

CITY OF GRAND JUNCTION, COLORADO

CONTRACT

This CONTRACT made and entered into this <u>2nd</u> day of <u>September, 2021</u> by and between the **City of Grand Junction, Colorado**, a government entity in the County of Mesa, State of Colorado, hereinafter in the Contract Documents referred to as the "Owner" and **The Architerra Group of Littleton, Colorado**, hereinafter in the Contract Documents referred to as the "Contractor."

WITNESSETH:

WHEREAS, the Owner advertised that sealed Responses would be received for furnishing all labor, tools, supplies, equipment, materials, and everything necessary and required for the Project described by the Contract Documents and known as <u>RFP-4931-21-SH Horizon</u> <u>Park Master Plan.</u>

WHEREAS, the Contract has been awarded to the above named Contractor by the Owner, and said Contractor is now ready, willing and able to perform the Work specified in the Notice of Award, in accordance with the Contract Documents;

NOW, THEREFORE, in consideration of the compensation to be paid the Contractor, the mutual covenants hereinafter set forth and subject to the terms hereinafter stated, it is mutually covenanted and agreed as follows:

ARTICLE 1

<u>Contract Documents</u>: It is agreed by the parties hereto that the following list of instruments, drawings, and documents which are attached hereto, bound herewith, or incorporated herein by reference constitute and shall be referred to either as the "Contract Documents" or the "Contract", and all of said instruments, drawings, and documents taken together as a whole constitute the Contract between the parties hereto, and they are fully a part of this agreement as if they were set out verbatim and in full herein:

The order of contract document governance shall be as follows:

- a. The body of this contract agreement
- b. Solicitation Documents for the Project including all Addenda; RFP-4931-21-SH Horizon Park Master Plan
- c. Contractors Response to the Solicitation
- d. Change Orders.

ARTICLE 2

<u>Definitions:</u> The clauses provided in the Solicitation apply to the terms used in the Contract and all the Contract Documents.

ARTICLE 3

<u>Contract Services:</u> The Contractor agrees to furnish all labor, tools, supplies, equipment, materials, and all that is necessary and required to complete the tasks associated with the Work described, set forth, shown, and included in the Contract Documents as indicated in the Solicitation Document.

ARTICLE 4

<u>Contract Price and Payment Procedures:</u> The Contractor shall accept as full and complete compensation for the performance and completion of all of the Work specified in the Contract Documents, the sum of **Forty Nine Thousand Nine Hundred Seventy Five dollars (\$49,975.00).** If this Contract contains unit price pay items, the Contract Price shall be adjusted in accordance with the actual quantities of items completed and accepted by the Owner at the unit prices quoted in the Solicitation Response. The amount of the Contract Price is and has heretofore been appropriated by the Grand Junction City Council for the use and benefit of this Project. The Contract Price shall not be modified except by Change Order or other written directive of the Owner. The Owner shall not issue a Change Order or other written directive which requires additional work to be performed, which work causes the aggregate amount payable under this Contract to exceed the amount appropriated for this Project, unless and until the Owner provides Contractor written assurance that lawful appropriations to cover the costs of the additional work have been made.

Unless otherwise provided in the Solicitation, monthly partial payments shall be made as the Work progresses. Applications for partial and Final Payment shall be prepared by the Contractor and approved by the Owner in accordance with the Solicitation.

To receive payment, Contractor must **submit invoices to Ken Sherbenou, Parks & Recreation Director at <u>kensh@gjcity.org</u>**.

ARTICLE 5

<u>Contract Binding:</u> The Owner and the Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party hereto in respect to all covenants, agreements and obligations contained in the Contract Documents. The Contract Documents constitute the entire agreement between the Owner and Contractor and may only be altered, amended or repealed by a duly executed written instrument. Neither the Owner nor the Contractor shall, without the prior written consent of the other, assign or sublet in whole or in part its interest under any of the Contract Documents and specifically, the Contractor shall not assign any moneys due or to become due without the prior written consent of the Owner.

ARTICLE 6

<u>Severability:</u> If any part, portion or provision of the Contract shall be found or declared null, void or unenforceable for any reason whatsoever by any court of competent jurisdiction or any governmental agency having the authority thereover, only such part, portion or provision shall be effected thereby and all other parts, portions and provisions of the Contract shall remain in full force and effect.

IN WITNESS WHEREOF, City of Grand Junction, Colorado, has caused this Contract to be subscribed and sealed and attested in its behalf; and the Contractor has signed this Contract the day and the year first mentioned herein.

CITY OF GRAND JUNCTION, COLORADO

By: Susan Hyatt

Title: Senior Buyer

9/3/2021

Date

THE ARCHITERRA GROUP

DocuSigned by:

By:<u>Dearp Pearson</u> Dearp Pearson, President 9/3/2021

Date



Request for Proposal RFP-4931-21-SH

HORIZON PARK MASTER PLAN

RESPONSES DUE:

August 11, 2021 prior to 2:30 P.M. Local

<u>Accepting Electronic Responses Only Submitted Through the Rocky</u> <u>Mountain E-Purchasing System (RMEPS)</u> <u>www.bidnetdirect.com/colorado</u>

(Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor <u>MUST</u> contact RMEPS to resolve issue prior to the response deadline. 800-835-4603)

> Purchasing Representative: Susan Hyatt, Senior Buyer susan@gjcity.org 970-244-1513

NOTE: All City solicitation openings will continue to be held virtually.

This document has been developed specifically to solicit competitive responses for this solicitation and may not be the same as previous City of Grand Junction solicitations. All vendors are urged to thoroughly review this solicitation prior to responding. Submittal by **FAX, EMAIL or HARD COPY IS NOT ACCEPTABLE** for this solicitation.

REQUEST FOR PROPOSAL

TABLE OF CONTENTS

Section

- **1.0** Administrative Information and Conditions for Submittal
- 2.0 General Contract Terms and Conditions
- 3.0 Specifications/Scope of Services
- 4.0 **Preparation and Submittal of Proposals**
- 5.0 Evaluation Criteria and Factors
- 6.0 Solicitation Response Form

REQUEST FOR PROPOSAL

SECTION 1.0: ADMINISTRATIVE INFORMATION & CONDITIONS FOR SUBMITTAL

1.1 Issuing Office: This Request for Proposal (RFP) is issued by the City of Grand Junction (City). All contact regarding this RFP shall be directed to:

RFP Questions:

Susan Hyatt susanh@gjcity.org

The City would like to remind all Contractors, Sub-Contractors, Vendors, Suppliers, Manufacturers, Service Providers, etc. that (with the exception of Pre-Bid or Site Visit Meetings) all questions, inquiries, comments, or communication pertaining to any formal solicitation (whether process, specifications, scope, etc.) must be directed (in writing) to the Purchasing Agent assigned to the project, or Purchasing Division. Direct communication with the City assigned Project Managers/Engineers is not appropriate for public procurement, and may result in disqualification.

- **1.2 Purpose:** The purpose of this RFP is to obtain proposals from qualified professional firms to develop a Master Plan for Horizon Park as described in Section 3. Horizon Park is currently undeveloped.
- 1.3 Mandatory Site Visit/Briefing: <u>Prospective bidders are required to attend a mandatory</u> <u>pre-bid meeting on July 27, 2021 at 2:00 P.M.</u> Meeting location shall be at Horizon Park (also the site of Fire Station #6), 731 27 Road, Grand Junction, CO 81506. The purpose of this visit will be to inspect and to clarify the contents of this Request for Proposals (RFP).

NOTE: Bidders that are more than 5 OR 10 minutes late meeting shall not be eligible to submit a bid response to this solicitation process for this project.

- **1.4 Compliance:** All participating Offerors, by their signature hereunder, shall agree to comply with all conditions, requirements, and instructions of this RFP as stated or implied herein. Should the City omit anything from this packet which is necessary to the clear understanding of the requirements, or should it appear that various instructions are in conflict, the Offeror(s) shall secure instructions from the Purchasing Division prior to the date and time of the submittal deadline shown in this RFP.
- **1.5 Procurement Process:** Procurement processes shall be governed by the most current version of the City of Grand Junction <u>Purchasing Policy and Procedure Manual</u>.
- 1.6 Submission: Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing (BidNet Colorado) website, www.bidnetdirect.com/colorado. The uploaded response shall be a single PDF document with all required information included. This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.) Please view our "Electronic Vendor Registration Guide" at http://www.gicity.org/501/Purchasing-Bids for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise

during response submission, vendor <u>MUST</u> contact RMEPS to resolve issue prior to the response deadline. **800-835-4603**).

Please join the virtual opening for Horizon Park Master Plan RFP-4931-21-SH on GoToConnect from your computer using the Chrome browser. <u>https://app.goto.com/meet/217241045</u> You can also dial in using your phone. Dial-In (646) 749-3335 Access Code 217-241-045

- **1.7** Altering Proposals: Any alterations made prior to opening date and time must be initialed by the signer of the proposal, guaranteeing authenticity. Proposals cannot be altered or amended after submission deadline.
- **1.8 Withdrawal of Proposal:** A proposal must be firm and valid for award and may not be withdrawn or canceled by the Offeror for sixty (60) days following the submittal deadline date, and only prior to award. The Offeror so agrees upon submittal of their proposal. After award this statement is not applicable.
- **1.9** Acceptance of Proposal Content: The contents of the proposal of the successful Offeror shall become contractual obligations if acquisition action ensues. Failure of the successful Offeror to accept these obligations in a contract shall result in cancellation of the award and such vendor shall be removed from future solicitations.
- **1.10** Addenda: All Questions shall be submitted in writing to the appropriate person as shown in Section 1.1. Any interpretations, corrections and changes to this RFP or extensions to the opening/receipt date shall be made by a written Addendum to the RFP by the City. Sole authority to authorize addenda shall be vested in the City of Grand Junction Purchasing Representative. Addenda will be issued electronically through the Rocky Mountain E-Purchasing website at www.bidnetdirect.com/colorado and on the City's website at www.bidnetdirect.com/colorado and on the City's website at www.gicity.org/501/Purchasing/Bids. Offerors shall acknowledge receipt of all addenda in their proposal.
- 1.11 Confidential Material: All materials submitted in response to this RFP shall ultimately become public record and shall be subject to inspection after contract award. "Proprietary or Confidential Information" is defined as any information that is not generally known to competitors and which provides a competitive advantage. Unrestricted disclosure of proprietary information places it in the public domain. Only submittal information clearly identified with the words "Confidential Disclosure" and uploaded as a separate document shall establish a confidential, proprietary relationship. Any material to be treated as confidential or proprietary in nature must include a justification for the request. The request shall be reviewed and either approved or denied by the City. If denied, the proposer shall have the opportunity to withdraw its entire proposal, or to remove the confidential or proprietary restrictions. Neither cost nor pricing information nor the total proposal shall be considered confidential or proprietary
- **1.12 Response Material Ownership**: All proposals become the property of the City upon receipt and shall only be returned to the proposer at the City's option. Selection or rejection of the proposal shall not affect this right. The City shall have the right to use all ideas or

adaptations of the ideas contained in any proposal received in response to this RFP, subject to limitations outlined in the section titled "Confidential Material". Disqualification of a proposal does not eliminate this right.

- **1.13 Minimal Standards for Responsible Prospective Offerors:** A prospective Offeror must affirmably demonstrate their responsibility. A prospective Offeror must meet the following requirements:
 - Have adequate financial resources, or the ability to obtain such resources as required.
 - Be able to comply with the required or proposed completion schedule.
 - Have a satisfactory record of performance.
 - Have a satisfactory record of integrity and ethics.
 - Be otherwise qualified and eligible to receive an award and enter into a contract with the City.
- **1.14 Nonconforming Terms and Conditions:** A proposal that includes terms and conditions that do not conform to the terms and conditions of this Request for Proposal is subject to rejection as non-responsive. The City reserves the right to permit the Offeror to withdraw nonconforming terms and conditions from its proposal prior to a determination by the City of non-responsiveness based on the submission of nonconforming terms and conditions.
- **1.15 Open Records:** All proposals shall be open for public inspection after the contract is awarded. Trade secrets and confidential information contained in the proposal so identified by offeror as such shall be treated as confidential by the City to the extent allowable in the Open Records Act.
- **1.16 Sales Tax:** City of Grand Junction is, by statute, exempt from the State Sales Tax and Federal Excise Tax; therefore, all fees shall not include taxes.
- **1.17 Public Opening:** Proposals shall be opened virtually immediately following the proposal deadline. Offerors, their representatives and interested persons may be present. Only the names and locations on the proposing firms will be disclosed.

SECTION 2.0: GENERAL CONTRACT TERMS AND CONDITIONS

- 2.1. Acceptance of RFP Terms: A proposal submitted in response to this RFP shall constitute a binding offer. Acknowledgment of this condition shall be indicated on the Cover Letter by the Offeror or an officer of the Offeror legally authorized to execute contractual obligations. A submission in response to the RFP acknowledges acceptance by the Offeror of all terms and conditions, as set forth herein. An Offeror shall identify clearly and thoroughly any variations between its proposal and the City's RFP requirements. Failure to do so shall be deemed a waiver of any rights to subsequently modify the terms of performance, except as outlined or specified in the RFP.
- 2.2. Execution, Correlation, Intent, and Interpretations: The Contract Documents shall be signed by the City and Contractor. By executing the contract, the Contractor represents that they have familiarized themselves with the local conditions under which the Work is to be performed, and correlated their observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by any one, shall be as binding as if required by all. The intention of the documents is to include all

labor, materials, equipment, services and other items necessary for the proper execution and completion of the scope of work as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the City are, and shall remain, City property. They are not to be used on any other project.

- **2.3.** Acceptance Not Waiver: The City's acceptance or approval of any work furnished hereunder shall not in any way relieve the proposer of their present responsibility to maintain the high quality, integrity and timeliness of his work. The City's approval or acceptance of, or payment for, any services shall not be construed as a future waiver of any rights under this Contract, or of any cause of action arising out of performance under this Contract.
- **2.4. Assignment:** The Offeror shall not sell, assign, transfer or convey any contract resulting from this RFP, in whole or in part, without the prior written approval from the City.
- 2.5. Compliance with Laws: Proposals must comply with all Federal, State, County and local laws governing or covering this type of service and the fulfillment of all ADA (Americans with Disabilities Act) requirements. Contractor hereby warrants that it is qualified to assume the responsibilities and render the services described herein and has all requisite corporate authority and professional licenses in good standing, required by law.
- **2.6. Debarment/Suspension:** The Contractor herby certifies that the Contractor is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Governmental department or agency.
- **2.7. Confidentiality:** All information disclosed by the City to the Contractor for the purpose of the work to be done or information that comes to the attention of the Contractor during the course of performing such work is to be kept strictly confidential.
- **2.8. Conflict of Interest:** No public official and/or City employee shall have interest in any contract resulting from this RFP.
- 2.9. Contract: This Request for Proposal, submitted documents, and any negotiations, when properly accepted by the City, shall constitute a contract equally binding between the City and Offeror. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral, including the Proposal documents. The contract may be amended or modified with Change Orders, Field Orders, or Amendment.
- **2.10.** Cancelation of Solicitation: Any solicitation may be canceled by the City or any solicitation response by a vendor may be rejected in whole or in part when it is in the best interest of the City.
- 2.11. Contract Termination: This contract shall remain in effect until any of the following occurs: (1) contract expires; (2) completion of services; (3) acceptance of services or, (4) for convenience terminated by either party with a written *Notice of Cancellation* stating therein the reasons for such cancellation and the effective date of cancellation at least thirty days past notification.
- **2.12.** Employment Discrimination: During the performance of any services per agreement with the City, the Offeror, by submitting a Proposal, agrees to the following conditions:

- **2.12.1.** The Offeror shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, disability, citizenship status, marital status, veteran status, sexual orientation, national origin, or any legally protected status except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Offeror. The Offeror agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
- **2.12.2.** The Offeror, in all solicitations or advertisements for employees placed by or on behalf of the Offeror, shall state that such Offeror is an Equal Opportunity Employer.
- **2.12.3.** Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
- **2.13.** Immigration Reform and Control Act of 1986 and Immigration Compliance: The Offeror certifies that it does not and will not during the performance of the contract employ illegal alien workers or otherwise violate the provisions of the Federal Immigration Reform and Control Act of 1986 and/or the immigration compliance requirements of State of Colorado C.R.S. § 8-17.5-101, *et.seq.* (House Bill 06-1343).
- **2.14.** Ethics: The Offeror shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official, or agent of the City.
- 2.15. Failure to Deliver: In the event of failure of the Offeror to deliver services in accordance with the contract terms and conditions, the City, after due oral or written notice, may procure the services from other sources and hold the Offeror responsible for any costs resulting in additional purchase and administrative services. This remedy shall be in addition to any other remedies that the City may have.
- 2.16. Indemnification: Offeror shall defend, indemnify and save harmless the City and all its officers, employees, insurers, and self-insurance pool, from and against all liability, suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the Offeror, or of any Offeror's agent, employee, subcontractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Offeror shall pay any judgment with cost which may be obtained against the City growing out of such injury or damages.
- **2.17. Oral Statements:** No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this document and/or resulting agreement. All modifications to this request and any agreement must be made in writing by the City.
- **2.18. Remedies**: The Offeror and City agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.
- **2.19.** Venue: Any agreement as a result of this RFP shall be deemed to have been made in, and shall be construed and interpreted in accordance with, the laws of the City of Grand Junction, Mesa County, Colorado.

- **2.20.** Expenses: Expenses incurred in preparation, submission and presentation of this RFP are the responsibility of the company and cannot be charged to the City.
- 2.21. Public Funds/Non-Appropriation of Funds: Funds for payment have been provided through the City's budget approved by the City Council/Board of County Commissioners for the stated fiscal year only. State of Colorado statutes prohibit the obligation and expenditure of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated orders or other obligations that may arise past the end of the stated City's fiscal year shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.
- **2.22. Collusion Clause:** Each Offeror by submitting a proposal certifies that it is not party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any and all proposals shall be rejected if there is evidence or reason for believing that collusion exists among the proposers. The City may or may not, at the discretion of the City Purchasing Representative, accept future proposals for the same service or commodities for participants in such collusion.
- **2.23. Gratuities**: The Contractor certifies and agrees that no gratuities or kickbacks were paid in connection with this contract, nor were any fees, commissions, gifts or other considerations made contingent upon the award of this contract. If the Contractor breaches or violates this warranty, the City may, at their discretion, terminate this contract without liability to the City.
- **2.24. Performance of the Contract:** The City reserves the right to enforce the performance of the contract in any manner prescribed by law or deemed to be in the best interest of the City in the event of breach or default of resulting contract award.
- **2.25. Cooperative Purchasing:** Purchases as a result of this solicitation are primarily for the City. Other governmental entities may be extended the opportunity to utilize the resultant contract award with the agreement of the successful provider and the participating agencies. All participating entities will be required to abide by the specifications, terms, conditions and pricings established in this Proposal. The quantities furnished in this proposal document are for only the City. It does not include quantities for any other jurisdiction. The City will be responsible only for the award for our jurisdiction. Other participating entities will place their own awards on their respective Purchase Orders through their purchasing office or use their purchasing card for purchase/payment as authorized or agreed upon between the provider and the individual entity. The City accepts no liability for payment of orders placed by other participating jurisdictions under the terms of this solicitation will indicate their specific delivery and invoicing instructions.
- **2.26. Public Disclosure Record:** If the Proposer has knowledge of their employee(s) or subproposers having an immediate family relationship with an City employee or elected official, the proposer must provide the Purchasing Representative with the name(s) of these individuals. These individuals are required to file an acceptable "Public Disclosure Record", a statement of financial interest, before conducting business with the City.

SECTION 3.0: SPECIFICATIONS/SCOPE OF SERVICES

3.1 Background: The City of Grand Junction, Colorado (City) is seeking proposals from qualified consultants to develop a Master Plan for Horizon Park at 731 27 Road, Grand Junction, CO 81506. This undeveloped park is also the location of the newly constructed Fire Station #6. The services require a contract with a Landscape Architectural firm.

The Parks, Recreation, and Open Space (PROS) Master Plan adopted by City Council on January 6, 2021, identified this undeveloped park as a priority in the short-term (1-4 years) with implementing a community-based plan to address the lack of service in this area of the city. Please see **Exhibit A**.

The central purpose of the project is to produce a Master Plan for Horizon Park. Horizon Park is a 13-acre undeveloped parcel in an area of the city that is underserved by park amenities. A community process should be employed to finalize the program and design. The front part of the site was developed as Fire Station #6, which opened in the fall of 2020. Located west of 27 Road and two blocks north of G Road, surrounded by residential development, it is appropriate for a neighborhood-serving community park. Program for this community park may include parking, picnic/shade pavilion, walking path, an open turf area, and active amenities such as courts or playground. Screening/buffering should be provided between the park and the existing fire station.

Grand Junction, Colorado is the gateway to the mountains and canyonlands of western Colorado and eastern Utah. Centrally located between Denver, Colorado (250 miles east) and Salt Lake City, Utah (270 miles west), Grand Junction is surrounded by 1.2 million acres of public lands. Grand Junction also possesses easy access to the Rocky Mountains and western Colorado's incredible landscape. The City of Grand Junction currently cover 39.8 square miles and serves an estimated population of 64, 900 people. 78.7% are Caucasian and 16.8% Hispanic or Latino.

The City of Grand Junction was first settled in 1881 and was incorporated in 1882. It became a Home-rule city in 1909 by adopting its own charter pursuant to Article XX of Constitution of the State of Colorado. The City Operates using the Council-Manager from of government. It provides a full range of services including public safety (police, 9-1-1 communication center, fire, emergency medical services and emergency transport), public works (highways, streets, and sanitation), culture-recreation (parks, programs, cemeteries, swimming pools, golf courses, and general recreation), utilities (water and wastewater) planning and development, visitor services, and general administrative services.

The Parks and Recreation Department is responsible for management of a total of 350 acres of developed parks, 111 acres of cemetery, 55 acres of school grounds that double as public parks and 598 acres of open space. Additionally, the system includes recreation programs and facilities that provide a level of service of about 170,000 participants visits per year, which averages to nearly 500 people served per day. Major facilities include Lincoln Park Stadium and Complex, two pools (one indoor and one outdoor), regional Canyon View Park and the Las Colonias Park. Two cemeteries are also operated and over 27,000 street trees are maintained.

- **3.2 Scope of services:** Provide a Master Plan on time and within budget. The Plan shall be efficient to operate and maintain; shall include sustainable features to the extent possible; shall be aesthetically pleasing and shall add value to the City.
 - **3.2.1** Critical elements to consider in this project are as follows, although these points are not all-inclusive:
 - Facilitate a public process to identify the preferred concept design for the development of Horizon Park in a way that is budget conscious and maximizes the parks contribution to the Quality of Life in Grand Junction.
 - Providing engineer's opinion of probable costs for construction of the elements favored in the conceptual master planning process.
 - Ensure completion of this Master Plan by December 31, 2021.
 - **3.2.2 Schedule of Project Services (Tasks):** Public involvement will be an important element of this project:
 - A minimum of three public meetings are envisioned for the Consultant.
 - A minimum of three Stakeholder meetings are envisioned for the Consultant.
 - It is assumed that additional meetings can be conducted by staff.

An effort extending no more than four months is envisioned. Individual / unique approaches are welcome. Provide the following as a basic outline:

Phase 1: Programming and Public Participation: A public participation process will be required because of the size and location of the park.

Phase 2: Conceptual Design Development: Some design elements for the park have already been identified because of need; however, the community will largely play a hand in adding additional amenities, determining size, and determining location. Ultimately a final agreed upon Preferred Plan with supporting graphics is expected.

Phase 3: Final Master Plan to Include Phasing and Cost Estimates: A final Master Plan will be refined from the above processes. This plan will be drawn to scale and will include at a minimum:

- Accurate dimensional amenities and facilities
- Generalized grading to a one-foot contour level
- Line diagrams for site utilities
- Base map. A survey of the front part of the property is attached as **Exhibit B**. The City will complete the survey and have it available in the beginning of September to the awarded Consultant.
- Traffic study (if deemed necessary)
- Geotechnical. The geotechnical investigation for Fire Station #6 is available and included as **Exhibit C**. It is presumed no additional geotechnical investigation is necessary, but the opinion of the proposing design team is invited.
- Irrigation strategy, supply integration, mainline distribution and sizing

In addition, a realistic phasing plan is required along with corresponding cost estimates and quantities including:

- Site boundary, civil grading/drainage/utility plan (existing and proposed)
- Landscape plan

- Furnishing plan and cut sheet details
- Lighting plan
- Signage plan

• Other necessary drawing details, design notes, and specifications required for construction.

3.3 Special Conditions & Provisions:

- **3.3.1 Pricing:** Pricing shall be all inclusive to include, but not limited to, all labor, materials, equipment, drawings, lodging, and travel costs. Offeror shall utilize the attached Fee Proposal form with their submitted proposal.
- **3.3.2 Budget:** The Owner's budgeted amount for this master plan development project is \$50,000.
- **3.3.2 Project Schedule:** Offeror shall include a project schedule, delineating the calendar of events proposed to meet the projected deadline of December 31, 2021.
- 3.4 Mandatory Pre-Proposal Briefing/Site Visit: Prospective bidders are required to attend a mandatory pre-bid meeting on July 27, 2021 at 2:00 P.M. Meeting location shall be at Horizon Park (also the site of Fire Station #6), 731 27 Road, Grand Junction, CO <u>81506</u>. The purpose of this visit will be to inspect and to clarify the contents of this Request for Proposals (RFP).

NOTE: Bidders that are more than 5 OR 10 minutes late for the meeting shall not be eligible to submit a bid response to this solicitation process for this project.

3.5 Anticipated Schedule of Activities:

- Request for Proposal available
- Mandatory Pre-Proposal Meeting/Site Visit
- Inquiry deadline, no questions after this date
- Addendum Posted
- Submittal deadline for proposals
- Negotiations (if required)
- Final selection
- Contract execution

July 16, 2021 July 27, 2021 at 2pm August 2, 2021 August 4, 2021 August 11, 2021 August 18, 2021 August 26, 2021 August 27, 2021

3.6 Questions Regarding Scope of Services:

Susan Hyatt., Senior Buyer susanh@gjcity.org

3.1 Contract: The initial contract period shall be from August 2021 through December 2021 and may be renewed for a period up to 6 months, as mutually agreed by the City and the Consultant. All awards and extensions are subject to annual appropriation of funds.

SECTION 4.0: PREPARATION AND SUBMITTAL OF PROPOSALS

Submission: Each proposal shall be submitted in electronic format only through the BidNet website, www.bidnetdirect.com/colorado. This site offers both "free" and "paying" registration options that allow for full access of the City's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.) (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor <u>MUST</u> contact RMEPS to resolve issue prior to the response deadline; **800-835-4603**). For proper comparison and evaluation, the City requests that proposals be formatted as directed. The uploaded response to this RFP shall be a single PDF document with all required information included</u>. Offerors are required to indicate their interest in this Project, show their specific experience and address their capability to perform the Scope of Services in the Time Schedule as set forth herein. For proper comparison and evaluation, the City requires that proposals be formatted **A** to **G**.

- A. Cover Letter: Cover letter shall be provided which explains the Firm's interest in the project. The letter shall contain the name/address/phone number/email of the person who will serve as the firm's principal contact with City's Contract Administrator and shall identify individual(s) who will be authorized to make presentations on behalf of the firm. The statement shall bear the signature of the person having proper authority to make formal commitments on behalf of the firm. The letter shall include the firm's understanding of the project and objectives. By submitting a response to this solicitation, the Contractor agrees to all requirements herein.
- **B. Qualifications/Experience/Credentials:** Proposers shall provide their qualifications for consideration as a consultant to the City of Grand Junction and include prior experience in similar projects, as follows:
 - 1. Provide the name of the project manager for this assignment, including an overview of their experience as project manager for other similar assignments and amount of time this person is expected to spend on the project.
 - 2. Provide the names and resumes of key personnel that will be performing the proposed services, including the primary project manager.
 - 3. List the names of the subcontractors expected to be used, if any, the services to be provided by the subcontractors and the amount of time that each is expected to spend on the project. Also, include the names and resumes of key subcontractor personnel who will be working on the assignment.

C. Methodology and Approach to Scope of Work

- 1. Describe any project approaches or ideas that you would apply to this project and that you feel would enhance the quality of the project and final product. Provide a specific timeline or schedule for the work. Show milestones and completion dates on the schedule.
- 2. Describe the methods and timeline of communication your firm will use with the City's project manager, other involved City staff, elected and appointed officials, and other interested parties.

D. Community Involvement

1. Describe methods and general strategy for engaging the community throughout the planning process.

- **2.** Provide innovative and successful techniques of outreach to Grand Junction's Latino community.
- **3.** Indicate the specific visualization techniques proposed as part of an innovative community involvement process.
- 4. Specify the number and timing of workshops/meetings/events and strategies proposed with various segments of the Grand Junction community and a technical/advisory Committee (if recommended). Provide the purpose and expected outcome of each of these workshops and strategies.
- E. References: A minimum of three (3) references with name, address, telephone number, and email address that can attest to your experience in projects of similar scope and size. The reference should also include the description of the project scope and lead staff assigned to the project.
- F. Fee Proposal: Provide a cost for the consulting services and products broken down per task listed under the Scope of Work. Provide a breakdown of all reimbursable expenses required to complete the work. If applicable, provide the subcontractor's costs as separate items. Provide hourly rate for your firm and all subcontractors. Provide total cost using Solicitation Response Form found in Section 6.
- **G.** Additional Data (optional): Provide any additional information that will aid in evaluation of your qualifications with respect to this project.

SECTION 5.0: EVALUATION CRITERIA AND FACTORS

- **5.1 Evaluation:** An evaluation team shall review all responses and select the proposal or proposals that best demonstrate the capability in all aspects to perform the scope of services and possess the integrity and reliability that will ensure good faith performance.
- **5.2 Intent:** Only respondents who meet the qualification criteria will be considered. Therefore, it is imperative that the submitted proposal clearly indicate the firm's ability to provide the services described herein.

Submittal evaluations will be done in accordance with the criteria and procedure defined herein. The City reserves the right to reject any and all portions of proposals and take into consideration past performance. The following parameters will be used to evaluate the submittals (with weighted values). Definitions of each criterion is shown in parenthesis below each point.

The following collective criteria shall be worth 70%

- Responsiveness of submittal to the RFP (5) (Contractor has submitted a proposal that is fully comprehensive, inclusive, and conforms in all respects to the Request for Proposals (RFP) and all of its requirements, including all forms and substance.)
- Understanding of the project and the objectives (5) (Contractor's ability to demonstrate a thorough understanding of the City's goals pertaining to this specific project.)
- Experience, necessary resources and skills (10) (Contractor's proven proficiency in the successful completion of similar projects and has provided sufficient information proving their available means to perform the required scope of work/service; to include appropriate bonding, insurance an all other requirements necessary to complete the project.)
- Suitability of the proposal to fulfill City's requirements (10) (Contractor's team is appropriate and applicable to fulfill the needs of this solicitation.)
- Proposed Strategy/Methodology (20) (Contractor has provided a clear interpretation of the City's objectives in regard to the project, and a fully comprehensive plan to achieve successful completion. See Section 5.0 Item C. – Strategy and Implementation Plan for details.)
- Community Involvement (20) (Contractor has a proven plan and methodology for involving the community.)

The following criteria shall be worth 30%

Fees

(All fees associated with the project are provided and are complete and comprehensive.)

City also reserves the right to take into consideration past performance of previous awards/contracts with the City of any vendor, contractor, supplier, or service provider in determining final award(s).

- **5.3 References:** References of the short-listed firms will be assessed during the final phase of the evaluation process.
- **5.4 Oral Interviews:** The City may invite the most qualified rated proposers to participate in oral interviews.
- **5.5** Award: Firms shall be ranked or disqualified based on the criteria listed in Section 5.2. The City reserves the right to consider all of the information submitted and/or oral presentations, if required, in selecting the Consultant.

SECTION 6.0: SOLICITATION RESPONSE FORM RFP-4931-20-SH

Offeror must submit entire Form completed, dated and signed.

Total cost to provide services as described:

\$____*

WRITTEN:

dollars.

*Please provide detail on staffing, hours, materials and reimbursables.

The City reserves the right to accept any portion of the work to be performed at its discretion

The undersigned has thoroughly examined the entire Request for Proposals and therefore submits the proposal and schedule of fees and services attached hereto.

This offer is firm and irrevocable for sixty (60) days after the time and date set for receipt of proposals.

The undersigned Offeror agrees to provide services and products in accordance with the terms and conditions contained in this Request for Proposal and as described in the Offeror's proposal attached hereto; as accepted by the City.

Prices in the proposal have not knowingly been disclosed with another provider and will not be prior to award.

- Prices in this proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a proposal for the purpose of restricting competition.
- The individual signing this proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-903544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of ______ percent of the net dollar will be offered to the City if the invoice is paid within ______ days after the receipt of the invoice. The City reserves the right to consider any such discounts that are no less than Net 10 days when determining bid award.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents.

State number of Addenda received: ______.

It is the responsibility of the Proposer to ensure all Addenda have been received and acknowledged.

Company Name – (Typed or Printed)

Authorized Agent Signature

Address of Offeror

Authorized Agent – (Typed or Printed)

Phone Number

E-mail Address of Agent

City, State, and Zip Code

Date



A total of 997 Invite survey responses were received in the randomly selected sample via paper or online response. Relative to other survey efforts, this level of participation is considered very strong. The high rate of participation resulted in statistical validity, with a margin of error of 3.1%. The results, therefore, are considered representative of the overall opinion of all Grand Junction voters.

• The "Open Link" Sample: An online version of the survey was also made available to residents in the Grand Junction area. Residents were encouraged to go to a website to complete a survey identical to the mailed survey. This Open Link survey was publicized through email lists, newsletters, ads on social media in Spanish and English, public meetings, etc. A total of 1,481 Open Link surveys were received. These results were kept separate from the Invite Survey responses to protect statistical validity. A more in depth description of the needs assessment survey is provided in *Section II, the Future of Parks and Recreation in Grand Junction.*

C. Grand Junction Parks and Recreation Today

The City of Grand Junction Parks and Recreation Department operates and maintains 35 developed parks (350 acres), 6 school properties (55 acres), 9 open space – recreation (598 acres), open space – other maintained (443 acres), one golf course (209 acres operated through the General Services Department) and seven fully or partially undeveloped park lands (285 acres) equating to a total of 1,842 acres of land. The City of Grand Junction owns the following banked future properties that have been designated as undeveloped "park land":

- Flint Ridge (3.3 acres)
- Burkey Park South (10 acres)
- A portion of Horizon Park (13 acres, some of this acreage is Fire Station #6)
- A portion of Paradise Hills (2.79 acres)
- Saccomano Park (30 acres)
- A portion of Westlake Park (4.5 acres)
- Matchett Park (220 acres)

Major facilities include the Lincoln Park Stadium and Complex, two pools (one indoor and one outdoor), Regional Canyon View park and the Las Colonias Park that includes the Amphitheater and the River Park. Two cemeteries are also operated and there are over 37,000 publicly-owned trees across the City. The system includes recreation programs and facilities that provide a level of service of about 170,000 participants visits per year, which averages to nearly 500 people served per day.

The Department is divided into Administration, Parks Operations, and Recreation Divisions. In 2020, the Department adopted budget totaled \$10,031,928 – a five percent increase over the Department's 2019 Amended budget. These totals include labor and benefit costs, operating expenditures, and interfund charges (i.e., fleet, IT, liability insurance).

Table 1: Department Budget

	2018 Actual	2019 Amended	2020 Budget
Administration Total	\$ 815,296	\$1,127,872	\$1,001,801
Parks Operations Total	\$5,760,011	\$6,087,333	\$6,547,273
Recreation Total	\$2,154,308	\$2,283,291	\$2,482,854
P&R Total	\$8,729,615	\$9,498,496	\$10,031,928



- South Rim Open Space
- Bike Park at Lunch Loop
- Lunch Loop Trail System
- Monument Corridor Open Space
- Tiara Rado Open Space (Kindred Reserve)
- Watson Island Open Space

CEMETERIES

Cemeteries are designed for contemplation, commemorating the death of an individual or of many people through a natural or other disaster, or through military action. Grand Junction has two public cemeteries for which Parks and Recreation is responsible for burials in and for maintaining.

- Orchard Mesa Cemetery
- Crown Point Cemetery

UNDEVELOPED PARK LANDS

Park land acquired specifically for future recreational opportunities. Undeveloped park land is a key component to the development of a long-term master plan. Undeveloped park land opens the possibilities of designing and developing park which will help meet future community needs as well as provide possibilities for amenities such as an arboretum, outdoor theater, recreation center.

- Flint Ridge (3.3 acres)
- Burkey Park South (10 acres)
- A portion of Horizon Park (13 acres, some of this acreage is Fire Station #6)
- A portion of Paradise Hills (2.79 acres)
- Saccomano Park (30 acres)
- A portion of Westlake Park (4.5 acres)
- Matchett Park (220 acres)

INTERGOVERNMENTAL AGREEMENTS (IGA)

The City of Grand Junction prides itself in its partnership with School District 51, by forming successful Intergovernmental Agreements (IGA) for the joint use of school facilities. Bookcliff Activity Center: The Bookcliff Activity Center, located at Bookcliff Middle School, is a great example of a successful intergovernmental collaboration with the City of Grand Junction and School District 51. Intergovernmental Agreements currently exist for the following properties:

- Bookcliff Activity Center and Middle School
- Chipeta Elementary School
- East Middle School
- Pear Park Elementary School
- Pomona Elementary School
- Wingate Elementary School
- Orchard Mesa Pool

B. Inventory and Level of Service Analysis

Parks and facilities were inventoried and assessed by staff for function and quality in September 2020 using the GRASP®-IT audit tool. This tool classifies park features into one of two categories: components and modifiers. A component is a feature that people go to a park or facility to use, such as a tennis court, playground, or picnic shelter. Modifiers are amenities such as shade, drinking fountains, and restrooms that enhance comfort and convenience. Larger maps are provided in the *Appendix C*.

Table 7: New Priorities Timeline

Short-term (1-4 years)	Potential Funding Source	
Community Center Feasibility Study	Complete feasibility study currently underway to determine program needs, schematic design, project costs, and identify funding plan. The Feasibility Study for the highest priority indoor facility project is included in the current scope of the PROS Master Plan. This will be a separate document from this PROS Master Plan.	Currently Funded: ½ Great Outdoors Colorado Grant in 2019 and 1/2 CTF dollars
Community Center at Lincoln Park Construction	Construction of facility	Revenue from Marijuana; Tax on Vaping and Tobacco; Grants and Fundraising; Re-Allocate Subsidy on Lincoln Park Outdoor Pool; Grants; Capital Fund (CTF, 0.75% CIP, Parkland Fund); Possible Small Sales Tax
Horizon Park Master Plan and Construction	Community-based plan	Grants; Capital Fund (Parkland Fund); 2021 Budgeted Project for planning. Construction to follow
Blue Heron Boat Ramp Renovation	Renovate this one of two boat ramps managed by the City of Grand Junction. Las Colonias is new and meets the need. Blue Heron does not.	Pursue a GOCO resilient communities grant in February 2021; Grants; Capital Fund (CTF, 0.75% CIP, Parkland Fund)
Lincoln Park Parking and Pickleball Court Improvements and Canyon View Tennis Court Improvements	Conversion of four tennis courts at Lincoln Park to 12-14 Pickleball Courts with lights. Before this conversion, construct four new tennis courts at Canyon View to replace the lost courts at Lincoln Park	Revenue from Marijuana; Tax on Vaping and Tobacco; Grants and Fundraising
Western Colorado Botanical Gardens Master Plan	Assemble plans to renovate this antiquated facility and expand it to include greenhouses	Grants; Partner Contributions; Capital Fund (CTF, 0.75% and CIP)

5.) Horizon Park Master Plan and Construction

	Horizon Park is located in a service area that is significantly below
Short-term Priority	target level. Currently there is no neighborhood access to recreation
	opportunities and is therefore a high priority site.

Horizon Park is a largely undeveloped, 13-acre parcel in an area of the City that is underserved by park amenities. The front part of the site was developed as Fire Station #6, which opened in the fall of 2020. Located west of 27 Road and two blocks north of G Road, surrounded by residential development, it is appropriate for a neighborhood-serving community park. Program for this community park may include parking, picnic/shade pavilion, playground, walking path, an open turf area, and active amenities such as a basketball court or horseshoe pits. Screening/buffering should be provided between the park and the existing fire station. A community process should be employed to finalize the program and design.

Figure 25: Horizon Park Concept Plan



HORIZON PARK - CONCEPT PLAN GRAND UNCLON PROVINCION PRO

DHM DESIGN



Exhibit C



GEOTECHNICAL AND GEOLOGIC HAZARDS INVESTIGATION FIRE STATION #6 731 27 ROAD GRAND JUNCTION, COLORADO PROJECT#00208-0099

CITY OF GRAND JUNCTION 333 WEST AVENUE, BUILDING C GRAND JUNCTION, COLORADO 81501

JULY 12, 2019

Huddleston-Berry Engineering and Testing, LLC 2789 Riverside Parkway Grand Junction, Colorado 81501

SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

A geologic hazards and geotechnical investigation was conducted for the proposed new Fire Station #6 in Grand Junction, Colorado. The project location is shown on Figure 1 – Site Location Map. The purpose of the investigation was to evaluate the surface and subsurface conditions at the site with respect to geologic hazards, foundation design, pavement design, and earthwork for the proposed construction. This summary has been prepared to include the information required by civil engineers, structural engineers, and contractors involved in the project.

Subsurface Conditions (p. 2)

The subsurface investigation consisted of five borings, drilled on May 30^{th} and June 12^{th} , 2019. The locations of the borings are shown on Figure 2 – Site Plan. The borings generally encountered topsoil, fill, and/or pavement section materials above shale bedrock. Groundwater was not encountered in the subsurface at the time of the investigation. The native shale bedrock is moderately plastic and is anticipated to be slightly to moderately expansive.

Geologic Hazards (p. 3)

No geologic hazards were identified which would preclude development of this property. However, moisture sensitive soils and bedrock were encountered during the subsurface investigation and these will impact site development.

Summary of Foundation Recommendations

Spread Footings, Voided Spread Footings, or Isolated Pads and Grade Beams

- Structural Fill A minimum of 48-inches below foundations. The native bedrock materials are not suitable for reuse as structural fill. Imported structural fill should consist of crusher fines, CDOT Class 6 base course, or other granular material approved by the engineer. (p. 4)
- Maximum Allowable Bearing Capacity 3,000 psf. (p. 5)
- Minimum Dead-Load Pressure 1,000 psf. (p. 5)

Drilled Piers

- Minimum Length 25 feet. (p. 5)
- *Minimum Embedment* 15 feet. (p. 5)
- Allowable Skin Friction 1,500 psf for bonded length. (p. 5)
- Allowable End-Bearing Capacity 15,000 psf (p. 5)
- *Minimum Dead-Load* 5,000 psf (p. 5)

<u>Micro Piles</u>

- Minimum Length 30 feet. (p. 6)
- Unbonded Length 20 feet. (p. 6)
- Allowable Skin Friction 1,500 psf for bonded length. (p. 6)

Other Foundation Criteria

- Seismic Design Site Class C. (p. 6)
- Lateral Earth Pressure 55 pcf active. 75 pcf at-rest. (p. 7)

Summary of Pavement Recommendations (p. 8)

Automobile Parking Areas

ESAL's = 50,000; Structural Number = 2.75

	PAVEMENT SECTION (Inches)				
ALTERNATIVE	Hot-Mix Asphalt Pavement	CDOT Class 6 Base Course	CDOT Class 3 Subbase Course	Concrete Pavement	TOTAL
A	3.0	9.0			12.0
В	4.0	7.0			11.0
С	3.0	6.0	6.0		15.0
Rigid Pavement		6.0		6.0	12.0

Fire Truck Traffic Areas

ESAL's = 350,000; Structural Number = 3.70

	PAVEMENT SECTION (Inches)				
ALTERNATIVE	Hot-Mix Asphalt Pavement	CDOT Class 6 Base Course	CDOT Class 3 Subbase Course	Rigid Pavement	TOTAL
Α	3.0	17.0			20.0
В	4.0	14.0			18.0
С	3.0	6.0	16.0		25.0
Full Depth RP		6.0		8.0	14.0

27 Road Improvements

ESAL's = 875,000, Structural Number = 4.24

	PAVEMENT SECTION (Inches)				
ALTERNATIVE	Hot-Mix Asphalt Pavement	CDOT Class 6 Base Course	CDOT Class 3 Subbase Course	Concrete Pavement	TOTAL
Α	4.0	18.0			22.0
В	5.0	15.0			20.0
C	4.0	6.0	17.0		27.0
Rigid Pavement		6.0		8.0	14.0

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Scope	1
1.2	Site Location and Description	1
1.3	Proposed Construction	1
2.0	GEOLOGIC SETTING	2
2.1	Soils	2
2.2	Geology	2
2.3	Groundwater	2
3.0	FIELD INVESTIGATION	2
3.1	Subsurface Investigation	2
3.2	Field Reconnaissance	3
4.0	LABORATORY TESTING	3
5.0	GEOLOGIC INTERPRETATION	3
5.1	Geologic Hazards	3
5.2	Geologic Constraints	3
5.3	Water Resources	3
5.4	Mineral Resources	4
6.0	CONCLUSIONS	4
7.0	RECOMMENDATIONS	4
7.1	Foundations	4
7.2	Seismic Design Criteria	6
7.3	Lateral Resistance for Seismic and Wind Loads	6
7.4	Corrosion of Concrete and Steel	7
7.5	Non-Structural Floor Slabs and Exterior Flatwork	7
7.6	Lateral Earth Pressures	7
7.7	Drainage	8
7.8	Excavations	8
7.9	Pavements	9
8.0	GENERAL10	0

FIGURES

Figure 1 – Site Location Map Figure 2 – Site Plan

APPENDICES

Appendix A – UDSA NRCS Soil Survey Data Appendix B – Typed Boring Logs Appendix C – Laboratory Testing Results



1.0 INTRODUCTION

As part of extensive development in Western Colorado, the City of Grand Junction proposes to construct a new fire station. As part of the design development process, Huddleston-Berry Engineering and Testing, LLC (HBET) was retained by the City of Grand Junction to conduct a geologic hazards and geotechnical investigation at the site.

1.1 Scope

As discussed above, a geologic hazards and geotechnical investigation was conducted for Fire Station #6 in Grand Junction, Colorado. The scope of the investigation included the following components:

- Conducting a subsurface investigation to evaluate the subsurface conditions at the site.
- Collecting soil and bedrock samples and conducting laboratory testing to determine the engineering properties of the soils and bedrock at the site.
- Providing recommendations for foundation type and subgrade preparation.
- Providing recommendations for bearing capacity.
- Providing recommendations for lateral earth pressure.
- Providing recommendations for pavements.
- Providing recommendations for drainage, grading, and general earthwork.
- Evaluating potential geologic hazards at the site.

The investigation and report were completed by a Colorado registered professional engineer in accordance with generally accepted geotechnical and geological engineering practices. This report has been prepared for the exclusive use of the City of Grand Junction.

1.2 Site Location and Description

The site is located at 731 27 Road in Grand Junction, Colorado. The project location is shown on Figure 1 -Site Location Map. Fire Station #6 will occupy the southeastern corner of the property.

At the time of the investigation, most of the building site was open. However, a large pile of fill was present in the northeastern portion of the site. The building site generally sloped gently down to the southeast. Vegetation consisted primarily of weeds and grasses. The building site was bordered to the north by undeveloped ground, to the west and south by existing residences, and to the east by 27 Road.

1.3 Proposed Construction

The proposed construction is anticipated to include a new fire station building, concrete aprons, asphalt parking areas, and improvements to 27 Road. The proposed structure will likely be masonry construction.



2.0 GEOLOGIC SETTING

2.1 Soils

Soils data was obtained from the USDA Natural Resource Conservation Service Web Soil Survey. The data indicates that the soils at the site consist of Persayo silty clay loam, 5 to 12 percent slopes and Persayo silty clay loam, 2 to 5 percent slopes. Soil survey data is included in Appendix A.

Structure construction in the site soils is described as being somewhat limited to very limited due to depth to soft bedrock and/or slope. Pavement construction in the native soils is indicated to be very limited due to depth to soft bedrock, low strength, frost action, and/or slope. Excavation in the site soils is described as being very limited due to depth to soft bedrock, dust, slope, and/or unstable excavation walls. The Persayo soils are indicated to have a moderate potential for frost action, high risk of corrosion of uncoated steel, and high risk of corrosion of concrete.

2.2 Geology

According to the *Geologic Map of the Grand Junction Quadrangle, Mesa County, Colorado* (2002), the site is underlain by undivided alluvium and colluvium. The alluvium and colluvium are underlain by Mancos Shale bedrock. The Mancos Shale unit is thick in the Grand Valley and has a low to moderate potential for swelling.

2.3 Groundwater

Groundwater was not encountered in the subsurface at the time of the investigation.

3.0 FIELD INVESTIGATION

3.1 Subsurface Investigation

The subsurface investigation was conducted on May 30^{th} and June 12^{th} , 2019 and consisted of five borings drilled to depths of between approximately 7.6 and 12.8 feet below the existing ground surface. The locations of the borings are shown on Figure 2 – Site Plan. The borings were located in the field relative to existing site features. Typed boring logs are included in Appendix B. Samples of the subsurface soils were collected during Standard Penetration Testing (SPT) and using bulk sampling methods at the locations shown on the logs.



As indicated on the logs, the subsurface conditions at the site were slightly variable. Borings B-1 through B-4, conducted on the building site, encountered 0.5 to 1.0 foot of topsoil or fill materials at the ground surface. Boring B-5, conducted along 27 Road, encountered 5.0-inches of asphalt pavement above granular base course to a depth of 2.0 feet. Below the topsoil, fill, and/or pavement materials, gray, soft to medium hard, highly to moderately weathered shale bedrock extended to the bottoms of all of the borings. As discussed previously, groundwater was not encountered in the subsurface at the time of the investigation.

3.2 Field Reconnaissance

The field reconnaissance included walking the site during the subsurface investigation. As discussed previously, the site was gently sloping. No evidence of recent landslides, debris flows, rockfalls, or other slope instability was observed.

4.0 LABORATORY TESTING

Selected bedrock samples collected from the borings were tested in the Huddleston-Berry Engineering and Testing LLC geotechnical laboratory for Atterberg limits determination. The laboratory testing results are included in Appendix C.

The laboratory testing results indicate that the shale bedrock is moderately plastic. Due to the degree of weathering/fracturing of the material, undisturbed samples of the shale were unable to be collected for swell/consolidation testing. However, based upon the Atterberg limits of the material and upon our experience with the Mancos shale in the Grand Valley, the shale is anticipated to be slightly to moderately expansive.

5.0 GEOLOGIC INTERPRETATION

5.1 Geologic Hazards

The primary geologic hazard identified on the site is the presence of moisture sensitive bedrock.

5.2 Geologic Constraints

In general, the primary geologic constraint to construction at the site is the presence of moisture sensitive bedrock.

5.3 Water Resources

No water supply wells were observed on the property. In addition, groundwater was not encountered to the depth explored. In general, with proper design and construction of stormwater management controls, the proposed construction is not anticipated to adversely impact surface water or groundwater.



5.4 Mineral Resources

Potential mineral resources in the Grand Valley generally include gravel, uranium ore, and commercial rock products such as flagstone. As discussed previously, the site is mapped as being underlain by alluvium and colluvium. However, no gravels were encountered during the subsurface investigation. In general, HBET does not believe that economically recoverable resources exist at this site.

6.0 CONCLUSIONS

Based upon the available data sources, field investigation, and nature of the proposed construction, HBET does not believe that there are any geologic conditions which should preclude subdivision of the site. However, the proposed construction should consider the presence of moisture sensitive bedrock.

7.0 **RECOMMENDATIONS**

7.1 Foundations

Based upon the subsurface conditions and nature of the proposed construction, both shallow and deep foundations may be considered. Deep foundations will provide the most protection against heave related movements; however, deep foundations can be considerably more expensive.

The recommended shallow foundation alternatives include spread footings, voided spread footings, and isolated pads and grade beams. The recommended deep foundation alternatives include drilled piers and micro piles. The foundation alternatives are discussed below.

Spread Footings, Voided Spread Footings, or Isolated Pads and Grade Beams

As discussed previously, expansive shale bedrock is present in the subsurface. Therefore, to limit the potential for excessive differential movements, it is recommended that shallow foundations be constructed above a minimum of 48-inches of structural fill resting on competent shale bedrock.

The native shale bedrock materials are not suitable for reuse as structural fill. Imported structural fill should consist of a granular, non-expansive, <u>non-free draining</u> material such as ¹/₄-inch minus crusher fines or CDOT Class 6 base course. However, HBET should be provided the opportunity to evaluate proposed structural fill materials to ensure that they are not free-draining.

Prior to placement of structural fill, it is recommended that the bottoms of the foundation excavations be prooffolled to the Engineer's satisfaction. Soft or weak materials should be replaced with structural fill. Due to the expansion potential of the shale, no moisture should be added to the subgrade.



Structural fill should extend laterally beyond the edges of the foundation a distance equal to the thickness of structural fill. Structural fill should be moisture conditioned, placed in maximum 8-inch loose lifts, and compacted to a minimum of 95% of the standard Proctor maximum dry density for fine grained soils or modified Proctor maximum dry density for coarse grained soils, within $\pm 2\%$ of the optimum moisture content as determined in accordance with ASTM D698 or D1557, respectively.

For foundation building pads prepared as recommended with structural fill consisting of imported granular materials, a maximum allowable bearing capacity of 3,000 psf may be used. However, a minimum dead-load of 1,000 psf is recommended. Where the minimum dead-load is not achievable, such as for interior foundations, the dead-load should be maximized to the extent practical. It is recommended that the bottoms of exterior foundations be at least twenty-four inches below the final grade for frost protection.

Drilled Piers

In general, a minimum total drilled pier length of 25 feet is recommended. In addition, drilled piers should penetrate shale bedrock a minimum of 15 feet.

Skin friction should be ignored along the upper 5 feet of drilled piers embedded in the shale bedrock. An allowable skin friction of 1,500 psf may be used for the portion of the pier in weathered shale bedrock below 5 feet of embedment. In addition, an allowable end-bearing capacity of 15,000 psf may be used for the shale bedrock. However, the piers should be designed for a minimum dead-load pressure of 5,000 psf based upon the pier bottom end area. The skin friction given above can be assumed to act in the direction to resist uplift for the portion of the pier in the bedrock.

Drilled piers should be reinforced their full length using a reinforcement ratio of at least 1.0 percent; however, the piers should be adequately reinforced to resist possible tensile forces due to swelling of the shallow subgrade materials. Concrete used in the piers should be a fluid mix with a minimum slump of 4-inches and a minimum 28-day compressive strength of 3,000 psi.

Swelling soils and bedrock exaggerate group effects on drilled piers. Therefore, the minimum center-to-center spacing of drilled piers should be eight diameters, or twelve feet, whichever is less. Drilled piers grouped less than eight diameters, or twelve feet, center-to-center should be individually evaluated to determine the appropriate reduction in end bearing capacity. A minimum 6-inch void should be provided beneath the grade beams to concentrate pier loadings and prevent expansive materials from exerting uplift forces on the grade beams.



In general, proper construction of drilled piers is critical. Therefore, it is strongly recommended that the piers be installed by a highly experienced contractor. If pier holes are clean and dry, concrete should be placed within 24-hours of drilling. However, if water is present in the pier holes, concrete should be placed the day of drilling. Tremie grouting of piers is recommended. In addition, care should be taken to prevent oversizing of the tops of the piers. Mushroomed pier heads can reduce the effective dead-load pressure on the piers. Piers should also be within 2% of vertical and constant diameter

Micro Piles

For a micro pile foundation, it is recommended that micro piles have a minimum length of 30 feet. It is However, in order to reduce or eliminate uplift friction in the shallow subsurface, the upper 20 feet of the piles should be sleeved or cased. If subsurface moisture conditions differ than those encountered during the subsurface investigation, the sleeved or cased zone may be need to be increased as directed by the engineer.

Skin friction should be ignored for the sleeved or cased zone. An allowable skin friction value of 1,500 psf may be used for the bedrock below this zone. To ensure friction capacity, pile load testing is strongly recommended. Grout used in the bond zone of the micro piles should have a minimum 28 day compressive strength of 3,000 psi.

In general, micro piles should be installed with a center-to-center spacing of greater than 3 feet. However, to the extent practical, smaller numbers of longer micro piles should be used in lieu of larger numbers of shorter piles. The longer the piles and larger the loads on the piles, the lower the risk of movement. A minimum 6-inch void should be provided below the grade beams to concentrate loadings on the piles. The void forms should also extend above the micro piles such that only the reinforcement bar contacts the grade beam.

7.2 Seismic Design Criteria

In general, based upon the results of the subsurface investigation, the site generally classifies as Site Class C for soft rock.

7.3 Lateral Resistance for Seismic and Wind Loads

Based upon the results of the subsurface investigation, the following parameters are recommended for use in lateral pile capacity analyses:

Soil Type	Stiff Clay
Density (pci)	0.0667
Cohesion (psi)	8
Friction Angle (\$)	0
ε ₅₀ (in/in)	0.007
K (pci)	500



In addition to lateral resistance of the piles, lateral resistance can be developed from sliding friction between the floor slab and the ground. In general, for the native shale bedrock, a sliding friction angle of 18° is recommended. This corresponds to a friction factor of 0.32.

7.4 Corrosion of Concrete and Steel

As indicated previously, the USDA Soil Survey Data indicates that the site soils are highly corrosive to concrete. Therefore, at a minimum, Type I-II sulfate resistant cement is recommended for construction at this site.

The USDA Soil Survey Data also indicates that the site soils have a high potential for corrosion of uncoated steel. Therefore, buried steel utilities or other buried steel structures should consider corrosion in their design.

7.5 Non-Structural Floor Slabs and Exterior Flatwork

As discussed previously, expansive bedrock are present in the subsurface at the site. <u>Due to the fact that slabs-on-grade do not generate sufficient loads to resist</u> movement, differential movement of slabs-on-grade is likely.

In general, the only way to eliminate, or nearly so, the risk of movement of floor slabs would be to support them on the foundations. However, if the City of Grand Junction is willing to accept the risk of using slab-on-grade floor systems, the risk of movement can be reduced by constructing floor slabs above a minimum of 48-inches of structural fill. Subgrade preparation, structural fill materials, and structural fill placement should be in accordance with the *Shallow Foundations* section of this report. It is recommended that exterior flatwork be constructed above a minimum of 18-inches of structural fill.

Slabs-on-grade should not be tied into or otherwise connected to the foundations in any manner. In addition, where a garage floor slab is used, interior, non-bearing partition walls should include a framing void or slip joint which permits a minimum of 2inches of vertical movement. Also, framing, drywall, trim, brick facing, etc. should not rest on slabs-on-grade.

7.6 Lateral Earth Pressures

Stemwalls or retaining walls should be designed to resist lateral earth pressures. For backfill consisting of imported granular, non-free draining, non-expansive material, we recommend that the walls be designed for an active equivalent fluid unit weight of 55 pcf in areas where no surcharge loads are present. An at-rest equivalent fluid unit weight of 75 pcf is recommended for braced walls. Lateral earth pressures should be increased as necessary to reflect any surcharge loading behind the walls. Native shale materials should not be used as backfill.



7.7 Drainage

Drainage and grading are critical to the performance of the foundations and any slabs-on-grade. In order to improve the long-term performance of the foundations and slabs-on-grade, grading around the structure should be designed to carry precipitation and runoff away from the structure. It is recommended that the finished ground surface drop at least twelve inches within the first ten feet away from the structure. However, where sidewalks, pavements, etc. are adjacent to the structure, the grade can be reduced to ADA compliant grade (~2.5-inches in ten feet).

It is also recommended that landscaping within ten feet of the structure include primarily desert plants with low water requirements. In addition, it is recommended that automatic irrigation, including drip lines, within ten feet of foundations be minimized.

It is recommended that conventional downspouts be utilized with extensions that terminate a minimum of 10 feet from the structure or beyond the backfill zone, whichever is greater. However, if subsurface downspout drains are utilized, they should be carefully constructed of solid wall PVC pipe and daylight at least 15 feet from the structure. An impermeable membrane is recommended below subsurface downspout drains to reduce the potential for leaks in the drains to impact the structure. Dry wells should not be used.

In order to reduce the potential for surface moisture to impact the structure, a perimeter foundation drain is also recommended. In general, the perimeter foundation drain should consist of prefabricated drain materials or a perforated pipe and gravel system with the flowline of the drain at the bottom of the foundation (at the highest point). The perimeter drain should slope at a minimum of 1.0% to daylight or to a sump with pump. The drain should also include an impermeable membrane at the base to limit the potential for moisture to infiltrate vertically down below the foundations.

7.8 Excavations

Excavations in the soils and bedrock at the site may stand for short periods of time but should not be considered to be stable. Therefore, trenching and excavations should be sloped back, shored, or shielded for worker protection in accordance with applicable OSHA standards. The native soils and bedrock at the site generally classify as Type C soil with regard to OSHA's *Construction Standards for Excavations*. For Type C soils, the maximum allowable slope in temporary cuts is 1.5H:1V. However, the soil classification is based solely on the boring data and a Type B or Type A rating may be possible. HBET should be contacted to further evaluate the soils and bedrock during construction.


7.9 Pavements

The proposed construction is anticipated to include paved aprons, paved parking areas, and improvements to 27 Road. From the subsurface investigation, the pavement subgrade materials at the site consist primarily of shale bedrock. As discussed previously, the shale is expansive. Therefore, the minimum recommended Resilient Modulus of 3,000 psi was utilized for the pavement design.

Based upon the subgrade conditions and anticipated traffic loading, asphalt and concrete pavement section alternatives were developed in accordance with AASHTO design methodologies. The following minimum pavement section alternatives are recommended:

Automobile	Parking	Areas
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	-		
FSAL's = 50000	Structural	Number $= 2.75$	í
	Duaduation	11011001 2.73	

	PAVEMENT SECTION (Inches)									
ALTERNATIVE	Hot-Mix Asphalt Pavement	CDOT Class 6 Base Course	CDOT Class 3 Subbase Course	Concrete Pavement	TOTAL					
A	3.0	9.0			12.0					
В	4.0	7.0			11.0					
C	3.0	6.0	6.0		15.0					
Rigid Pavement		6.0		6.0	12.0					

Fire Truck Traffic Areas

ESAL's = 350,000; Structural Number = 3.70

	PAVEMENT SECTION (Inches)									
ALTERNATIVE	Hot-Mix	CDOT Class (CDOT Class 3	Dista						
	Pavement	Base Course	Course	Pavement	TOTAL					
Α	3.0	17.0			20.0					
В	4.0	14.0			18.0					
C	3.0	6.0	16.0		25.0					
Full Depth RP		6.0		8.0	14.0					

27 Road Improvements

ESAL's = 875,000, Structural Number = 4.24

	PAVEMENT SECTION (Inches)								
ALTERNATIVE	Hot-Mix Asphalt Pavement	CDOT Class 6 Base Course	CDOT Class 3 Subbase Course	Concrete Pavement	TOTAL				
Α	4.0	18.0			22.0				
В	5.0	15.0			20.0				
C	4.0	6.0	17.0		27.0				
Rigid Pavement		6.0		8.0	14.0				

Prior to pavement placement, the roadway prism should be stripped of all topsoil, fill, or other unsuitable materials. It is recommended that the subgrade be prooffolled to the Engineer's satisfaction. Due to the expansion potential of the shale, minimal moisture should be added to the subgrade.



Aggregate base course and subbase course should be placed in maximum 9-inch loose lifts, moisture conditioned, and compacted to a minimum of 95% and 93% of the maximum dry density, respectively, at -2% to +3% of optimum moisture content as determined by AASHTO T-180. In addition to density testing, base course should be proofrolled to verify subgrade stability.

It is recommended that Hot-Mix Asphaltic (HMA) pavement conform to CDOT grading SX or S specifications and consist of an approved 75 gyration Superpave method mix design. HMA pavement should be compacted to between 92% and 96% of the maximum theoretical density. An end point stress of 50 psi should be used. It is recommended that rigid pavements consist of CDOT Class P concrete or alternative approved by the Engineer. In addition, pavements should conform to local specifications.

The long-term performance of the pavements is dependent on positive drainage away from the pavements. Ditches, culverts, and inlet structures in the vicinity of paved areas must be maintained to prevent ponding of water on the pavement.

8.0 GENERAL

The recommendations included above are based upon the results of the subsurface investigation and on our local experience. These conclusions and recommendations are valid only for the proposed construction.

As discussed previously, the subsurface conditions encountered in the borings were slightly variable. However, the precise nature and extent of subsurface variability may not become evident until construction. The recommendations contained herein are designed to reduce the risk and magnitude of movements and it is extremely critical that <u>ALL</u> of the recommendations herein be applied to the design and construction. However, HBET cannot predict long-term changes in subsurface moisture conditions and/or the precise magnitude or extent of any volume change in the native soils and/or bedrock. <u>Where significant increases in subsurface moisture occur due to poor grading, improper stormwater management, utility line failure, excess irrigation, or other cause, during or after construction, significant movements are possible.</u>

In addition, the success of the structure foundations, slabs, etc. is critically dependent upon proper construction. Therefore, HBET should be retained to provide materials testing, special inspections, and engineering oversight during <u>ALL</u> phases of the construction to ensure conformance with the recommendations herein.

Huddleston-Berry Engineering and Testing, LLC is pleased to be of service to your project. Please contact us if you have any questions or comments regarding the contents of this report.



Respectfully Submitted: Huddleston-Berry Engineering and Testing, LLC



Michael A. Berry, P.E. Vice President of Engineering

FIGURES



Mesa County Map The Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries by planning and by modeling. GCs is not intended or does not replace legal description information in the drain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition using minimuc cutained in tribulgoen minimient exclusion as the cubic gets and exemption of the cubic subscription in the engresentations of oction in the ISG scanto be subscription of the initiations, set forth above. Hese Source marks including the subscription of the initiation uses, and subject to the limitations, set forth above. Hese Source marks including the subscription of the subscription contained herein. Users assume al risk and responsibility for any and al idamages, including consequential damages, which may flow from the user's use of this informat

1 mi 0.25 0.5 0.3 0.6 1.2 km 0





APPENDIX A Soil Survey Data



Conservation Service

MAPI	EGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI)	Spoil AreaStony Spot	The soil surveys that comprise your AOI were mapped at 1:24,000.
Area of Interest (AOI)SoilsSoil Map Unit PolygonsImage: Soil Map Unit LinesImage: Soil Map Unit LinesImage: Soil Map Unit PointsSpecial: TeaturesImage: BlowoutImage: Soil Map Unit PointsImage: Soil Map	 Spoil Area Stony Spot Very Stony Spot Very Stony Spot Very Stony Spot Store Spot Special Line Features Streams and Canais Transportation Raiis Interstate Highways VS Routes US Routes Local Roads Eackgrout Aerial Photography 	 The soil surveys that comprise your AOI were mapped at 1:24,000. Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Soil Survey Area: Mesa County Area, Colorado Survey Area Data: Version 9, Sep 10, 2018 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Sep 13, 2010—Aug 8, 2017 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor
 Sinkhole Slide or Slip Sodic Spot 		imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI	
Сс	Persayo silty clay loam, 5 to 12 percent slopes	0.0	2.2%	
Се	Persayo silty clay loam, 2 to 5 percent slopes	1.0	97.8%	
Totals for Area of Interest		1.0	100.0%	

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities. Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Mesa County Area, Colorado

Cc—Persayo silty clay loam, 5 to 12 percent slopes

Map Unit Setting

National map unit symbol: k0c0 Elevation: 4,490 to 5,220 feet Mean annual precipitation: 6 to 9 inches Mean annual air temperature: 50 to 55 degrees F Frost-free period: 140 to 180 days Farmland classification: Not prime farmland

Map Unit Composition

Persayo and similar soils: 90 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Persayo

Setting

Landform: Pediments Landform position (two-dimensional): Backslope Down-slope shape: Concave Across-slope shape: Linear Parent material: Cretaceous source residuum weathered from calcareous shale

Typical profile

Ap - 0 to 4 inches: silty clay loam C - 4 to 15 inches: silty clay loam Cr - 15 to 60 inches: bedrock

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.00 to 0.28 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Gypsum, maximum in profile: 10 percent
Salinity, maximum in profile: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 5.0
Available water storage in profile: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): 6s Land capability classification (nonirrigated): 7c Hydrologic Soil Group: D Ecological site: Desert Loamy Clay (Shadscale) (R034BY109UT) Hydric soil rating: No

Ce—Persayo silty clay loam, 2 to 5 percent slopes

Map Unit Setting

National map unit symbol: k0c2 Elevation: 4,490 to 5,220 feet Mean annual precipitation: 6 to 9 inches Mean annual air temperature: 50 to 55 degrees F Frost-free period: 140 to 180 days Farmland classification: Not prime farmland

Map Unit Composition

Persayo and similar soils: 90 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Persayo

Setting

Landform: Pediments Landform position (two-dimensional): Backslope Down-slope shape: Concave Across-slope shape: Linear Parent material: Cretaceous source residuum weathered from calcareous shale

Typical profile

Ap - 0 to 4 inches: silty clay loam C - 4 to 15 inches: silty clay loam Cr - 15 to 60 inches: bedrock

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.00 to 0.28 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Gypsum, maximum in profile: 10 percent
Salinity, maximum in profile: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 5.0
Available water storage in profile: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): 6s Land capability classification (nonirrigated): 7c Hydrologic Soil Group: D Ecological site: Desert Loamy Clay (Shadscale) (R034BY109UT) Hydric soil rating: No

Data Source Information

Soil Survey Area: Mesa County Area, Colorado Survey Area Data: Version 9, Sep 10, 2018

Dwellings and Small Commercial Buildings

Soil properties influence the development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. This table shows the degree and kind of soil limitations that affect dwellings and small commercial buildings.

The ratings in the table are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations can be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet. The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Small commercial buildings are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility (which is inferred from the Unified classification). The properties that affect the ease and amount of excavation include flooding, depth to a water table, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Information in this table is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this table. Local ordinances and regulations should be considered in planning, in site selection, and in design.

Report—Dwellings and Small Commercial Buildings

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation. The table shows only the top five limitations for any given soil. The soil may have additional limitations]

Dwellings and Small Commercial Buildings–Mesa County Area, Colorado											
Map symbol and soil name	Pct. of map	f Dwellings without basements		Dwellings with basements		Small commercial buildings					
	unit	Rating class and Val limiting features		Rating class and limiting features	Value	Rating class and limiting features	Value				
Cc—Persayo silty clay loam, 5 to 12 percent slopes											
Persayo	90	Somewhat limited		Very limited		Very limited					
		Depth to soft bedrock	0.50	Depth to soft bedrock	1.00	Depth to soft bedrock	1.00				
		Slope	0.04	Slope	0.04	Slope	1.00				

Dwellings and Small Commercial Buildings–Mesa County Area, Colorado											
Map symbol and soil name	Pct. of map	Dwellings witho basements	ut	Dwellings with basements		Small commercial buildings					
	unit	Rating class and Va limiting features		Rating class and limiting features	Value	Rating class and limiting features	Value				
Ce—Persayo silty clay loam, 2 to 5 percent slopes											
Persayo	90	Somewhat limited		Very limited		Somewhat limited					
		Depth to soft bedrock	0.50	Depth to soft bedrock	1.00	Depth to soft bedrock	1.00				
						Slope	0.01				

Data Source Information

Soil Survey Area: Mesa County Area, Colorado Survey Area Data: Version 9, Sep 10, 2018

Roads and Streets, Shallow Excavations, and Lawns and Landscaping

Soil properties influence the development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. This table shows the degree and kind of soil limitations that affect local roads and streets, shallow excavations, and lawns and landscaping.

The ratings in the table are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder. The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a water table, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a water table, and ponding.

Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to the seasonal high water table, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to the water table, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

Lawns and landscaping require soils on which turf and ornamental trees and shrubs can be established and maintained. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer.

Information in this table is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this table. Local ordinances and regulations should be considered in planning, in site selection, and in design.

Report—Roads and Streets, Shallow Excavations, and Lawns and Landscaping

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation. The table shows only the top five limitations for any given soil. The soil may have additional limitations]

Roads and Streets, Shallow Excavations, and Lawns and Landscaping-Mesa County Area, Colorado											
Map symbol and soil	Pct. of	Lawns and landsc	aping	Local roads and st	reets	Shallow excavati	Shallow excavations				
name	unit	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value				
Cc—Persayo silty clay loam, 5 to 12 percent slopes											
Persayo	90	Very limited		Very limited		Very limited					
		Depth to bedrock	1.00	Depth to soft bedrock	1.00	Depth to soft bedrock	1.00				
		Droughty	0.87	Low strength	1.00	Dusty	0.50				
		Dusty	0.50	Frost action	0.50	Slope	0.04				
		Low exchange capacity	0.50	Slope	0.04	Unstable excavation walls	0.01				
		Slope	0.04								

Roads and Streets, Shallow Excavations, and Lawns and Landscaping-Mesa County Area, Colorado											
Map symbol and soil name	Pct. of	Lawns and landsca	aping	Local roads and st	reets	Shallow excavation	ons				
	map unit	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value				
Ce—Persayo silty clay loam, 2 to 5 percent slopes											
Persayo	90	Very limited		Very limited		Very limited					
		Depth to bedrock	1.00	Depth to soft bedrock	1.00	Depth to soft bedrock	1.00				
		Droughty	0.87	Low strength	1.00	Dusty	0.50				
		Dusty	0.50	Frost action	0.50	Unstable excavation walls	0.01				
		Low exchange capacity	0.50								

Data Source Information

Soil Survey Area: Mesa County Area, Colorado Survey Area Data: Version 9, Sep 10, 2018

Soil Features

This table gives estimates of various soil features. The estimates are used in land use planning that involves engineering considerations.

A *restrictive layer* is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers. The table indicates the hardness and thickness of the restrictive layer, both of which significantly affect the ease of excavation. *Depth to top* is the vertical distance from the soil surface to the upper boundary of the restrictive layer.

Subsidence is the settlement of organic soils or of saturated mineral soils of very low density. Subsidence generally results from either desiccation and shrinkage, or oxidation of organic material, or both, following drainage. Subsidence takes place gradually, usually over a period of several years. The table shows the expected initial subsidence, which usually is a result of drainage, and total subsidence, which results from a combination of factors.

Potential for frost action is the likelihood of upward or lateral expansion of the soil caused by the formation of segregated ice lenses (frost heave) and the subsequent collapse of the soil and loss of strength on thawing. Frost action occurs when moisture moves into the freezing zone of the soil. Temperature, texture, density, saturated hydraulic conductivity (Ksat), content of organic matter, and depth to the water table are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a high water table in winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low soil strength during thawing cause damage to pavements and other rigid structures.

Risk of corrosion pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel or concrete. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel or concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel or concrete in installations that are entirely within one kind of soil or within one soil layer.

For uncoated steel, the risk of corrosion, expressed as *low*, *moderate*, or *high*, is based on soil drainage class, total acidity, electrical resistivity near field capacity, and electrical conductivity of the saturation extract.

For concrete, the risk of corrosion also is expressed as *low*, *moderate*, or *high*. It is based on soil texture, acidity, and amount of sulfates in the saturation extract.

Report—Soil Features

	Soil Features-Mesa County Area, Colorado											
Map symbol and		Re	strictive Layer		Subsidence		Potential for frost	Risk of e	corrosion			
son name	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete			
		Low-RV- High	Range		Low- High	Low- High						
		In	In		In	In						
Cc—Persayo silty clay loam, 5 to 12 percent slopes												
Persayo	Paralithic bedrock	10- 15-20	-	Weakly cemented	0	0	Moderate	High	High			
Ce—Persayo silty clay loam, 2 to 5 percent slopes												
Persayo	Paralithic bedrock	10- 15-20	-	Weakly cemented	0	0	Moderate	High	High			

Data Source Information

Soil Survey Area: Mesa County Area, Colorado Survey Area Data: Version 9, Sep 10, 2018



APPENDIX B Typed Boring Logs

Engle	Huddleston-Berry Engineering & Testing, LLC 640 White Avenue, Unit B Grand Junction, CO 81501 970-255-8005 970-255-6818						BC	RIN	IG I	NUN	IBE PAGE	R B = 1 C	8-1 0F 1	
CLIEN	CLIENT City of Grand Junction PROJECT					station #6								
PROJ	ECT N	UMBER 00208-0099 PROJ	IECT I	CT LOCATION Grand Junction, CO										
DATE	STAR	TED _5/30/19 COMPLETED _5/30/19 GROU	JND E	LEVA				HOLE	SIZE	4-inc	hes			
DRILL	LING C	ONTRACTOR S. McKracken GROL	JND V	VATER	LEVE	LS:								
DRILL	LING M	ETHOD Simco 2000 Track Rig	AT T	IME OF		LING <u>dry</u>								
LOGO	GED BY	(<u>SD</u> CHECKED BY MAB	ATE			.ING <u>dry</u>								
NOTE	:ə			ER DRI		·					EDDE	PC		
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION		SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)				FINES CONTENT (%)	
0.0		Sandy GRAVEL (FILL)												
		SHALE, grey, soft to medium hard, highly weathered to moderately												
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12.5			X	SS 3	100	25-25/4"	-							
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PF	SON	ECT N	UMBER 00208-0099 PR	PROJECT LOCATION Grand Junction, CO										
DA	٩ΤΕ	STAR	TED <u>5/30/19</u> COMPLETED <u>5/30/19</u> GR	GROUND ELEVATION HOLE SIZE _4-inches										,
DF	RILL	ING C	ONTRACTOR S. McKracken GR	OUND	WATER	LEVE	LS:							
	RILL	ING M		AT TIME OF DRILLING dry										
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		s		Аг	ER DRI		. 	1			ΔΤ	FERRE	BC	
DEPTH	⊂ (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION		SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	LIQUID			FINES CONTENT (%)
		<u>718. 4</u>	Lean CLAY with Organics (TOPSOIL)											
	1 1 1 1		SHALE, grey, soft to medium hard, highly weathered					-						
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	CLIEN	Γ <u>Cit</u>	y of Grand Junction F	PROJECT NAME Fire Station #6										
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	CLIENT City of Grand Junction PROJEC					CT NAME Fire Station #6										
	PROJ	ECT N	UMBER 00208-0099 PROJE	ECT LOCATION Grand Junction, CO												
	DATE	STAR	TED <u>5/30/19</u> COMPLETED <u>5/30/19</u> GROUN	ID ELEV/	ATION _			HOLE	SIZE	4-inc	hes					
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	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)				INES CONTEN (%)			
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GEOTECH BH COLUMNS																

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CLIE	NT Cit	y of Grand Junction	PROJECT NAME _ Fire Station #6										
PROJ	IECT N	UMBER 00208-0099	PROJECT LOCATION Grand Junction, CO										
		TED <u>6/12/19</u> COMPLETED <u>6/12/19</u>	GROUND ELEVATION HOLE SIZE										
		ETHOD Simco 2000 Track Rig											
LOGO	GED B	SD CHECKED BY MAB	AT	END OF	DRILL	. ING drv							
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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION		SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	TA LIMIT LIMIT			INES CONTENT (%)
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APPENDIX C Laboratory Testing Results





Purchasing Division

ADDENDUM NO. 1

DATE: August 4, 2021

FROM: City of Grand Junction Purchasing Division

TO: All Interested Parties

RE: Horizon Park Master Plan RFP-4831-21-SH

Firms responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following:

Clarification 1: The irrigation source has been identified as primarily ditch water. The City holds water shares that are available to aid in irrigation. Please see Attachment 1, a map that define locations where water is available and the associated water rights. Here is a direct link to the Grand Valley Water Users Association website: <u>http://www.grandvalleywaterusers.com/</u>.

Clarification 2: Fire Station #6 is likely not available for a meeting space. The Lincoln Park Barn is a possibility. The awarded Consultant is encouraged to organize some public meetings at Horizon Park.

Clarification 3: Construction budget and total project cost including design and contract administration for Horizon Park is estimated at \$1,550,000. This number is quoted from the Parks, Recreation and Open Space (PROS) Master Plan from 2020. Construction is proposed for 2024.

Clarification 4: Landscape features should show elevation and diversity.

Clarification 5: Please include examples of native plants and water conservation in the Master Plan.

Clarification 6: Furnishings have no specific type or style, please offer suggestions in your proposal.

Clarification 7: Existing trees should be saved, if possible.

Clarification 8: Phase 3 construction drawings, design notes and specifications are not necessary for this project. Please propose the level of design you believe to be feasible given the budget and the timeline. The \$50,000 budget for this project includes reimbursables.

Question 1: Are the restrooms shown on the concept plan intended to be an off-the-shelf product, or does an architect need to be involved for the design of a building?

Answer: The most recent restrooms built are at Las Colonias and Dos Rios. All four restrooms were designed by Method Studios at approximately \$400,000 each. The City is open to suggestions from the Consultant's Design Team for the higher end restroom facility like these four restrooms to a more economical version such as pre-fab. The City's main priority is providing restroom facilities that best serve the entire community. Some parks have struggled with a strong, continual presence from the unhoused portion of the community. This needs to be taken into design consideration.

A copy of the sign-in sheet for the mandatory site visit is included as Attachment 2.

The original solicitation for the project referenced above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

Susan J. Hyatt

Susan Hyatt, Senior Buyer City of Grand Junction, Colorado

Attachment 1 GVWUA Online Map



Bureau of Land Management, Esri, HERE, Garmin, NGA, USGS, NPS | GVDD | Mesa County | GVWUA, GVDD, Various Surveyors | GVDD GVWUA | Mesa Co | GVWUA, GVDD | GVDD, GVWUA | Mesa County GIS. |

Attachment 2

Solicitation Name:	Horizon Park Master Plan				
Solicitation #:	RFP-4931-21-SH				
Date:	7/27/2021				
Time:	2:00 P.M.				

SIGN-IN SHEET



	Company Name	Representative Name	Phone	Email
1	STAN CLAUSEN ASSES.	BRITHI SCHNSON	970.925.2323	brithic scaplanning.com
2	kimley horn	emily wilson	#124. 720.636. 8272	emily. wilson@kimley-horn.
3	Distry Bandberger Supply	Dustin Bamberger	970-683-0625	dbamberger CMUMPOSupply.com
4	KAAPT PLANNING	CRIAIG ROBERTS	970-241-0745	Charge voldents @KAARTECOM
5	The Architeria Group	Kim Weining	303-948-0776	Kwerning Carchiterragroup. com
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HORIZON PARK City of Grand Junction





Request for Proposal: RFP-4931-21-SH

August 11, 2021

ARCHITERRA GROUP


cover letter

August 11, 2021

Ms. Susan Hyatt, Senior Buyer (970) 244-1513 SusanH@gjcity.org

Re: RFP 4931-21-SH Horizon Park Master Plan

Dear Ms. Hyatt:

It is with great enthusiasm that The Architerra Group submits the enclosed proposal for the Horizon Park Master Plan. Our design team has the expertise and experience to help the City develop a thorough, effective, and inclusive public process, develop a cohesive master plan, and create a feasible phasing plan for this important park.

Our firm is highly qualified to perform the work outlined in the RFP. Our firm specializes in work for public sector clients and over the last 22 years we have had the pleasure of developing master plans for parks throughout Denver and the Rocky Mountain West. We bring a thorough and intensive public outreach strategy to our project process which allows us to work directly with the residents of the communities within which we work. Finally, we develop realistic and implementable strategies for all master plans. We are familiar with phasing work and many of our most important projects have been phased master plans including: Village Greens North Park, Goldsmith Gulch Park, and Wheatlands Park.

We have developed an approach for your project based around four core values: 1) that our design team must have a strong project understanding; 2) that good design is rooted in a team-based environment, 3) that we must seek beautiful and creative design solutions, and 4) that strong project management is vital to the success of any project.

Our team is invested in every project that we undertake. We take a sincere interest in improving the communities in which we work, in developing unique site design, and in representing our clients in the best way possible. If selected, we will bring this same level of effort and dedication to this project.

Sincerely,

Dean J.R. Pearson, PLA, FASLA President, The Architerra Group

5881 South Deframe Street Littleton, Colorado 80127 (303) 948-0766 dpearson@architerragroup.com



Section B: qualifications/experience/credentials



The Architerra Group -Landscape Architecture

At the Architerra Group, we believe that achieving balance is fundamental to successful design: balance between the transformation and conservation of the landscape; balance between diverse goals of project stakeholders; and balance between a creative vision and project constraints.

Our company was founded on the belief that shaping the land and creating spaces is best accomplished through artistic imagination and skilled technical competence. We allow the site and context within which we are working to inform the design resulting in unique solutions for each project.

Our firm's mission is to enhance local communities through the design of public spaces. Our inclusive design process allows us to work for the users of our projects by working with them. For us, collaboration with stakeholders and public process are key to successful public projects.

Our boutique sized studio includes established, experienced principals and a range of fresh, innovative talent who assume various roles on all of our projects. We attribute our awardwinning projects and loyal client base to our dedicated and professional staff. It is the inherent belief in the work we do and the process we use that leads to our success as a landscape architecture firm.

Areas of Technical Expertise

Our areas of expertise include all aspects of design, from master planning through construction administration.

This includes inventory and analysis plans; master plans; conceptual plans; site design plans; design development plans and details; construction documents (plans, details, and specifications); bid packages; as-built plans; and construction administration reviews, notes, reports, and observations. Our construction plans typically include: existing conditions and demolition plans, layout and materials plans, grading and drainage plans, scoring plans, planting plans, and site details.

Additionally, we also prepare technical memos or feasibility studies, planning documents, development of guidelines and standards documents, and estimates of construction cost. We are experienced with guiding projects through internal and external technical review processes as well as assisting with local, state, and federal review and coordination. We will assist with permitting processes – environmental or historical.

We are skilled in developing project specific public outreach processes and leading the outreach and engagement in person, online, on-site, or other means necessary to obtain the desired information. We synthesize the information obtained and present it to City boards, commissions, and councils.

The types of projects we focus on are: parks – neighborhood, local, and regional; playgrounds; plazas; sports fields and courts; trails – local, community, and regional; trailheads; school campuses; environmental restoration; signage and wayfinding (environmental graphic design); streetscapes; dog parks; water features; and urban spaces.



Dedication to Creative Solutions

While we excel with the technical design and implementation of our work, we also thoroughly enjoy and take pride in our creative design solutions. We approach each project with a clean slate and seek a fresh perspective. For this reason, our parks are all very different from one another in aesthetic, use, and site organization. We allow our inspiration to flow from the site – it's history, it's existing uses, and the community within which it sits. This drives creative design of spaces that feel like 'home' and everyone who visits can derive a sense of place and ownership.

In addition to our creative approach to design, we use innovative software and digital solutions to create our deliverables and illustrate our design ideas. While we still maintain an 'old school' method of drawing on trace paper with a marker, we also use digital rendering and modeling software. Particularly where unique design elements are concerned – a different way of presenting the proposed design solutions only enhances the understanding of everyone at our meetings and presentations.

Qualifications of Team Members

We carefully select and cultivate our design team members to ensure we have a wide range of skills and abilities that best serve our clients. We value the individual strengths provided by each design team member. This allows us to effectively and efficiently meet project goals by using the unique experience and abilities of our staff. Our small firm size allows for project duties to be seamlessly completed by several team members without sacrificing the oversight and management of the final product. This project structure has led to successful design implementations throughout Colorado.





Dean Pearson, PLA, FASLA

Principal/Project Manager Dean has built his extensive and storied career around works in the public sector. His vast experience is seen throughout the nation but his true passions are visible in the public spaces within the very community where he and his family

live and work. Dean started The Architerra Group in 1999 to bring creative and highly technical landscape architectural services to public sector clients in the Denver Metro Area. Since then, Architerra's clientele has expanded throughout the Front Range and into the Rocky Mountain West.

Dean is known for his creative design solutions and highly technical knowledge that ensure seamless constructability and result in valued community spaces. He has wide-ranging experience with public agencies at all levels and is skilled at managing large, multidisciplinary projects.



Liz Wolfman, PLA, ASLA

Landscape Architect Liz became part of the Architerra team in early 2019. Her experience is rooted in the design of unique and personal outdoor spaces. Her desire to broaden the scale of her work brought her to our firm. In her time here she has developed creative and unique playground

designs for a variety of our clients and has participated in both regional and civic projects including the East-West Regional Trail and the Green at 38th.

Project Management System

A project can only become as successful as those working on it, specifically as the person managing it. Our project manager has a proven record of managing large teams of sub-consultants. We rely on the creativity and technical knowledge of each of our team members in their respective areas of expertise. At the same time, we recognize our role as project manager is to oversee and coordinate the work of the entire team and to provide our team members with necessary information to progress their work. We will hold regular meetings with our team throughout the design process to track the work of each individual team member, identify items that require coordination, and ensure critical path work items are being completed on time.

Architerra will act as the clearing house for all project information. We will review the work of our subconsultants throughout the design to ensure that each design component properly integrates with other aspects of the design. We strongly believe this is key to successful project management and use this strategy for all projects that we manage.

Quality Assurance/Quality Control

We believe it is important to have a "fresh set of eyes" and review all work internally before submitting it for review. We utilize a principal in our firm who has not been actively involved in the project to review the design and construction documents at major milestones. We have found this fresh perspective of review to be important in ensuring that our documents are clear and will be easily understood by others.



Schedule Control

We believe that strong project management is critical to keeping any project on schedule. We will start by working with you to develop a realistic schedule that meets the critical deadlines and milestones established by the City. Our schedule will consider review time required by your agency and others as necessary at various milestones. We carefully consider the critical path workflow within our design team. We recognize that some work items need to be advanced to a certain point before other work items can begin. Planning for this progression of work is vital to developing a realistic schedule.

We will work with our City project manager to determine the est way to regularly check in regarding the project process and decisions that need to be made. A regular check in through email, phone conference, or in-person meeting will allow our design team to manage the production of deliverables and ensure all team members are operating at maximum efficiency and effectiveness.



We are involved with most of our projects throughout the bid and construction administration phases. This involvement gives us experience with various contractors and suppliers, current construction practices, and current unit prices for construction. In turn, we supplement our site design and master planning with realistic construction costs throughout all phases of our design process. Undoubtedly, this is an important decision-making tool for our clients and ensures there are no surprises when it comes time to bid a project.

Team-Based Environment

We feel a successful design is achieved using a strong design team dynamic. This refers not only to the design team we have assembled for your project, but to agency and affected departments like Parks and Recreation, Public Works, Maintenance, and other departments as necessary. We view these people and groups as valuable members of our team with important insight, information, and history needed for the success of any project.

Our project manager will ensure that all members of the design team are on the same page about project goals and scope, project progression, budget, and schedule. When that happens, an energetic dynamic emerges that allows all members to express valid ideas and opinions that are within the scope of the design of a project. This will result in a unique, strong, buildable, and maintainable park that will be enjoyed by residents for years to come.

Subconsultants

The Architerra Group has assembled a consulting team representing the skills, abilities, experience, and production capacity necessary to perform successfully throughout the project. Our team structure takes advantage of a core group of professionals with creative design, strong managerial abilities, and technical skills in their respective professions. We have long-standing relationships with our team members and believe that those relationships create a stronger and more efficient project dynamic. Our team has worked together on numerous successful park projects for many public entities in Colorado.

RESPEC (civil engineering) Jessie Nolle, PE, CFM

RESPEC is an integrated consulting and services company. The RESPEC Denver office, formerly Moser & Associates Engineering, specializes in hydrology and hydraulics planning, stormwater planning, and engineering and design services. Their staff includes 12 water resource engineers and technicians that have completed a variety of stormwater and water-quality projects and provided Master Planning, Outfall System Planning, and Flood Hazard Area Delineation studies.

Jessie will provide civil engineering analysis and recommendations for water quality and drainage improvements, and she will provide phasing recommendations as appropriate. She will also provide cost estimating for proposed civil improvements.





Munding Design (irrigation design)

Kurt Munding, PLA, CLID

Munding Design was founded in 2011 by Kurt Munding and is a sole proprietor providing a full range of landscape architectural and irrigation design services. Kurt has over 29 years of experience as a Landscape Architect and irrigation designer. Throughout his career he has managed many projects from concept through construction. His extensive knowledge of construction and his ability to seamlessly facilitate projects from concept through construction has allowed him to successfully manage numerous irrigation design projects throughout his career. Kurt is among only a few landscape architects certified in irrigation design. His expertise represents his belief in the intelligent and efficient use of water in design. Kurt has completed hundreds of irrigation design projects in Colorado. Many of his irrigation Design work has been for parks, municipalities and school districts.

Kurt will research water availability and options as it pertains to the irrigation design. He will provide water budgets if necessary and cost estimation for irrigation improvements.

Ackerman Engineering (electrical engineering) Don J. Ackerman, P.E.

Ackerman Engineering, Inc., an electrical engineering firm, established in 2000 and operates out of an office located in Golden, Colorado. They foster a customer service focused approach with all of their clients, which is best demonstrated by their prompt and enthusiastic response to a client's diverse needs. Their relatively small size and Principal involvement on all projects also helps us provide a more personal and custom-tailored consulting service.

Don has over 30 years of experience in the electrical engineering field with significant experience in the parks and recreation industry. He will provide planning-level electrical research and design, phasing recommendations, and cost estimation.



Section C: methodology and approach to scope of work



Project Understanding

The City of Grand Junction is seeking a landscape architectural consultant to assist them with the development of a master plan for Horizon Park. The park site sits adjacent to an established neighborhood and a recently built fire station. Approximately 13 acres, the program of this site will be determined through a comprehensive and inclusive public outreach process.

Western Slope

We recognize that Grand Junction has Colorado spirit with a western slope flavor. While there are some aspects to park design that are universal, we also recognize that your community is different than those in the Denver Metro Area or mountain communities. We will work directly with your staff, your stakeholders, your Council, and your residents to ensure that our work is truly of and for you. Much like many others, COVID-19 has opened our eyes to the vast possibilities of working remotely with one another. This project may have the potential to use those services. However, we truly believe that face-to-face interaction is ideal for some project interactions. We will work directly with our City project manager to determine how to balance virtual and in-person interactions for the project team (ours and yours) as well as other project meetings with staff, stakeholders, Council, and the public.

Surrounding Land Use

The project site is surrounded by single family homes on the north, west, and south sides. An important consideration in the park design will be how to provide desired park uses while providing some buffer space for the surrounding neighbors. We believe this is another reason public outreach is critical for this project.

Irrigation Water

For irrigation purposes, we propose that the park tie into the ditch water where it crosses the site and provide a pump for the primary irrigation water source. The City may consider creating a pond or water feature on site to provide an amenity to the site and pump from the pond to irrigate the park. We will explore options for water delivery and storage as part of the design concepts.

Public Outreach

It is clear that the City is seeking a comprehensive and innovative public outreach strategy. Please see the following section for more information about our public outreach and detailed meeting approach.



Methodology and Approach

Our typical master planning process aligns well with the scope of work that was laid out for this project in the RFP. Based on the RFP and our experience with master planning for parks, we have put together a proposed approach to your scope of work:

Phase 1 – Programming and Public Participation

This phase starts with intensive research about the site and the existing conditions as well as gathering information about the potential programming and uses at Horizon Park.

Project Research – Institutional Knowledge

Our first step will be to meet with City staff to discuss the project. Your wealth of knowledge and history regarding Horizon Park is invaluable. We will work with you to identify specific stakeholder groups and/or communities that have an interest in this park development. We want to include these groups in the process as early as possible. This provides the opportunity for all to have meaningful input into the design and can streamline the entire process. We welcome all insight and will ensure that their input is heard, understood, and considered in the preparation of the master plan. This kick off meeting is also the appropriate time to initiate the discussion about project goals, objectives, and vision and to determine an appropriate public outreach strategy.

Project Research – Site Specific Knowledge

We will visit the park property to perform site analysis that helps us fully understand the project site. From this information we will prepare an opportunities and constraints plan. These plans will help inform design decisions throughout the process and can also be helpful during public outreach.

We will thoroughly review the survey and the sub-surface information. Our irrigation designer will review the existing water source and availability. Our civil engineer will review surface and sub-surface drainage patterns and systems.

We will synthesize this information and prepare a comprehensive site analysis plan and an opportunities and constraints plan.

Public Meeting #1 – Programming

After we have the site-specific plans and a summary of knowledge from the City and other stakeholders, we will engage the public for the first public meeting. The goal of this meeting is to learn about the resident's desires, needs, and concerns about the project. We will also obtain information about the types of uses and programming the public would like to see implemented at Horizon Park. Please see Section D for more information about our public outreach and detailed meeting approach.



Phase 2 - Conceptual Design Development

Alternative Concept Plans

For us, a refreshing and creative phase of master planning is crafting alternative concept plans. At this time in the project we have absorbed background information about the project and project goals and we explore how those translate to the ground plane by developing alternative concept plans. We revel in the fact that there are countless ways to solve design problems and achieve project goals. The alternative concept plans allow our design team to unleash creativity to find multiple solutions that address the project issues and still accomplish project goals.

We will develop two alternative concept plans, each that visually translates a different vision for park development. These plans will be based on the information that we obtained from our site investigation and research, meetings with the City, and public meeting #1. These plans will contain enough detail that the creative potential for each plan is palpable and contains enough technical information, including preliminary grading and spot elevations, to ensure the realistic nature of each plan. We believe that it is this attention to technical detail that sets our master planning abilities apart from other design firms.

These plans will be accompanied by supporting graphics – representative imagery, design sections or elevations, digital photo renderings, and/or modeling. We will also prepare cost estimates for each of the alternative concept plans. Our level of design detail in this phase also leads to more accurate cost estimate in the early phases of the project. These estimates will assist with making design decisions about the plans.

Public Meeting #2 – Alternative Concept Plans

We propose taking the alternative concept plans to the public to solicit reactions and obtain more information about what residents like and don't like about each concept. The goal is to build concensus toward developing a single plan from elements of the two concepts that best meet the community's needs. Please see Section D for more information about our public outreach and detailed meeting approach.



Preliminary Master Plan

The Preliminary Master Plan will be developed based on the input that we receive from the City, other stakeholders, and the public about the alternative concept plans. Many times, the preliminary master plan is born from one alternative concept plan and may incorporate some elements from the other alternative concept plan. Usually, this allows our team to achieve maximum desired design aesthetic, constructability, and maintainability.

Public Meeting #3 – Preliminary Master Plan

Once the preliminary master plan has been developed, we propose presenting that plan at the third public meeting. The goal of this meeting is ensure the public is happy with the master plan and provide opportunity for any final feedback for the plan. Please see the following section for more information about our public outreach and detailed meeting approach.



Phase 3 – Final Master Plan with Phasing and Cost Estimates

After we have received all feedback about the Preliminary Master Plan, we will develop a Final Master Plan. This rendered site plan will show proposed layout of all programmed uses for Horizon Park, 1' contours and spot elevations, and planning-level utility (electrical, drainage, irrigation) information. We will also provide supporting graphics, such as site sections, digital photo renderings, and/ or digital models/fly-throughs.

We will include a phasing and implementation strategy for the master plan. Our phasing recommendations will consider construction methods and access for each phase. It's important to stage work so that new phases have minimal disruption to previously constructed phases. If the city has information about timing for construction budgets, we can develop phasing that responds directly to that.

In conjunction with this plan and supporting graphics, we will also provide an estimate of probable construction costs. We take pride in our careful and accurate cost estimation abilities. A majority of our projects have been built, many have bid in the last year, and these experiences give us the information about current pricing trends. We are aware that accurate cost estimating gives you the tools you need to make design decisions and decisions regarding phasing.



Preparation of Deliverables

As previously mentioned, our firm utilizes a variety of methods to prepare the final deliverables. We typically approach initial design explorations by hand which allows us to quickly and efficiently explore innumerable design options. These initial design iterations may be done in a "charette" where the project team brainstorms ideas with our entire firm, subconsultants, and/or representatives from your team. This interactive and creative process seeks to assume that all ideas have potential. It is through these charettes that we have developed unique and creative design solutions and programming elements such as: an ice ribbon, braided wetlands gardens, a 'shrinking machine' at the entrance of a playground, and many more.

As we progress in the design process, we utilize software to develop imagery and render the plans and design sections or elevations. We believe that this process provides our team with additional flexibility because it is easy to update and change as design decisions are made. But we also take great care in ensuring that the product matches the intended output at each stage of the process. For example, a beautifully and artfully rendered plan would feel appropriate for the preliminary or final master plan stages, but at a concept plan stage would feel too final. Or a hand sketched or hand rendered plan would feel appropriate at a preliminary stage but would feel incomplete at a final stage. Especially when working with the public, we strive to ensure that our products reflect beautiful design ideas that are also open to comment and feedback.



Methodology and Approach Conclusion

Our design team brings immense project experience in designing public spaces exactly like the one imagined for Horizon Park. We take our design ideas directly from the site and the residents who will be future users. We will conduct a comprehensive and thought-out public outreach effort to ensure that we are reaching a wide contingent of your residents. We will develop unique design solutions and project deliverables that will be used for public outreach, presentations to City staff, stakeholders, or City Council.



Horizon Park Master Plan

City of Grand Junction Preliminary Project Schedule August 11, 2021



ARCHITERRA GROUP

hase/Task 2021				2022											
Phase 1	AUG SEP		OCT			NOV		DEC		JAN					
Attend kick-off meeting and site visit			\diamond												
Prepare site analysis plan and opportunities and constraint															
plan															
Prepare for and attend public meeting #1				\diamond											
Phase 2															
Prepare two alternative concept plans and supporting															
graphics															
Prepare for and attend public meeting #2															
Phase 3															
Prepare preliminary master plan and supporting graphics															
Prepare for and attend public meeting #3											\diamond				
Refine master plan and supporting graphics															
Submit final master plan													\diamond		

Section D: community involvement

10



One of our deepest held beliefs is that a successful project is one that addresses the needs and desires of our client, but also one that addresses the concerns and requirements of the community at-large. It is because of this that we undertake public outreach as a major component of our design process.

Since we delve into all projects with no agenda or preconceived notions, our approach is to gain as much input as possible from the public throughout the design process. We understand and respect that Horizon Park is an integral part of the resident's neighborhood, their community and the City as a whole. Therefore, resident's collective needs, desires, and concerns must be heard, articulated, and addressed in the master plan. Thus, we propose a multifaceted approach to public outreach.

In our experience, a public outreach process is best developed collaboratively with the City. This allows us to fully understand your goals and design a process that achieves all objectives necessary. A truly integrated public outreach process may contain a variety of methods such as public meetings, online outreach, or on-site outreach.



Public Meetings

Public meetings are an important way to inform and educate the public about the project, and to obtain feedback from the public about the project. We plan to hold a series of at least three public meetings. We will organize the meeting based on the type of feedback we are seeking and based on the type of information we intend to present.

Public Meeting #1 – Programming

The goal of the first public meeting will be to facilitate a discussion about potential uses and programming options for the park. We will engage meeting attendees in a presentation about the park, the history of the project and the site, the project goals, and present the site analysis and opportunities and constraints plan. We have found that this information is best presented in large group format. After all meeting attendees have seen the introductory presentation, we will facilitate an interactive discussion that allows attendees to provide our team with information about the type of program elements they would like to see at the park. We will then break the meeting attendees up into smaller groups, generally 5-10 people, to meet at separate stations. We will have a station leader who will facilitate a discussion with the group about potential park programming. We've found that it is best to have preliminary ideas at each station, so we will have a board or two showing potential park program



through the use of representative imagery. This allows attendees to respond to an image of something they like or dislike. It's important to us that the station leaders engage people to fully understand what they like or dislike about an image, rather than assuming the image itself is representative of attendees desires. After facilitating a conversation about the images of park uses, we will invite attendees to vote by placing 5 stickers on the images/uses they best like. Another way to create further interaction is to give each group of people three 'group votes'. This encourages them to talk and work together to decide what they like best as a group which helps foster the sense of community and collaboration at the meeting. Finally, we will encourage each station to 'present' their findings to the larger group. Hearing multiple perspectives will help solidify the data and information from this meeting. We will facilitate a discussion for the whole group if there appears to be contradictory information between stations and summarize any information that we see as aligning between stations.

After the meeting, we will prepare a meeting summary and provide that to the City as well as engage our project manager in a discussion about how to use the information provided by the public.

Public Meeting #2 – Alternative Concept Plans

The goal of the second public meeting is to obtain input about the alternative concept plans our team will develop based on the feedback from the first meeting. We will start the meeting by summarizing the project and work done to date. We will summarize the first public meeting and display the information we heard in data format.

We will present each concept plan and supporting graphics to the group at large. Our supporting graphics are often what helps the general public fully understand the design concepts presented. These graphics may be design sections, a digital model, representative imagery, or digital photo renderings. Our goal with these graphics is to effectively illustrate what each concept will feel like as a park space beyond just understanding a rendered plan. After the plans have been presented, we will again break into smaller groups and a station leader will facilitate a discussion about the plans. We will encourage attendees to be specific about the elements of each plan that they like and dislike. Rather than selecting a single plan as the favorite, our goal is to fully understand what is desirable and what is not. We design alternative concept plans to prioritize different needs or desires. For that reason, it's better that we understand what works and what doesn't (from the attendees perspective) so that as we proceed with the preliminary master plan we are using the most valuable information.



Public Meeting #3 – Preliminary Master Plan

The goal of the third public meeting will be to proof the single master plan developed before it's officially finalized. We will summarize the project process to date including information gleaned from the first and second public meetings. We will present the preliminary master plan to meeting attendees and discuss how the plan was derived from the concept plans. We will facilitate a discussion as a single group regarding the proposed park improvements and obtain any more feedback from the public regarding the park design.

Public Meetings in a Virtual World

Our intention, at this point, is to hold all proposed public meetings in-person. Meeting face to face with the public gives the design team an opportunity to engage in a back-and-forth conversation about the project and to explore new ideas. It is exciting to see the synergy that can develop with a variety of voices and points of view.

However, should public health circumstances change, we have the ability to transition the public meetings to a virtual format. We are committed to working with the City to develop a meeting format that respects the health of your community. In this past year we have had several projects whose public process was conducted entirely online. We can use a variety of platforms to achieve the same objectives we listed above for in-person public meetings.

Town Hall Format – This format allows us to present the information and participants can submit questions. We would have a dedicated moderator fielding the questions and passing them on to presenters for discussion. This format allowed us greater control over potential 'Zoom Bombers' or attendees attempting to disrupt the meeting.

Breakout Format – This format allows us to present information to a group at large and then facilitate smaller group discussion through the use of virtual breakout rooms.

For either of these formats, we also have the ability to create an interactive portal that surveys participants and we are able to present, and respond to, the data in real-time.

We can work with our City project manager to determine the best way to approach public meetings in light of the goals for the project and the requirements for public health.



Additional Outreach Methods

In addition to public meetings, there are a variety of other ways to reach the public. Following are examples of these methods. While they are not specifically included in our scope or fees for this project, we wanted to present some options the City may consider. If the City determines that they would like to add any of these methods, we can work with you to refine our scope and fees.

Online presence

We understand that people are busy with work, school, families, recreation, and many other activities that keep them from participating in public meetings. We believe it is important to provide easy opportunities for neighbors who cannot, or choose not to, attend public meetings to be informed about the project and to give them an opportunity to comment.

To achieve this for previous projects, we have created an online presence for the project. This presence can take a variety of forms. Social media such as Facebook and Next Door have the ability to post information and receive comments about aspects of the project. A dedicated project webpage can be developed and connected to the City's website to inform residents about the project process. Additionally, many of our clients have public outreach forums in which we can post updates.

Whichever avenue is pursued it could be used to post updates for the project, advertise public meetings, obtain additional feedback about the project in each of the project phases, and/or simply provide information to the public. This method of outreach may reach a wider segment of potential park users, and will allow people to be involved in the project at their leisure.

There are several ways that people could find the website or social media account. One option is to notify residents about it through a physical mailing or digital newsletter. Another option is that flyers could be posted in nearby parks and along trails directing people through a QR code.

The goal with online outreach is simply to obtain as much feedback on the project as possible. We do not view the social media or web aspect of outreach as a replacement for public meetings. It may however supplement face-to-face meetings and give more residents an opportunity to stay updated and provide comment on the project.

On-Site Outreach

Another effective method of reaching the public is to have an on-site presence at neighboring parks or trails. Additionally, outreach could be conducted at community events. Again, not a replacement for public meetings, but this is a good opportunity to educate people about the project and obtain feedback and also contact information to use to send out future notices and advertisements about the project.

Citizen Survey

Another option for public outreach would be to develop and administer a citizen survey. A survey would be created based on the kind of information and feedback needed for the project. This survey could be administered in person during an on-site outreach session, online through a survey website, a dedicated web page, through social media, or through direct mailings to specific neighborhoods and residents.

Again, please note that online, onsite, and survey outreach are not included in the scope of work we prepared for this project, but we can work with the City to refine our scope to include them if desired.



Additional Project Coordination and Meetings

Latinx Representation

We understand that the City wants to ensure that the Latinx population is represented through any method of outreach developed for this project.

While providing translated materials and/or a translator for meetings helps bridge the language divide, we have found that attracting under-represented populations to the public outreach events is as important as providing services. For that reason, we suggest working with community groups such as the Hispanic Affairs Project, Western Latino Chamber of Commerce, Colorado Mesa University, or Latin Anglo Alliance Foundation to brainstorm ways of engaging the Latinx population. In past projects, we have reached out to under-represented groups at their cultural events, community locations, or even culturally-specific stores. Based on the need to incorporate this important population of people we included the provision of meeting materials in Spanish in our scope. If the City would like to incorporate in-person translation at any meeting, we can work with you to refine our scope to add that service as well.

Stakeholder Group

We have worked with stakeholder groups for many of our projects. The make-up and format of this group is driven by the role of this group in the project process. For Horizon Park, if a stakeholder group were to be created, it could contain members from:

- community organizations
- nearby neighborhood or HOA groups
- nearby school groups
- youth sports organizations
- business organizations
- cultural groups (such as those listed above for the Latinx community)

Usually, stakeholder groups help our design team refine what is eventually presented to the public. These groups provide a unique community perspective and help drive the design decisions driven by curated discussions with our team.



City Council

While not specifically requested in the RFP, we have the ability to assist our City project manager with the development of presentation materials for Council presentation. Additionally, if it would help for our team to be present at Council meetings to present and/or answer questions, we can refine our scope to include too.

Community Involvement Conclusion

Our design team has extensive and varied experience with public outreach processes. We tailor each effort to the project and the community. Based on our understanding of this project from the RFP, we feel that we can develop a public outreach process that achieves your project goals by incorporating public meetings and other outreach methods, integrating the Latinx population, and working with stakeholders and/or Council.







Project Experience

Architerra is dedicated to improving the lives of the public through innovative and artful design. Not only do we want to achieve the goals of the project, we want to create places that are meaningful to the people who use them. This dedication to creative design has been recognized with the following design awards:

2019	Wonderland Creek
	ASLA Colorado Merit Award for Design

- 2018 Discovery Park ASLA Colorado Honor Award for Design
- 2015 Cherry Creek Regional Trail ASLA Colorado Landmark Award
- 2011 East-West Regional Trail ASLA Colorado Merit Award for Design
- 2011 Westminster Center Park ASLA Colorado Merit Award for Design
- 2009 Simpson Mine Park ASLA Colorado President's Award of Excellence for Design
- 2009 Little Dry Creek Restoration ASLA Colorado Land Stewardship Award and Merit Award for Design
- 2009 East Plum Creek Trail Starburst Conservation Award
- 2007 Stapleton Northfield High School ASLA Colorado Merit Award for Design
- 2006 Confluence Park ASLA Colorado Merit Award for Design and Downtown Denver Partnership Award
- 2003 Denver Skatepark ASLA Colorado Merit Award for Design



Experience with Projects for Public Clients

One hundred percent of our firm's work is for public sector clients in Colorado. We recognize and value the critical role that public spaces play in helping to create community within neighborhoods. We are passionate about improving people's lives and fostering stewardship for our natural resources through the design of public spaces.

All our projects require review by various government agencies. Many projects require that we obtain approval from parks and recreation commissions, advisory committees, and councils. We are accustomed to presenting designs to these groups, answering questions, and making revisions based on their comments if necessary. We recognize the importance of these approvals as it is critical that the Town's decision makers feel that project funding is being used in a way that will best benefit residents.

In addition, almost all our projects require technical review by various agencies during the preparation of construction documents. We welcome this review and plan for the review time in our project schedules. We prefer to meet with staff and the review agencies early in the project to determine the requirements or concerns of each department. We have found that these meetings can speed up the review process and minimize conflicts in the design.

Discovery Park

Parker, Colorado

Discovery Park is a dynamic urban space in the heart of downtown Parker. Adjacent to the new Parker branch of the Douglas County Libraries, this park provides a vibrant gathering space throughout the entire day and through each season of the year. During the warmer months, concerts and festivals are held on the stage and lawn at the north end of the park. An interactive water feature in the linear and modern plaza provides summer water fun for kids and adults alike. LED lighting throughout the plaza and park keep the fun going past sunset. During the colder months, the walkway around the lawn becomes an ice-skating ribbon and the concessions building becomes a skate rental counter. Public art is installed and lit in the evening to add to the Town's extensive public art collection along Mainstreet.

Discovery Park won the ASLA Colorado Honor Award for Design.

Reference:

Ms. Mary Colton Parks, Recreation and Open Space Director (303) 805-3261 mcolton@parkeronline.com











Wheatlands Park

Aurora, Colorado

This insect-themed park located in a southeastern Aurora is the premier playground and gathering place for the community. The park consists of a two-tiered playground with custom climbing wall, shelter area, and plumbed restroom. The custom playground allows children to experience play from the perspective of the size of an insect using colors and shapes found in the insect world and custom climbing features including an anthill, an earthworm, a curled leaf, a spider spinning a web, and a bumblebee sitting atop honeycomb. The playground is supported by a large semi-custom shade structure that provides seating for six picnic tables. A plumbed restroom building has a bottle filling station and drinking fountain as well as baby changing stations in the restrooms. The park is completed with an informal blue grass lawn, decorative blue grass berms, and large shade trees.

The site, surrounded on three sides by neighborhood streets and homes, was designed creating a seamless integration into the neighborhood. It was imperative to the design team the park features were designed in a way that had the least amount of direct impact to adjacent homeowners. The materials selected for the park were based on existing materials throughout the community which creates a





cohesive aesthetic.

The Architerra Group is currently developing the construction documents for the next phase of this park which will include a basketball court, a multi-use sport court, and a 'neighborhood patio' area with lawn and **patio games**.

Wheatlands Park was recently featured in Landscape Architect and Specifier News, an industry publication.

Reference:

Mr. Clint Waldron White Bear Ankele Tanaka Waldron (303) 858-1800 cwaldron@wbapc.com







Central Park Aurora, Colorado

The Farm at Arapahoe County neighborhood, located in southeast Aurora, wanted to update their neighborhood's Central Park. The community's metropolitan district board conducted a neighborhood survey and discovered that pickleball courts and new basketball courts were desired as part of the park renovations. The Architerra Group sited the new pickleball courts and basketball courts near two existing tennis courts which created a 'court complex' portion of the park. In addition to the post-tensioned pickleball and basketball courts, they designed seating plazas with picnic tables, benches, and decorative planting beds.

The second phase of improvements to this park included renovating the dated playground adjacent to the new pickleball courts. The Architerra Group selected playground equipment that suited a wide range of ages and abilities to ensure that the neighborhood's Central Park has something for everyone.

Since opening in 2019, the success of the pickleball courts and the interest surrounding the sport continues to grow. The neighborhood HOA has had to implement a digital reservation system and has also provided moveable pickleball nets for use on their existing tennis courts in the park. The success of the updated playground is evident through the need to add additional picnic tables around the improvements to accommodate the number of families playing there.

Reference:

Mr. Clint Waldron White Bear Ankele Tanaka Waldron (303) 858-1800 cwaldron@wbapc.com



Westminster City Center Park

Westminster, Colorado

This unique park in the City of Westminster is located across the street from City Hall. The park geometry reflects the formal design of City Hall and the obelisk in the center of the park plaza is a nod to the clock tower across the road. Additionally, the park includes references to their sister city in Westminster, England, including a London street grid plaza turned into a community gathering space and interactive water feature. Named one of the Top 50 US Playgrounds in 2016, the Peter Pan themed playground provides imaginative play with Big Ben, Neverpeak Mountain, the Darling's House, Neverwood Forest and even a play feature crocodile. The popular amphitheater provides opportunities for community shows, performances, and events.

Reference:

Ms. Kathy Piper Dept. of Parks, Recreation & Libraries (303) 658-2192 kpiper@cityofwestminster.us







Goldsmith Gulch Greenwood Village, Colorado

The Architerra Group team redesigned a portion of the West Branch of Goldsmith Gulch through the Huntington-Caley Open Space in Greenwood Village. This innovative channel project included an undercrossing of Caley Avenue, and a thoughtful and deliberate channel design with artistic drop structures. The channel utilizes a riffle/pool design with void fill riprap to enhance the ecological function of the channel. Adjacent to the channel edge are paved paths and braided riparian planting beds, creating a unique strolling garden along the channel. At the heart of the project site, the channel flows through a seating area that contains custom shade structures inspired by the flowing water, unique site furniture, a grated walkway that allows users to walk 'on' the wetlands, and 'floating' concrete stepping platforms across the channel.

Reference:

Ms. Suzanne Moore Director Parks, Trails, and Recreation (303) 708-6135 smoore@greenwoodvillage.com







Village Greens Greenwood Village, Colorado

The Architerra Group worked with the City of Greenwood Village to plan and develop a destination adventure park at Village Greens North. Upon arriving at the park, visitors are greeted with a sculptural steel wall that echoes the rolling hills and grasses of the site. A braided pathway beckons visitors into the park and takes them through a variety of park uses include a crusher fines loop trail around the pond, a gathering area with large shelter, and the mountain bike and disc golf course plaza. This plaza contains a plumbed restroom and provides entry into the mountain bike skills course and the 18-hole disc golf course. These two park features are artfully designed around one another to prevent cross traffic but still take advantage of the natural terrain and landscape. The clever design of the large gathering shelter incorporates an existing tree and adds character to the gathering area.



Reference:

Mr. David Foster Parks Project Manager (303) 486-5786 dfoster@greenwoodvillage.com











Section F: fee proposal



SECTION 6.0: SOLICITATION RESPONSE FORM RFP-4931-20-SH

Offeror must submit entire Form completed, dated and signed.

Total cost to provide services as described:

<mark>\$</mark> 49,975.00

WRITTEN: Forty nine thousand, nine hundred and seventy five and 0 cents dollars.

*Please provide detail on staffing, hours, materials and reimbursables.

The City reserves the right to accept any portion of the work to be performed at its discretion

The undersigned has thoroughly examined the entire Request for Proposals and therefore submits the proposal and schedule of fees and services attached hereto.

This offer is firm and irrevocable for sixty (60) days after the time and date set for receipt of proposals.

The undersigned Offeror agrees to provide services and products in accordance with the terms and conditions contained in this Request for Proposal and as described in the Offeror's proposal attached hereto; as accepted by the City.

Prices in the proposal have not knowingly been disclosed with another provider and will not be prior to award.

- Prices in this proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a proposal for the purpose of restricting competition.
- The individual signing this proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-903544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of _____ percent of the net dollar will be offered to the City if the invoice is paid within ______ N/A _____ days after the receipt of the invoice. The City reserves the right to consider any such discounts that are no less than Net 10 days when determining bid award.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents.

State number of Addenda received: _____.

It is the responsibility of the Proposer to ensure all Addenda have been received and acknowledged.

The Architerra Group	Dean JR Pearson					
Company Name – (Typed or Printed)	Authorized Agent – (Typed or Printed)					
104	(303) 948-0766					
Authorized Agent Signature	Phone Number					
5881 S Deframe St	dpearson@architerragroup.com					
Address of Offeror	E-mail Address of Agent					
Littleton CO 80127	August 11, 2021					
City, State, and Zip Code	Date					

Horizon Park Master Plan

City of Grand Junction

Task and Fee Proposal

August 11, 2021



Personnel	Principal/ Project Manager	Landscape Architect	Subconsultants	
Task Hourly Rate	\$175/hour	\$85/hour	and Expenses	Total Cost
Phase 1				
Attend kick-off meeting and site visit	4	4		\$940.00
Prepare base map		3		\$255.00
Prepare site opportunities and constraints plan	1	8		\$830.00
Prepare programming options board(s)	1	8		\$830.00
Attend stakeholder meeting #1	2	2		\$470.00
Prepare for and attend public meeting #1	4	4		\$940.00
Attend up 5 meetings throughout project (virtual)	4	4		\$940.00
Miscellaneous coordination and expenses	2		\$75.00	\$375.00
Subtotal Phase 1 hours	18	33		
Subtotal Phase 1 cost	\$3,150.00	\$2,805.00	\$75.00	\$6,030.00
Phase 2				
Irrigation planning and cost estimating (Munding Design)			\$2,900.00	\$2,900.00
Electrical/lighting planning and cost estimating (Ackerman Engineering)			\$3,200.00	\$3,200.00
Drainage, water quality, and utility planning and cost estimating (RESPEC)			\$5,000.00	\$5,000.00
Prepare two alternative concept plans	40	40		\$9,400.00
Prepare supporting graphics	4	40		\$4,000.00
Prepare preliminary estimates of cost	2	8		\$980.00
Attend stakeholder meeting #2	2	2		\$470.00
Prepare for and attend public meeting #2	4	4		\$940.00

4

56

\$9,800.00

Subtotal Phase 2 hours

Subtotal Phase 2 cost

94

\$7,990.00

Miscellaneous coordination and expenses

\$750.00

\$29,040.00

\$150.00

\$11,250.00

Phase 3				
Prepare preliminary master plan	10	24		\$3,540.00
Prepare supporting graphics	2	8		\$980.00
Prepare preliminary estimate of cost	1	4		\$490.00
Attend stakeholder meeting #3	2	2		\$470.00
Prepare for and attend public meeting #3	3	3		\$705.00
Refine master plan	1	4		\$490.00
Refine supporting graphics	1	2		\$320.00
Refine estimate of cost	1	1		\$235.00
Miscellaneous coordination and expenses	2		\$100.00	\$400.00
Subtotal Phase 3 hours	23	48		
Subtotal Phase 3 cost	\$4,025.00	\$4,080.00	\$100.00	\$8,205.00

Travel time and expenses										
Travel time (assumes 4 trips) (billed at 1/2 typical rate)	30	30								
Travel expenses (hotel, mileage, meals)			\$2,800.00							
Subtotal travel hours	30	30								
Subtotal travel cost	\$2,625.00	\$1,275.00	\$2,800.00	\$6,700.00						

Total all project phases \$49,975.00

Assumptions

- ~ The scope of services includes developing a master plan for Horizon Park. This proposal does not include design development or construction documents.
- ~ This proposal assumes that Architerra staff will attend in person meetings in Grand Junction on 4 separate trips. These meetings will include:
 - ~ Trip 1: Kick-off meeting and site visit.
 - ~ Trip 2: Stakeholder meeting #1 and public meeting #1.
 - ~ Trip 3: Stakeholder meeting #2 and public meeting #2.
 - ~ Trip 4: Stakeholder meeting #3 and public meeting #3.
- ~ Graphics for public meetings will be pre presented digitally.
- ~ City of Grand Junction will advertise for and provide a venue for public meetings.

~ Products include:

- ~ Opportunities and Constraints Plan
- ~ Graphics for public meeting #1
- ~ Two rendered concept plan alternatives with supporting renderings and/or images
- ~ One rendered preliminary master plan with supporting renderings and/or images
- ~ One rendered final master plan with supporting renderings and/or images
- ~ Estimates of probable construction costs with each plan



Dean Pearson PLA, FASLA, CLARB

Dean has built his extensive and storied career around works in the public sector. His vast experience is seen throughout the nation but his true passions are the public spaces within the very community where he and his family live and work.

As a Principal/Project Manager, Dean is known for his creative design solutions that are coupled with a highly technical knowledge that ensures seamless constructibility and results in much-loved community spaces. He has wide-ranging experience with public agencies at all levels and is skilled at managing large, multi-disciplinary projects.

Dean has practiced landscape architecture for over 32 years and founded the Architerra Group in 1999.





QUALIFICATIONS

Bachelor of Science in Landscape Architecture Cornell University, 1986

Licensed Landscape Architect in Colorado, Georgia, and Massachusetts

- Fellow, American Society of Landscape Architects (ASLA)
- Certified, Council of Landscape Architectural Registration Boards (CLARB)
- State Board of Landscape Architects, 2011- Present, Chair 2013-Present
- Landscape Architectural Registration Examination (LARE) Grader, 1998 - 2012
- President, ASLA Colorado, 1999-2000
- CLARB Technical Committee, Grading, Drainage and Stormwater Management Section, 2000 - 2013

RELEVANT PROJECTS

Discovery Park | Parker, CO Creekside Park | Arapahoe County, CO Cucumber Gulch | Breckenridge, CO Front Range Trail | Douglas County, CO Westcreek Disc Golf Course | Parker, CO USMC CPL David M. Sonka Dog Park | Parker, CO Cherry Creek Trail, Multiple Segments | CO Gemstone Park | Castle Rock, CO High Line Canal Trail, Multiple Segments | Denver, CO City Center Park | Westminster, CO Downtown Childrens Playground | Denver, CO Simpson Mine Park | Lafayette, CO East-West Regional Trail | Douglas County, CO Stapleton Northfield Campus | Denver, CO Bluffs Regional Park | Lone Tree, CO Red-tailed Hawk Park | Aurora, CO South Platte River Trail | Denver, CO Confluence Park | Denver, CO Arapahoe Road Trailhead | Centennial, CO Clear Creek Trail | Golden, CO Globeville Landing Outfall | Denver, CO Montclair Creek Outfall | Denver, CO Sharptail Ridge Open Space | Douglas County, CO Arvada West High School | Arvada, CO Richmil Ranch Open Space | Arapahoe County, CO

LIZ WOIFMAN PLA, ASLA

Liz joined the Architerra team last year and brings with her a diverse landscape architectural background. She combines her many years of experience in designing beautiful personal outdoor spaces with a deeply held interest in the design of community and public spaces. She enjoys being involved in every part of a design project, from initial concept through construction.

Liz's volunteer experience includes being a member of the exam writing committee for the Council of Landscape Architecture Registration Boards (CLARB), participating in outdoor stewardship projects with Volunteers for Outdoor Colorado (VOC), and being an active member in the Rosedale Community Garden.





QUALIFICATIONS

Bachelor of **Landscape Architecture** Purdue University, 2013

- Licensed Landscape Architect in Colorado
- American Society of Landscape Architects (ASLA)

RELEVANT PROJECTS

Macanta Regional Park | Douglas County, CO East-West Regional Trail | Douglas County, CO Stapleton Northfield Campus and Park | Denver, CO Foothills Neighborhood Park Renovations | Jefferson County, CO Soda Creek Bridges | Steamboat Springs, CO Blue Grama Draw | Denver, CO Cherry Creek Trail | Douglas County, CO Goldsmith Gulch: Huntington Acres - Tommy

Davis | Greenwood Village, CO

Kaiser Permanente Pueblo | Pueblo, CO McMurdo Gulch | Castle Rock, CO The Green on 38th | Wheat Ridge, CO Louisville Playgrounds | Louisville, CO Keenesburg Beautification | Keenesburg, CO Coalton Trail | Boulder County, CO Entertainment District Trail | Douglas County, CO Southbridge Park Improvements | Littleton, CO Cherry Creek Trail | Douglas County, CO Highridge Park | Aurora, CO


TECHNICAL EXPERTISE

- / Water Resources Engineering
- / Water Rights Analysis
- / Stormwater and Floodplain Management
- / Hydrology
- / Flood Control Facility Design
- / Hydraulics
- / Stormwater Master Planning

EDUCATION

 / BS in Civil Engineering (Suma Cum Laude), University of Missouri–Columbia, Columbia, MO (1997)

REGISTRATIONS & LICENSES

/ Professional Engineer in Colorado

PROFESSIONAL MEMBERSHIPS

- / American Society of Civil Engineers (ASCE)
- / Colorado Association of Stormwater and Floodplain Managers (CASFM)

WORK HISTORY

- / RESPEC (2013-Present)
- / WRC (2007-2013)
- / Burns & McDonnell (1998-2007)

JESSICA H. NOLLE, PE

PROJECT ENGINEER/MANAGER

OVERVIEW

Ms. Nolle has 16 years of experience in water resources engineering with an emphasis in stormwater management. Her experience includes stormwater master planning; preparation of Federal Emergency Management Agency (FEMA) Conditional Letter of Map Revision (CLOMR) and Letter of Map Revision (LOMR) applications; water rights and quality analysis; expert engineering report preparation; and all aspects of design of storm sewer systems, detention basins, dam intake and outlet works, drop structures, and spillways.

PROJECT EXPERIENCE

Baranmor Ditch Reaches 4–5 Improvements, Aurora Water, Colorado. Ms. Nolle was the project manager responsible for the drainage improvements for the Baranmor Ditch between Quentin and Scranton Streets. Improvements include three large culvert replacements, 0.5 mile of channel improvements, drop structures, and a gravity block wall to contain the 100-year floodplain. Extensive utility coordination was required to have multiple buried utilities from four different companies protected or relocated before the construction phase. The project required multiple temporary construction easements, bid and construction phase services, and LOMR preparation.

Chesapeake Townhomes Detention Pond Feasibility Study, Aurora Water, Colorado. Ms. Nolle was the project manager for the alternatives analysis for the Chesapeake Townhomes Detention Pond near East 1st Avenue and Newark Street as it relates to the feasibility of the Outfall Systems Plan (OSP) for the Easterly Creek Detention Pond near the intersection of East 1st Avenue and Kenton Street. The analysis included extensive SWMM modeling to ensure that the planning goals were met.

Cornerstone Park Improvements, South Suburban Parks and Recreation, Englewood, Colorado. Ms. Nolle was the project manager and engineer responsible for drainage analysis and erosion-control plans associated with the recently designed improvements to Cornerstone Park in Englewood, Colorado. The improvements consisted of new pickleball courts and picnic areas, which added impervious area to the park.

Molholm Trail Connection, Lakewood, Colorado. Ms. Nolle was the project manager and engineer responsible for the drainage facility design and erosion-control plans associated with Molholm Trail connection through the parcel at the northeastern corner of West 10th Avenue and Gray Street in Lakewood, Colorado. Drainage improvements consisted of adding two culverts under the proposed trail to provide for roadside ditch conveyance.

Inverness Regional Detention Pond, Southeast Metro Stormwater Authority (SEMSWA), Englewood, Colorado. Ms. Nolle was the project manager for the design of a full-spectrum detention pond as outlined in the Cottonwood OSP. The pond had an excess urban runoff volume (EURV) of 29 acre-feet and a 100-year volume of nearly 100 acre-feet.

High Line Canal Feasibility Study for Stormwater Runoff Reduction and Treatment, Urban Drainage and Flood Control District (UDFCD), Colorado. Ms. Nolle was the project engineer for a study to determine the practicability of retrofitting the 66-mile-long canal to provide stormwater quality enhancement and runoff reduction. The project included determining the canal's treatment capacity and required infrastructure as well as estimating capital and annual costs, among other components. The project was coordinated with various governmental agencies, including stormwater, public works, and parks and recreation staff.





Company Bio



Kurt Munding has over 29 years' experience as a Landscape Architect and irrigation designer. Throughout his career he has managed many projects from concept through construction. Kurt's passion lies in creating dynamic public spaces. His extensive knowledge of construction and his ability to seamlessly facilitate projects from concept through construction has allowed him to successfully manage numerous parks, recreation, trail and school projects throughout his career.

Kurt is among only a few landscape architects certified in irrigation design. His expertise represents his belief in the intelligent and efficient use of water in design.

Experience/Qualifications

Munding Design LLC, founded April 2011 Landscape Architect/Associate: Design Concepts 1998-2011 Landscape Architect: Medicine Bow/Routt National Forest, 1991-1998 Bachelor of Landscape Architecture: Mississippi State Univ., 1991 Associates in Applied Science: State University of New York at Cobleskill 1988 Registered Landscape Architect Colorado (#328), 2008, Wyoming (#0043B), 1998 Certified Irrigation Designer and Irrigation Auditor with the Irrigation Association, 2002 Dale Carnegie Course Graduate 2007 President ASLA Colorado 2010-2012

Small Sample of Parks and Recreation Project Experience

Boulder Valley School District, numerous school irrigation renovation projects from 1999-2017 Weld RE-1 School District, landscape and irrigation for all schools as part of 2016 bond program. Various Animas River Trail Projects including Main Avenue Underpass– Durango Colorado Village Greens Park Playground – Aurora Colorado Aurora Public Schools Playground Master Plans – Aurora, Colorado Foothills Parkway Irrigation – Boulder, Colorado West Middle School Soccer field – Aurora Public Schools Erie Community Park - Erie, Colorado Civic Center Park - Centennial, Colorado Bear Creek Park Playground – Denver, Colorado Union Reservoir Master Plan Update – Longmont, Colorado Utah Park – Aurora and UDFCD Community Park at Three Springs, Master Plan – Durango, Colorado Loveland Youth Sports Park – Loveland, Colorado Whitetail Park - Lafayette, Colorado

<u>engineering, inc.</u>

16205 West 64th Avenue, Suite B3, Arvada, Colorado 80007 Phone 303-278-7297 / Fax 303-278-9009 / www.aeiconsulting.com

Don J. Ackerman, P.E., LEED AP

Education

Electrical Engineering, University of Colorado at Denver, 1981-1985 Architectural Engineering, University of Colorado at Boulder, 1979-1981

Professional Registrations

Registered Professional Engineer, State of Colorado, State of Utah and State of Wyoming USGBC Professional Accreditation, US Green Building Council LEED AP

Professional Affiliations

National Fire Protection Association The Council of Educational Facility Planners International Illumination Engineering Society

Awards

GSA Environmental Award – The United States Courthouse Annex in Denver, CO - Successfully incorporated over 120 innovative sustainable building features that will reduce the overall building electrical demand, maximize natural daylighting to building occupants, employs displacement ventilation technology along with evaporative cooling, and met the criteria for a 'Gold' rating with the Leadership in Energy and Environmental Design (LEED) rating system.

American Consulting Engineers Council Engineering Excellence Award, Confluence Park Improvements/Fabridam, Denver, Colorado

Articles

"Bond Voyage" December 1998 issue of Colorado Construction

Experience

Don established Ackerman Engineering, Inc., an electrical engineering firm, in 2000. He has over 35 years of experience with electrical system design. His design experience includes power distribution, emergency and standby power, lighting (interior, exterior, ballfield, arena, and event), life safety (including fire alarm, detection, and special suppression), lightning protection, grounding, voice/data communications, master clock, and security.

He has been responsible for project management of multi-discipline design teams (electrical and mechanical) as prime consultant and as sub-consultant, design, opinions of cost, bid assistance and administration, construction administration as well as all coordination with owners, clients, other disciplines, utility companies, vendors, contractors, and code authorities.

From 1990-2000 Don served in various capacities at the Lakewood office of The RMH Group, Inc., 1990-1994 as Lead Engineer, 1994-2000 Multi-Discipline Team Manager, 1998-2000 Vice President. When Don left RMH, they had 125 people in two offices, with projects throughout the Midwest and World.

Don served as Design Engineer for Garland D Cox Associates, Inc. from 1981-1990. Don was one of three engineers that remained with Garland up to his retirement.

