

RELATED EXPERIENCE

Sidewalk / Pedestrian / Bike Trail System Jefferson City Parks, Recreation and Forestry Department

MECO planned and designed 22,000 LF sidewalk and trail system for the Jefferson City Parks, Recreation and Forestry Department. This system connects schools, parks, residential areas, local business districts, and an important medical center, providing safer walking and biking environments throughout many areas of the community for students, residents, and employees of the medical center.

MECO's Enhancement Division worked closely with the Jefferson City Medical Group (JCMG) and the Jefferson City Parks Department to coordinate and design the site plan for the location for this new pedestrian and bike trail.

The new Satinwood Trail connects the Wear's Creek Trail, providing trail access to the Jefferson City Medical Group (JCMG) facility.

The JCMG provided financial assistance and ROW for the trail to ensure the completion of this important project for their employees.



Satinwood Pedestrian & Bike Trail Jefferson City Parks, Recreation and Forestry Department

2,440 LF of concrete trail construction and permanent signage. Modular block retaining wall, pedestrian handrail, relocation of existing light pole, storm sewer piping to manage stormwater along trail, rock excavation calculations, concrete ditch and construction of trail over existing box culvert. MoDOT coordinated for approval of plans and specifications, Ameren UE Coordination relating to trail construction around substation with electric grounding grid system, coordination with Ameren UE to relocate guy wire, coordination with Jefferson City Parks Department, coordination with Jefferson City Medical Group Site Planning Team, coordination of project planning with Jefferson City Public Works.

Schnucks Crossroad Trail

580 LF of new concrete trail, 210 LF of transitional and replacement surface, 278 LF of paved ditch, Rock Blanket with filter cloth, four additional storm inlets.



MECO Project Manager, Scott Vogler assisted with the coordination efforts that were required to secure the necessary buffer corridor for the Schnuck's Cross Road Trail Project.

Mr. Vogler acted as the liaison between the City of Jefferson, Schnucks Grocery, and the Jefferson City Parks, Recreation and Forestry Department, successfully securing the corridor to construct the desired trail.

Wildwood Pedestrian & Bike Trail System Jefferson City Parks, Recreation and Forestry Department

1,829 LF of concrete trail, pedestrian handrail, construction and permanent signage, modular block retaining wall, relocate existing business signage, relocate existing street signage, relocate existing fire hydrants, adjust water valves, water meters, telephone manholes, and fiber optic boxes to proposed grade conditions.

Coordinated with Missouri Department of Transportation to get approved plans and specifications to bid project with MoDOT Enhancement Funds, project planning with City of Jefferson Parks and Recreation Department, Ameren-UE to replace existing pole with self-sustaining pole/relocate power pole guy wires, Water District #2 – worked with District to relocate or adjust existing water valve, water meters, fire hydrants, and waterline being disturbed by proposed improvements. MECO also coordinated with private landowners to adjust or relocate privately owned fire hydrants and waterline, business owner to relocated signage and flagpoles to be disturbed by project, worked with Sprint to adjust telephone manholes found throughout project, verify location and depth of fiber optic cable in field we dug around during project, and worked with private business owner to relocate private fiber optic line located in project area.

Wicker Lane Pedestrian & Bike Trail System Jefferson City Parks, Recreation and Forestry Department

1,100 LF of concrete trail, gravity block retaining wall, adjusting sewer manholes, significant storm sewer design, hydraulic design calculations.

Mr. Vogler coordinated planning, design and construction activities with the City Public Works Department, the City Parks, Recreation and Forestry Department, and MoDOT officials. Mr. Vogler was also the project contact for the various utility companies who had an interest in the project as the Wicker Lane

Pedestrian and Bike Trail traversed through and impacted their various utility corridors.

Trails, Sidewalks, Enhancements City of Hannibal, MO

MECO had been actively involved with the City's Riverfront and Enhancement Program for years, resulting in the planning, funding, design and construction of Phases 1-7 of the Mark Twain Area Historic District Restoration and Trail System Development.

These projects greatly enhanced the Mississippi Riverfront and developed a trail system that now provides connectivity from the Historic Downtown District to Riverview Park and out to Warren Barrett Drive via South main through the Bear Creek Trail and the Tom Sawyer Trail Systems. These trail systems link to Veterans Road to the west. This north-south connector roadway has designated bike lane striping and signage, added as a component of Part 7.

The Kondor Street Mountain Bike System was constructed to add to bicyclists' experience. Visitor's to the City of Hannibal look forward to riding the many bike-ways now available to them, increasing tourism, providing important economy to the City and the area, and bringing awareness of what the City has to offer.

Other projects included at the Riverfront included a brick-paved fountain, two scenic overlooks, a new trail head building, a new parking lot/loading area for tourist buses and arriving steamboats at the riverfront dock; informational directional signage, period style lighting throughout downtown and along the riverfront, streetscape, and beautification.



Safe Routes to School Enhancement Marion County RII School District

MECO prepared Safe Routes to School enhancement plans, specifications, engineer's estimate, and contract documents to construct sidewalk within the community of Philadelphia, MO.



MoDOT TAP City of Kahoka, MO

This project consists producing a 2020/21 MoDOT TAP Grant application for sidewalk improvements. The project will be similar in scope to the 2016/2018 TAP application, proposing improvements to sidewalks east of the downtown square and around to the new farmer's market.

Safe Routes to School Enhancement City of Kahoka, MO

Topographic survey, research property ownership adjacent to project, provide section corner ties, provide plans, specifications, and bid documents for sidewalk improvements to meet ADA requirements, provide assistance with bid advertisement, bid opening, and award.



TRANSPORTATION ENGINEERING

MECO specializes in the planning and design, project management, and construction management of streets, roadways, highways, bridges, small airports, and stormwater facilities. These projects vary from new construction to replacement and rehabilitation of existing structures and facilities. Our professionals are experts at stormwater management and utility relocation analysis and design. Specialized project-related services provided by our firm include:

Specialized Services

- Boundary and topographic surveys
- Aerial photography control surveys
- Preparation of right-of-way and easement documents
- Easement acquisitions assistance
private landowners/governmental properties
- Preliminary Engineering Reports/
Feasibility Studies/Facility Plans
- Cost Estimates
- Streets, roads, highway design, including asphalt,
concrete, brick and stabilized base construction
new construction/rehabilitation
- Roadway geometry, road alignment/
realignment, cross section profiles
- Pavement design
- Bridge design
- Rail spur design in accordance
with railroad specifications
- Geotechnical report evaluations
- Permitting applications
MoDOT/IDOT, railroad, MDNR (utility/SHPO/parks/
land disturbance), IEPA (water/wastewater), FAA,
US Army Corps of Engineers, local governments,
regulatory agencies and others as applicable
- Computer-aided design drafting
- Computer modeling for stormwater
analysis and hydrologic/hydraulic studies
utilizing US Army Corps of Engineers HEC-RES
- Environmental/archaeological report evaluations

Infrastructure design needs associated with transportation and stormwater projects

- Relocation of existing utilities
underground/aerial
- Stormwater management facilities
- Sediment and erosion control
- Stormwater detention studies
- Sidewalk design
- Infrastructure system mapping
- Street and utility mapping

Project Related Services

- Construction observation services
- Construction management services
- MoDOT/IDOT certified technicians
- Multi-agency coordination with
state and federal funding agencies
MoDOT/IDOT/CDBG/CDAP/IEPA
- Funding application assistance
- Financing options planning assistance
- Master and strategic planning