

Seth T. Hoffman, PE, SE

Aurora, IL 60506

Phone: [REDACTED] E-Mail: [REDACTED]

Education:

University of Illinois	May 2010
MS in Civil Engineering (Structural)	GPA: 3.86
University of Illinois	May 2008
BS in Civil Engineering (Structural/Geotechnical)	GPA: 3.99

Work Experience:

Brierley Associates Corporation	STRUCTURAL AND GEO-STRUCTURAL ENGINEER
	June 2017 – Present

- Design of temporary structures, systems, and operations for heavy civil, industrial, power, and building projects throughout the United States and Canada
- Design of earth-retention and underground structures
- Perform design calculations, prepare drawings, reports, and memoranda
- Manage budgets and schedules for design tasks and projects
- Communication and relationship building with internal and external clients
- On-site engineering support for construction projects in United States and Canada

Kiewit Infrastructure Engineers	STRUCTURAL DESIGN ENGINEER AND TEAM LEAD
	June 2010 – May 2017

- Designed of temporary structures, systems, and operations for heavy civil, industrial, power, and building projects throughout the United States and Canada
 - Performed design calculations, prepare drawings, reports, and memoranda
 - Managed budgets and schedules for design tasks and projects
 - Communication and relationship building with internal and external clients
 - Lead engineering teams ranging in size from two to six
 - Conducted university recruiting and interviews for interns and full-time hires
 - Coached and mentored interns and new hires
 - On-site engineering support for construction projects in United States and Canada
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Project Experience Highlights:

Fred and Pamela Buffett Cancer Center – Omaha, Nebraska

2013-2015

Kiewit was the general contractor on a new \$250 million cancer research hospital for the University of Nebraska Medical Center, located on their busy existing Midtown Omaha campus. In addition to a new 600,000ft² 10-story cast-in-place concrete structure, Kiewit's scope of work included foundations, deep excavations, utilities, and significant coordination with and protection of the surrounding hospital and research buildings. My role was the temporary structures coordinator, which included:

- Management of all construction engineering on the project, including designs, reviews, and inspections for a \$450,000 construction engineering budget
- Planning and estimating construction engineering needs and setting the initial construction engineering budget
- Working with superintendents and field engineers to identify design needs, develop concepts, and progress the design to completion
- Perform calculations and prepare final drawings and reports for design/review tasks
- Work closely with owner's structural engineer-of-record to resolve construction conflicts, quality problems, and other field issues
- Coordinate and manage subcontractors' preparation and submittal of shop drawings for concrete reinforcing, structural steel, and falsework/formwork
- Coordinate MEP detailing with structure and resolve conflicts

Lower Mattagami River Project – Kapuskasing, Ontario

2013

Kiewit was the Design-Build Contractor for the Lower Mattagami River Project which included redevelopment of three existing hydroelectric dams and replacement of a fourth for Ontario Power Generation. The approximately \$1.6B project increased the capacity of the existing dam complex by nearly 450 MW. My role included:

- Design of falsework for the turbine scroll case construction
- Onsite inspection of falsework and design revisions to resolve construction quality issues
- On-site engineering support for heavy lift operations
- On-site inspection and supervision of cofferdam repairs and retrofits

Terra Nova FPSO Turnaround – Marystown, Newfoundland

2012

Kiewit was the General Contractor for a \$60 million repair and retrofit project for the Terra Nova FPSO for Suncor Energy. The Terra Nova is an oil-production vessel servicing an oil field in the Grand Banks of Newfoundland, which required significant repairs 10 years into her 30-year design life. Work was performed at Kiewit's Marystown, Newfoundland shipyard and offshore facility during a strict 66-day turnaround period. The shipyard facility required substantial repairs and upgrades to prepare for the project, and since schedule was critical to the owner, extremely detailed planning was conducted to minimize unexpected delays. My role included:

- Inspection and testing of deteriorated site infrastructure, evaluation, design of repairs and retrofits
- Supervision and inspection of temporary works construction and repairs
- Planning and brainstorming with superintendents to avoid and solve problems
- Management of construction engineering designs, reviews, and planning during FPSO repairs
- Perform calculations and prepare final drawings and reports for design/review tasks
- Work with owner's representatives to accommodate scope changes and resolve conflicts and unforeseen conditions

Software Experience:

- **RISA-3D**
- **Mathcad**
- **AutoCAD**
- **Microsoft Office**
- **spMats**
- **spColumn**
- **Anchor design software**
- **SupportIT**
- **Crane GPB Software**
- **IES Shapebuilder**
- **MIDAS FEA and Civil (limited)**

Professional Recognition, Affiliations and Licensure:

- **Licensed Structural Engineer** – Illinois and Nebraska
- **Licensed Professional Engineer** – Illinois, Nebraska, Minnesota, Tennessee, and Georgia
- **Board Member, Structural Engineers Association of Nebraska**
- **Member, American Institute of Steel Construction**

References Available Upon Request