



**CDG**  
ENGINEERS

ENGINEERING  
A BETTER WAY

[cdgengineers.com](http://cdgengineers.com)

One Campbell Plaza  
St. Louis, Missouri 63139

ST. LOUIS, MO

CHARLOTTE, NC

SHERIDAN, WY

TROY, IL

## Roadway Design

- Planning & Routing
- New & Reconstruction
- Asphalt/Concrete Pavement
- Stormwater Analysis/Design
- Utility Coordination & Street Lighting

## Trails & Sidewalks

- Planning & Routing
- Environmental Reviews/Permitting
- Gravel/Asphalt/Concrete Surface
- Existing ADA Review
- ADA Compliant Design

## Construction Inspection

- Full LPA Project Inspection
- Support of LPA Staff
- Coordination with Contractor
- Diaries & Documentation
- Value Engineering Reviews

## Structures

- Culverts/Bridges/Miscellaneous
- Inspect/Rate Existing Structures
- New & Rehabilitation
- Hydraulic Studies/Analysis
- Cost Estimating/Analysis

## FIRM OVERVIEW

CDG is a full service, multi-discipline engineering firm with capabilities in civil, structural, mechanical and electrical engineering, as well as architecture. Services include planning, engineering and architectural design, and construction administration. CDG serves the fields of public works/infrastructure, power, industry and mining.

In 2022 CDG celebrates 30 years of engineering excellence. We have built our reputation on referrals and repeat business and have created trusted partnerships with our clients that is based on integrity, value and responsiveness.



**30 Years**  
Of Engineering  
Excellence



**80 + Staff**  
Firm-Wide



**300 +**  
Trail, Roadway, Sidewalk  
& ADA Improvements in  
the Last 5 Years



**200 + Bridges**  
Designed &  
Inspected by CDG Staff



## Roadways

CDG provides clients with full spectrum engineering solutions. Our experienced staff has expertise in roadways, streambank stabilizations, hydraulics & hydrology.



## Trails and Sidewalks

CDG recognizes the importance of pedestrian-friendly environments and is committed to healthy and safe communities. Many of our roadway projects involve upgrading pedestrian facilities to meet ADA requirements.



## Structures

CDG provides clients with practical and cost-effective structural engineering solutions. Our team of structural engineers specializes in stream crossing bridges, grade separations, culverts, retaining walls & other unique structures.





**Henry Avenue Roadway Improvements, STP-4939(604), City of Ballwin, MO** – 1.3-miles of roadway improvements from Clayton Road south to the City limits. Cold milling and resurfacing of 4-5 inches of asphalt pavement; replacement of structurally deficient curb and gutter sections; new curb and gutter; re-established gutter capacity where curb was overlaid; stormwater upgrades, new storm sewers where needed; new sidewalks; upgraded existing sidewalks and curb ramps to comply with ADA requirements; striping and crosswalks.



**Boeuf Creek Road Bridge Replacement, STP-5490(615), Franklin County, MO** – Replacement of existing bridge and roadway realignment over a tributary to Boeuf Creek. The existing bridge carried a single lane of traffic. A 65' long single span precast, prestressed concrete spread box beam bridge on pile cap integral end bents was the best solution for this site. Two 12' lanes with 2' shoulders were provided. The road was raised slightly at the bridge and approaches to accommodate the increased depth of the new, longer bridge. CDG provided both design and construction engineering services for this project.



**Rock Island Spur Trail (47-mile Extension of Katy Trail State Park), Missouri State Parks** – CDG designed this western Missouri ped/bike trail and performed construction inspection between Windsor and Pleasant Hill, Missouri along the abandoned Missouri Central Railroad corridor. The 12' wide gravel trail travels over 85 existing bridges and culverts. Several trailheads and road crossings over county/state routes were developed during design.



**Lucas-Hunt Road (North) Improvements, St. Louis County, MO** – Project manager for civil engineering and design services for 1.3 miles of roadway improvements to Lucas-Hunt Road between Hord/Huiskamp Avenue and Halls Ferry Road (HWY AC). Project work included of surveying, utility coordination, stakeholder coordination, and environmental permitting. Design consisted of cold milling 3 inches of asphalt pavement, asphalt resurfacing, partial depth pavement & concrete base repairs, pavement joint repairs, guardrail removal and replacement to meet MASH standards, replacement of structurally deficient concrete curb & gutter and sidewalk sections, upgrading curb ramps to comply with ADA requirements, traffic control, and erosion control.



**Longview Drive Bridge, St. Louis County, MO** – St. Louis County DOT needed to replace Bridge No. 511 located immediately east of State Route 61/67 (Ferry Road). It was determined to temporarily divert and construct a two-lane temporary road to the north across private property in an easement then returning the ground to its original condition. A temporary bridge would be leased for six months by the contractor to convey up to a 50-year flood event. The winning contractor chose to construct a temporary cast-in-place single cell box culvert with minimal wing walls rather than leasing a temporary bridge. A custom designed single cell 20' wide x 8' tall cast-in-place box culvert was selected as the best option with a slightly raised deck. After the new bridge was constructed the temporary road and box culvert were removed and the site was re-graded and vegetated with native grasses. It was turned back over to the property owner.



**Laclede's Landing Street Improvements, HUD No. 2008-DI-114, City of St. Louis L.C.R.A. (Land Clearance for Redevelopment Authority)** – \$5.2M project to reconstruct 1st and 2nd Streets in Historic Laclede's Landing in downtown St. Louis. Removed cobblestones and upgraded underground utilities. Reset cobblestones and added concrete curb and gutter. New concrete sidewalks and cross walks (redesigned 35 ADA compliant curb ramps). Improved stormwater system and replaced entire street lighting system and power supply. CDG performed all LPA required CE inspections, documentation and submittals. **This project won an Engineering Excellence Award in Spring 2022 from the American Council of Engineering Companies (ACEC) Missouri Chapter!!**

