Plans
Parking Garage Assessments
Parking Lots and Garages
Pedestrian Bridges
Permeable Pavements
Permitting
Risk Management/Safety
Road Bridges and Culverts
Roadways and Streets
SCADA Systems
Seismic Improvements
Sidewalk and Trails
Site Development
Stormwater Plans
Utility Accommodation and Coordination
Traffic Control Plans
Transportation Engineering
Wastewater Sewer Lines
Construction Observation and Administration



BELLEVILLE, IL | North 23rd Street

CLAYTON, MO | Hillcrest and Wydown Terrace Subdivisions

CREVE COEUR, MO | Ladue and Spoede Intersection

FAIRVIEW HEIGHTS, IL | Summit Avenue, Kassing Drive

FENTON, MO | Woodway Subdivision Streets/Storm Sewers

FLORISSANT, MO | Shackelford Road Improvements

FRONTENAC, MO

- Glen Abbey Road and Culvert
- Conway at Spoede Street Drainage

HAZELWOOD, MO

- Fee Fee Road Improvements
- Teson Road Drainage Design and Culvert

O'FALLON, MO

- Sonderen Road Bridge Replacement
- Mexico Road Widening

OVERLAND, MO | Woodson Road Reconstruction

ROCK HILL, MO | Kortwright Avenue, Madison Avenue

ST. CHARLES, MO | Hemsath Road Reconstruction

ST. LOUIS, MO

- Gratton Street at Truman Parkway Reconstruction
- St. Louis Lambert International Airport | Multiple Projects

ST. PETERS, MO | Executive Centre Parkway and Bridge

TOWN & COUNTRY, MO | Clayton Road Improvements

UNIVERSITY CITY, MO | Heman Park Centennial Commons

WENTZVILLE, MO | West Meyer Road and Bridge Replacement

MoDOT | MISSOURI DEPARTMENT OF TRANSPORTATION

- Hwy 21 Resurfacing, Jefferson County
- I-55 Ramps, Truman Parkway at Lafayette, St. Louis
- I-44 Updates and Overlay, St. Louis

ST. CHARLES COUNTY, MO

- Augusta Bottom Bridge and Road Improvements
- Old Hwy 79 Bridge Replacements
- Pitman Hill Road Design and Hydraulic Study

ST. LOUIS COUNTY, MO

- Barrett Station Road Improvements
- Laclede Station Road Improvements
- Mason Road Improvements





TRAIL AND SIDEWALKS

THE IMPACT OF TRAILS AND SIDEWALKS

EDM's experience covers a broad range of services that impact trails and sidewalks, including roadway reconstruction, widening, upgrades, new construction and related specialties including traffic, pedestrian safety, trail circulation, parking and signage.

EDM has designed trails or sidewalks for all projects listed at right.

TRANSPORTATION DESIGN EXPERTISE

Curbs and Gutters
Grading and Drainage
Grant Assistance
Land Use and Rezoning
Life Cycle Cost Analysis
Hydraulic Modeling
Kiss and Ride Lots
Parking Analysis and Plans
Parking Lots and Garages
Pedestrian Bridges
Permeable Pavements
Permitting
Risk Management/Safety
Road Bridges and Culverts
Roadways and Streets
SCADA Systems
Seismic Improvements
Sidewalk and Trails
Site Development
Stormwater Plans
Utility Coordination
Traffic Control Plans
Transportation Engineering
Construction Observation and Administration



CLAYTON, MO | Hillcrest and Wydown Terrace Subdivisions

EAST ST. LOUIS, IL | Malcolm W. Martin Memorial Park

ELLISVILLE, MO | Marsh at Hutchinson Improvements

FAIRVIEW HEIGHTS, IL | Summit Avenue, Kassing Drive

FENTON, MO | Woodway Subdivision Streets/Storm Sewers

FLORISSANT, MO | Shackelford Road Improvements

FRONTENAC, MO

- Oak Valley-Hickory-Geyer Crossing
- Glen Abbey Road and Culvert
- Conway at Spoede Street Drainage

HAZELWOOD, MO

- Hazelwood Park Trails
- Fee Fee Road and Sidewalk Improvements
- Teson Road Drainage Design and Culvert

LEWIS & CLARK COMMUNITY COLLEGE

- National Great Rivers Research Center
- N.O. Nelson Campus

MO DEPT OF CONSERVATION | Columbia Bottom Conservation Area

O'FALLON, MO | Mexico Road Widening

OVERLAND, MO | Woodson Road Reconstruction

ST. CHARLES, MO

- Hemsath Road Reconstruction
- Riverfront Park

ST. LOUIS, MO | Gratton Street at Truman Parkway Reconstruction

ST. PETERS, MO | Executive Centre Parkway and Bridge

TOWN & COUNTRY, MO | Clayton Road Improvements

UNIVERSITY CITY, MO | George Street Improvements

WENTZVILLE, MO | West Meyer Road and Bridge Replacement

WILBUR PARK | City-Wide Sidewalk Replacement

MSD | Lower Meramec WWTP Park

ST. CHARLES COUNTY, MO

- Augusta Bottom Bridge and Road Improvements
- Pitman Hill Road Design and Hydraulic Study

ST. LOUIS COUNTY, MO

- Barrett Station Road Improvements
- Laclede Station Road Improvements

