



April 17, 2024

Ms. Mandi Etheridge  
Town Administrator  
Town of Meeker  
345 Market Street  
Meeker, CO 81641

**Re: 100% Design Modifications – Circle Park and White River Access Project**

Dear Ms. Etheridge:

GEI Consultants, Inc. (GEI) is submitting this scope and fee for contracting for the engineering and re-design of elements of the 100% SWCA Design for **Circle Park, 3<sup>rd</sup> Street and 10<sup>th</sup> Street Enhancement and Bank Stabilization** project (Project). This effort is supplementary to the Construction Services support GEI (Task 1) is providing for the Project. This letter presents the scope of services, cost estimate, and period of performance for this proposed contract amendment (Task 2).

**SCOPE OF SERVICES**

GEI has developed this scope of services for the Project with communication with the Town of Meeker (Town) to perform engineering analysis and develop constructable 100% design elements that are within the limitations of the existing Nationwide Permits. Tasks include Drainage Calculations and Design; Bank Stabilization Calculations and Redesign; Final Grading Design; Regulatory Floodplain Evaluation and No-Rise Determination; Construction PSE Development and Basis of Design Report; and coordination with a Landscape Architect on ADA Access Redesign and Landscape Architecture Final Design.

GEI cannot utilize our landscape architects to modify the existing 100% design and recommends that the Town works with a Landscape Architect licensed in Colorado. While the Town can construct the designed features, we suggest a consultation beyond our preliminary review to best understand the assumed liability associated with the Project design completed by SWCA. To help facilitate this, GEI is removing \$7,000 from our contract amendment to apply towards any necessary landscape architecture work and can help facilitate finding a trusted partner to engage with.

GEI reserves the right to subcontract any of the tasks described below with approval from the Town.

This contract amendment will consist of the following task and associated subtasks:

## **TASK 2 – FINAL DESIGN MODIFICATIONS AND NO-RISE CERTIFICATION**

Additional engineering analysis will be necessary to inform the final civil-engineering design of multiple project components. These include hydraulic and hydrologic analysis for material sizing, drainage, and no-rise certification. All modified design elements will be documented in a stand-alone design planset complete with specification and cost estimate (PSE) and a basis of design report. GEI will only stamp and seal PSE that reflect analysis and design performed under charge of the GEI engineer of record.

### ***Subtask 2.1 – Drainage Calculations***

GEI will perform a hydrologic and grading analysis to ensure drainage features are adequately sized and drain in the desired direction. Site drainage at 3<sup>rd</sup>, 5<sup>th</sup> (Circle Park) and 10th street locations will be analyzed, and any necessary changes will be designed and documented in a proposed GEI drawing to be used as an amendment to the existing design.

Subtask 2.1 Deliverables:

- Description of means, methods, findings, and recommendations to be included in a final design package. This includes plans, specs, cost estimate and basis of design report.

### ***Subtask 2.2 – Bank Stabilization and Riprap Calculations and Design***

GEI will perform a hydraulic analysis to determine rock size and installation methods for bank stabilization proposed locations at all three sites. Riprap sizing will be designed using hydraulic analysis at the pond overflow area. Any changes to the existing design will be documented in the final design package developed by GEI.

Subtask 2.2 Deliverables:

- Description of means, methods, findings, and recommendations to be included in a final reporting package. Rock sizing and specifications will generally fit the aesthetic of the north bank along Town Park as discussed with the Town.

### ***Subtask 2.3 - Final Grading Plan***

Based on the findings of the hydrologic and hydraulic analyses, GEI will develop a final grading plan and will document this with proposed finish grade slopes and spot elevations in a GEI developed planset. This includes all features along the White River and parking/access areas at all 3 locations of the Project.

Subtask 2.3 Deliverables:

- Technical details and inclusion into a 100% design package. Means, methods, findings, and recommendations to be included in a final design reporting.

### ***Subtask 2.4 – Regulatory Floodplain Analysis and No-Rise Certification***

The Project is assumed to be permitted and constructed under a “no-rise” condition and GEI will perform a hydraulic analysis using a developed corrected effective model and proposed conditions model to determine impacts according to floodplain regulations. The analysis will be written up and submitted to the local floodplain administrator in a stamped and sealed floodplain analysis package.

Subtask 2.4 Deliverables:

- Means, methods, and findings, to be included in a final reporting package.
- Stamped “no-rise” certification.
- Final hydraulic models.

### ***Subtask 2.5 – Construction PSE Development and Basis of Design Report***

GEI will develop a PSE package for selected design modifications specified at the 100% design level. This includes all civil water-related elements of the Project but does not include any elements of the Landscape Architecture plan. All design features will be in compliance with the conditions of existing ACOE Nationwide Permits.

Subtask 2.5 Deliverables:

- 100% design planset.
- Specification package.
- Cost estimate.
- Basis of design report.

### ***Subtask 2.6 – ADA Ramp Redesign:***

GEI will redesign the bank in place of the ADA ramp feature in the Project and continue the bank stabilization and boulder toe to tie-in with the existing upstream bridge. This stabilization work will also tie-in smoothly with top of bank and will be planted according to a specified planting palette. Subtask 2.6 may occur with Subtask 2.7. GEI does not assume responsibility for the landscape architecture or ADA function for the ADA ramp/access, but will work with a landscape architect in charge of the design during modifications.

Subtask 2.6 Deliverables:

- Technical details and inclusion into a 100% design package. Means, methods, findings, and recommendations to be included in a final design reporting.

### ***Subtask 2.7 Landscape Architecture Final Design***

GEI will work with a Landscape Architect to finalize the Project Landscape Architecture Plan and will provide fill location and geometric limits for any civil water-related elements, which may affect floodplain, drainage, flow patterns, and/or material stability and may accommodate or alter designs to work with any proposed changes to the final landscape architecture design.

Subtask 2.7 Deliverables:

- Civil water-related coordination on any proposed Landscape Architecture Elements.

**COST PROPOSAL**

**Table 1** presents the estimate of costs to accomplish the scope of services for the proposed contract modification. Task 2 is estimated at \$43,000. This estimate is intended to represent total cost to complete the scope of work as outlined above. A detailed cost breakdown is provided in Table 1.

Table 1: Cost Proposal for Task 2

<b>Task</b>	<b>GEI Labor</b>
2.1 – Drainage Calculations	\$4,500
2.2 – Bank Stabilization Calculations and Redesign	\$4,400
2.3 - Final Grading Plan	\$5,280
2.4 – Regulatory Floodplain Analysis and No-Rise Certification	\$6,600
2.5 – Construction PSE Development and Basis of Design Report	\$13,200
2.6 – ADA Ramp Redesign	\$7,040
2.7 – Landscape Architecture Final Design	\$1,980
<b>Total Cost</b>	<b>\$43,000</b>

## PERFORMANCE PERIOD

GEI anticipates final construction of the project to begin in August 2024. To accommodate that construction schedule, conclusion of this task is targeted by July 2024, assuming a notice to proceed by May 1<sup>st</sup>, 2024.

## CLOSING

We appreciate the opportunity to provide these engineering and construction services to the Town of Meeker for redesign of the Project and look forward to the opportunity to work further with you. Please let me know if you have any questions. I can be reached at (970) 775-3355 or [tsmrdel@geiconsultants.com](mailto:tsmrdel@geiconsultants.com)

Sincerely,

GEI CONSULTANTS, INC.



Tom Smrdel, MS  
Senior Fluvial Geomorphologist | Project Manager



Michael Scurlock, PhD, PE, CFM  
Senior Hydraulic Engineer