



ENVIRONMENTAL CONSULTANTS

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October 4, 2021

Sean VonRoenn, Executive Director
ERBM Recreation & Park District
101 Ute Road
Meeker, Colorado 81641
Telephone: 970.878.7410
sean@erbmrec.com

Re: White River Enhancement at Circle Park and 3rd and 10th Streets Access

Dear Mr. VonRoenn:

SWCA Environmental Consultants (SWCA) appreciates the opportunity to provide this proposal for environmental permitting and engineering design services for the White River enhancement at Circle Park and access improvements at 3rd and 10th Streets. Our team has over 15 years of experience in greenspace planning as well as municipal park and drainageway design. This proposal addresses four distinct but interrelated phases of work for the Town of Meeker and East Rio Blanco County Metropolitan (ERBM) Recreation & Park District.

- 1) Grant application and technical on-call support
- 2) Clean Water Act Section 404 authorization
- 3) 60% engineering design for White River at Circle Park
- 4) Final landscape design for 3rd and 10th Streets access
- 5) Landscape design for White River access at 3rd and 10th Streets

Our proposal is presented as three attachments.

- 1) Attachment A: Scope of Work
- 2) Attachment B: Cost and Schedule
- 3) Attachment C: Key Personnel

If you have any questions or would like to discuss revisions to the attached scope of work or schedule, please do not hesitate to contact us.

Sincerely,

A handwritten signature in blue ink, appearing to read "Noah Greenberg".

Noah Greenberg, PWS
Natural Resources Project Manager
303.818.0006

A handwritten signature in blue ink, appearing to read "Daren Pait".

Daren Pait, P.E.
Director of Engineering
919-234-7428

ATTACHMENT A: SCOPE OF WORK

SWCA Environmental Consultants (SWCA) presents this scope of work for the White River Enhancement at Circle Park and 3rd and 10th Streets Access (collectively hereafter referred to as Project). This scope of work is organized into five phases.

PHASE 1 – ON-CALL TECHNICAL SUPPORT AND STAKEHOLDER ENGAGEMENT

Phase 1 consists of SWCA providing on-call technical support and stakeholder engagement. Tasks under this phase could include helping East Rio Blanco County Metropolitan (ERBM) respond to public comment, helping prepare grant applications, and facilitating public meetings regarding the Project, to name a few. For the purposes of this proposal and budgeting, SWCA recommends allocating \$10,000 for this phase to cover labor and direct expenses. This level of budget will support facilitating/attending one in-person meeting in Meeker, development/review of written responses to submitted questions/comments, and assistance with preparing up to two grant applications.

PHASE 2 – CLEAN WATER ACT SECTION 404 AUTHORIZATION

Phase 2 consists of the fieldwork, reporting, and agency coordination to obtain Clean Water Act Section 404 (Section 404) authorization from the U.S. Army Corps of Engineers (USACE) for the planned work in the White River and adjacent wetland areas at the Project.

AQUATIC RESOURCES INVENTORY AND REPORTING

SWCA will conduct an aquatic resources inventory (commonly referred to as a wetland delineation) for the Project area. This work will be done in accordance with USACE methodology: the 1987 Corps of Engineers Wetland Delineation Manual and the 2010 Regional Supplement for the Western Mountains, Valleys, and Coast Region. SWCA will map aquatic resource boundaries with a submeter-accurate global positioning system (GPS) device. Reporting (including a report letter, mapping, photographs, and data forms) will be consistent with USACE Grand Junction Regulatory Office requirements.

Schedule

Fieldwork will need to occur when the ground is snow free and not frozen. SWCA can complete the fieldwork and reporting for the Project within 1 to 2 months of receiving notice to proceed, weather permitting.

SECTION 404 AUTHORIZATION FOR PROJECT

The USACE maintains Nationwide Permits (NWP) to provide rapid authorization for projects that have no more than a minimal adverse environmental effect. As relevant to the Project, NWP 42: Recreational Activities (NWP 42) appears to provide authorization for potential impacts to the White River and adjacent wetlands at the 3rd and 10th Streets access locations. With respect to the White River enhancement, NWP 13: Bank Stabilization (NWP 13) and/or NWP 27: Aquatic Habitat Restoration, Enhancement, and Establishment Activities (NWP 27) appear to provide authorization for expected impacts to the White River and adjacent wetlands.

The NWP that provide Section 404 authorization for the Project require pre-construction notification (PCN) to the USACE. PCN includes basic project information, a detailed analysis of project impacts to

waters of the U.S., a description of the avoidance and minimization measures, and an evaluation of Section 7 of the Endangered Species Act (ESA) and Section 106 of the National Historic Preservation Act (NHPA) considerations. Given the Project size and location, SWCA does not expect that additional effort will be required for field inventories or reporting to satisfy Section 7 or Section 106 compliance. Additionally, since the Project will result in a net improvement at Circle Park and have minimal permanent impacts at 3rd and 10th Streets access locations, compensatory mitigation is not expected to be required.

Schedule

SWCA can prepare a draft PCN for review and comment within 1 month of receiving notice to proceed, assuming the aquatic resources inventory report is available and Project design is at a 60% or greater level of completion.

Note: If ERBM and the Town of Meeker decide to move forward with the aquatic resources inventory and reporting in fall 2021, the labor and direct expenses associated with that portion of this Phase are \$7,500.

PHASE 3 – 60% DESIGN DRAWINGS FOR WHITE RIVER AT CIRCLE PARK

Data Collection and Review

Using data from the previous phase of assessment and design, SWCA will move forward with the development of 60% design drawings for the White River at Circle Park. The stabilization plan submitted on December 11, 2020 (Circle Park Enhancement and Shoreline Stabilization Plan) will serve as the guide for development of the 60% design. This scope of work includes time for the design engineer to review existing data and conduct additional analyses needed for development of the 60% design, including hydrologic analysis, hydraulic modeling, and ice flow analysis.

Although SWCA's proposed scope of work does not include the collection of topographic, bathymetric or utility survey data, this information will be needed to develop 60% design drawings. Topographic and utility survey data will need to be signed by a Professional Land Surveyor (PLS) licensed in the state of Colorado.

No-Rise Certification and coordination is included in Phase 3, but SWCA has not included labor fees to prepare a detailed model and floodplain permit application. These tasks are not currently expected to be required based on the nature of the Project design.

Design

SWCA will begin development of the 60% level design for the Circle Park portion of White River. Preliminary design will consist of the following.

- Development of dimensionless ratios and morphology table (as applicable for bank stabilization) for proposed stream channel design/stabilization.
- Development of proposed stream channel/bank alignment and approximate grading extents.
- Development of typical stream bank cross sections.
- Shear stress calculations to determine boulder sizes for construction of in-stream structures.

Consideration will be taken during design to develop proposed conditions that will qualify as a no-rise for the regulated floodplain. This scope of work includes time for coordination with the local floodplain administrator to discuss the existing floodplain status, the proposed improvements, and if the local floodplain administrator can issue a floodplain development permit with the design information. This task

does not include detailed hydraulic modeling for the proposed features or coordination with the Federal Emergency Management Agency.

60% Design Drawings

After the completion of preliminary design, SWCA will develop design drawings of the proposed improvements. The construction drawings will consist of the following.

- Title sheet
- Legends, symbols, and key sheet
- General notes sheet
- Existing conditions plan sheets
- Plan and profile sheets
 - Stream channel alignment
 - Bankfull bench and grading limits
 - In-stream structure location and alignment
 - Limits of disturbance
 - Stream bankfull slope profile, bank profile, and thalweg profile
- Typical cross section sheets (of bank stabilization work)
- Detailed cross section for bank stabilization
- Construction details
- Erosion and sediment control plan sheet
- Erosion and sediment control details
- In-stream structure details
- Planting plan sheets (for stream banks and areas adjacent to stream channel)
- Planting plan notes (for stream banks and areas adjacent to stream channel)

SWCA will prepare an opinion of probable construction cost (OPCC) based on the 60% stream design drawings.

This task includes participation in one comment review meeting to discuss comments on the 60% design. SWCA will complete one round of comment revisions based on one set of comments received from the ERBM.

This task also includes a \$5,000 subconsultant fee to engage an outside subject matter expert to review the Project design and provide input on ice jam formation.

Schedule

60% design drawings can be completed within 2 months of receipt of data collection and PLS survey data (utilities and topographic) for the site.

PHASE 4 – LANDSCAPE DESIGN FOR WHITE RIVER ACCESS AT 3RD AND 10TH STREETS

SWCA's 2020 work for the Town and ERBM board included development of initial conceptual designs for improved access to the White River at 3rd Street and 10th Street. Based on stakeholder feedback, these two conceptual designs were refined to roughly the 30% landscape design level to facilitate future engineering design and final landscape design. In Task 4 SWCA will prepare a 60%-level construction plan set that will focus on improving parking access, safety, bank stability, visual screening, and non-motorized water access in these two locations. Designs for 3rd and 10th Streets will include planting and hardscape elements, as required, and will maximize parking spaces and provide enhanced circulation and aesthetics. In addition to planting and hardscape amenities, a lighting layout plan will be developed to improve safety during dark hours. The lighting plan will seek to minimize impacts to adjacent residents on 3rd Street.

Upon completion, 60% designs will be presented to the Town and ERBM board for comment. SWCA will incorporate stakeholder feedback and will prepare a 100% landscape design set that can be used for bidding and construction purposes. An opinion of probable construction costs will be presented with a basis of design memorandum that describes the design objectives, constraints, and approach for bank stabilization, river recreation enhancements, and upland park design features to assist ERBM with a construction bid package.

The 60% and 100% landscape design plans will include the following components.

- Cover sheet
- Index of drawings and legend
- Itemized plant and material quantities
- General notes (Project contacts, utility conflict, special guarantees, other)
- Project layout
- Grading and erosion control plan (existing and proposed contours)
- Bank stabilization plan, including profile and cross section sheets, as needed
- Lighting plan

Deliverables

- Virtual attendance at one stakeholder design development meeting and one public meeting.
- 60% landscape design plan drawings of the Project site in 22 x 34-inch (ANSI D) and 11 x 17-inch (ANSI B) PDF formats.
- 100% landscape design plan drawings of the Project site in 22 x 34-inch (ANSI D) and 11 x 17-inch (ANSI B) PDF formats.
- Basis of design report and estimation of probable costs.

Assumptions

- SWCA will incorporate one round of revisions and edits to the 60% plans.
- Given the limited planting area at the 3rd Street location and the naturalized setting at 10th Street, an irrigation plan is not included in the design set. It is assumed that the use of native plant material and seed mixtures in these areas will only require supplemental watering during the establishment period and during periods of prolonged drought.

- Environmental permitting will be evaluated at a high level with guidance for addressing this during the design and construction phase.

PHASE 5 – 100% DESIGN DRAWINGS, CONTRACT DOCUMENTS, AND CONSTRUCTION PHASE SERVICES FOR WHITE RIVER AT CIRCLE PARK

Based on the level of uncertainty regarding the approach for Project construction (e.g., design-build vs. design-bid), SWCA has not developed a projected cost for this task. The following tasks are included to provide a depiction of the general approach that would be employed if SWCA is asked to take the 60% plans to 100% drawings that could be used for bidding and construction purposes.

TASK 1 – 100% CONSTRUCTION DRAWINGS

Based on comments received during the 60% plan review, and upon written agreement and notice to proceed from ERBM/Town of Meeker (Client), SWCA will proceed with development of the 95% design drawings which will include the design sheets and features listed in Phase 3, but will also include the following.

- Stream construction sequence and general notes (one sheet)
- Streambank stabilization and in-stream structure plan features
 - Final locations of stream bank alignment adjustments, bankfull bench limits, toe-of-floodplain limits, and in-stream structure locations (boulder toe protection or rock vanes)
 - Finalized grading and proposed contours will be updated for the final plan drawings
- Final typical stream cross sections
- Two detailed cross sections for grading
 - One detailed cross section for a riffle
 - One detailed cross section for a pool
- Final streambank planting plan limits
 - Planting zone locations
- Streambank planting features
 - Planting zone descriptions
 - Proposed species composition and density
 - Planting details
- Finalized erosion and sediment control plan sheets
 - Erosion and sediment control feature locations (silt fence, tree protection fence, rock silt check dams, etc.)
- Final erosion and sediment control details

SWCA will prepare an updated OPCC based on the final construction drawings.

After review of the draft 100% design drawings by the Client, and after all comments have been received, SWCA will finalize the design drawings to address the received comments. This scope of work includes effort for one round of comment revisions and assumes that all comments will be compiled and submitted together to be addressed.

Schedule

SWCA will provide draft 100% design drawings to the Client within 60 days following notice to proceed from the Client for Phase 5 and following the receipt of comments from the 60% review.

TASK 2 – CONTRACT DOCUMENTS

SWCA will assist in the preparation of contract documents by completing the following.

- Streambank stabilization specific technical specifications
- Update OPCC based on the final design drawings
- Preparation of anticipated construction schedule for streambank-related work and plantings
- Prepare bid-tab for Client distribution to potential contractors

Note: This scope of work does not include effort for SWCA to publicly bid the project. It is assumed that this will be completed by the Client.

TASK 3 – CONSTRUCTION PHASE SERVICES

SWCA will provide construction observation site visits during active stream channel construction. This task includes effort for up to six site visits during active construction to observe structure installation and bank stabilization work. SWCA will also assist the Client with answering requests for information received from the contractor.

ASSUMPTIONS

SWCA developed this proposal with the following assumptions regarding available data and work approach. If these assumptions require revision, changes to the Project schedule and/or budget may be required.

- 1) A PLS survey will be available for the three distinct project locations (White River at Circle Park, 3rd Street access, and 10th Street access).
- 2) A cultural resources survey will not be required for USACE NWP authorization or receipt of future grant funding. If required, this task is initially expected to require roughly \$10,000 to perform a Class III survey and associated report.
- 3) The number and nature of meetings and other stakeholder engagement activities will adhere to the guidelines provided in this scope of work.
- 4) It is understood that ice jam formation and associated flooding are ongoing events that are not expected to be eliminated as a result of the Project. Although SWCA will engage subject matter experts to review our engineering design, there is no guarantee regarding future flooding incidents and the Project's ability to mitigate them.
- 5) The local floodplain administrator will not require a detailed hydraulic model and floodplain permit application. It is assumed that a no-rise certification from the designing professional engineer will be sufficient.

ATTACHMENT B: COST AND SCHEDULE

SWCA proposes to invoice these services on a time and materials basis, not to exceed the total presented in Table 1. Invoicing will be completed following the services provided during the month of service. Table 1 provides a summary of the costs for each individual phase described in the scope of work in Attachment A. SWCA labor, equipment, and expense rates are reflective of SWCA's 2021 Standard Rate Schedule.

Table 1. Cost Estimate by Phase

PHASE	DESCRIPTION	COST
Phase 1	On-Call Technical Support and Stakeholder Engagement	\$9,500
Phase 2	Clean Water Act Section 404 Authorization	\$12,200
Phase 3	60% Design Drawings for White River at Circle Park	\$31,500
Phase 4	Landscape Design for White River Access at 3rd and 10th Streets	\$13,400
Phase 5	100% Design Drawings, Contract Documents, and Construction Phase Services for White River at Circle Park	To be determined based on selected path forward
	Labor Subtotal	\$66,600
	Subconsultant Fees	\$5,000
	Total Direct Costs	\$2,500
TOTAL		\$74,100

ATTACHMENT C: KEY PERSONNEL

SWCA ENVIRONMENTAL CONSULTANTS

SWCA Environmental Consultants (SWCA) is an employee-owned company of over 1,200 natural and cultural resources scientists and planners. We have a long history of working with city, county, state, and federal agencies throughout Colorado and the West to provide professional services to meet a diversity of needs for our clients. We offer creative solutions to solve complex interdisciplinary issues and regularly engage stakeholders in the process. SWCA has a regional office in Broomfield, Colorado, and has worked successfully in Colorado since 1993 and across the western United States for projects ranging in size from less than 1 acre to more than 300,000 acres. SWCA intends to provide the project management and coordination component of this Project, including facilitating stakeholder involvement. SWCA has the capacity to provide landscape architects, professional engineers, aquatic biologists, and botanists who will collaborate to develop the 60% and 100% landscape design plans, including hydrology and geomorphology, and the river access and channel structures for an enhanced urban interface.

NOAH GREENBERG, PWS, PROJECT MANAGER AND WATER RESOURCES SCIENTIST

Noah Greenberg has 20 years of experience working on water resource projects throughout the United States, with 14 years of this experience as an environmental consultant in Colorado. Mr. Greenberg has managed drainageway restoration projects from conceptual design through post-construction monitoring and has significant experience with the planning, design, permitting, and construction of these projects in Colorado. In addition to the technical considerations with drainageway enhancement planning and design projects, Mr. Greenberg is adept at navigating stakeholder engagement processes and identifying and seeking grant funding for these projects. Mr. Greenberg has a bachelor's degree in Biology from Colorado College and a master's degree in Ecology and Evolutionary Biology from the University of Colorado-Boulder. Prior to joining SWCA, Mr. Greenberg worked for a prominent water resources engineering and environmental consulting firm in Denver, Colorado. *Particularly relevant to this Project, Mr. Greenberg has worked on several projects in Rio Blanco County, including a large wetland permitting and restoration project in the Piceance Creek valley, stormwater management and reclamation for natural gas access roads and pipelines, and an evaluation of water quality in Yellow Creek.*

DAREN PAIT, P.E.

Daren Pait has 21 years of experience in surface water and environmental engineering. His experience includes natural channel design, wetland design, living shoreline design, hydraulic flood modeling and floodplain mapping, watershed management planning and modeling, flood mitigation design, water quality best management practice (BMP) design, and stream/shoreline stability assessments. He has been the design engineer for more than 135,000 linear feet of stream channel stabilization and restoration projects (tidal systems/shorelines and non-tidal systems), 33 acres of riparian wetland mitigation projects, and more than 30 acres of lake and pond retrofit projects for Chesapeake Bay TMDL Compliance.

Mr. Pait has been the lead design engineer on multiple coastal resiliency and planning projects, as well as the design engineer for more than 165,000 linear feet of natural channel stabilization and restoration projects (tidal systems/shorelines and non-tidal systems), 33 acres of wetland mitigation projects, and more than 30 acres of stormwater treatment facilities implemented to meet water quality standards.

TONY SOMERS, RLA, LANDSCAPE ARCHITECT AND PLANNER

Tony Somers will serve as the lead designer and project design manager for the Circle Park and White River design elements, coordinating and communicating with stakeholders regularly to ensure timely execution of the contract, work tasks, and submission of all design deliverables. Mr. Somers' landscape architecture background includes the design and implementation of a diverse range of projects that include wetland and stream corridor restoration, municipal park development, municipal green infrastructure guidelines, low-impact development implementation, coastal living shorelines, commercial campus development, public charrettes, three-dimensional visualizations, and photorealistic rendering.

Particularly relevant to this Project, Mr. Somers' breadth of municipal design and planning experience, focus on developing successful native plant palettes for public spaces, and being a certified SITES AP practitioner will further an ecologically and aesthetically conscientious design and a more integrated user experience.