STRENGTHS

Field Investigation
Field observations connected soil, groundwater, pavement, and foundation evidence with practical recommendations. Teams trusted findings during difficult site decisions.

Construction Response
When unsuitable soils or pavement issues surfaced, technical resources and corrective actions were coordinated quickly. Field teams gained clear next steps.

Plan Review
Roadway, bridge, retaining wall, and foundation plans received focused constructability review. Early questions helped prevent avoidable field surprises.

Technical Coordination
Designers, contractors, laboratories, maintenance staff, and specialists stayed aligned through documented decisions. Colleagues sought concise guidance on difficult issues.

Quality Assurance
Engineering rationale and testing records supported dependable recommendations. A careful paper trail gave project leaders confidence during review and construction.

SKILLS

Geotechnical engineering

Pavement engineering

Transportation engineering

Nadia Webster

Transportation Engineer, Senior Geotechnical Engineer

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SUMMARY

Licensed transportation and geotechnical engineer with eight years of progressive experience supporting roadway, bridge, pavement, retaining wall, and foundation projects from investigation through construction. Evaluates subsurface and pavement conditions through **field investigation**, testing, **engineering analysis**, and **design plan review**. Develops practical **corrective recommendations** for unsuitable soils, settlement, groundwater, pavement distress, excavation, embankment, and foundation concerns. Serves as a senior technical resource for designers, construction staff, consultants, contractors, bridge specialists, maintenance personnel, and permit teams. Coordinates retaining wall inspections and monitoring follow up with structural specialists. Communicates risk based recommendations clearly, supports quality assurance, and helps deliver safe, resilient transportation assets across regional programs.

EXPERIENCE

Senior Geotechnical Engineer

Harborline Infrastructure Group January 2024 - Present Ann Arbor, MI

Leads geotechnical support for regional roadway, bridge, retaining wall, and foundation assignments. Serves as senior technical resource across investigation, **design review**, construction response, maintenance guidance, permit support, and retaining wall monitoring. Coordinates technical decisions with designers, construction staff, structural specialists, consultants, contractors, and field personnel.

- Reviewed boring logs, laboratory results, and pavement data, identifying constructability risks before design approval.
- Investigated unsuitable **soils**, settlement, groundwater, and pavement distress, guiding practical corrective recommendations for project teams.
- Coordinated retaining wall inspections with **structural specialists**, improving follow up on earth retaining structure conditions.
- Advised maintenance and permit teams on **pavement** rehabilitation, drainage concerns, and localized geotechnical conditions.
- Documented engineering rationale and **quality assurance** requirements, strengthening consistency across regional transportation assignments.
- Supported bridge and roadway **construction** teams with field observations, design clarification, and constructability guidance.

Geotechnical Engineer

TerraSpan Engineering June 2021 - December 2023 Lansing, MI

Delivered **geotechnical engineering** for highway reconstruction, bridge replacement, retaining wall, and deep foundation programs. Connected subsurface exploration, testing, plan review, field engineering, and technical reporting with practical decisions for design and construction teams. Coordinated consultants, laboratories, contractors, and internal disciplines through issue resolution.

- Planned subsurface exploration for highway reconstruction, translating soil and groundwater findings into design recommendations.
- Reviewed roadway and bridge plans, resolving foundation assumptions and construction sequencing concerns before field mobilization.
- Provided **field engineering** during excavation, subgrade, embankment, foundation, and pavement work, reducing unresolved site issues.
- Coordinated laboratories, consultants, contractors, and designers, closing technical questions through documented engineering decisions.
- Prepared geotechnical reports and memoranda, connecting investigation results with practical construction guidance for project stakeholders.
- Evaluated **pavement** and subsurface data, supporting **corrective treatments** for rehabilitation and replacement decisions.

Subsurface investigations

Soil testing | Pavement evaluation

Road construction

Bridge construction

Retaining walls | Foundations

Design plan review

Field engineering

Quality assurance | Constructability

Corrective treatments

LANGUAGES

English — Native

Spanish — Intermediate

MY CAREER

- Senior Geotechnical Engineer at Harborline Infrastructure Group (2.7 Years)
- Geotechnical Engineer at TerraSpan Engineering (2.5 Years)
- Transportation Engineer at Midwest Civil Works (2.8 Years)
- Civil Engineering Research Assistant at Campus Transportation Research Lab (9 Months)

Transportation Engineer

Midwest Civil Works | July 2018 - May 2021 | Kalamazoo, MI

Supported transportation assignments involving roadway and **bridge construction**, **pavement evaluation**, plan review, field observation, materials documentation, and geotechnical coordination. Built progressively stronger judgment through direct exposure to grading, drainage, earthwork, retaining wall, foundation, and corrective treatment decisions during active projects.

- Evaluated **pavement** conditions and construction records, supporting rehabilitation recommendations for roadway improvement assignments.
- Reviewed grading, drainage, earthwork, retaining wall, and foundation details against project criteria before construction.
- Tracked field testing and nonconforming conditions, escalating evidence and proposed next steps to engineering leads.
- Coordinated design questions between field staff and engineering disciplines, keeping active construction decisions documented.
- Observed **road and bridge construction** activities, connecting materials records with **quality assurance** and field engineering needs.
- Prepared concise field documentation, helping project teams address geotechnical concerns before they affected delivery.

Civil Engineering Research Assistant

Campus Transportation Research Lab | September 2017 - June 2018 | Kalamazoo, MI

Supported supervised pavement condition research connected with roadway materials and **transportation engineering** coursework. Organized field observations, laboratory records, sample tracking, maps, figures, and technical summaries. Applied soil mechanics and spreadsheet analysis under faculty direction, building a practical foundation for professional pavement and geotechnical work.

- Organized **pavement** observations and laboratory records, supporting faculty analysis of asphalt and subgrade samples.
- Compared test results with spreadsheet methods, identifying inconsistent records before technical review and presentation.
- Prepared maps, figures, and concise summaries, helping research meetings stay focused on evidence and findings.
- Documented testing procedures and sample records, supporting repeatable evaluation during supervised transportation research.
- Connected soil mechanics coursework with pavement and foundation behavior through structured field and laboratory observations.

PROJECTS

Regional Retaining Wall Monitoring Program | 2025

Some infrastructure problems remain quiet until field evidence makes them visible. Coordinated inspection follow up with structural specialists, reviewed earth retaining conditions, and organized practical documentation for regional maintenance decisions.

Pavement Rehabilitation Investigation Program | 2023

Good pavement decisions begin below the visible surface. Evaluated pavement distress, subsurface information, testing records, and construction conditions to support corrective treatment recommendations for roadway rehabilitation.

Bridge Foundation Constructability Review | 2022

A foundation plan earns confidence through questions asked early. Reviewed bridge plans, soil information, sequencing assumptions, and field constraints to connect design intent with constructible solutions.

LEADERSHIP & AWARDS

- Michigan Professional Engineer license earned in 2022, reflecting progression into senior transportation and geotechnical practice.
- Senior technical resource designation at Harborline Infrastructure Group, supporting regional roadway, bridge, pavement, and foundation assignments.

- Faculty supervised transportation research contribution, supporting pavement condition analysis and traceable laboratory documentation.

EDUCATION

Bachelor's Degree in Civil Engineering

Western Michigan University GPA: 3.7 2018 Kalamazoo, MI

Coursework: *Soil Mechanics, Pavement Design, Foundation Engineering, Transportation Engineering*

CERTIFICATIONS

- Professional Engineer, Michigan 2022
- Valid Michigan Driver's License 2022

TECHNICAL SKILLS

- **Geotechnical Investigation:** Boring logs, Soil sampling, Groundwater evaluation
- **Pavement Engineering:** Pavement evaluation, Pavement distress, Rehabilitation design
- **Field Testing:** Subgrade testing, Materials testing, Laboratory coordination
- **Transportation Construction:** Road construction, Bridge construction, Field engineering
- **Foundation Engineering:** Deep foundations, Foundation review, Bearing conditions
- **Retaining Walls:** Earth retaining structures, Wall inspections, Wall monitoring
- **Design Review:** Design plan review, Constructability review, Sequencing review
- **Quality Assurance:** Testing records, Recommendation review, Nonconformance tracking
- **Corrective Treatments:** Soil stabilization, Pavement rehabilitation, Subgrade correction
- **Technical Documentation:** Engineering reports, Technical memoranda, Field documentation
- **Drainage Engineering:** Drainage review, Groundwater concerns, Erosion conditions
- **Permitting Support:** Permit support, Maintenance guidance, Regional coordination

PROFESSIONAL AFFILIATIONS

- Professional engineering community participant focused on transportation, pavement, and geotechnical practice.
- Michigan transportation engineering network participant supporting practical exchange across design, construction, maintenance, and structural disciplines.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST