LAURA BISHOP

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SUMMARY

Bridge engineer and PE with 6 years of bridge design for state DOT and municipal clients, covering prestressed girder, steel plate girder and culvert replacements. Designs to AASHTO LRFD with LEAP Bridge, MDX and Mathcad, and produces plans in MicroStation and OpenRoads for 12 let projects.

SKILLS

- Bridge Design
- AASHTO LRFD
- LEAP Bridge
- MDX
- Mathcad
- MIDAS Civil
- MicroStation
- OpenRoads
- Load Ratings
- Excel

CERTIFICATES

Professional Engineer (PE), Civil

North Carolina Board of Examiners for Engineers and Surveyors

2024

EXPERIENCE

Bridge Engineer

Tar Heel Transportation Engineers • Raleigh, NC

02/2022 - Present

Transportation design firm working on NCDOT and county bridge programs.

- Design **9** bridge replacements, from 80-foot prestressed spans to a 3-span steel girder bridge.
- Analyze 60 girder lines a year in LEAP Bridge and MDX and check substructures in Mathcad to AASHTO LRFD.
- Produce bridge plans in MicroStation and OpenRoads that passed NCDOT review with no major comments.
- Estimate quantities and costs for 12 let projects, with bids averaging within 6% of the estimate.
- Coordinate with roadway, hydraulics and geotechnical teams on foundation and grade decisions for 4 interchanges.

Bridge Engineer

Piedmont Infrastructure Group • Greensboro, NC

06/2020 - 01/2022

Civil engineering firm serving municipal clients.

- Calculated load ratings for 35 existing bridges in MIDAS Civil and Excel.
- Designed 6 box culvert extensions and wrote special provisions.
- Examined 20 bridges with the inspection team and recorded deficiencies for repair plans.

EDUCATION

Bachelor of Science

North Carolina State University • Raleigh, NC • 05/2020

Civil Engineering