Grant Waldie PE, P.ENG., PMC

Business Group Leader – Transportation

Location

Denver, CO, USA

Experience

20 years

Qualifications/Accreditations

- Bachelor of Science, University of British Columbia
- Advanced Diploma of Civil Engineering, Camosun College
- Civil Engineering Technology Diploma, Camosun College

Key technical skills

- Conceptual Design
- Permitting
- Independent Design Review
- Studies / Life Cycle Cost Analysis
- Construction Management
- Load-Rating
- Structural Inspections
- Fabrication Inspections
- Emergency Response
- Rehabilitation and Reconstruction
- Software Development
- Business Development
- Risk Management
- Corporate Finance
- Corporate Strategy
- Technical Integration of Mergers and Acquisitions

Memberships

Professional Engineer (9 PE / 6 P.Eng.)

- California (98778), 12/19/2025
- Colorado (PE.0060891), 06/10/2022
- Connecticut (PEN.0037749), 06/28/2024
- Illinois (062.066741), 08/19/2014
- South Dakota (16162), 11/01/2022
- Texas (128492), 11/08/2017
- Utah (13052347-2202), 09/27/2022
- Virginia (402070732) 09/30/2025
- Washington State (0051783), 06/26/2014
- British Columbia (40983), 11/04/2014
- Alberta (122983), 08/20/2015
- Saskatchewan (36468), 04/19/2016
- Manitoba (40675), 05/12/2016
- Ontario (100233977), 05/06/2016
- Nova Scotia (11311), 01/01/2015

Project Management Certificate (PMC), 2018

Relevant experience summary

Grant has 20 years of experience and progressive responsibility in Civil and Structural engineering consulting. He is heavily experienced in Project / Program Management, Business Development / Proposal Creation, Executive Management, and has a technical expertise in structural inspections, having personally carried out over 1,600 across the USA and Canada. He has worked with every Class I Railway as well as Amtrak, California High Speed Rail, WMATA, MARTA and numerous other commuter lines.

Since beginning his engineering career, Grant has been intimately involved in every step of project management and was the youngest *Management Certified Project Manager* in Canada before he transferred to the USA at a former firm. Grant is experienced in each of the four phases of a project from planning, to build-up, to implementation, to closeout. He takes pride in being involved in all tasks of a project, while maintaining a hands-off approach when tasks are outside of his areas of expertise. His book on project management: *"Random Advice for Business & Life"* has made its way into the top 1% of sales on Amazon.com, and he enjoys mentoring junior staff.

Program Management

Grant has worked in program management for New Jersey Transit's Positive Train Control Implementation Program. He attended weekly meetings with NJT as well as the client's engineer-of-record firm. As the project was coming to a close, these meetings were in regard to project closeout and were focused on resolving final invoicing issues, onboarding / training of staff of the PTC software / hardware, and resolving all outstanding issues to successfully close out this $240 million program.

Grant was also the PM for Norfolk Southern's IT / Communication Inventory Program. NS has many legacy software / hardware assets across its network and Grant was tasked with taking a full inventory and then implementing a modernization / unification program so that all NS employees are using the same tools to carry out IT / Communication work across the rail line.

Grant managed staff augmentation for Washington DC Metro (WMATA) on various projects. Grant reviewed internal resumes against WMATA requirements and put forth teams made up of prime consultants as well as DBE sub-consultants. Grant also screened, interviewed, and then hired staff to assist WMATA in rail shutdown coordination.

Grant assisted a software development team in India, where they were modernizing structural analysis software to be used in-house, and also sold to industry partners. They worked collaboratively with university students to beta-test new releases and improve the offerings.

Grant was also the Project Manager and Client-point-of-contact for a multi-million-dollar mining project in northern Colorado. He is experienced in the environmental permitting process as well as land-use rights and coordination of a multi-disciplinary team across a complex project.

Business Development / Proposal Development

Grant has been involved in business development since he was a student intern. In 2018, he was the proposal manager for 29 proposals, all of which were successfully awarded. It was this success that caught the eye of US Executives and led to him transferring to the Denver, CO office. Since moving to the US, Grant has been involved in large-scale proposals such as Washington Metro Area Transit Authority's (WMATA) $10 million modernization of their subway terminals, Atlanta Metro (MARTA) $7 million on-call services, and Amtrak's $75 million facilities upgrade program.

Executive Management

Grant has often been tasked with growing divisions at companies. As some corporations are organized by geographies and not specialties, small groups of experts across the country would not necessarily know one another. By using an Excel Matrix and various questionnaires, Grant recently grew a group from one person to 250 people in the span of just six months. Internal networking and cross-discipline marketing accounted for an increase in proposal wins of $20,000,000 in that same time period. While working for companies that pursue growth, technical integration of staff after mergers and acquisitions occur is an area that Grant specializes in and will continue to help identify staff overlap and strengthen existing teams.

He is also the creator of *www.SelfTaughtMBA.com*, a website that attempts to provide an alternative to traditional brick-and-mortar business schools.

Project Management Analyst

After ten years of successfully managing numerous multi-disciplinary projects, Grant was asked to use his wide variety of skills to assist other project managers as a *Project Management Analyst*. On large scale, multi-million-dollar civil projects with multiple project managers, a *Project Management Analyst* continuously checks budgets, schedules, and deliverables across multiple disciplines and reports back to the *Senior Project Manager* about areas of slippage and suggests course corrections. Grant has fulfilled this role on the following project:

- CREATE CSX – "Chicago Regional Environmental and Transportation Efficiency Program", a $3.2 billion project to improve rail and highway efficiency in the downtown Chicago core. 2019-2023

Studies / Life Cycle Cost Analysis

Reviewed documents, interpreted data, and produced sections of reports for:

- CN Rail – Climate Risk Analysis, 2024;
- Norfolk Southern – IT / Communications Inventory Program, 2021;
- Public Works Procurement Services – Alaska Highway Investment Analysis Report, 2018;
- CalTrans California Hi-Speed Rail – Tuolumne Life Cycle Cost Analysis Report, 2017;
- MetroLinx / GoTransit – 40-Year Budget Forecasting, Railway Bridge Infrastructure, 2016;
- Ministry of Transportation – Central Okanagan Planning Study, 2015.

Conceptual Design

- US Virgin Islands – Road Bridge Design, 2025;
- Parks Canada – Pacific Traverse Trail, Ucluelet to Tofino, BC, 2016-2019;
- Municipality of Hope, BC – Coquihalla River New Pedestrian Bridge Crossing, 2019;
- BC Parks – North Coast Trail New Pedestrian Bridge Crossing, 2018;
- BC Parks – Saltspring Island, New Pedestrian Bridge Crossing, 2018.

Independent Design Review

Created 3D computer models and performed detailed calculations using in-house software to produce Structural Certification for the following project:

- SNC-Lavalin - Southeast Stoney Trail, highway bridge Design Review, 2010, 2011.

Inspections

Grant Waldie's previous experience in the construction industry has given him the capability to apply practical solutions to technical problems. Grant has progressed from *Junior Inspector* to *Lead Inspector* to *Project Manager* and now serves as *Subject Matter Expert* on major inspection projects across North America. He has been involved in the inspection of over 1,600 bridges, culverts and marine structures, of which he has been the Engineer-of-Record for 300. He has worked to develop reconstruction strategies and provided construction site services for rehabilitation projects across the USA and Canada.

Railway Bridges:

- LA Metro, Route 66 Bridge, 2020;
- Chicago DOT (CDOT) North Avenue at Union Pacific Railway, 2020;
- Union Pacific – Land Acquisition Rights for California High Speed Rail, 2019;
- Hudbay Minerals - Main Gate Trestle Inspection, 2016;
- OmniTrax - Hudson's Bay and Carlton Trail Railway Rail bridge inspections, 2014-2019;
- OmniTrax / BNSF - Kettle Falls International Rail bridge inspections, 2016-2019;
- Keewatin Railroad Bridge Inspections, 2016-2019;
- Trillium Railway - Rail bridge inspections, 2016, 2017, 2018;
- Sydney Coal Railway - Rail bridge inspections, 2016, 2017;
- Rail America / Genesee Wyoming - Cape Breton, Goderich Exeter, Ottawa Valley, and Southern Ontario Rail bridge inspections, 2016, 2017, 2018.

Moveable Bridges:

- CN Rail – Pattullo, Second Narrows, and Lulu Island lift/swing bridges, 2025-2026;
- CN Rail – Conneaut Swing Bridge, 2019-2020;
- Langdale Transfer Deck – BC Ferries, 2019;
- Parks Canada – Chambly Canal Moveable Bridge Inspections, 2011.

Culvert / Outfalls / Tunnels:

- Detroit-Windsor International Tunnel Inspection, 2020;
- New Westminster Pedestrian Tunnel, 2019;
- Ed's Creek – Public Services Procurement Canada, 2019;
- CN Rail – Culvert Inspection Program, 2017;
- CP Rail – Culvert Inspection Program – unsuccessful proposal, 2017;
- OmniTRAX – Railway Culvert Inspection Program, 2017, 2018;
- FortisBC – Alex Fraser Bridge Culvert, 2016;
- Metro Vancouver – Pump Station Inspection, 2016;
- District of West Vancouver – Outfall Inspections, 2013;
- BC Ministry of Transportation & Infrastructure (BC MoT) – Highway Culvert Inspection, 2013;
- District of West Vancouver – Culvert Inspections, 2012.

Long-Span Bridges:

- Zilwaukee Bridge, Saginaw Michigan, 2021;
- Mackinac Bridge Authority – Mackinac Bridge, Michigan, 2020;
- Public Works and Government Services Canada – Alexandra Bridge, Ottawa, Ontario, 2016;
- Public Works and Government Services Canada – Lower Liard Suspension Bridge, Alaska Highway, British Columbia, 2011, 2013, 2015;
- Thousand Islands Bridge Inspection, Ontario, 2012.

Medium-Span Bridges, Rural Roads:

- Public Works and Government Services Canada – Alaska Highway Truss Bridge Focused Inspection on cracks in end-posts, 2017;
- LEDCOR – Sierra Yoyo Desan Resource Road Bridge Inspections, 2011, 2013, 2016, 2017, 2018, 2019;
- Public Works and Government Services Canada – Alaska Highway Bridge Inspection, Fort St. John to Watson Lake, 2011, 2013, 2015;

- Public Services Procurement Canada – Alaska Highway Truss Bridge Focused Inspections, 2018-2020;
- Parks Canada – Banff, Jasper National Park Bridge Inspections, 2010.

Medium-Span Bridges, Urban Roads:

- New Westminster Bridges and Retaining Walls, 2019;
- Teck Resources – Industrial Chemical Plant Bridge, 2017, 2018, 2019;
- City of Chilliwack - Five-Year Program for City Bridge Inspections, 2012-2016;
- Port Metro Vancouver - Clark Drive/Main Street/Westshore/ Commissioner/ Fraser Wharves Bridge Inspections, 2011, 2015, 2017, 2018, 2019.

Hiking Trail Bridges:

- Metro Vancouver – Belcarra and Minnekhada Trail Rehabilitation, 2019,2020;
- Sunshine Coast Regional District Hiking Trail Bridge Inspections, 2017;
- BC Parks – Juan de Fuca Trail Bridge Inspections, 2017, 2018;
- Parks Canada – West Coast Trail Bridge Inspections, 2012, 2015;
- City of Chilliwack – Parks bridge trail inspections, 2014;
- City of Burnaby – Patterson Pedestrian Bridge Inspection, 2014;
- Public Works and Government Services of Canada - Tofino Trail Bridge Inspections, 2014;
- Parks Canada – Jasper, Yoho, Kootenay National Park Trail Bridge Inspections, 2012.

Boardwalk / Esplanade:

- Canadian Mortgage and Housing Corporation – Granville Island Marine Works Inspection, 2014-2020;
- City of New Westminster – New Westminster Esplanade Inspections and Reconstruction Design, 2012, 2016, 2017, 2018, 2019

Emergencies:

- Union Pacific – Derailment in Colorado, 2025;
- Fraser Surrey Docks – Tug Boat Impact Damage, 2019;
- BC Parks – Fallen tree across suspension bridge on Juan de Fuca Trail, 2019;
- Genesee Wyoming Railroad – Truck Impact Damage, 2018;
- Genesee Wyoming Railroad – Rail Bridge Overload Assessment, 2018;
- City of Chilliwack – Road Bridge, vehicle impact damage inspection and rehabilitation design, 2018;
- Genesee Wyoming – Rail Bridge in Nova Scotia, Derailment damage inspection, 2017;
- Genesee Wyoming – Rail Bridge in Guelph Ontario, vehicle impact damage inspection, 2016;
- City of Surrey – Nicomekl Sea Dam, overloaded vehicle on load-posted structure, damage inspection, 2014;
- Township of Langley – 16th Avenue at 204 Street, vehicle impact damage inspection, 2014;
- Township of Langley – Glover Road, vehicle impact damage inspection, 2013;
- TransLink – Post Earthquake Pattullo Bridge Inspection, 2012.

Load-Rating Inspections:

Conducted inspections and coordinated the design team for load ratings on the following projects:

- Canadian Arctic Load Rating Inspection for the Hudson Bay Railroad, 2017;
- Sunshine Coast Regional District Load Rating, 2016;
- City of Chilliwack – Park Bridge Load-Ratings, 2014;
- City of Chilliwack – Bailey Landfill Bridge Load-Rating, 2012;
- Parks Canada – Chambly Canal Moveable Bridge Load-Ratings, 2011.

Fabrication Inspections:

During the fabrication process, in order to provide Quality Assurance, Grant has witnessed structural elements being made for the following project:

- Unionport Crankshaft for moveable bridge – Scot Forge, Clinton, WI, 2020.

Bridge/Culvert/Marine Reconstruction Projects

Developed prioritized repair recommendations, as well as cost estimates, detailed design drawings and specifications, Tender Documents, and helped to perform site-services for the following projects:

- Port Metro Vancouver – Clark Drive Overpass Reconstruction Works, 2018-2020;
- Canadian Mortgage and Housing Corporation – Granville Island Marine Works Reconstruction, 2014, 2015, 2016, 2017, 2018, 2020;
- Public Services Procurement Canada - Alaska Highway – Truss Bridge Repair Program, 2018-2020;

- Juan de Fuca Trail – Hiking Trail Bridge Repair Program, 2017/2018;
- Sydney Coal Railway – Bridge Strengthening Project, 2017;
- Parks Canada – West Coast Trail Hiking Trail Bridges, 2016;
- City of Vancouver – Cambie Street Bridge Trolley Bus Poll Installs, 2016;
- Port Metro Vancouver – Main Street Overpass Reconstruction Works, 2016;
- Public Works and Government Services Canada – West Coast Trail Rehabilitation Design of Bridge Structures, 2016;
- Port Metro Vancouver – Westshore Reconstruction Works, 2015;
- City of Surrey – Nicomekl and Serpentine Reconstruction Works, 2014;
- Goderich-Exeter Railway – Deck Framing Plans, 2014;
- Port Metro Vancouver – Clark Drive Joint and Deck Reconstruction Works, 2013;
- City of Chilliwack - Reconstruction Works Project, 2013;
- Public Works and Government Services Canada – Alaska Highway 113 Creek Bridge Abutment Rehabilitation, 2012;
- Public Works and Government Services Canada – Bridge and Culver Repairs, 2012.

New Bridge Construction Site Services

Assisted in Contract Administration and on-site inspection during the Construction phase of the following projects:

- Public Works and Government Services Canada - Tofino Bridge and Culvert upgrades, 2015, 2016;
- Township of Langley - Nicomekl 56th Ave. and 211 St. Bridge Replacement, 2013, 2014;
- BC MoT - South Fraser Perimeter Road Bridges, 2010-2012.

General Civil Projects

Responsible for Site Services and inspections during the construction phase of the following projects:

- Shell Oil – Decommissioning of Oil Pads, 2025;
- Amtrak – New York Penn Station – Elevator Modernization, 2024;
- BNSF – Dilworth Yard, Waste Water Treatment Plant, 2024;
- CN Rail – South Seattle Yard, Waste Water Treatment Plant, 2024;
- CN Rail – Rockingham Sanitary Lift Station, 2023;
- CN Rail – Hornepayne Maintenance Building Assessment, 2023;
- BNSF – Superior Yard, Waste Water Treatment Plant, 2023;
- BNSF – Northtown Yard Wase Water Treatment Plant, 2023;
- Amtrak – Sanford Yard, Crane installation, 2023;
- Amtrak – Hialeah Compressor Equipment Building, 2023;
- Amtrak – Los Angeles Cranes, Construction Services, 2023;
- Amtrak – New Orleans Diesel Facility Foundation Design, 2023;
- CN Rail – MacMillan Yard Hump Station Concrete Pad Design, 2023;
- BC Ferries – Sewage tank assessment, 2020;
- Bowen Island – Drinking water tank assessment, 2018, 2019;
- Imperial Oil - Dock Assessment Report, 2016;
- Corporation of Delta - Goldenrod Crescent Retaining wall, 2016;
- District of North Cowichan - Flood wall design, 2015, 2016;
- City of Surrey - Surrey Dyke Floodwall Protection Project, 2011, 2015;
- BC MoT - Gateway Project, Underground Forcemain Thrustblock, 2011;
- City of Surrey - 24th Avenue Repaving, 2010;
- City of Surrey - 32nd Avenue Highway Replacement, 2010.
- Kelowna General Hospital, Parking Structure Design, 2009.

Specialized Training

- Masterclass:
  - Howard Schultz teaches **Business Leadership**
  - Daniel Pink teaches **Sales and Persuasion**
  - Chris Vos teaches **The Art of Negotiation**
  - Geno Auriemma teaches **Leading Winning Teams**
  - Bob Iger teaches **Business Strategy and Leadership**
  - Jeff Goodby & Rich Silverstein teach **Advertising and Creativity**
- OSHA 40-hour HAZWOPER, 2025
- eRailSafe Safety Training, 2021-2025
- Shell Oil General HSE Orientation, 2025
- International Association of Oil and Gas Producers Life Saving Rules Training, 2025
- FRA 219 Drug and Alcohol 2021-2025
- ISN Background Check (USA and Canada) 2021-2025

- BNSF Contractor Safety Orientation with Roadway Worker Protection 2023-2025
- Canadian National Railway Contractor Safety Program, 2017-2025
- Union Pacific Roadway Worker Protection 2025
- Norfolk Southern Roadway Worker Protection 2025
- CSX Roadway Worker Protection 2025
- CSX Hazardous Chemicals 2025
- CSX Operation Lifesaver 2025
- CSX TSA First Observer 2025
- CPKC Roadway Worker Protection 2025
- National Incident Management System (NIMS) 2025
- CSXT TestNet Air Monitoring Training 2025
- CPKC RAID Air Monitoring Training 2025
- Oracle Primavera Unifier Essentials, 2024
- Aerial and Scissor Lift Safety, 2016, 2021
- Fall Protection Refresher, 2021
- Corrosion, Protection, and Strengthening of Existing Concrete Structures, 2019
- Parsons Project Management Certificate, 2018
- Canadian National Railway Bridge Inspector Training, 2018
- Federal Aviation Administration – Small Unmanned Aircraft Systems, 2016
- Pacific Ropes – Fall Protection, 2016
- Alberta Bridgeworks Bridge Inspection Truck Operation, 2016
- Workplace Hazardous Materials Information System (WHMIS) Training, 2015
- Envirosafety - Fall Protection, 2013
- FHWA-NHI - National Highway Institute Introduction to Safety Inspection of In-Service Bridges, 2012
- Envirosafety - Confined Space Awareness, 2012
- American Railroad Engineering and Maintenance-of-Way Association (AREMA) – Bridge Inspection Seminar 2010

Presentations / Publications / Personal

- Camosun College, Civil Engineering 2nd Year Students – "Bridge Inspection and Management" and "Career Advice for Undergraduates" 2019 - 2025
- American Concrete Institute, Vancouver Chapter Dinner – "Deterioration of Bridges, Inspection, and Rehabilitation Techniques" 2019;
- Multiple internal WebEx presentations regarding UAV/Drone technology and bridge management
- Author: "*Random Advice for Business & Life*" – TOP 1% of book sales on Amazon.com
- Audible.com audiobook narrator
- Former professional violin player and Classic Rock Cover Band Drummer
- Loves adventure: Summited Mt. Kilimanjaro, swam in the Amazon, bathed elephants, raced Ferraris, Mount Everest Base Camp, Inca Trail etc.

Countries visited: USA/Canada/Mexico, Jamaica, Puerto Rico, British Virgin Islands, Panama, Peru, Argentina, Tanzania, Nepal, Tibet, China, Hong Kong, Japan, Vietnam, Thailand, Qatar

Dual Citizenship/Passport (USA / Canada)

Referee

Thomas Topolski *(semi-retired)*

Parsons Corporation – President
Turner & Townsend – Executive Director
WSP/Louis Berger – President
AECOM – Managing Director, Middle East
CH2M Hill – Senior Vice President
Bechtel – Development Manager (Saudi Arabia)

M: (832) 693-2765
E: Thomas_Topolski@hotmail.com

Career history

2025 - Present	GHD, Transportation Business Group Leader
2025 - 2025	GHD, US Central Transportation Market Leader
2024 - Present	LEK Consulting, Part-Time Subject Matter Expert (Civil Engineering)
2023 - Present	HCT Consulting, Board Member
2023 - 2025	TRC Companies, Director of Major Programs
2022 - 2023	WSP, Senior Vice President
2009 - 2022	Parsons, Senior Project Manager
2004 - 2009	Various, Construction