

Exponent®
Engineering & Scientific Consulting

Will Beckman, M.S.

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Professional Profile

Mr. Beckman brings 8+ years of experience delivering a wide range of transportation infrastructure work and complex heavy civil projects. He specializes in connecting constructability and execution planning with schedule, cost, and contract requirements to identify risks early, support change orders, and resolve construction disputes.

Mr. Beckman has supported infrastructure programs totaling more than $5B in constructed value, providing construction consulting services from preconstruction estimating and bid strategy through field execution and final acceptance. His work includes engineering change management, specialty structure installation support, subcontractor and supplier coordination, procurement planning, and development of work plans, sequencing, and acceptance packages.

He has managed public agencies, municipal owners, and major contractors on high-visibility projects with tight schedule, budget, and regulatory constraints, addressing constructability conflicts, schedule compression, quality disputes, and cost overrun mitigation. Experienced in managing diverse project scopes including pressurized waterline relocations, civil roadway electrical tie-ins, heavy civil excavations, and structural steel and concrete erection. He has also operated in active litigation environments and federally funded programs requiring disciplined contract administration and defensible documentation.

Mr. Beckman’s approach integrates field-based constructability review with cost-loaded scheduling in Primavera P6, work breakdown structure (WBS) cost analysis, and contractual expertise to identify execution risks early and deliver practical, field-executable solutions. He has directly managed more than 30,000 labor hours with zero recordable injuries, reflecting a consistent focus on safety, quality, and operational discipline.

Before joining Exponent, Mr. Beckman served in operational engineering and field leadership roles with large heavy civil construction companies, Kiewit Corporation and Shimmick Corporation. He managed safety, cost, and schedule on high-profile projects including state-of-the-art sports venues, landmark bridge suicide deterrent systems, marine demolition, elevated light rail systems, signature bridge erection, and large-scale land development. He earned his Master of Engineering in Construction Engineering and Management and his Master of Science in Naval Architecture and Marine Engineering, both from the University of Michigan, and his Bachelor of Science in Civil Engineering from the University of Colorado, Boulder.

Academic Credentials & Professional Honors

M.Eng., Construction Engineering and Management, University of Michigan, 2015

M.S., Naval Architecture and Marine Engineering, University of Michigan, 2015

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B.S., Civil Engineering, University of Colorado, Boulder, 2013

Project Experience

Preconstruction and Project Estimating - Mr. Beckman supports preconstruction planning and estimating efforts through the development of quantity takeoffs, cost models, and resource allocation strategies. He contributes to bid development, value engineering, constructability evaluations, and risk identification to support informed decision-making and optimize project delivery approaches in early project phases.

Contract Methodology and Execution Strategy - Mr. Beckman supports the development and implementation of construction execution strategies aligned with contract delivery methods and project constraints. His experience across multiple delivery models enables him to integrate constructability analysis, scheduling, cost considerations, and stakeholder coordination to develop practical, field-driven approaches and advise clients on execution strategies that best support successful project outcomes.

Contract Negotiation and Procurement - Mr. Beckman provides contract development and procurement support across multiple construction scopes, including defining work packages, qualification reviews, evaluating contractor proposals, and negotiating contractual agreements. He supports contractor selection, scope alignment, and procurement strategy to ensure cost-effective, constructible, and well-defined execution.

Project Controls - Mr. Beckman provides project controls and construction management support on large-scale capital programs, including CPM schedule development and maintenance, cost forecasting, change order tracking, and contract documentation. He supports clients in evaluating cost and schedule impacts, identifying variances, and aligning execution with contract requirements to mitigate risk and maintain project performance. He can diagnose schedule slippage and cost growth by linking CPM logic to field production and sequencing constraints.

Risk Assessment and Mitigation - Mr. Beckman supports identification, evaluation, and mitigation of construction risks throughout the project lifecycle. He applies field experience and project controls insight to proactively identify execution risks, develop mitigation strategies, and support informed decision-making.

Construction Operations and Field Execution - Mr. Beckman provides field operations leadership and coordination for complex infrastructure projects in high-risk, schedule-driven environments. He supports constructability planning, work sequencing, access and temporary works strategies, risk management, resource management, and subcontractor coordination to maintain production efficiency, safety performance, and quality outcomes. Specialty Field Experience includes:

- Structural steel erection and retrofit on high-visibility bridge programs
- Precast segmental bridge erection using gantry systems and multi-shift operations
- Cast-in-place concrete structural systems
- Rail and transit systems construction, including track installation and guideway work
- Marine construction and demolition operations in regulated and logistically complex environments
- Explosives operations including transport and permitting logistics
- Heavy civil site development and retaining systems construction under constrained access conditions
- Utility installation and infrastructure coordination

Change Order Management, Negotiation, and Resolution - Mr. Beckman supports change order development, evaluation, and resolution through analysis of contract requirements, field conditions, and scope impacts. He assists clients in documenting cost and schedule changes, evaluating entitlement, facilitating negotiations, and resolving disputes to minimize risk and maintain project continuity.

Quality Control and Assurance - Mr. Beckman provides QA/QC planning and execution support, including development of inspection plans, acceptance documentation, and compliance verification processes. He works with field teams and clients to ensure construction activities meet contractual requirements, technical specifications, and performance standards, while supporting resolution of quality-related issues and nonconformances.

Claims and Dispute Support - Mr. Beckman supports construction claims and dispute resolution efforts through analysis of project documentation, contract requirements, and field conditions. He assists in evaluating cost and schedule impacts, developing defensible narratives, and supporting technical assessments related to delays, scope changes, and execution challenges.