

Response to Request for Qualifications

# Consulting Construction Management Engineering Services for Grand County Road 8 Bridge Over Fraser River

Project No.: BRO M210-001 (20441)

**Submitted to:**

Town of Fraser, Colorado  
153 Fraser Avenue  
Fraser, CO 80442  
e: [jdurbin@town.fraser.co.us](mailto:jdurbin@town.fraser.co.us)  
cc: [sstone@town.fraser.co.us](mailto:ssstone@town.fraser.co.us)

**Submitted by:**

Bowman Consulting Group, Ltd.  
45 County Road 804 - Unit No. 201  
Fraser, CO 80442

**Due:** June 18, 2018 by 4:00pm

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Our Project Team will also consists of internal **structural design engineering staff, Art Nowak** who has extensive experience nation-wide with the design and construction of bridge structures. Art has managed various design contracts with government agencies throughout the country to include two recent structural design projects in CDOT Region 3.

Bowman will also provide experienced and qualified professional personnel, engineers and consultant firms for geotechnical and construction management services as required and dictated by the work.

#### **Disadvantage Business Enterprise Teaming Partner**

Bowman works with numerous disadvantaged business enterprise (DBE) firms that provide design engineering, surveying, geotechnical engineering, and construction management services. Bowman is committed to work with the DBE certified firm, Geocal, to provide all the required geotechnical services on this project. Bowman will contract with Geocal at minimum, ten (10%) percent of the total contract dollar amount or at minimum the percent amount as stated in the Town's services contract agreement.

Geocal, Inc. is a professional services engineering firm providing expertise in geotechnical engineering, construction management, inspection and testing, and the environmental sciences. They have completed over 1,500 projects in Colorado and the western United States with the majority of projects located along the Front Range of Colorado, primarily associated with infrastructure and transportation design and construction.

Geocal has been in business for over 28 years and offer full service offices in Centennial, Colorado Springs, and Loveland, Colorado. Their main clientele includes CDOT, RTD, Denver Water, City and County of Denver, City of Thornton, City of Colorado Springs, Arapahoe County, Larimer County, Weld County and other various public entities. Geocal performs a sizable portion of projects as a sub-consultant to civil engineering, structural engineering, architectural, transportation, and landscaping architectural firms. Geotechnical projects include roadways and highways, bridges, retaining walls, tunnels, conduits, and other structures. Their expertise includes foundation design, remediation of problematic soils, tunnel and GBR level investigations, pavement design, and retaining wall design and analysis. Construction materials inspection and testing services focus primarily on transportation and infrastructure with some buildings.

Geocal currently has a staff of 48 people that include: professional engineers, engineering interns, professional geologists, construction managers, construction inspectors, technicians and laboratory staff, and administrative staff. The Centennial laboratory has been reviewed and inspected by the Colorado Department of Transportation, the Regional Transportation District, AASHTO Materials Reference Laboratory (AMRL) and the Cement & Concrete Reference Laboratory (CCRL). We are accredited by AASHTO and CCRL, and are part of proficiency testing programs with AASHTO and CDOT.

**Education**

- B.S., Civil Engineering, University of California, Irvine, 1994

**Registrations**

- Professional Engineer: Colorado (#35765)

**Areas of Expertise**

- Construction Administration
- Development Entitlement
- Bid Procurement
- Hydrology/Hydraulics
- Road Design
- CDOT Access Permits
- Utility Design
- Subdivision Lot/Road Layout
- Construction Cost Estimating
- Municipal Engineering

Mr. Gagnon has 22 years of civil engineering and construction management experience. As the Branch Manager for the Fraser office, Mr. Gagnon has thorough experience in civil engineering design including traffic studies, utility design, grading plans, drainage studies, cost estimating, SWMP plans, and roadways. Mr. Gagnon also has years of experience involving civil construction projects, performing both construction observation, and construction management services for numerous municipalities within Grand County. Mr. Gagnon has comprehensive knowledge of numerous local and CDOT road design standards and has represented Grand County as their County Consulting Engineer for the last fifteen years. He has been the design engineer for Access Permits and Notice to Proceed applications for the Colorado Department of Transportation (CDOT) and he has a steady working relationship with the CDOT review engineers in Region 3 (Grand Junction).

**County Road 804 Storm Sewer Water Replacement and Road Widening, Fraser CO**

Senior Project Manager. Performed Construction Observation and Construction Management services on a multi-use municipal project including installation of new storm sewer, surface drainage and road improvements, and water main replacement. This multi-phase project was completed in one construction season and involved the cooperation and collaboration between three separate municipalities: Grand County, Winter Park Ranch Water and Sanitation District, and the Town of Fraser.

**Grand County Consulting Engineer, Grand County, CO**

Represented Grand County for more than 15 years as their County Engineer. Managed the design and construction of numerous Road and Bridge projects, including road reconstruction projects, culvert and drainage improvements, SWMP Management, traffic control, etc. This includes managing the coordination on numerous infrastructure projects between general contractors, subcontractors, consultants and county staff to ensure a successful project.

**U.S. Highway 40 Ramp Project, Fraser, CO**

Served as Senior Project Manager to represent the Town of Fraser as their Local Agency Project Engineer for a CDOT RAMP-funded project to include highway widening improvements and the installation of two new traffic signals.

**Road Paving Projects - Town of Kremmling and Grand County, CO**

As a representative of both the Town of Kremmling and Grand County Road and Bridge served as Construction Project Manager for approximately \$5 million in municipal paving projects over the last four years. These projects were all completed through a combination of local funding and DOLA funding. Performed construction management duties from conducting pre-construction meetings and material submittals through final punch list and final pay app items. Responsible for processing change orders, RFIs and working with contractors and staff to ensure high quality, on-time and on-budget projects.

**Education**

- B.S., Civil Engineering, Virginia Polytechnic Institute and State University, 2000

**Registrations**

- Professional Engineer: Colorado (#48189) and Virginia (#040580)

**Areas of Expertise**

- Project Management
- Land Development
- Mixed Use Development
- Commercial Development
- Residential Development
- Site Layout Design
- Grading and Utility Design
- Stormwater Management and Water Quality Design
- Master Planning
- Roadway Design

Clif Dayton brings over 18 years of experience in successful planning, designing and implementing civil engineering projects across the nation. As the Branch Manager for the Golden, CO office, Mr. Dayton provides influence on key decisions affecting the firm and works directly with the design teams. Mr. Dayton has been with Bowman for 13 years. He has extensive knowledge of site design, trails and walkways design, roadway design, stormwater management design, pump station design, sanitary sewer design, low impact development/sustainable design, drainage analysis, storm detention and flood control facilities, utility design, erosion control, easement and right-of-way delineation, site grading and earthwork, preparation of engineering studies, technical reports, cost estimates, details and specifications from conceptual phases through final construction documents.

**112th Avenue Widening, Northglenn, CO**

Project Manager for the City of Northglenn Public Works Department. Bowman was retained by the City to design and perform construction management for widening the existing 112th Avenue corridor. The project included underground utility improvements, reconstruction of the 112th Avenue alignment, intersection and signal improvements, concrete flatwork, drainage channel improvements, and landscaping. Bowman also provided construction management and engineering personnel to oversee project progress on this City funded project.

**Promenade at Castle Rock, Castle Rock, CO**

Mr. Dayton is the project manager for the Promenade project in Castle Rock, which will be one of the largest community center developments in the country. The Promenade project broke ground in 2014 with Bowman taking point in designing all the major infrastructure such as the major arterial roadways and parking than later delivering the final construction documents for the site development. This project also included FEMA and Town of Castle Rock permitting for a CLOMR/LOMR of Plum Creek.

**Bijou Creek Development, Deer Trail, CO**

Project Manager for the new-build residential development that is comprised of approximately 11 acres of multi-family housing with 100 units, and 40 acres of single family housing with approximately 114 lots. Across the street from the residential portion of the project is a 20 acre site for the development of a new high school. As project engineer, provided final construction documents for the residential development, and civil engineering design for the main infrastructure (roads, sanitary sewer, water and drainage) to be shared by the Bijou Creek residential development and the Deer Trail High School.

**Catalyst Digital Health Collaborative, Denver, CO**

Project Manager in providing survey and civil engineering services for the development of a 300,000 square foot facility for the healthcare industry in the River North district of Denver. The facility will house health-tech firms and digital health non-profits, along with government, academic, among others. The land and improvements are assessed at \$4.2 million. The first phase of construction includes 180,000 square feet with 10,000 square feet of retail space, and is expected to start mid-2016 with expected completion in late 2017. More than 30 digital health tenants have committed to the space.

#### Education

- B.S.E., Civil Engineering, University of Illinois at Chicago, 1980
- B.S., Mathematics, Colorado State University, 1974

#### Registrations

- Professional Engineer: Arizona (#64298), Colorado (#0050951), Florida (#78161), Illinois (#062042648), Ohio (#79279), Texas (#118012), and Virginia (#0402054583)
- Structural Engineer: Illinois (#081004642)

#### Associations

- Structural Engineers Association of Illinois
- American Society of Civil Engineers
- Cold-Formed Steel Engineers Institute

#### Areas of Expertise

- Highway bridge design
- Railroad bridge design
- Pedestrian bridge design
- Parking structure design
- Warehouse structural building design
- Office building structural design
- Hospital building structural design
- Railroad platform and station structural design
- Retaining wall design
- Excavation bracing design

Mr. Hanson's responsibilities include structural planning and design of building, bridges, parking structures, railway transit, and municipal structures; technical coordination and training of staff. Additionally, Mr. Hanson developed the commercially available "DCALC" software applications used by structural engineers: <http://www.designcalcs.com>

#### Lyons Ridge Bridge, CO

Responsible for preliminary design for a new bridge connecting to a shopping center.

#### Turkey Creek Bridge, CO

Responsible for the preliminary design of a new bridge that was more cost-effective and easier to construct than a previous design by others.

#### Pebblewood Hillside, CO

Responsible for the design of thrust blocks required to restrain storm sewers on a steep mountain grade.

#### Palisades Point Noise Wall and Retaining Wall, Yonkers, NY

Responsible for the structural design of drilled soldier pile walls at a new development on the Hudson River.

#### Mill Creek Residential Tiered Walls, Parsippany, NJ

Responsible for the structural design of tiered soldier pile retaining walls for a new apartment complex. Walls were designed for "top down" construction.

#### Emergency Bridge Repairs and Replacements, Austin, TX

Design of emergency repairs for structures washed-out by floods in the spring of 2015. Prepared conceptual bridge replacement details for converting railcars into bridges.

#### Lake Shore Drive Bridges

Developed bridge replacement designs including pile stub abutments and cantilever wingwalls for two 100' long 3 span structures of Lake Shore Drive over both Lawrence Avenue and Wilson Avenue. Concept included shared bike lane and wider sidewalks for enhanced pedestrian and bike circulation.

#### Stearns Road -McLean Boulevard Retaining Walls

Responsible for the structural design of post-tensioned tie-back earth retaining walls adjacent to a new railroad bridge including design for a 5'x10' 92 foot long culvert with a junction chamber connected to additional 3'x10' 243 foot long culvert with L-Type vertical cantilever wingwalls.

#### US Route 45 (LaGrange Road) in Cook County, IL

Design of over 50 retaining walls consisting of cantilever, sheet pile, and soldier pile type walls. These walls were needed due to widening of LaGrange Road and varied in lengths between 60' and 500' and retained heights of 4'-20'.



June 5, 2018

Mr. Tim Gagnon, P.E.  
Bowman Consulting  
45 County Road 804 Suite 201  
Fraser, Colorado 80442

**RE: Letter of Intent  
Grand County Road Bridge over Fraser River - BRO M210-001 (20141)  
Grand County, Colorado**

Dear Tim:

Thank you for inviting our firm to join your proposal to the Grand County Road Bridge over the Fraser River for Consulting Construction Management Engineering Services proposal.

As Vice President of Geocal, I will commit the resources to provide your office and the State of Colorado with our best effort on this contract. We are a Disadvantaged Business Enterprise (DBE) and an Emerging Small Business with the State, and copies of our certifications are attached.

Thank you for inviting us to be a part of your team and good luck to you in your proposal preparation. In the meantime, if you have any questions, or need additional information, please feel free to give me a call.

Sincerely,

**GEOCAL**

A handwritten signature in blue ink, appearing to read 'Gregory M. Perzinski'. The signature is fluid and cursive, written over a light blue horizontal line.

Gregory M. Perzinski  
VP/Operations Manager

GMP/P18.1808.056



**Reference**

Colorado Department of Transportation  
Brian Killian  
Project Manager  
222 South 6th Street  
Room 100  
Grand Junction, CO 81501  
p: 970.683.6285  
e: Brian.Killian@state.co.us

**Features**

- Federal Aid Project
- CDOT Approval Process

**Contract Fees**

\$120,000

**Duration**

December 2014 - October 2015

Bowman represented the Town of Fraser as their Local Agency Project Engineer for a CDOT RAMP funded project to include highway widening improvements and the installation of two new traffic signals. Bowman assisted the Town during the bid procurement phase, contractor selection, pre-construction clearances and CDOT approvals. During highway construction Bowman's staff worked closely with the Town staff to verify certified payroll and proper wage determinations, "Made in the USA" provisions, On the Job Training requirements and EEO interviews.

Bowman reviewed contractor pay apps, assisted with RFIs and field changes and approved/rejected contractor change orders and facilitated coordination between the contractor and local business owners. Bowman performed daily construction observation including site photo documentation and daily observation reports and worked closely with the geotechnical engineers to ensure conformance with the approved design plans and CDOT Technical Specification. Bowman facilitated the Town, Contractor and CDOT in completing project close-out documents and construction acceptance procedures.





### Reference

Maria D'Andrea  
Director of Public Works  
City of Commerce City  
Municipal Services Building  
8602 Rosemary St.  
Commerce City, CO 80022  
p: 303.289.8156  
e: mandrea@c3gov.com

### Features

- Construction Management
- CDOT Coordination
- Field Inspection
- QA/QC

### Contract Fees

\$1,157,000

### Duration

April 2014 - August 2016

Bowman provided construction management services to the City of Commerce City on the East 104th Avenue Widening to improve the flow of traffic and make the corridor safer while also supporting business growth.

The project consisted of widening E. 104th Avenue from US Highway 85 to Lima Street, a new bridge over I-76, a new bridge over O'Brian Canal, improvements to the at grade crossing of 104th and the UPRR, and improvements to the O'Brian Canal and Little Burlington Ditch

### Major Structures:

- 104th over I-76 Bridge
- 104th over FRICO O'Brian Canal
- Concrete Box Culvert

### Minor Structures

- Wingwalls/Headwalls
- Drainage Structures
- Portland Cement Concrete Paving
- Asphalt Paving
- Utility Relocation
- Signal Installation



## 4. Approach and Scope of Work

Bowman's project approach is to provide the Town of Fraser with valued construction management services for the replacement of the bridge structure over the Fraser River on Grand County Road 8 in Fraser, Colorado. Bowman understands that this is a federally funded project which requires specific (and extensive) forms, meetings, inspections, material testing, and procedures that need to be met. Bowman will assist the Town in reassuring the project meets scheduled deadlines, is managed and constructed according to the Contract, CDOT's Road and Bridge Standard Specifications (2017), CDOT's Bridge Fabrication Inspection Manual (2016), CDOT's Field Materials Manual (2018) and CDOT's Local Agency Construction Manual (2017). Bowman's highly experienced construction management team will account for the safety, environment, budget and the construction impacts to the general traveling public when making sound engineering decisions for our client. Bowman's Construction Management Team has the expertise and proven experience to deliver successful project results on time and within budget and will represent our client in all phases of the construction management process.

### Scope of Work

1. Provide and coordinate all construction management services required to fulfill the project needs.
2. Provide clarification and interpretation of the Contract, Plans and Specifications.
3. Review Contractors Project Safety Management Plan and assure company policy compliances.
4. Coordinate communications amongst the Town, CDOT, the traveling public and all other stakeholders associated with the project.
5. Prepare and conduct the Preconstruction Conference Meeting.
6. Review, approve and submit Sublet Permit Applications (form 205) to CDOT Region Civil Rights Manager
7. Check and submit Suppliers List (Form 1425) to CDOT Region Civil Rights Manager
8. Conduct EEO interviews (Form 280) and verifications when the project utilizes On-the-Job Trainees.
9. Review and approve Critical Path Schedule and Method Statements.
10. Review and Respond to all Requests for Information. (RFI's)
11. Review concrete and asphalt mix designs and submit to CDOT for approval.
12. Review Shop drawings as required by the contract work.
13. Conduct weekly progress meetings and review updated two-week schedule.
14. Perform routine inspections and observations of daily and critical path construction activities to include photo documentation.
15. Maintain daily diaries (Form 110) of all evident activities occurring on the project
16. Provide and coordinate geotechnical engineering services required by contract to include: the minimum sampling and testing requirements according to CDOT's Field Materials Manual.
17. Perform field measurements and verification of contractor pay application quantities. (Form 266)
18. Furnish a Weekly Time Count Report (Form 262) showing days charge to date.
19. Prepare and approve interim contractor payments.
20. Prepare and discuss all Change Orders with the CDOT Resident Engineer prior to approval. (Form 90)
21. Monitor and maintain the project's financial budget.
22. Prepare monthly Progress Reports.
23. Assist the Town with potential contractor claims and disputes.
24. Maintain EEO documentation and ensure Federal Civil Rights and Labor Compliance is met by the contractor. (Various CDOT EEO Forms & F2, F3, F4)
25. Review and approve Final Materials Documentation and submit with final construction documentation. (Form 1199)
26. Prepare Final As-Built on the Construction Plans and submit with final construction documentation.

## 5. References

### Municipal References

Ed Moyer, Assistant County Manager  
Grand County  
PO Box 264  
Hot Sulphur Springs, CO 80451  
(970) 725-3102

Chris Baer, Road and Bridge Superintendent  
Grand County Road and Bridge  
PO Box 9  
Granby, CO 80446  
(970) 887-2123

Brian Killian, CDOT Project Manager  
CDOT Traffic and Safety  
222 S. 6th St, Room 100  
Grand Junction, CO 81501  
(970) 683-6285

### Other Local References

Chip Besse, Owner  
Winter Park Development Company LLC  
1500 Wynkoop Street  
Denver, CO 80202  
(970) 531-3174

Kelly Mace, Director of Lodging and Management  
Winter Park Village Company  
PO Box 3610  
Winter Park, CO 80482  
(970) 726-6563

### Local Contractor References

Acord Asphalt  
Attn: Pat Acord  
PO Box 665  
Granby, CO 80446  
(970) 531-9629

Big Valley Construction  
Attn: Troy Neiberger  
PO Box 1879  
Granby, CO 80482  
(970) 531-4040

Conroy Excavating  
Attn: Jay Conroy  
125 County Road 522 East  
Tabernash, CO 80478  
(970) 531-9090