JULIAN MERCER

CIVIL ENGINEER

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PROFESSIONAL SUMMARY

Licensed Civil Engineer with 8+ years designing stormwater, roadway, and site infrastructure for public and private clients. Produces calculations, drawings, specifications, and permit packages that are accurate, buildable, and coordinated with surveyors, contractors, utilities, and agencies.

PROFESSIONAL EXPERIENCE

Senior Civil Engineer Jan 2023 - Present
AECOM, Atlanta, GA

- Lead design of stormwater and roadway improvements for a $42M corridor project, supervising three engineers and two CAD technicians and reporting progress to the client monthly.
- Prepared 60%, 90%, and final plan sets with specifications and quantities, keeping the engineer's estimate within 4% of the low bid and answering every reviewer comment in writing.
- Coordinated with utility owners and the state DOT on conflicts through a shared clash log, resolving 28 clashes before the advertisement date and avoiding later change orders.
- Reviewed geotechnical reports and pavement designs with the client and geotechnical engineer, choosing a section that reduced base thickness and saved about $600K in materials.
- Presented design options at three public meetings, answering resident questions on drainage, access, and construction staging, and logging each comment for the project record.

Civil Engineer Jan 2021 - Dec 2022

- Modelled drainage networks in Civil 3D and SWMM, sizing detention basins and pipe runs that met county peak-flow limits for both the 25-year and the 100-year storm events.
- Developed roadway plan and profile sheets for four intersection upgrades, coordinating sight-distance and ADA checks with the state DOT reviewer.
- Assisted the project manager with 30% and 60% cost estimates, keeping quantity checks documented for client review.
- Visited active sites monthly to review work against design intent and the approved drawings, documenting field changes and photographs for the engineer of record.

Civil Engineer Jul 2018 - Dec 2020
Jacobs, Charlotte, NC

- Designed water main replacement segments totalling 6.5 miles for a regional utility, preparing hydraulic checks, plan and profile sheets, and permit applications for each segment.
- Produced erosion and sediment control plans for four sites, securing approval from the state agency on the first review with no resubmittals.
- Checked consultant and in-house calculations through a documented review process that reduced design comments at bid by about a third across the group.
- Responded to contractor RFIs during construction, issuing clarifications in two days on average and marking up the drawings so field crews avoided delays and rework.
- Built an Excel and Civil 3D quantity takeoff template that the wider design team adopted, shortening estimate preparation by about 20% and reducing arithmetic errors at review.

CORE SKILLS

Stormwater design | Roadway design | Civil 3D | SWMM | HEC-RAS | Site grading | Utility design | Permitting | Quantity takeoff | Cost estimating | Plan and specification production | Geotechnical coordination | AutoCAD | Technical review | Public engagement | Construction administration | Team supervision | Hydraulic analysis

EDUCATION

M.S. in Civil Engineering, Georgia Institute of Technology, Atlanta, GA

CERTIFICATIONS

Professional Engineer (PE) | Fundamentals of Engineering (EIT) | Certified Stormwater Manager