



CITY OF GRAND JUNCTION, COLORADO

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CONTRACT

This CONTRACT made and entered into this 1st day of November 2024 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 AECOM Technical Services, Inc. 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 Design Services for Juniata Dam Outlet Replacement Project – RFP-5484-24-DD.

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

Contract Documents: 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:

- The body of this Contract Agreement
- Solicitation Documents for the Project; **Design Services for Juniata Dam Outlet Replacement Project RFP-5484-24-DD**
- Notice of Award
- Contractor’s Response to the Solicitation
- Work Change Requests (directing that changed work be performed);
- Field Orders;
- Change Orders.

## ARTICLE 2

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

## ARTICLE 3

Contract Work: 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

Contract Time: Time is of the essence with respect to this Contract. The Contractor hereby agrees to commence Work under the Contract on or before the date specified in the Solicitation from the Owner, and to achieve Substantial Completion and Final Completion of the Work within the time or times specified in the Solicitation and Response.

## ARTICLE 5

Contract Price and Payment Procedures: The Contractor shall accept as full and complete compensation for the performance and completion of all of the Service/Work specified in the Contract Documents, **the lump sum amount of One Hundred, Twenty-Four Thousand, Three Hundred, Ninety-Eight and 00/100 Dollars (\$124,398.00) for Task 1 Design Phase Services.** 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 Services/Work to be performed, which Services/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.

Upon Final Completion of the Work under the Contract and before the Contractor shall receive final payment, the Owner shall publish at least twice in a newspaper of general circulation published in the County a notice that: 1. the Owner has accepted such Work as completed according to the Contract Documents; 2. the Contractor is entitled to final payment therefore; 3. Thirty (30) days after the first publication, specifying the exact date, the Owner shall pay the full balance due under the Contract; and 4. persons having claims for labor, materials, team hire, sustenance, provisions, provender, or other supplies used or consumed by the Contractor or a Sub-Contractor shall file a verified statement of the amount due and unpaid on account of such claim prior to the date specified for such payment.

Nothing herein shall be construed as relieving the Contractor and the Sureties on the Contractor's Bonds from any claim or claims for work or labor done or materials or supplies furnished in the execution of the Contract.

ARTICLE 6

Contract Binding: The Owner and the Contractor each bind 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 7

Severability: 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 affected 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.

The Contract is executed in two counterparts.

**CITY OF GRAND JUNCTION, COLORADO**

DocuSigned by:  
By: Duane Hoff Jr., Contract Administrator - City of Grand Junction 11/1/2024  
Duane Hoff, Jr. Contracts Administrator Date

**AECOM**

DocuSigned by:  
By: John Sikora 11/1/2024  
John Sikora, Principal-In-Charge, Vice President Date



**Request for Proposal  
RFP-5484-24-DD**

**Design Services for Juniata Dam Outlet Replacement**

**RESPONSES DUE:**

August 28, 2024, before 2:00 p.m. (Mountain Time)

**Accepting Electronic Responses Only**

**Submitted Through the**

**Rocky Mountain E-Purchasing System (RMEPS)**

<https://www.bidnetdirect.com/colorado/city-of-grand-junction>

(Purchasing Agent does not have access or control of the Vendor side of RMEPS. If the website or other problems arise during response submission, the Offeror MUST contact RMEPS to resolve the issue before the response deadline 800-835-4603)

**NOTE: All City solicitation openings will be held virtually,  
information is in Section 1.8.**

**Purchasing Agent:**

Dolly Daniels, Senior Buyer

[dollyd@gjcity.org](mailto:dollyd@gjcity.org)

970-256-4048

# **REQUEST FOR PROPOSAL**

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## REQUEST FOR PROPOSAL

### Section 1.0: Administrative Information & Conditions For Submittal

- 1.1. Americans with Disability Act (ADA) Compliance Mandate:** Following HB21-1110, all documents produced and submitted in response to this solicitation must adhere to the provisions outlined in §§24-85-101, C.R.S., and subsequent sections, as well as the Accessibility Standards for Individuals with a Disability, as established by the Office of Information Technology under section §24-85-103 (2.5), C.R.S. Additionally, all documents must align with the State of Colorado's technology standards related to accessibility, including Level A.A. conformity with the latest iteration of the Web Content Accessibility Guidelines (WCAG) as integrated within the State of Colorado's technology standards.
- 1.2. Required Review:** The Offeror is responsible for thoroughly reviewing all solicitation documentation to gain a comprehensive understanding of the scope, specifications, project requirements, and all associated rules, regulations, laws, conditions, instructions, and procurement policies related to the solicitation process and the Project or Work outlined in this Request for Proposal (RFP).
- 1.3. Issuing Office:** This RFP is issued by the City of Grand Junction, Colorado (hereafter "City"). The Purchasing Agent responsible for this procurement is:
- Dolly Daniels, Senior Buyer  
[dollyd@gjcity.org](mailto:dollyd@gjcity.org)
- Except for pre-bid or site visit meeting(s) all inquiries, concerns, clarifications, or communication about this solicitation, including process, specifications, and project scope, must be in writing to the Purchasing Agent. Other communication may result in disqualification.
- 1.4. Purpose:** The City of Grand Junction, in cooperation with the Colorado Dam Safety SEO, is seeking proposals from Engineering Firms for Design services for the replacement of the Juniata Dam outlet structure as outlined in Section 4.2..
- 1.5. The Owner:** The City is the "Owner" which will act by and through its authorized representative(s); "Owner" or "City" may be used interchangeably throughout this Solicitation.
- 1.6. Compliance:** All Offerors, by submitting a proposal, commit to adhere to all conditions, requirements, and instructions in this RFP as stated or implied herein or modified by addenda. Should the Owner omit anything necessary to the clear understanding of the requirements, or should it appear that various instructions conflict, the Offeror(s) shall secure instructions from the Purchasing Agent before the submittal deadline.
- 1.7. Procurement Process:** The 2023 version of the City [Procurement Policy](#) applies to this Solicitation.
- 1.8. Submission:** Please refer to section 5.0 of this Solicitation for the Preparation and Submittal Terms. Proposals must adhere to the formatting guidelines outlined in Section

5. Failure to comply with the specified format may result in proposals being deemed non-responsive. To participate in the solicitation opening, please use the provided information and link below:

**Solicitation Opening Design Services for Juniata Dam Outlet Replacement**

**Aug 28, 2024, 2:00 – 2:30 PM (America/Denver)**

Please join my meeting from your computer, tablet or smartphone.

<https://meet.goto.com/483114349>

You can also dial in using your phone.

Access Code: 483-114-349

United States: [+1 \(571\) 317-3122](tel:+15713173122)

Join from a video-conferencing room or system.

Meeting ID: 483-114-349

Dial in or type: 67.217.95.2 or [inroomlink.goto.com](https://inroomlink.goto.com)

Or dial directly: 483114349@67.217.95.2 or 67.217.95.2###483114349

Get the app now and be ready when your first meeting starts:

<https://meet.goto.com/install>

- 1.9. **Public Disclosure:** Under the Colorado Open Records Act (CORA), all information (except for items designated as classified, confidential, or proprietary) within any bid or proposal is subject to public disclosure. Upon the issuance of an award and executed contract, both the solicitation file and the bid(s) or proposal(s) contained therein are subject to an [Open Records Request](#). In instances of Solicitation or Project cancellation, public disclosure is contingent upon adherence to pertinent laws.
- 1.10. **Altering Proposals:** Any alteration(s) made before the opening date and time, must be initiated by the Offeror. Proposals may not be altered or amended after the submission deadline.
- 1.11. **Withdraw of Proposals:** 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 before award.
- 1.12. **Acceptance of Proposal Content:** The Proposal selected by the Owner, if any, shall become a part of the Contract Documents. Failure of the successful Offeror to accept the obligations in the Contract shall result in cancellation of the award and such Offeror shall be removed from future solicitations. When a Contract is executed by and between the Offeror and the City, the Offeror may be referred to as the “Consultant” or “Firm.”
- 1.13. **Addenda:** Official response to questions, interpretations, corrections, and changes to this solicitation or extensions to the opening/receipt date will be made by the Purchasing Agent by a written Addendum to the solicitation. The sole authority to authorize addenda shall be vested in the Purchasing Division. Addenda will be issued electronically through BidNet Direct Rocky Mountain E-Purchasing System website at <https://www.bidnetdirect.com/colorado/city-of-grand-jefferson>. An Offeror(s) must acknowledge receipt of all addenda in the proposal(s).
- 1.14. **Exceptions and Substitutions:** All proposals meeting the intent of this RFP will be considered for award. An Offeror taking exception to the specifications does so at the Offeror’s risk. The Owner reserves the right to accept or reject any or all substitutions or

alternatives. When offering substitutions and/or alternatives, the Offeror must state any exception(s) in the section to which the exception(s) pertain(s). Exception/substitution, if accepted, must meet, or exceed the stated intent and/or specification(s). The absence of stated exception(s) indicates that the Offeror has not taken exception(s), and if awarded a Contract, shall hold the Offeror responsible for performing in strict accordance with the Contract Documents.

- 1.15. Confidential Material:** All materials submitted in response to this RFP will ultimately become public records and shall be subject to inspection after the 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 identified with the words “**Confidential Disclosure**” and uploaded as a separate document may establish the information as confidential or proprietary. Any material the Offeror(s) intends to be treated as confidential or proprietary in nature must include a written explanation for the request. Consistent with the Colorado Open Records Act (CORA), the request shall be reviewed and decided by the Owner. If denied, the Offeror will have the opportunity to withdraw its proposal or to remove the confidential or proprietary information. Neither cost nor pricing information nor the entire proposal may be claimed as confidential or proprietary.
- 1.16. Response Material Ownership:** All proposals become the property of the Owner upon receipt and may only be returned to the Offeror at the Owner’s option. Selection or rejection of the proposal shall not affect this right. The Owner 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 in the materials marked as “Confidential Material.” Disqualification of a proposal does not eliminate the City’s right.
- 1.17. Minimal Standards for Responsible Prospective Offerors:** The Offeror must affirmatively demonstrate its responsibility. A prospective Offeror must meet the following minimum requirements:
- Be able to comply with the schedule.
  - Have a satisfactory record of performance of projects of similar scope and size.
  - Have a satisfactory record of integrity and ethics.
  - Be otherwise qualified and eligible to receive an award and enter into a Contract with the Owner.
- 1.18. Taxes:** The Owner is exempt from State, County, and Municipal Taxes; and Federal Excise Tax. Therefore, all fees shall not include taxes.
- 1.19. Federal Taxpayer Identification Certificate (W-9):** Successful Offerors new to conducting business with the City must furnish a completed standard “Federal Taxpayer Identification Certificate (W-9)” before the Contract is executed. Additionally, the City reserves the right to request a current W-9 from established business relationships as necessary.
- 1.20. Public Opening:** The opening of the Proposal(s) shall be conducted publicly in a virtual meeting following the proposal deadline. Offerors, representatives, and interested



persons may be present. Proposals shall be received and acknowledged to maintain transparency in the process. As per the nature of an RFP, only the company name(s) and the business location of the proposing Offeror(s) 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 which shall be acknowledged by the Offeror on the Letter of Interest or Cover Letter. The Offeror must be legally authorized to execute a Letter of Interest or Cover Letter together with contractual obligations. By submitting a proposal, the Offeror accepts all terms and conditions including compensation, as set forth herein/the Contract Documents. An Offeror shall identify clearly and thoroughly any variations between its proposal and the Owner's requirements. Failure to do so may be deemed a waiver of any right(s) to subsequently modify the term(s) of performance, except as specified in the RFP. 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 Owner reserves the right to permit the Offeror to withdraw nonconforming terms and conditions from its proposal before a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.
- 2.2. Execution, Correlation, Intent, and Interpretations:** The Contract Documents shall be signed by the Owner and the Firm. By executing the Contract, the Firm represents that it has familiarized itself with the conditions under which the Services are to be performed and correlated its observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by anyone, shall be as binding as if required by all. The Contract Documents intend to include all labor, materials, equipment, services, and other items necessary for the proper execution and completion of the Scope of Services as defined in the technical specifications contained herein.
- 2.3. Responsibility for those Performing the Services:** The Firm shall be responsible to the Owner for the acts and omissions of its employee(s) and all other person(s) performing any of the Services under the Contract.
- 2.4. Payment & Completion:** The Contract Sum is stated in the Contract and is the total amount payable by the Owner to the Firm for the performance of the Service(s) under the Contract. Upon receipt of written notice that the deliverable(s) is ready for final inspection and acceptance and upon receipt of the payment application, the Owner's Project Manager will promptly make such inspection and, when the Owner finds the Service(s) acceptable under the Contract and the Contract fully completed, the Owner shall make payment in the manner provided in the Contract Documents. Partial payments will be based upon estimates prepared by the Firm, of the value of Service(s) performed under the Contract Documents. The Service(s) performed by the Firm shall follow the generally accepted professional practices and the level of competency presently maintained by other practicing professional Firms in the same or similar type of Service(s) in the community. The Service(s) to be performed by the Firm hereunder shall be done in compliance with applicable laws, ordinances, rules, and regulations.

- 2.5. Changes in the Services:** The Owner, without invalidating the Contract, may order changes in the Services within the general scope of the Contract consisting of additions, deletions, or other revisions. All such changes in the Services shall be authorized by Change Order/Amendment and shall be executed under the applicable conditions of the Contract. A Change Order/Amendment is a written order to the Firm signed by the Contract Administrator issued after the execution of the Contract, authorizing a change in the Services or an adjustment in the Contract sum or the Contract time.
- 2.6. Minor Changes in the Services:** The Owner shall have the authority to order minor changes in the Services not involving an adjustment in the Contract Sum or an extension of the Contract Time and not inconsistent with the intent of the Contract.
- 2.7. Correction of Services:** All Services/Deliverables shall meet a standard comparable to the prevailing skill and expertise in the relevant market or industry. If any Services/Deliverables provided by the Firm are found by the Owner to be non-conforming to the terms of the Contract, the Firm shall promptly correct its work. The Firm shall bear all expenses associated with the correction of the rejected Services, including any additional Services required by the Owner as a result thereof, at no additional cost to the Owner.
- 2.8. Acceptance Not Waiver:** The Owner's acceptance or approval of Service(s) furnished hereunder shall not in any way relieve the Firm of its responsibility to maintain the high quality, integrity, and timeliness of its Services. The Owner's approval or acceptance of, or payment for, any Services shall not be construed as a future waiver of any right(s) under the Contract, or of any cause of action arising out of performance under this Contract.
- 2.9. Change Order/Amendment:** No oral statement of any person shall modify or otherwise change, or affect the terms, conditions, or specifications stated in the Contract. All amendments to the Contract shall be made in writing by the Contract Administrator.
- 2.10. Assignment:** The Firm shall not sell, assign, transfer, or convey the Contract resulting from this RFP, in whole or in part, without prior written approval from the Owner.
- 2.11. Compliance with Laws:** Proposals must comply with all Federal, State, County, and local laws governing the Service and the fulfillment of the Service(s) for and on behalf of the public. The Firm 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 as required by law.
- 2.12. Debarment/Suspension:** The Firm hereby certifies that the Firm is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any governmental department or agency.
- 2.13. Confidentiality:** All information disclosed by the Owner to the Offeror and/or the Firm for the Services to be performed or information that comes to the attention of the Firm during the course of performing such Services is to be kept strictly confidential.
- 2.14. Conflict of Interest:** No public official and/or Owner employee shall have interest in the Contract resulting from this RFP.

- 2.15. Cancellation of Solicitation:** Any solicitation may be canceled by the Owner or any solicitation response by an Agency may be rejected in whole or in part when it is in the best interest of the City.
- 2.16. Contract:** This solicitation, submitted documents, and any negotiations, when properly accepted by the Owner, shall constitute an enforceable agreement equally binding between the Owner and the Firm. The Contract represents the entire and integrated agreement between the City and the Firm and supersedes all prior negotiations, representations, or agreements, either written or oral, including the solicitation documents. The Contract may be amended or modified only with Amendment.
- 2.17. Cancellation of Solicitation:** Any solicitation may be canceled by the Owner or any solicitation response by a Firm may be rejected in whole or in part when it is in the best interest of the City.
- 2.18. Contract Termination:** The Contract shall remain in effect until any of the following occurs: (1) Contract expires; (2) completion of Services; (3) final 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.
- 2.19. Employment Discrimination:** During the performance of any Services, the Firm agrees to:
- 2.19.1.** 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 Firm. The Firm agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
  - 2.19.2.** In all solicitations or advertisements for employees placed by or on behalf of the Firm, shall state that such Firm is an Equal Opportunity Employer.
  - 2.19.3.** Notices, advertisements, and solicitations placed following federal law, rule, or regulation shall be deemed sufficient for meeting the requirements of this section.
- 2.20. Immigration Reform and Control Act of 1986 and Immigration Compliance:** The Firm certifies that it does not and will not during the performance of the Contract employ personnel without authorization services or otherwise violate the provisions of the Federal Immigration Reform and Control Act of 1986 and/or law regulating immigration compliance.
- 2.21. Ethics:** The Firm shall not accept or offer gifts or anything of value and/or enter into any business arrangement with any employee, official, or agent of the Owner.
- 2.22. Failure to Deliver:** In the event of failure of the Firm to perform under the Contract, the Owner, after due oral or written notice, may procure Services from other sources and hold the Firm responsible for any and all costs resulting in the purchase of additional Services

and materials necessary to perform the Service(s). This remedy shall be in addition to any other remedies that the Owner may have.

- 2.23. Failure to Enforce:** Failure by the Owner at any time to enforce the provisions of the Contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the Contract or any part thereof, or the right of the Owner to enforce any provision of the Contract at any time under the terms thereof.
- 2.24. Force Majeure:** The Firm shall not be held responsible for failure to perform the duties and responsibilities imposed by the Contract due to legal strikes, fires, riots, rebellions, and acts of God beyond the control of the Firm unless otherwise specified in the Contract.
- 2.25. Indemnification:** The Firm shall defend, indemnify, and save harmless the Owner 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 Firm, or of any Firm's agent, employee, subcontractor or supplier in the execution of, or performance under, the Contract which may result from proposal award. The Firm shall pay any judgment with costs which may be obtained by and/or against the Owner arising out of or under the performance or non-performance.
- 2.26. Independent Firm:** The Firm shall be legally considered an independent entity and neither the Firm nor its employees shall, under any circumstances, be considered servants, or agents of the Owner. The Owner shall be at no time legally responsible for any negligence or other wrongdoing by the Firm, its servants, or agents. The Owner shall not withhold from the Contract, payments to the Firm any federal or state unemployment taxes, federal or state income taxes, Social Security, or any other amounts for benefit(s) to the Firm. Further, the Owner shall not provide to the Firm any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Owner to its employees.
- 2.27. Ownership:** All documents, plans, concepts, and work prepared under the Contract, *etc.*, created by the Firm for this Service, shall become the property of the Owner. All information furnished by the Owner is and shall remain the Owner's property.
- 2.28. Patents/Copyrights:** The Firm agrees to indemnify and hold harmless the Owner from any claims, including but not limited to those related to patents, copyrights, trademarks, or any other form of intellectual property rights infringement. In no event shall the Owner be held liable to the Firm for any damages, awards, costs of defense, or other expenses arising from allegations of intellectual property infringement. Any agreement resulting from the response to this Solicitation shall be rendered null and void in the event of patent, copyright, or other intellectual property infringement. This includes but is not limited to the creation of derivative works based on the intellectual property of others.
- 2.29. Governing Law:** Any agreement as a result of responding to this RFP shall be deemed to have been made in, and shall be construed and interpreted by, the laws of the City of Grand Junction, Mesa County, Colorado. Any action arising out of or under this Solicitation and/or Contract shall be in District Court 21<sup>st</sup> Judicial District, Mesa County, Colorado.

- 2.30. Expenses:** Expenses incurred in the preparation, submission, and presentation of a proposal in response to this solicitation are the responsibility of the Firm and shall not be charged to the Owner.
- 2.31. Sovereign Immunity:** The Owner specifically reserves and asserts its rights under Colorado law and the cases applying and construing the same, including but not limited to the Colorado Governmental Immunity Act, 24-10-101 C.R.S *et seq.*
- 2.32. Public Funds/Non-Appropriation of Funds:** Funds for payment have been provided through the Owner’s budget approved by the City Council for the stated fiscal year only. Colorado law prohibits the obligation and expenditure of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated obligations that may arise past the end of the stated Owner’s fiscal year shall be subject to budget approval. The Contract will be subject to and provide a non-appropriation of funds clause under Colorado law.
- 2.33. Collusion Clause:** Each Offeror, by submitting a proposal, certifies that it is not involved in any collusive action(s) or activity(ies) that may violate applicable federal or state antitrust laws, rules, and/or regulations. Any proposal(s) found to have evidence or reasonable belief of collusion among the Offerors will be rejected. The Owner reserves the right, at its discretion, to accept future proposals for the same service(s) or work from participants identified in such collusion.
- 2.34. Gratuities:** The Firm 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 Firm breaches or violates this warranty, the Owner may, at its discretion, terminate the Contract without liability to the Owner.
- 2.35. Performance of the Contract:** The Owner reserves the right to enforce the performance of the Contract in any manner prescribed by law or equity as deemed by the Owner to be in the best interest of the Owner (in the event of breach or default) of resulting Contract award.
- 2.36. Default:** The Owner reserves the right to terminate the Contract in the event the Firm fails to meet delivery or completion schedules, or otherwise perform under the Contract. Breach of Contract or default authorizes the Owner to purchase like services elsewhere and charge the full cost to the defaulting Firm.
- 2.37. Multiple Offers:** If an Offeror submits more than one proposal, THE ALTERNATE PROPOSAL must be marked “Alternate PROPOSAL”. The Owner reserves the right to make the award in the best interest of the Owner.
- 2.38. Definitions:**
- 2.38.1.** “City” or “Owner” is the City of Grand Junction, Colorado, and is referred to throughout the Contract Documents.

- 2.38.2. “Consultant” or “Firm” is the person, organization, entity, or consultant identified as such in the proposal and throughout the Contract. The term encompasses the Consultant, Firm, or its authorized representative(s).
  - 2.38.3. “Deliverable” refers to any tangible or intangible work product, report, document, presentation, or other output produced by the Consultant as part of the Service(s). All deliverables must comply with the Americans with Disabilities Act (ADA) and HB21-1110, which mandates adherence to the provisions outlined in §§24-85-101, C.R.S., and subsequent sections, as well as the Accessibility Standards for Individuals with a Disability established by the Office of Information Technology under section §24-85-103(2.5), C.R.S. Additionally, all documents must align with the State of Colorado's technology standards related to accessibility, including Level A.A. conformity with the latest iteration of the Web Content Accessibility Guidelines (WCAG) as integrated within the State of Colorado's technology standards.
  - 2.38.4. “Key Personnel” designate the crucial individual(s) from the Firm essential for the successful execution and completion of the Project. The individual(s) will possess specialized skills, knowledge, or experience required for the Project’s specific scope of work.
  - 2.38.5. “Offeror” refers to the person(s) legally authorized by the Firm to make an offer and/or submit a response fee proposal in response to the RFP.
  - 2.38.6. “Project” or “Work” refers to the endeavor outlined in this solicitation to create the product, service, or deliverable.
  - 2.38.7. “Services” includes all labor, materials, equipment, and/or professional skills necessary to produce the Work and meet the requirements of the Contract Documents.
  - 2.38.8. “Subcontractor” is a person(s) or organization that has a direct contract with the Firm to perform any of the service(s). The term subcontractor is referred to throughout the Contract and means the subcontractor or its authorized representative.
- 2.39. **Public Disclosure Record:** If the Offeror knows its employee(s) or subcontractors having an immediate family relationship with an Owner employee or elected official, the Offeror must provide the Purchasing Agent with the name(s) of the individuals. The individuals are required to file a “Public Disclosure Record”, and/or a statement of financial interest, before conducting business with the Owner.

## Section 3.0: Insurance Requirements

- 3.1. **Insurance Requirements:** The selected Firm agrees to procure and maintain, at its own cost, policies of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by the Firm under the Contract. Such insurance shall be in addition to any other insurance requirements imposed by the Contract or by law. The Firm shall not be relieved of any liability, claims, demands, or other obligations assumed under

the Contract because it failed to procure or maintain insurance in sufficient amounts, durations, or types.

The Firm shall procure and maintain and, if applicable, shall cause any subcontractor of the Firm to procure and maintain insurance coverage listed below. Such coverage shall be procured and maintained with forms and insurers acceptable to the Owner. All coverage shall be continuously maintained to cover all liability, claims, demands, and other obligations assumed by the Firm under the Contract. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage. Minimum coverage limits shall be as indicated below unless specified otherwise in the Special Conditions:

(a) Worker Compensation: The Firm shall comply with all State of Colorado Regulations concerning Workers' Compensation and other statutory insurances as required.

(b) General Liability Insurance with minimum combined single limits of:

ONE MILLION DOLLARS (\$1,000,000) for each occurrence and

ONE MILLION DOLLARS (\$1,000,000) per job aggregate.

The policy shall apply to all premises, products, and completed operations. The policy shall include coverage for bodily injury, broad form property damage (including completed operations), personal injury (including coverage for contractual and employee acts), blanket contractual, products, and completed operations. The policy shall contain a severability of interest provision.

(c) Comprehensive Automobile Liability insurance with minimum combined single limits for bodily injury and property damage of not less than:

ONE MILLION DOLLARS (\$1,000,000) for each occurrence and

ONE MILLION DOLLARS (\$1,000,000) aggregate

Concerning each of the Firm's owned, hired, or non-owned vehicles assigned to be used in the performance of the Services/Work.

(d) Professional Liability & Errors and Omissions Insurance policy with a minimum of:

ONE MILLION DOLLARS (\$1,000,000) per claim

ONE MILLION DOLLARS (\$1,000,000) per job aggregate.

This policy shall provide coverage to protect the Firm against liability incurred as a result of the professional services performed as a result of responding to this Solicitation.

**3.2. Additional Insured Endorsement:** The policies required by paragraphs (b), (c), and (e) above shall be endorsed to include the City of Grand Junction, its elected and appointed Officials, employees, and volunteers as Additional Insureds. Every required policy above shall be primary insurance, and any insurance carried by the Owner, its officers, or its

employees, or carried by or provided through any insurance pool of the Owner, shall be excess and not contributory insurance to that provided by the Firm. The Firm shall be solely responsible for any deductible losses under any policy required above.

## Section 4.0: Scope of Services

**4.1. Background/General:** The City of Grand Junction owns and operates Juniata Reservoir, DAMID 420128. Juniata Reservoir is located in Mesa County, Colorado, Water Division 4 in section 31 of Township 12 South, Range 98 West of the 6<sup>th</sup> Principal Meridian, 38.967457° latitude, -108.285497° longitude. The reservoir has been enlarged twice, with this final enlargement being completed in 1979.

The crest elevation of the reservoir site is approximately 5,760 feet AMSL. The structural height of the dam is 98-ft with a normal storage capacity of 7,281 acre-feet of water behind an earthen embankment. The reservoir serves as the City's terminal reservoir and primary water storage for domestic use.

The Juniata Reservoir is classified as a high hazard jurisdictional dam as defined by Colorado Dam Safety of the Division of Water Resources. Currently, the dam is rated as "Satisfactory" and has no storage restriction. The dam has a concrete emergency spillway structure located on the north side of the embankment (right end of dam) that discharges into an earth-lined open channel. The spillway width is 30 feet and has a capacity of 1000 cfs. Juniata Reservoir is an off-channel reservoir that is filled with water diverted from Kannah Creek as well as the North Fork of Kannah Creek, both water sources are piped to the reservoir. Juniata Reservoir is typically at full capacity by April 1<sup>st</sup> in a normal precipitation year. Summer demands typically cause the reservoir storage to drop to around 5200 af by October 1<sup>st</sup>.

**Second Enlargement (Current) Design Specifications:** Based on Armstrong Engineers' 1978 construction drawings, which are included within, the reservoir's outlet works is controlled by two 12" hydraulically operated gate valves. These two gate valves were replaced in 2021 along with a new trash rack and the hydraulic lines operating the valves. Each valve is attached to a 12" I.D. ductile iron pipe within the trash-rack structure with 2½" air vent pipes at each valve. Both 12" ductile iron pipes join together into one 24" I.D. RCCP outlet pipe joined together by a 24" x 12" x 12" ductile iron wye.

Juniata Reservoir has a mid-level and low-level outlet; according to the 1978 drawings, they are identical. The air vent pipes run under the riprap base course to the crest of the dam and daylight at the valve control house, which is located on the crest of the dam

**Summary of Historical Construction Efforts:** (entire Memo from SEO included in Attachments)

The dam was constructed circa 1940 and subsequently enlarged in 1954 and 1978. Additional construction affecting the outlet occurred in 1987, followed by minor projects in 2002, 2019 and 2021. The low level outlet is known to be a bifurcated system, equipped with two identical upstream gates.



Recent attempts to inspect the low level outlet have revealed a leak into the conduit, prohibiting rover entry and meaningful video capture. The source of the leak is unknown but it is posited to be originating from the upstream end.

Below is a summary of construction efforts as they pertain to the low level outlet:

1. **1940** original construction (no C#, no construction documents) – low level outlet comprised of 10-inch dia. VCP
2. **1954** first raise (C-0661) – VCP plugged, abandoned, and replaced with 24-inch dia. CMP (asbestos bonded). The plans show the control house at the downstream toe.
3. **1978** second raise (C-0661A) – pipe was lined with cement mortar (reducing ID to 22-inch) and extended on upstream and downstream ends with 24-inch dia. bell and spigot RCP. Control moves to the crest.
4. **1986** internal inspection – conducted by City of Grand Junction revealed cracking and deterioration of upstream extension, resulting in a recommendation to slipline the pipe with steel or HDPE
5. **1987** North Fork diversion and outlet lining (C-0661B, completion report only addresses diversion, as-constructed plans show lining) – low and mid-level outlets are lined with HDPE. Existing concrete intake structure to remain in place
6. **1990** correspondence discusses known leak from the low level outlet and leakage from the hydraulic system that controls the low level gates. Installing a butterfly valve on the downstream end is proposed, acknowledging the measure as being temporary until the upstream issues can be investigated further and addressed.
7. **2002** bypass and outlet reconfiguration above stilling basin(C-0661C) – work is performed primarily on the downstream end and/or specific to the mid-level outlet
8. **2019** new trash rack installed under [2007] Rule 12 (Maintenance)
9. **2021** outlet valves replaced under [2020] Rule 11 (Maintenance) with 12-inch VSI Waterworks gates equipped with hydraulic actuators – divers observe valves open & close.
10. **2022** although unrelated to any construction on the dam itself, a liquid oxygen diffuser (LOX) system was installed at the deepest portions of the reservoir during the summer of 2022 and this infrastructure must be protected during construction.

**Recent Investigative Activity:** Outlet valves were replaced in 2021 with the intent to stem the leakage into the outlet conduit and allow for a video inspection. This ultimately proved to not be the solution. A team of divers were then retained to verify that valves were installed correctly and to further investigate the source of the leak. Testing done during January, 2023, suggested the airvent(s) may be the source as air bubbles were noted out in the reservoir after closing the downstream butterfly valve after a dive. To test this hypothesis, the airvent penetrations into the outlet conduit were later plugged and a blind flange with a vent run to the surface was installed. While the airvent pipes were proven to have several holes, too much water was still running out of the outlet pipe to allow for a video inspection, even with the airvent penetrations plugged. Finally, the source of the leak was identified as coming from the left wye in the first 8 feet of pipe after utilizing the airvent as a camera port for a push camera.

During the Spring of 2024, the City retained an Engineering Firm to conduct an Alternatives Review for Repair Options (attached) and using this information, the City has decided the

best course of action is to drain Juniata Reservoir and make the necessary repairs to this outlet structure on all portions of the conduit that are upstream of the HDPE liner.

**4.2. Scope of Services:** The City of Grand Junction, in cooperation with the Colorado Dam Safety SEO, is seeking proposals from Engineering Firms for Design services for the replacement of the Juniata Dam outlet structure. The following task elements are:

- 1) Completion of demolition, design and construction drawings for the following:
  - a. Demolition of existing concrete structure, outlet valves, 12" 45 degree elbows immediately downstream of the headwall, and the 24' x 12" x 12" wye at both the mid-level and low-level outlet.
  - b. Design new upstream trash rack, outlet works, valving, air vents, and piping so as to eliminate the portion of the low-level outlet piping identified as having a leak.
  - c. Provide a design for the mid-level outlet piping to replace in a similar configuration as the low-level outlet.
  - d. Develop an Engineer's Opinion of Probable Cost (OPC)
  - e. Stormwater Management Plan

- 2) Complete design requirements in support of the following desired changes:

The City desires to change the configuration of the outlet piping on the upstream side of the dam by removing the two 12" hydraulically operated gate valves and the dual 12" pipes, and replacing this dual pipe configuration with one steel pipe and install a new manually operated outlet valve. New pipe should be sized so as to not diminish the current modelled flow capacity (attached) of the 14.7" ID low-level outlet pipe. The City desires to utilize the existing trash rack and new hydraulic lines operating the gate valves, on the low level, if possible. Consultant will be required to evaluate the compatibility of this infrastructure with the new design elements.

As a result, the City of Grand Junction is requesting proposals from qualified applicants to complete design, specifications, and permitting requirements for construction in 2027.

**Consultant Responsibilities:** The scope of work shall include the following:

**Task 1 – Complete design requirements for the following:**

- a. Demolition of existing concrete structure, outlet valves, 12" 45 degree elbows immediately downstream of the headwall, and the 24' x 12" x 12" wye at both the mid and low-level outlets.
- b. Design new upstream trash rack, outlet works, valving, air vents, and piping so as to eliminate the portion of the outlet piping identified as having a leak on the low-level. Provide a design for replacement of the mid-level outlet that is consistent with that of the low-level.
- c. Develop an Engineer's Opinion of Probable Cost (OPC)
- d. Stormwater Management Plan.

- e. Assist with reviewing results of the mid-level outlet pip inspection conducted after drawdown to determine if any additional rehabilitation is necessary.
- Provide budgetary construction cost estimates at the 30% and 90% complete stages.
- Assist with planning anticipated drawdown and provide anticipated construction schedule.

### **Task Two: Construction Phase Services**

**Bidding Phase:** After Completion of the plans, the City will bid the project out, however the consultant shall be available for technical questions and provide to the City appropriate addenda. Consultant shall participate in the pre-bid meeting (if required), however presence at the bid opening is not required.

**Construction Phase:** Firm shall provide construction management support and inspection services for the construction phase of the project. Additionally, consultant shall develop a fill plan in accordance with the SEO's guidelines as well as be responsible for submitting the Engineer's Final Completion Report to the SEO.

### **4.3. Special Conditions & Provisions:**

- 4.3.1. Price/Fees:** Pricing shall be established as all-inclusive, encompassing all aspects of the project as outlined in the solicitation. This includes but is not limited to labor, materials, equipment, travel, design, drawings, engineering work, shipping/freight, licenses, permits, fees, etc., and any other expenses necessary for the successful completion of the project.

The Consultant/Firm is required to submit a not-to-exceed cost utilizing the attached form in Section 7.0., Solicitation Response Form. Additionally, a comprehensive breakdown of costs and rate sheets applicable to providing services for the Project must be included.

The Owner shall not incur or be responsible for any additional costs beyond those outlined in the proposal, including but not limited to taxes, shipping charges, insurance, interest, penalties, termination payments, attorney fees, liquidated damages, etc.

All fees/pricing will be subject to negotiation by the Owner.

- 4.3.2 Laws, Codes, Rules, and Regulations:** All designs shall be in accordance with applicable State and Federal regulations, accepted standard practices, and the State of Colorado's Rules and Regulations for Dam Safety and Dam Construction (latest version).

Consultant is responsible for identifying, contacting and acquiring all necessary U.S. Army Corps, U.S. Forest Service, and State Engineer's Office permits as determined for the scope of dam improvements.

Consultant is responsible for any and all wetlands boundary survey reports necessary for the U.S. Army Corp Wetlands delineation mapping.

**4.3.3. Contract:** A binding Contract shall consist of (1) the RFP and any Addendum(s) thereto, (2) the Offeror's response (Proposal) to the RFP, (3) any clarification of the Proposal, if applicable, and (4) the City's Purchasing Department's acceptance of the proposal through a "Notice of Award." All Exhibits and Attachments within the RFP are incorporated into the contract by reference.

A. The Contract expresses the complete agreement of the parties and, performance shall be governed solely by the specifications and requirements contained therein and other laws as applicable.

B. Any change to the Contract, whether by modification and/or supplementation, must be accomplished by a formal Contract Amendment signed and approved by and between the duly authorized representative of the Offeror and the Contract Administrator or by a modified Purchase Order/Contract before the effective date of such modification. The Offeror expressly and explicitly understands and agrees that no other method and/or no other document, including acts and oral communications by or from any person, shall be used or construed as an amendment or modification to the Contract.

**4.3.4 Project Schedule:** Offeror shall include a project schedule, delineating the calendar of events proposed to meet the anticipated completion date of January 31, 2025

**4.3.5 Time of Completion:** Completion of the Project shall be no later than January 31, 2025.

**4.3.6. Project Manager/Administrator:** Will promptly make decisions concerning services or work proposed or carried out by the Firm within the defined scope. The Project Manager holds the responsibility for approving and accepting all services and work performed under the Contract. Throughout the Contract period, all notices, letters, submittals, and other communications intended for the City should be directed to:

City of Grand Junction  
Mark Ritterbush, Water Services Manager - Utilities  
333 West Ave. Bldg E  
Grand Junction, CO 81501

**4.3.7. Contract Administrator:** The designated Contract Administrator for the City is Duane Hoff, Jr., CPPB. Any inquiries, issues, change orders, amendments, or communications about the contract throughout the project phase should be directed to:

Duane Hoff, Jr., Contract Administrator  
[duaneh@gjcity.org](mailto:duaneh@gjcity.org)  
(970) 244-1545

#### 4.4. Attachments – Click on Links

[Juniata Reservoir Red Lines](#)

[Juniata Reservoir Engineer Inspection Report](#)

[Juniata Pipe Flowrates - Ayres Inspection Report](#)

[Juniata LOX As Built Drawings](#)

[Juniata Low Level Outlet File Review Memo](#)

[Final Engineer Stamped Drawings Juniata Trash Racks](#)

[Ayres Alternatives Review for Repair Options Memo](#)

[1978 Low Level Outlet Drawings - Armstrong Sheet](#)

#### 4.5. RFP Tentative Time Schedule:

- |                                                  |                                    |
|--------------------------------------------------|------------------------------------|
| • Request for Proposal available                 | August 6, 2024                     |
| • Inquiry deadline, no questions after this date | August 16, 2024                    |
| • Final Addendum Posted                          | August 20, 2024                    |
| • Submittal deadline for proposals               | August 28, 2024 prior to 2:00 p.m. |
| • Owner evaluation of proposals                  | August 29 – Sept 4, 2024           |
| • Interviews, <i>if required</i>                 | September 13, 2024                 |
| • Final Selection                                | September 16, 2024                 |
| • Contract execution                             | September 18, 2024                 |
| • Project Completion                             | January 31, 2025                   |

#### 4.6. Questions Regarding Scope of Services:

Dolly Daniels, Senior Buyer  
[dollyd@gjcity.org](mailto:dollyd@gjcity.org)

## Section 5.0: Preparation and Submittal of Proposals

**Submission:** Each proposal shall be submitted in electronic format only, and only through BidNet Direct Rocky Mountain E-Purchasing System website link: (<https://www.bidnetdirect.com/colorado/city-of-grand-jection>). This site offers both “free” and “paying” registration options which allow for full access to the City’s documents and electronic submission of proposals. (Note: “free” registration may take up to 24 hours to process. Please Plan accordingly.) Please view the “**Electronic Vendor Registration Guide**” at <https://www.gjcity.org/501/Purchasing-Bids> for details. (Purchasing Agent does not have access or control of the Vendor side of RMEPS. If there are website or other problems that arise during response submission, the Offeror **MUST** contact RMEPS to resolve the issue before the response deadline **800-835-4603**).

To ensure accurate comparison and evaluation, proposals must adhere to the format outlined in Section 5.0 “Preparation and Submittal of Proposals.” The uploaded response to this RFP must be a single PDF document containing all necessary information. Offerors must demonstrate interest in this Project, highlight relevant experience, and address its capability to fulfill the Scope of Service(s) stated herein. Proposals must follow the specified formatting from **A** to **G** as required by the Owner for proper comparison and evaluation:

- A. Cover Letter:** A cover letter shall be provided that explains the Offeror’s interest in the Project. The letter shall contain the name, address, phone number, and email of the person designated as the Firm’s principal contact person. Furthermore, it shall identify individual(s) authorized to make presentations and commitments on behalf of the Firm. The cover letter shall bear the signature of the person having the proper authority to make formal commitments on behalf of the Firm, stating the individual(s) role and signature authority. By submitting a response to this Solicitation, the Offeror agrees to all requirements herein.
- B. Qualifications/Experience/Credentials/Capacity:** Offerors must present its qualifications, relevant experience, credentials, and the Firm’s capacity for consideration as a City contract provider. The proposal should feature resumes of Key Personnel, highlighting qualifications, experience, and office locations. Emphasis should be placed on a proven track record in managing similar projects, meeting deadlines, and adhering to budgetary constraints. The project team’s ability to provide highly experienced and qualified key personnel to effectively address the demands of the project.
- C. Strategy and Implementation Plan:** The Offeror is expected to provide a detailed description of its interpretation of the Owner’s objectives outlined in this RFP. Describe the proposed strategy or plan for achieving the objectives of this RFP. The Offeror has the flexibility to use a written narrative or any other appropriate format to demonstrate its capability to fulfill the Scope of Services. The narrative should present a logical progression of tasks and efforts, commencing with the initial steps or tasks and extending to a complete description of all proposed tasks, demonstrating how the RFP objectives will be accomplished. Specifically, a detailed project approach, timeline, and budget. describe program evaluation activities and how those will be used to address partner goals around carshare and equity. Additionally, include a **schedule** for completion of the Offeror’s implementation for the **Project** and an estimate of time commitments from the Owner personnel.

- D. References:** Provide a minimum of three (3) references capable of attesting to the Firm's experience in relevant projects similar scope and size outlined in 4.2. Scope of Services. Each reference should include a summary of the project completed, including the client's name, address, point of contact person, telephone number, and email address. Additionally, include the assigned Key Personnel and its role in the project, project dates, a detailed project description, the original project budget, the final project cost, an explanation of variation from the original budget to the final project cost, *etc.*
- E. Solicitation Response Form:** The Offeror shall complete and submit the attached Solicitation Response Form with its Proposal.
- F. Fee Proposal:** Provide the fee proposal, as stated in Section 4.3.1. Pricing, using the Solicitation Response Form found in Section 7.0.
- G. Additional Data (optional):** Furnish any additional pertinent information that is directly related to the qualifications and capabilities of the Consultant/Firm. This may include details about specific expertise, innovative technologies, approaches, or any other information that will enhance the evaluation of the Firm(s) suitability to provide the services outlined in this RFP.

**Section 6.0. Evaluation Criteria and Factors**

- 6.1. Overview:** An evaluation committee, appointed by the City, will assess all qualified responses. Proposal(s) will be selected based on the ability to demonstrate the necessary expertise and capability essential for delivering the scope of services. Additionally, the committee will consider the integrity and reliability of the proposals, to ensure the highest degree of confidence in full faith and performance.
- 6.2. Intent:** Only Respondents who meet the qualification criteria will be considered. Therefore, the submitted proposal must indicate the Offeror’s ability to provide the services described herein.
- 6.3. Evaluation Summary:** Proposals will be prioritized based on the criteria categories and values described below. The City reserves the right to reject any portions of proposals and take into consideration past performance of previous awards and contracts with the Owner of any Offeror, or service provider in determining a final award(s), if any.

***Evaluation Criteria and Weighted Values shall be worth ninety (90) %***

- **Responsiveness of Submittal to the RFP ten (10) %**  
Evaluation of how well the proposal addresses and conforms to all aspects of the RFP, including completeness, accuracy, and adherence to preparation and submittal instructions.
- **Understanding of the Project and Objectives twenty (30) %**  
Assessment of the Offeror’s demonstrated understanding of the City’s specific goals and objectives for the project, including its ability to articulate how its proposed approach aligns with the objectives.
- **Qualifications, Experience, and Capability thirty (30) %**  
Evaluation of the Offeror’s past performance and expertise in completing similar projects, including relevant certifications, qualifications, and skill sets as outlined in Section 5.0.
- **Strategy & Implementation twenty (20) %**  
The Offeror has provided a clear interpretation of the City’s objectives regarding the required Services, and a fully comprehensive plan to achieve successful completion. See Section 5.0. Item C – Strategy and Implementation Plan for details.

***The following Criteria shall be worth ten (10) %***

- **Fees ten (10) %**

- 6.4. Shortlist Offerors:** The City expects to follow the process below to shortlist proposals. The City reserves the right to modify this process if it is in the best interest of the City.
  - All proposals will be reviewed for compliance with mandatory requirements as outlined in this RFP. Proposals deemed non-responsive will be eliminated from



consideration. The Purchasing Agent may contact Offerors for clarification of its proposal.

- Committee members will independently evaluate and score proposals and submit scores back to the Purchasing Agent. Scores will be entered into an Evaluation Matrix to assist in analyzing and prioritizing the responsive Proposals.

- 6.5. Negotiations:** The City reserves the right to negotiate with the highest-rated Offeror(s) and will not engage in negotiations with lower-rated Offeror(s) unless negotiations with higher-rated Offeror(s) have been unsuccessful and are subsequently terminated. The selected Agency may submit revisions to its proposal, including but not limited to adjustments to price, best and final offer, and technical aspects, because of negotiations, if deemed in the best interest of the City.
- 6.6. Interview(s):** The Owner reserves the right to invite the highest ranked Offeror(s) to participate in a virtual, or in-person interview(s) if needed. Shortlisted Offeror(s) will be notified of the interview process, including format, duration, and location, following the RFP shortlist selection process.
- 6.7. Award:** Offeror(s) shall be ranked based on the criteria listed in Section 6.3. The City reserves the right to consider all of the information submitted and/or presentations, if required, in selecting the Project Consultant/Firm.

**Section 7.0. Solicitation Response Form**

**RFP-5484-24-DD “Design Services for Juniata Dam Outlet Replacement”**  
*Offeror must submit the entire Form completed, dated, and signed.*

1) **Total Cost for Services as Described, Not-to-Exceed:** \$ \_\_\_\_\_

**Total Not-to-Exceed Cost Written:**

\_\_\_\_\_ **dollars.**

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*The Owner reserves the right to accept any portion of the services to be performed at its discretion.*

---

The undersigned has thoroughly examined the entire Request for Proposal and therefore submits the proposal and schedule of fees and services attached hereto. This Proposal is firm and irrevocable for sixty (60) days after the time and date set for receipt of proposals.

The undersigned Offeror accepts and agrees, under the *terms and conditions contained in this Request for Proposal*, that it is prepared, ready, and willing to perform and provide services as described in the attached Proposal if the same is accepted by the City.

The undersigned Offeror acknowledges the right of the City to reject any Proposal(s) submitted and to waive any informality(ies) and irregularity(ies) therein in the City’s sole discretion.

By submission of the Proposal, each Offeror certifies, and in the case of a joint Proposal each party thereto certifies as to its capability, that the Offer has been arrived at independently, without collusion, consultation, communication, or agreement as to any matter relating to the Proposal with any other Offeror or with any competitor.

Prices in the Proposal have not knowingly been disclosed with another provider and will not be before award.

- Prices in the Proposal have been arrived at independently, without consultation, communication, or agreement to restrict competition.
- No attempt has been made nor will be to induce any other person or Consultant to submit a proposal to restrict competition.
- The person(s) signing the Proposal certifies that it is a legal agent of the Consultant/Firm, authorized to represent the Firm, and is legally responsible for the offer concerning 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 Owner if the invoice is paid within \_\_\_\_\_ days after the receipt of the invoice.

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

**State number of Addenda received:** \_\_\_\_\_

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

Please provide a letter signed by the entity Owner or a Statement of Authority delegating authority to act on behalf of the Offeror. Before executing a Contract, the Offeror must also furnish a current completed W-9 form.

\_\_\_\_\_  
Company Name – (Typed or Printed)

\_\_\_\_\_  
Authorized Agent, Title – (Typed or Printed)

\_\_\_\_\_  
Authorized Agent Signature

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Address of Offeror

\_\_\_\_\_  
Email Address of Agent

\_\_\_\_\_  
City, State, and Zip Code

\_\_\_\_\_  
Date

The undersigned Offeror proposes to subcontract the following portion of Services:

<u>Name &amp; address of Subcontractor (Name, City, State)</u>	<u>Description of Service(s) to be performed</u>	<u>Est. Value of Service(s)</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

The undersigned Offeror acknowledges the right of the City to reject any and all Offers submitted and to waive informalities and irregularities therein in the City's sole discretion.

By submission of the Proposal, each Offeror certifies, and in the case of a joint Proposal each party thereto certifies as to its own organization, that this Offer has been arrived at independently, without collusion, consultation, communication, or agreement as to any matter relating to this Proposal with any other Offeror or with any competitor.



Purchasing Division

## ADDENDUM NO. 1

**DATE:** August 16, 2024  
**FROM:** City of Grand Junction Purchasing Division  
**TO:** All Offerors  
**RE:** Design Services for Juniata Dam Outlet Replacement RFP-5484-24-DD

Offerors 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 clarifications:

1. **Question:** The description of the desired changes on page 15 states, "The City desires to change the configuration of the outlet piping on the upstream side of the dam by removing the two 12" hydraulically operated gate valves and the dual 12" pipes, and replacing this dual pipe configuration with one steel pipe and install a new manually operated outlet valve...The City desires to utilize the existing trash rack and new hydraulic lines operating the gate valves, on the low level, if possible." Please confirm that hydraulically actuated valves operated on site are desired and not manually operated valves.

**Answer:** This is a hydraulic system that is operated manually, meaning the operator needs to go in the valve building at the top of the dam and operate the hydraulic valves to either open or close them. This hydraulic system was recently replaced, and the City would rather not redo the valve operating system for this new valve.

2. **Question:** Please confirm the scope of the stormwater management plan is limited to what is necessary to support the construction of the modifications to the outlets.

**Answer:** That is correct.

The original solicitation for the project noted above is amended as noted. All other conditions of the subject remain the same.

Respectfully,

A handwritten signature in blue ink that reads "Dolly Daniels".

Dolly Daniels, Senior Buyer  
City of Grand Junction, Colorado



**NOTICE OF AWARD**

Date: November 1<sup>st</sup>, 2024  
Company: AECOM Technical Services  
Project: Design Services for Juniata Dam Outlet Replacement RFP-5484-24-DD

---

You have been awarded the City of Grand Junction Contract for the Design Services for Juniata Dam Outlet Replacement (RFP-5484-24-DD) for a lump sum fee of **\$124,398.00**.

Please notify Mark Ritterbush, Water Services Manager at 970-256-4185 or [markri@gjcity.org](mailto:markri@gjcity.org) for project scheduling, and return to the City Purchasing Division an acknowledged copy of this Notice of Award, signed Contract and Insurance Certificate, as per the contract documents.

CITY OF GRAND JUNCTION, COLORADO

DocuSigned by:  
*Duane Hoff Jr., Contract Administrator - City of Grand Junction*  
9F789E7D59F149C...  
Duane Hoff, Jr. Contracts Administrator

---

**SUPPLIER ACKNOWLEDGEMENT**

Receipt of this Notice to Award is hereby acknowledged:

Company: AECOM Technical Services, Inc

By: *John Sikora*  
9E4394F137BB4CF...

Title: Vice President

Date: 11/1/2024

# Design Services for Juniata Dam Outlet Replacement

## **Proposal**

City of Grand Junction, Colorado

RFP-5484-24-DD

August 28, 2024

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# Cover Letter



City of Grand Junction Colorado  
Design Services for Juniata Dam Outlet Replacement

# A | Cover Letter

August 28, 2024

City of Grand Junction  
Attn: Mark Ritterbush, Water Services Manager – Utilities  
333 West Avenue, Building E  
Grand Junction, CO 81501

## RE: Design Services for Juniata Dam Outlet Replacement Project

Dear Mr. Ritterbush:

AECOM Technical Services, Inc. (AECOM) is pleased to submit the enclosed proposal to the City of Grand Junction (City) in response to the request for proposal issued for the Design Services for Juniata Dam Outlet Replacement Project.

Juniata Dam is a valuable water resource to the City and AECOM recognizes that this storage right and reservoir is important to providing domestic water supply to the Grand Junction area. AECOM brings seasoned dam safety professionals with decades of experience with Colorado West Slope dams. We have rehabilitated a wide variety of outlet configurations, knowing what works and how to design outlets efficiently. Our engineers have a working relationship with the State Engineer's Office, Dam Safety Branch (SEO) that is unparalleled in the engineering industry, enabling an efficient evaluation process.

With **local Colorado offices in Glenwood Springs, Denver, Fort Collins, and Colorado Springs**, AECOM offers extensive engineering and environmental expertise, and AECOM and our predecessor firms have been providing services to Colorado for over 65 years. **This project will be managed and primarily completed out of our closest office, Glenwood Springs, CO, which has provided similar services for over 18 years supporting our Western Slope clients.** Our Project Team in Glenwood Springs consists of structural, geotechnical and water resources engineers.

We can offer the City a wide breadth of dam safety experience and a range of skills from a local west slope office. Currently, our Glenwood Springs dam safety team is working on Long Lake Dam and Reservoir for the Crested Butte Water and Sanitation District. We are designing a pump and pipeline system to take water from the conduit of Meridian Lake Park No. 1 Dam and pump up to Long Lake to increase the yield of Long Lake. For Nichols Dam for the City of Santa Fe, we are in construction of modifying the outlet works from inlet to outlet control so we can install a hydropower unit on the dam. The design also includes upgrades to the hydraulics to prevent cavitation on the existing gates and valves during high flows.



**We have the right experience.** AECOM's experience with dam and water resources projects includes involvement in many significant water resources projects in Colorado and the Mountain West. As you will see from our proposal, we are currently in various stages of development in projects on both sides of the Continental Divide, with projects and clients both large and small. Much of our water resource business is with long-term clients, reflecting the respect and working relationship we have developed over decades of providing services to our clients.



**We understand local challenges and opportunities.** AECOM thoroughly understands the issues associated with the outlet replacement at Juniata Dam. Our expertise extends to challenges such as a short construction schedule and the potential for unforeseen site conditions. For projects like Juniata, where the site conditions may differ from those anticipated during the design, we consider/evaluate the potential changes and incorporate them into our design process. We strive to provide flexible designs that are easily adopted to accommodate unforeseen changes. **AECOM has led clients through complete reservoir permitting activities and can assist in necessary local, state, and federal permitting processes.**

City of Grand Junction Colorado  
Design Services for Juniata Dam Outlet Replacement

Our team has a proven history of **successfully managing and dealing with unforeseen site conditions** during dam construction projects. One example is the Ziegler Reservoir construction where a world-class paleontological site was discovered during the foundation excavation. The AECOM Glenwood team collaborated with the client, contractor, and the archaeological team to develop innovative solutions to proceed with the project with minimal impact on overall cost and schedule. Careful planning, cooperation, and teamwork allowed all parties to work in parallel, resulting in a project completion within 2 weeks of the original date.

Upon award and insights from our team, AECOM will develop a technically sound and cost-effective approach for designing the City's outlet modifications. The team will use the current project features, such as the hydraulic actuator lines and trash rack, and integrate them into the design wherever possible.

AECOM has completed dozens of dam projects in Colorado. Some outlet modification designs the AECOM Team has recently completed include feature projects *Nichols Dam Rehabilitation, Ziegler Reservoir Enlargement, Woodmore Dam Outlet Replacement, Rito Hondo Dam Modification, and Long Lake Dam and Reservoir*. A more comprehensive list of similar projects is shown in Exhibits 1 and Exhibit 2.

AECOM looks forward to a positive response and will be honored to support the City's valuable Dams and Reservoirs Program. Mr. John Sikora, is authorized to enter into contracts on behalf of AECOM. Please direct any questions or comments to John Sikora.

Sincerely,

**AECOM Technical Services, Inc.**



Craig Helm, PE  
Project Manager  
Tel. (970) 379-7393  
craig.helm@aecom.com



John Sikora, PE, D. WRE, CFM  
Principal-In-Charge, Vice President  
804 Colorado Avenue, Glenwood Springs, CO  
Tel. (970) 948-3424  
john.sikora@aecom.com



# B

Qualifications/Experience/  
Credentials/Capacity

# B | Qualifications/Experience/ Credentials/Capacity

## AECOM Qualifications

*AECOM is a full-service multi-disciplinary planning, engineering, design, and construction management firm. AECOM is ideally set up to assemble multi-disciplinary teams of program controls, engineers, and permitting specialists with experience providing environmental compliance and engineering solutions for this Project.*

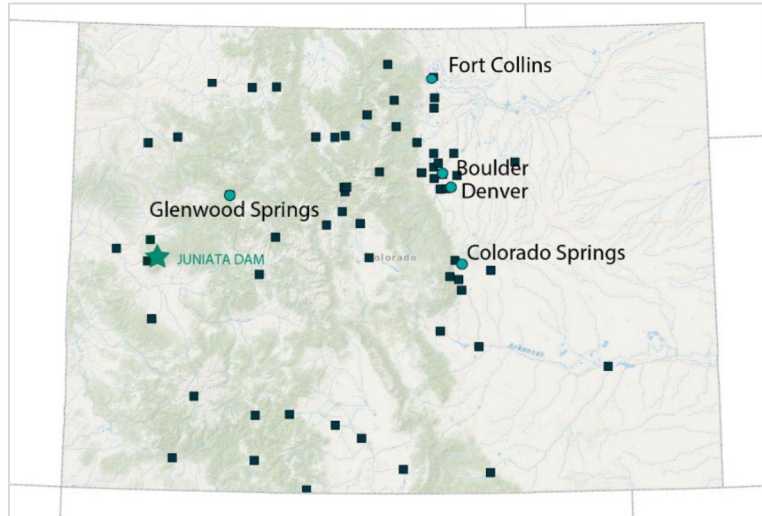
At AECOM, the world’s premier infrastructure consulting firm, we partner with clients to solve the most complex challenges and build legacies for generations to come. AECOM has a 100+ year history of providing professional consulting services with over 7,100 staff throughout our West region, enhancing our team’s ability to respond and deliver virtually any aspect of water resources projects from conception through construction. Our local team includes numerous technical professionals with extensive qualifications working on a variety of relevant projects together.



**With local offices in Glenwood Springs, Denver, Colorado Springs, and Fort Collins, our Colorado team brings extensive dam and reservoir engineering, environmental, and construction expertise.**

The City will have access to a local team with regional and global expertise. Our knowledge and experience across our network of experts combined with our in-depth local knowledge, allows us to help clients solve their most complex challenges. The experience and lessons learned by our team members assist us in executing and successfully delivering a quality and forward-thinking project in cooperation with the City, to achieve your goals and objectives.

**Exhibit 1. AECOM Colorado Office Locations**



**We have assembled an experienced team and have committed some of our most experienced resources from our Colorado Western Slope and Front Range offices.**

## Relevant Project Experience

AECOM has a strong history of performing siting, planning, conceptualization, design, cost estimating, risk assessment, and construction services for similar projects.

On the following page, we highlight some of the similar project experience of our team in **Exhibit 2**. Additionally, more information regarding three of these projects, as well as related client reference information is provided in **Section D. References**.

**AECOM brings excellent experience to the City and will leverage lessons learned from past projects.**

## AECOM BENEFIT

We will leverage our experience on these projects and others to deliver the final product to the City.

**Exhibit 2. Relevant AECOM Experience Working on Related Dam Design Projects**

Client, Location	Years of Performance	Fee	Direct Client Communication and Interface	AECOM Led Designer/Engineer of Record	Relevant Project Features					
					Outlet Replacement or Modifications	Construction Oversight	High or Significant Hazard Dam	State Engineer/Regulatory Agency Approval	CO or Rocky Mountain Region	Permitting Support
1. Nichols Dam, Santa Fe, NM	2018 – Pres	\$2M		●	●	●	●	●		
2. Ziegler Reservoir, Snowmass Water & Sanitation District, CO	2010 – 2013	\$700K	●	●	●	●	●	●	●	●
3. Rito Hondo Modification, Colorado Parks and Wildlife, CO	2020 – 2024	\$1.2M	●	●	●	●	●	●	●	
4. Hallenback No. 1 Design, City of Grand Junction, CO	2014 – 2016	\$70K		●		●	●	●	●	
5. Woodmore Dam, Woodmore Water and Sanitation District	2008	\$200K	●	●	●	●	●	●	●	
6. Ritchard Dam, Colorado River Water Conservation District, CO	2008 – 2012	\$182K	●		●	●	●		●	
7. Palisade Cabin Dam, Town of Palisade, CO	2003 – 2007	\$208k	●	●		●	●	●	●	
8. Carter Lake Outlet Works, Northern Colorado Water Conservancy District, CO	2005 – 2008	\$1.5M	●	●	●	●	●	●	●	
9. Horsetooth Reservoir Auxiliary Outlet Works Study, Northern Colorado Water Conservancy District, CO	2022-2024	\$375K	●	●	●		●		●	
10. Bradner Dam, Las Vegas, NM	2013 – 2019	\$2.7M	●	●	●	●	●	●		●
11. Elkhead Dam Raise, Colorado River Water Conservation District, CO	1993 – 2006	\$4.5M	●	●	●	●	●		●	●
12. Galeton Dam, Northern Water, CO	Ongoing	\$1M+	●	●			●	●	●	
13. Glade Reservoir, Northern Water, CO	2015 – Pres	\$18M	●				●	●	●	
14. Grace and Leo Dams Rehabilitation, USACE, CO	2012 – 2013	\$350K	●	●			●	●	●	
15. Green Ridge Glade Reservoir, Loveland, CO	2020 – 2021	\$135K	●	●			●		●	
16. Gross Dam Enlargement, Denver Water, CO	2018 – Pres	\$5.8M	●			●	●	●	●	
17. Guanella Reservoir, Golden, CO	2002 – 2004	\$800K	●				●	●	●	
18. Halligan Dam Enlargement, Ft. Collins, CO	2017 – Pres	\$1.7M	●	●			●	●	●	
19. Homestake Dam Rehabilitation, Colorado Springs Utilities, CO	2018 – 2023	\$700K	●	●		●	●	●	●	
20. Lake Maloya, Raton, NM	2017 – Pres	\$222K		●			●	●		
21. Montgomery Dam Enlargement, Colorado Springs Utilities, CO	2018 – 2023	\$6.3M		●			●		●	●
22. Peterson Dam, Las Vegas, NM	2019 – 2022	\$471K		●		●	●	●		
23. Ralston Reservoir, Denver Water, CO	2018 – 2021	\$658K		●			●	●	●	
24. Sanchez Dam, San Luis, CO	2016 – 2022	\$630K	●	●			●	●	●	
23. Stagecoach, Upper Yampa Water Conservancy District, CO	2018 – 2020	\$246K		●		●	●	●	●	
24. Teller Dam, USACE, Ft. Carson, CO	2015 – 2020	\$2.8M		●		●	●	●	●	●
25. West Silver Basin Dam, Confidential Client	2016 – Pres	\$11M		●			●	●		●

# Key Team Member Qualifications and Credentials

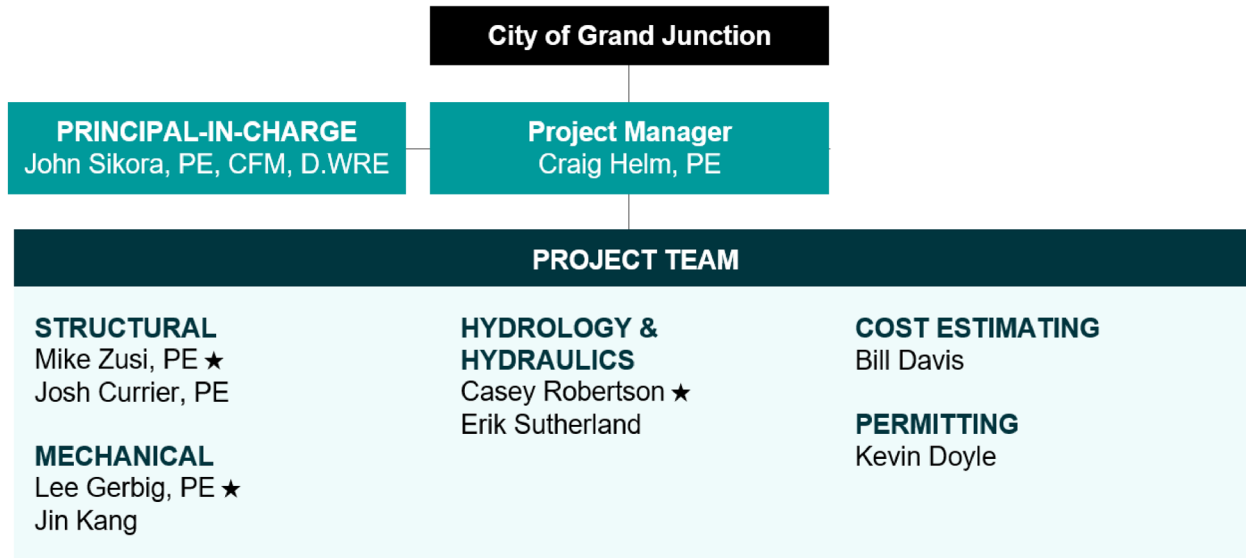
AECOM is a global company, but at our core, we are a “grassroots” organization that has grown through merging with exceptional engineering firms and retaining and nurturing our innovative and talented staff.

Our proposed organization is presented below. The key personnel listed in the organization chart have successfully worked together for many years and are committed to working on the proposed project through completion.

We have provided our **Project Team Organization Chart** below. Our Project Team Organization Chart identifies our Project Manager, technical leads/key team members, and the roles of each team member on the AECOM team.

## AECOM BENEFIT

The Project Manager, Principal-In-Charge, and Key Managers have successfully worked together to deliver efficiencies with a demonstrated approach, open and transparent communication, trusted and respected relationships, and a passion for providing high-quality, cost-effective results on time and within budget.



★ Senior Technical Reviewer

## Key Personnel

*Our full-service team was specifically formed to serve the City’s needs. We are experienced and will be dedicated to collaborating with the City to deliver a resilient, reliable, cost-effective, on-time, and successful project.*

In the subsequent pages, we present a summary overview of the personnel we consider “key” to this contract’s success. They were selected on a “best person for the role” basis—and will work as one seamless team. Additionally, concise resumes highlighting relevant experience and qualifications for our key/lead team members are included in the following pages. Our key team members are experienced in delivering similar reservoir design projects, offering our best practices to the City for the Project. **Our team is 100% committed to their roles for the duration of this project, and will be available as-needed to perform each task. Our success on comparable assignments makes our team uniquely qualified to partner with the City on this project.**



### Craig Helm, PE – Project Manager

*Craig will be responsible for the overall performance of the work, communication with the City, and technical oversight.* Craig has extensive experience leading geotechnical investigations for various projects such as dams, landslide mitigation, and tunneling. He has also served as the design and resident engineer for projects involving dam rehabilitation, retaining walls, and slope stabilization. Craig has overseen these projects from the initial concept phase

through to completed construction. He recently spent over 3 years serving as a resident engineer, leading the Designer’s onsite team of engineers and geologists, during the construction of the 175-foot-high concrete-faced rockfill dam in New Zealand. His primary responsibilities included foundation treatment, rockfill embankment construction, spillway, overall quality assurance, and construction monitoring. *Location Glenwood Springs, CO*



### John Sikora, PE, CFM, D.WRE – Principal-In-Charge

*John will be responsible for the commitment of AECOM resources to the City and an alternate point of contact. He will provide senior oversight and input as necessary.* John has over 35 years of experience in managing, planning, designing, and constructing large complex multidisciplinary water resources projects and programs. His primary focus has been the design and construction of

water structures ranging from river diversions, water supply and flood control structures, and tailings dams. To execute these projects he has led investigations, design, funding and environmental permitting efforts, and public involvement programs. *Location Glenwood Springs, CO*



### Mike Zusi, PE – Structural Review

Michael is a hydraulic structures engineer with over 30 years of experience specializing in water resource projects and the assessment, analysis, design, construction, and review of dams and hydraulic structures, including new dams, dam modifications, and dam rehabilitation. He has performed planning, assessments, inspections, analysis, alternatives analysis and conceptual design, final design, cost estimating, construction management, and operation and maintenance

on dozens of dams for a wide variety of public and private clients, including water supply, flood protection, and mining. *Location Denver, CO*



### Josh Currier, PE – Structural Lead

Joshua is a Structural Engineer with more than 12 years of domestic and international experience in the field of civil/structural engineering, working primarily on the design and evaluation of concrete dams, and structural design and evaluation of appurtenant structures, such as spillways, radial gates, intake towers, and outlet structures. He has experience performing inspections and condition assessments of concrete dams, reinforced concrete spillways, intake towers, and other concrete hydraulic structures. He has participated as a

Subject Matter Expert on concrete dams and hydraulic structures in risk assessments for dams in Australia and the United States. *Location Glenwood Springs, CO*





## Casey Robertson – Hydrology & Hydraulics Review

Casey recently relocated to Melbourne following eight years working for the AECOM Denver, Colorado office. Recent projects include the Brader Reservoir Rehabilitation Project (NM, USA), Almaden Dam Spillway Upgrade (CA, USA) and the Lower Sunshine Reservoir Enlargement Project (WY, USA). Over the past two years Casey has also been travelling to Brazil as part of the auditing team responsible for the oversight of the reconstruction and restoration works being undertaken following the Fundao and Brumadinho dam failures in 2015 and 2019 respectively. *Location Denver, CO*



## Erik Sutherland – Hydrology & Hydraulics Lead

Erik is an Engineer in the AECOM Water Resources department. He has nine years of experience in hydrologic and hydraulic analysis of dams. This includes watershed delineation, storm routing, analysis of spillway and outlet work capacities, dam breach analysis, and inundation modeling. Erik has experience using modeling software such as HEC-HMS, HEC-RAS, FLO-2D, DAMBRK, FlowMaster, Culvert Master, HY-8, StormCAD, Peak FQ, ArcGIS and AutoCAD. *Location Denver, CO*



## Lee Gerbig – Mechanical Review

Lee has expertise in the design of gates and valves for dams and canals, spillways, and outlet works. He has served on several Consultant Review Boards and Value Engineering Teams reviewing mechanical designs and projects, including risk analysis and risk reduction measures. Lee designs gates and valves, as well as designing outlet works arrangements, selecting mechanical equipment, and conducting field and shop examinations of mechanical equipment, for both new installations and rehabilitation of existing structures. He has spent his career in the design of gates and valves, as well as designing outlet works arrangements, selecting mechanical equipment, and conducting field and shop examinations of mechanical equipment, for both new installations and rehabilitation of existing structures. *Location Indianapolis, IN*



## Jin Kang – Mechanical Lead

Jin has performed calculations and analysis, prepared design specifications, created CAD drawings for hydroelectric, water conveyance, and dam outlet works projects. Jin has also written detailed design reports, hydropower feasibility reports, and condition assessment reports for clients. Jin's previous professional experience involved construction activities including field construction inspection for specification and drawing conformance, creating work plan submittals, conducting material procurement, and performing job site quality control and data management. *Location Denver, CO*



## Bill Davis – Cost Estimating Lead

Bill provides accurate, high-quality cost estimates at the 30%, 75% and 100% stages. His estimates detail the scope of work, assumptions, and risks as well as be aligned with the project execution strategy. He will work with the design team and client to optimize costs through value engineering. Bill has dynamic experience in industrial processes, process buildings, and municipal construction. His experience includes performing estimate functions as well as project management, project controls, scope coordination, change management, and field engineering. *Location Denver, CO*







## Kevin Doyle – Permitting Lead

Kevin is a Senior Environmental Planner with over 36 years of experience throughout the West, Southwest, and Pacific Islands. Based in Santa Fe, has a strong interdisciplinary understanding of environmental issues and has provided technical permitting support and impact analyses for a variety of resources. He has extensive planning and NEPA experience for multiple federal clients, Native American tribes and Pueblos, and state and local governments. Recent work has focused on Reclamation, Park Service and Corps habitat restoration, water infrastructure and special status species projects. Kevin's specialties also include cultural resource management and addressing Native American interests. In

conjunction with NEPA projects he has managed budgets, directed teams of resource specialists and subcontractors; edited documents and maintained project administrative records. *Location Santa Fe, NM.*

## Why AECOM

We can offer the City many benefits to ensure the success of the project:

-  • **Local and Regional Resources** – We are a **locally-based team with extensive technical capabilities** that will help with coordination and efficiency.
-  • **Breadth of Services** – We are accustomed to supporting design and construction contracts of various sizes that may require a broad **range of services, from design through construction and operation.**
-  • **Thoughtful Solutions** – Our project team is known for **creative, cost-effective solutions** that anticipate future needs associated with the operation and maintenance of infrastructure, to achieve a durable, reliable system.
-  • **Understanding Our Communities** – With aging infrastructure, population growth, uncertain future regulatory requirements, and requested drought protection, our long history in water supply **infrastructure needs** has proven results to meet today's challenges.



# C



# Strategy and Implementation Plan

# C | Strategy and Implementation Plan

## City Goals and Objectives

The purpose of this project is to design and successfully construct new inlet structures and replace the upstream pipework of the low level and mid-level outlets of Juniata Dam. AECOM will leverage our planning, permitting, design, and construction experience completing numerous dam projects in Colorado to help streamline the design.

In recent years, inspection of the low-level outlet pipe detected leakage into the upstream end of the pipe. The City has identified the location of the leakage and has decided to remove and replace this section of the pipe to upgrade the low-level outlet and to improve the safety of the dam. The inlet structure (comprising of a concrete headwall, inlet gates and trash rack) will be removed and replaced with a single inlet pipe and new inlet structure. Upon reservoir drawdown, an inspection and conditions assessment of the mid-level outlet pipe and upstream gate valve will be performed during drawdown to evaluate if this mid-level inlet also needs to be replaced.

AECOM understands the importance of this project, as the majority of the City's other reservoirs on the Grand Mesa are routed through Juniata Reservoir. Maintaining this terminal reservoir is critical to the City's water supply and distribution as it is the primary water storage for the City.

## Proposed Strategy/Project Approach

Our proposed approach has been developed to meet the specific requirements of the City and to support the continued safe operation of Juniata Dam. AECOM's proposed scope of services has been split into design phase and construction phase tasks.

AECOM will assist the City in planning for the reservoir drawdown and schedule of the associated construction activities. We assume the City will steadily draw down the reservoir during peak water demand (early-to-mid summer) and aim to complete the outlet replacement in the fall when the water demand is lower. Fully draining the reservoir has several risks and impacts to the City water supply. AECOM recognizes it's essential to meticulously plan and execute the construction phase to ensure the successful completion of the project in 2027. We will also prepare a simple, robust design that can easily be adapted to potential changes or challenges encountered during construction which will help maintain the shorter construction schedule at the end of 2027.

## Task 1: Design Phase Services

AECOM will provide the following design services to replace the inlet structures of the low-level and mid-level outlet works. This work will be performed between September 2024 and January 2025.

### Subtask 101 – Existing Information Review

Review existing project base data and participate in a kickoff meeting and site visit with the City. After reviewing available information, AECOM will identify potential data gaps and coordinate with the City if any recommended changes or additions to the proposed scope of services are identified.

Project base data is anticipated to include the original design & construction reports, SEO reports, pertinent record drawings, including site topography and utility surveys if available, and any other applicable information identified by the City.

#### Deliverables

- A summary of this effort will be prepared and submitted to the City as part of the Design Report in Task 103.

#### Assumptions

- Project base data will be provided digitally to AECOM within one week of contract approval.

## Subtask 102 - Low-Level & Mid-Level Outlet Designs

This design task will include the design of the excavation of the embankment material and demolition of the upstream end of the existing low-level outlet works. This demolition will extend back to the 14.7" ID HDPE pipe to remove the previously identified leakage location. This includes removing the concrete inlet structure, inlet gate valves, 12-inch ductile iron pipe (45-degree bends), 12-inch to 24-inch wye connection, air vents, and potentially the trash rack.

AECOM will use all available information, inspection records, and previous construction documentation to design the new inlet structure including gate valves, air vents, and trash rack. A new single outlet pipe will be connected to the 14.7-inch ID HDPE pipe and encased in concrete. A hydraulic analysis will be conducted to determine the appropriate size of the new pipe and to verify that the total flow capacity of the new outlet configuration does not reduce the existing capacity. We understand the City wishes to re-use the existing hydraulic actuator lines and trash rack and we will evaluate their compatibility with the new design components.

The design will explore different options for various components, such as the HDPE pipe connection, type and size of the new pipe, inlet gate orientation (vertical vs. inclined). A 30% design will be developed. Alternatives memorandum and drawings will be presented to the City for their review and feedback. We plan to develop two to three alternatives to a 30% design level. The chosen alternative will be further developed to a 90% design level.

The design will be completed for both the low-level and mid-level outlet works, although the midlevel outlet works may not require replacement depending on its condition.

During construction in 2027, the upstream end of the HDPE pipe will be inspected to assess the condition and effectiveness of the annulus grouting operation performed in 1987. Remedial options will be considered and incorporated into the design.

### Deliverables

- 30% drawings & alternatives memorandum.
- Results from this design task will be incorporated into task 104.

### Assumptions

- The City will confirm the spillway is designed to pass the inflow design flood (IDF). This scope of work does not include analysis of the site hydrology or spillway hydraulics.
- The City will provide all available information about the mechanical and electrical systems, including the gate valves, hydraulic actuators (certificates), within 2 weeks of the contract execution.
- Geotechnical information regarding the embankment and foundation will be provided within 2 weeks of the contract execution.

## AECOM EXPERIENCE

*AECOM has successfully completed numerous outlet works modifications and upgrades across Colorado. Similar HDPE to Steel connection was designed at Ziegler Reservoir and Rito Hondo Dam.*



## Subtask 103 - Design Report, Specifications, Drawings

AECOM will develop plans and specifications to demolish the existing inlet structure and replace it with new inlet gate valves, air vents, new pipe, inlet structure, and trash rack. We will also prepare a 90% set of drawings and specifications to the City and then to the SEO for their review and comment. AECOM will incorporate comments into the design and make any necessary updates to the drawings or design report. AECOM will develop "Issued for Bid" (IFB) documents and submit the IFB documents to the City and the SEO for approval.

### Deliverables

- 90% Design report
- 90% drawings
- 90% specification
- IFB document (drawings, specifications)

### Assumptions

- AECOM assumes a single round of consolidated review comments from the Client and SEO. SEO will only review the 90% submittals; Client will review the 30% & 90% submittals.
- Survey data around the inlet pipe is not available. The design drawings showing dimensions and levels relative to the existing outlet pipe will be prepared.
- SEO review timeframe will vary depending on their workload and the complexity of the design. Based on our experience with similar projects of this size, we anticipate their review may take 4 weeks to complete. This assumption has been used in the Project Timeline below.

## Subtask 104 - Engineers Opinion of Probably Costs

AECOM will develop construction cost estimates at the 30% and 90% design stages. The cost estimate will be developed based on quantity takeoffs estimated from construction drawings. AECOM will prepare a bid schedule, estimate the quantities of the items in the bid schedule, estimate the unit prices and lump sum prices for construction of the project, and prepare an estimated construction schedule. Pricing for construction quantities will be based on AECOM's database for material costs and prevailing wage rates. Appropriate contingencies will be applied, based on the level of the design when the estimate is developed.

### Deliverables

- 30-percent submittal: This submittal will include a bid schedule with preliminary quantities and cost estimates, based on the 30% design drawings.
- 90-percent submittal: This submittal will include an updated bid schedule and updated quantities. A cost summary spreadsheet will be prepared and submitted to the City. This cost summary spreadsheet can be used as a basis for comparing contractor estimates during the selection process.

### Assumptions

- For the 90% cost estimate, AECOM will assume that the project will be bid on a competitive basis.

## AECOM EXPERIENCE

### *Carter Lake Dam No. 1 Outlet Works Addition, Berthoud, Colorado*

*AECOM completed design and construction phase engineering support for a new outlet works addition at Carter Lake Reservoir, as part of the Colorado-Big Thompson Project for the Northern Colorado Water Conservancy District.*



## Subtask 105 – Stormwater Management Plan

Prepare and submit a Stormwater Pollution Prevention Plan (SWPPP) for the construction activities.

### Deliverables

- Stormwater Pollution Prevention Plan

### Assumptions

- The contractor will stage equipment/materials on the upper left abutment.
- All construction work will be performed within the reservoir.

## Subtask 106 – Permitting

AECOM will provide permitting support services for the proposed outlet remediation consisting of the following:

- Conduct due diligence and coordination with City staff to confirm permitting requirements and necessary supporting data for the proposed outlet remediation.
- Prepare and submit a Pre-Construction Notification (PCN) requesting authorization under Nationwide Permit 3 consisting of Engineering Form 6082 and supplemental information
- Required information for the PCN includes project purpose, location and description, wetlands and waters present, impacts to wetlands and other waters of the U.S., and impact avoidance and minimization measures.
- Supporting information will include information on adjacent landowners, maps of the project features and aquatic features, engineering drawings, and information regarding compliance with the Endangered Species Act and National Historic Preservation Act.

### Deliverables

- Draft and Final PCN Form (Engineering Form 6082) requesting authorization for project activities under Nationwide Permit #3 and attachments

### Assumptions

- The project is expected to require permitting under Section 404 of the Clean Water Act and can likely be covered under Nationwide Permit 3 – Maintenance permit application.
- Project design will comply with Section 404 General and Regional conditions and State of Colorado Section 401 certification conditions.
- Documentation will be prepared based on a desktop analysis of aquatic, biological and cultural resources using publicly available on-line information and project-specific information including photographs and engineering data.
- No field surveys or site visits will be required.
- No special aquatic sites are anticipated to be present in the project area, including wetlands and riffle/pool complexes, which would alter permitting requirements.
- No effects on historic properties are anticipated
- No formal or informal Section 7 consultation will be required for Endangered Species Act Compliance. The Corps will coordinate with the U.S. Fish and Wildlife Service, if needed, during the 404 permitting process.
- Consultation with SHPO, if needed, will not be conducted by AECOM, rather would be conducted by the Corps as part of the 404 permitting process.
- No in-person meetings with federal or state agencies are included in this scope.

## Subtask 107 - Project Management

The purpose of this task is to account for project management tasks associated with the work including invoicing and scheduling. Activities will include:

- Monthly invoices
- Schedule and Budget Monitoring
- Coordination with City, Contractors and SEO
- Review of deliverables

### Deliverables

- Monthly status reports, including work conducted, budget expenditures and status, schedule status, and project issues, if any, that need to be documented.

### Assumptions

- None

## AECOM EXPERIENCE

### *Hallenbeck No. 1 Dam, Mesa County, Colorado*

*Following observation of a longitudinal crack observed on the downstream slope of the embankment, AECOM performed a subsurface investigation program for the forensic evaluation and designed modifications to stabilize the dam and meet current dam safety criteria.*



## Task 2: Construction Phase Services (2027)

AECOM will provide the following construction services to replace the inlet structures of the low-level and mid-level outlet works. This work will be performed in 2027.

### Subtask 201 - Pre-bid support

AECOM will participate in the pre-bid meeting and respond to technical questions regarding the design during the bidding phase of work.

### Deliverables

- Respond to contractor's technical questions

### Assumptions

- We assume the city will process and respond to contractors' submittals. AECOM can assist the city with a submittal review; however, this has not been included in this scope of work.

### Subtask 202 - Reservoir Fill Plan and Construction Observation Plan

AECOM will prepare a reservoir filling plan and construction observation plan and will be submitted to the SEO for approval prior to construction. The reservoir filling plan will include the fill rates, elevations to hold the water level for observation and the inspection/monitoring schedule during first filling. The construction observation plan will include the engineering staff to be used during construction, the observation schedule, frequency, and types of material testing, and qualifications of the material testing firm.

### Deliverables

- Reservoir Fill Plan
- Construction Observation Plan

### Assumptions

- None



## Subtask 203 - Construction Oversight Support

We anticipate providing as-needed observation during construction to observe excavation/demolition, foundation preparation, cast-in-place concrete forming and placement, outlet gate installation, and fill placement and compaction.

Inspection of the work will be performed by AECOM staff on an as-needed basis to observe construction is being performed in accordance with the contract documents. All quality field and laboratory testing of embankment materials and conventional concrete will be performed and reported by AECOM' Field Engineers. Laboratory testing of all embankment fill and concrete materials will be performed by a local material testing firm and paid by the City.

### Deliverables

- Daily field reports will be prepared.

### Assumptions

- We anticipate a field engineer will typically spend 3 days per week on-site and a senior engineer will spend 8 hours per week attending meetings, and providing site inspections during critical portions of construction. It is estimated we will spend \$8,955 per week for construction oversight services and contract management assistance on labor, including \$450 per week in expenses. We have assumed 4 weeks for construction.
- Construction oversight site visits will be scheduled in conjunction with the City, based on the actual work being performed. We will adjust our site observations as necessary, to ensure we are on-site at all critical stages of the construction and reduce our site presence during less critical stages.
- We assume a competent contractor with experience completing dam safety upgrades will be selected. The required level of engineering supervision is dependent on the contractor's ability/experience and the quality of their work. Top-tier contractors typically require less supervision and oversight than less experienced contractors.
- City Staff will provide general observations when AECOM is off-site. The City will help coordinate when critical construction activities require on-site AECOM presence.
- Material testing during construction will be paid by the City.

## Subtask 204 - Final Construction Report

Once construction is completed, a final report summarizing the construction activities, test results, photographs of construction, problems encountered and solutions implemented to resolve these problems, will be produced. Record drawings will be completed and submitted along with the construction report to the SEO. We anticipate completing the construction report and record drawings within 6 weeks of completing construction.

### Deliverables

- Final Construction Completion Report and Record Drawings
- Submittal of Construction completion documentation to the SEO.

### Assumptions

- As-built survey will be provided to AECOM in digital format within 2 weeks of completing construction.
- The SEO will not require a new or updated Emergency Action Plan to be submitted with the construction completion documentation.

## AECOM EXPERIENCE

*AECOM provided outlet conduit observation and conditions assessment, structural design and analysis, construction cost estimating, SEO approval and environmental permitting, and construction observation for **Palisade Cabin Reservoir** for the Town of Palisade, Colorado.*



## Management Approach

Through Craig, Project Manager, we will provide proactive and proven management skills to complete a technically sustainable, high-quality project, on schedule, and within budget. AECOM's objective in coordinating this project with the Project Team and the City will be to:

- Focus on Key Project Risks – by utilizing seasoned personnel with engineering and construction expertise in dam planning, spillways, embankments, and outlet works directly relevant to the work on this project.
- Ensure There Are No Surprises – by providing the City and the project Team regular and timely formal and informal updates on overall project progress, technical status, cost control, and budget status.
- Ensure That Timely Decisions Are Made – by tracking and advising the City on technical and management decisions needed to keep the project moving.
- Deliver a Quality Project – within the schedule and budget.

AECOM's management philosophy is embodied in the phrase "Plan the work and work the plan." At the beginning of each phase Craig will assign budgets, schedules, and work requirements to all Team members – he plans the work. However, we recognize that things do not always go as planned. Consequently, Craig will regularly review the progress of the work relative to the plan and will make adjustments in resource allocations as necessary to maintain budgets and schedules while still achieving the work requirements – he works the plan. All the specific aspects of project management listed are directed toward supporting this philosophy. The major components of the proposed management approach include the following:

- 1) **Coordination and Communication** - Client communication is of vital importance on this project. Such communication is enhanced when the principals involved know each other well. The proposed personnel in the AECOM Team have been very successful in working together on many water resources projects, and we will bring that experience to this project. This established successful working relationship, we believe, is unique among the teams being considered for this assignment. We look forward to having the opportunity, with the City coordination, to communicate with the involved agencies as this project progresses.
- 2) **Quality Assurance/Quality Control** - The quality of our work is defined by how well our work product meets our clients' expectations. AECOM has an in-place quality assurance/quality control (QA/QC) program (refer to Figure 2) that is ISO 9001 certified to ensure the quality of all aspects of our work meet our clients' technical and contractual requirements and objectives. The management team will monitor contract performance and is dedicated to continuous improvement by listening closely to the needs of the City.
- 3) **Schedule Control** - Our project planning process and scheduling systems have been tested on many complex and complicated projects. The major element of schedule control on the project will be proper advance planning and establishment of deadlines for each phase, work element, and task. The project critical path/milestone schedule will include the start and completion dates (deadlines) for each phase, work element, or task.
- 4) **Cost Control** - Craig, with Task Leaders, will establish a budget for each phase, work element, and task (as appropriate), adjusting man-hour efforts and costs to ensure that the work can be completed within the budget and on schedule. These budgets will be given to the Task Leaders for use and implementation. Craig will also regularly compare the percentage of budget spent with percentage of work completed. This will proactively identify potential problems and take corrective action.

## AECOM EXPERIENCE

*Significant voids were identified in the Outlet Works encasement concrete at **Ritchard Dam**. AECOM designed and observed a pressure grouting program to remediate the defects.*



City of Grand Junction Colorado  
 Design Services for Juniata Dam Outlet Replacement

- 5) Progress Reporting - Monthly status reports will be prepared and submitted to the City summarizing project progress, work accomplished during the previous month, work planned for the next month and schedule status. The format and content of the status reports are subject to City approval.

## Project Timeline

Task	Description	Start	Completion
101	Existing Information Review and Kickoff	19 September 2024	27 September 2024
102	Low-Level & Mid-level Outlets		
	30% Design	30 September 2024	21 October 2024
	90% Design	21 October 2024	13 December 2024
103	Design Report, Specifications, Drawings	29 November 2024	21 December 2024
	SEO Review	6 January 2025	31 January 2025
104	Engineers Opinion of Probably Costs	14 October 2024	21 December 2024
105	Stormwater Management Plan	21 October 2024	13 December 2024
106	Permitting	1 November 2024	13 December 2024

A detailed project timeline for Task 2 can be provided at the start of 2027. This will be based on the proposed reservoir drawdown, construction schedule and permit requirements.

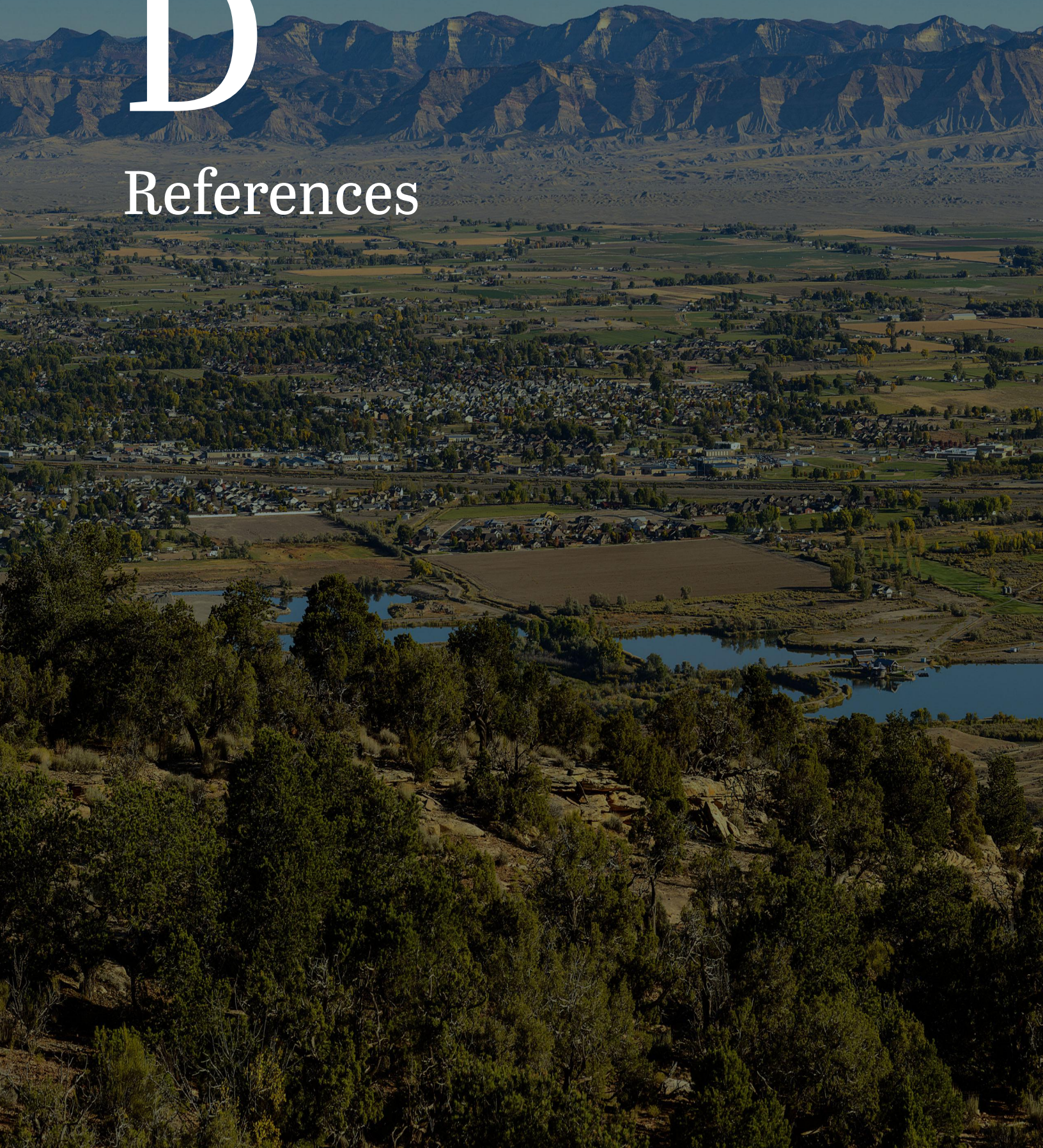
The time commitment required from City personnel is expected to be minimal, as AECOM will progress the design and permitting unassisted, only seeking formal input and advice from the City for key decisions and meetings, such as the kickoff meeting, 30% design alternatives and 90% review. Craig will regularly inform the City staff on the progress with both formal and informal updates.

## Budget

For our detailed proposed budget to complete the outlined scope of work, please see *Section F. Fee Proposal*.

# D

## References



# D | References

AECOM has a track record of successful project completion. We are confident that these references will attest to our commitment, efficiency, quality of work, and accomplishments. In this section, we provide brief descriptions of relevant, similar projects, which demonstrate experience relevant to this RFP.

Nichols Dam Rehabilitation Project <i>Santa Fe, New Mexico</i>			
<b>Client: City of Santa Fe</b>	<b>Services Provided</b>	<b>Key Team Members</b>	<b>Client Reference</b>
<b>Dates:</b> 2016 – On-Going	<ul style="list-style-type: none"> <li>Project Management</li> </ul>	John Sikora – Project Manager	John Del Mar Project Manager
<b>Original Project Budget:</b> \$18M	<ul style="list-style-type: none"> <li>Geologic/Geotechnical Investigations</li> </ul>	Craig Helm – Geotechnical Engineer	801 W. San Mateo Rd Santa Fe, NM 87505 Tel. (505)955-4231 jpdelmar@santafenm.gov
<b>Final Project Cost:</b> \$Ongoing	<ul style="list-style-type: none"> <li>Hydrologic Hazard Analysis</li> <li>Spillway Analysis</li> <li>PFMA/SQRA</li> <li>OSE Approval</li> </ul>		

Nichols Dam in Santa Fe, New Mexico is an existing clay puddle core embankment dam. The rehabilitation project involves:

- Removing the piping, valves, and exhaust system from inside the inclined intake;
- Installing hydraulically controlled knife gates on the top of the inclined intake, at the elevation of the upper- and mid-level intakes;
- Changing the operation of the intake to flood the inclined intake, so that the water level inside the intake is similar to the reservoir elevation;
- Relining the existing 5-foot inside diameter outlet conduit with a 28-inch outside diameter (OD) Standard Dimension Ratio (SDR) 15.5 high density polyethylene (HDPE) pipe, grouted in place;
- Installing valves with measuring devices just downstream from the relined conduit for the Living River flows, meeting acequias flow requirements, and a bypass valve for emergency releases in the Nichols valve vault;
- Connecting the proposed 24-inch pipeline to the Canyon Road Water Treatment Plant (CRWTP);
- Installing a sleeve valve with a bypass for a potential future hydroelectric generator;
- Excavating a portion of the downstream shell and installing a sand filter diaphragm and drain in the Nichols Dam embankment; and
- Installing a compressor and accumulator for a new aeration system and hydraulic power unit in a vault downstream from the crest.



**Project Challenges:** Due to the puddle core construction techniques the characterization of the embankment was difficult. AECOM geotechnical analyses included site-response and liquefaction triggering, seepage, two-dimensional (2D) and 3D slope stability, simplified deformation, and filter compatibility.

**Successes:** AECOM was able to demonstrate the existing geometry met long term stability with 3D modeling which allowed to reconstruct the embankment within the same footprint and AECOM was able to obtain a no permit required determination from the USACE which sped construction and reduced costs.

## 2 Ziegler Reservoir Snowmass Village, CO

Client:	Services Provided	Key Team Members	Client Reference
Snowmass Water & Sanitation District	<ul style="list-style-type: none"> <li>Civil and Structural Engineering</li> <li>Geotechnical Investigations/Design</li> <li>Construction Oversight</li> <li>QC/QA Testing</li> </ul>	John Sikora Craig Helm Mike Zusi	Kit Hamby District Manager 0177 Clubhouse Drive Snowmass Village, CO 81615 Tel. (970) 923-2056 khamby@swwsd.org
<b>Dates:</b> 2010 – 2013			
<b>Original Project Budget:</b> \$3.3M			
<b>Final Project Cost:</b> \$3.3M			

**The Ziegler Reservoir Enlargement Project consisted of reconstructing and enlarging an existing embankment dam and constructing outlet works and associated features. Ziegler launched the world’s largest high-elevation fossil discovery.**



The unique geological setting, soil conditions, and multiple project constraints brought many challenges throughout design and construction, and complicated efforts to reduce costs. Project mitigation required replacing 1.5 acres of wetlands and more than 1,000-diameter-inches of trees that would be inundated during the reservoir enlargement. After completion, the new Ziegler Reservoir was reclassified as a small high-hazard dam, thereby requiring design review and approval by the Dam Safety Branch of the Colorado Division of Water Resources (DWR). One project challenge was facilitating a timely review that would allow construction within a limited, high elevation, construction season. Other

significant challenges for this dam enlargement involved the investigations required to understand the dam’s complex, glacial till foundation.



The existing reservoir was drained, and the project start was uneventful; but as excavation began in late 2010, the site took on a rare significance unimagined by anyone involved. After removing 80,000 yards of dirt to expand and stabilize the reservoir, one of its operators came across a giant bone. The meticulously planned dam site unexpectedly transformed into a world-renowned paleontological site. Overseen by the Denver Museum of Nature and Science, they discovered thousands of mammoths, mastodons, and other prehistoric bones.

Construction during the 2011 season was complicated by 50 museum volunteers on-site during construction. The AECOM project management team put in extra time to ensure that work would continue and that the project would be completed on schedule. All told, approximately 6000 CY of material was processed by shovel, over 4,800 bones were recovered, and 26 different Pleistocene Species were identified. Complications included variable conditions in the borrow pit, weather, only one point of access, and, of course, bones. Approximately 40% of the way into construction the dam design was modified and permitted to meet material, conditions and schedule constraints while construction delays were kept to a minimum. The substantial completion date was October 2011.

### AECOM BENEFIT

Despite the unexpected discovery of ice age bones, AECOM managed to handle these complications smoothly and remained on track maintain the overall project schedule and budget.

### 3 Rito Hondo Dam Modification Hinsdale County, CO

<p><b>Client:</b> Colorado Department of Parks and Wildlife</p> <p><b>Dates:</b> 2020 – 2024</p> <p><b>Original Project Budget:</b> \$11M</p> <p><b>Final Project Cost:</b> \$11M</p>	<p><b>Services Provided</b></p> <ul style="list-style-type: none"> <li>• PFMA/SQRA</li> <li>• Project Management/Project Oversight</li> <li>• Permitting</li> <li>• Geologic/Geotechnical Investigations</li> <li>• Hydrologic Hazard Analysis using CO-NM REPS Tool</li> <li>• Spillway Analysis and Design (outlet works extension)</li> <li>• Construction phase engineering services</li> </ul>	<p><b>Key Team Members</b></p> <p>Casey Robertson Mike Zusi Chris Rey</p>	<p><b>Client Reference</b></p> <p>Eric Eisinger Safety Program Manager 6060 Broadway Denver, CO 80216 Tel. (303) 291-7395 Eric.Eisinger@state.co.us</p>
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**Rito Hondo Dam is a high-altitude embankment dam owned and operated by Colorado Parks and Wildlife (CPW). The reservoir is used for recreation purposes. CPW has contracted with AECOM to provide three phases of engineering planning, design, and construction observation; the project is currently in Phase 3 – Construction Observation.**



Following reservoir refilling in 2020, the Rito Hondo dam site suffered a catastrophic loss of seepage control, resulting in active seepage being observed on the downstream right bank and downstream face of the dam, and increased seepage from the left groin and downstream left bank. Following these observations, the reservoir drawdown was directed by the SEO to prevent potential catastrophic failure of the embankment. The dam was under a zero-storage restriction and could not impound any water.

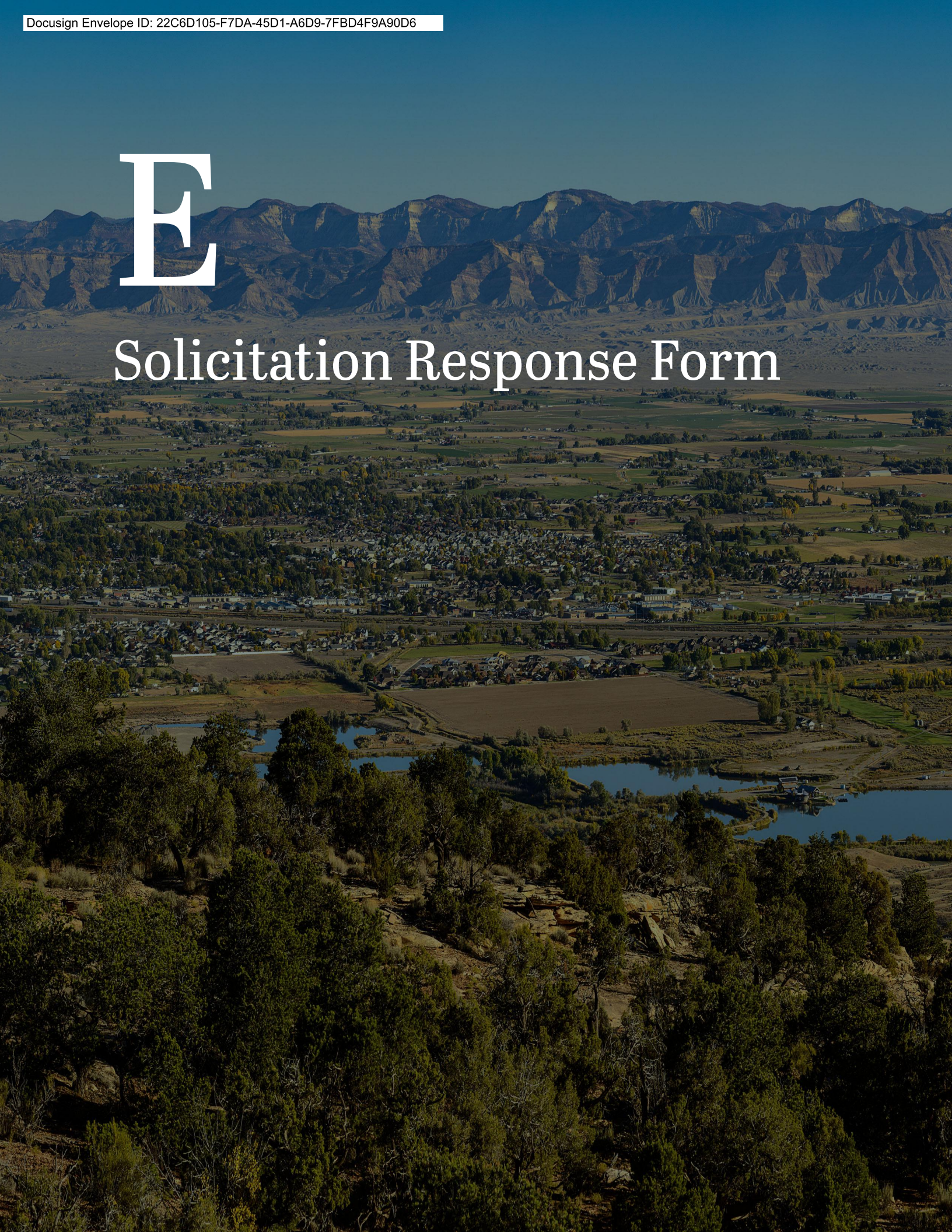
As part of the Phase 1 planning study, AECOM conducted a geotechnical investigation in June and July 2021 with Authentic Drilling that included sonic and hollow stem auger (HSA) test holes, test pit/trench excavations, and geophysical surveys. AECOM also performed a comprehensive hydrology study for the dam and spillway, which involved determining the Inflow Design Flood (IDF) and assessing the spillway discharge capacity. The IDF is crucial for evaluating and designing dams to address hydrologic potential failure modes and reduce risks to the public. It ensures that the spillway has sufficient capacity and freeboard to prevent overtopping. Results of the geotechnical and hydrologic analyses helped inform the PFMA and SQRA for the embankment in advance of alternative development. The PFMA and SQRA were facilitated by AECOM with team members from CPW, the SEO, and AECOM.

After the completion of Phase 1 and the selection of the preferred alternative, the project moved into Phase 2 final design, which was performed as part of a Construction Management/General Contractor (CM/GC) contract, involving the contractor after the 30% design completion. The final design included the development of technical documents including design drawings, technical specifications, and a design summary report. The design included a one-pass trenching cutoff wall, downstream buttress and filter, outlet works extension, and a new concrete spillway. The design also included environmental permitting tasks of biological resource survey, cultural resources desktop review, and development of a wetland’s delineation report and nationwide permit pre-construction notification. The project was completed in 2023 and the initial spill occurred in the summer of 2024.



A large, white, serif capital letter 'E' is positioned in the upper left quadrant of the page. It is superimposed over a background image of a valley with mountains in the distance and a river in the foreground.

# Solicitation Response Form





## Section 7.0. Solicitation Response Form

### RFP-5484-24-DD “Design Services for Juniata Dam Outlet Replacement”

*Offeror must submit the entire Form completed, dated, and signed.*

1) **Total Cost for Services as Described, Not-to-Exceed:** \$ 200,836

**Total Not-to-Exceed Cost Written:** two hundred thousand eight hundred thirty six dollars.

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*The Owner reserves the right to accept any portion of the services to be performed at its discretion.*

---

The undersigned has thoroughly examined the entire Request for Proposal and therefore submits the proposal and schedule of fees and services attached hereto. This Proposal is firm and irrevocable for sixty (60) days after the time and date set for receipt of proposals.

The undersigned Offeror accepts and agrees, under the *terms and conditions contained in this Request for Proposal*, that it is prepared, ready, and willing to perform and provide services as described in the attached Proposal if the same is accepted by the City.

The undersigned Offeror acknowledges the right of the City to reject any Proposal(s) submitted and to waive any informality(ies) and irregularity(ies) therein in the City’s sole discretion.

By submission of the Proposal, each Offeror certifies, and in the case of a joint Proposal each party thereto certifies as to its capability, that the Offer has been arrived at independently, without collusion, consultation, communication, or agreement as to any matter relating to the Proposal with any other Offeror or with any competitor.

Prices in the Proposal have not knowingly been disclosed with another provider and will not be before award.

- Prices in the Proposal have been arrived at independently, without consultation, communication, or agreement to restrict competition.
- No attempt has been made nor will be to induce any other person or Consultant to submit a proposal to restrict competition.
- The person(s) signing the Proposal certifies that it is a legal agent of the Consultant/Firm, authorized to represent the Firm, and is legally responsible for the offer concerning 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 **zero (0)** percent of the net dollar will be offered, to the

Owner if the invoice is paid within **N/A** days after the receipt of the invoice.

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

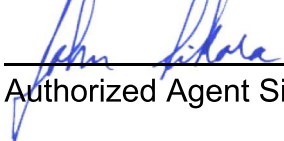
**State number of Addenda received:** One (1)

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

Please provide a letter signed by the entity Owner or a Statement of Authority delegating authority to act on behalf of the Offeror. Before executing a Contract, the Offeror must also furnish a current completed W-9 form.

AECOM Technical Services, Inc.

Company Name – (Typed or Printed)

  
John Sikora

Authorized Agent Signature

804 Colorado Ave, Suite 201  
Address of Offeror

Glenwood Springs, Co 81601  
City, State, and Zip Code

John Sikora, PE

Authorized Agent, Title – (Typed or Printed)

970-384-4735  
Telephone Number

John.sikora@aecom.com  
Email Address of Agent

August 28, 2024  
Date

The undersigned Offeror proposes to subcontract the following portion of Services:

Name & address of Subcontractor (Name, City, State)	Description of Service(s) to be performed	Est. Value of Service(s)
N/A	N/A	N/A

The undersigned Offeror acknowledges the right of the City to reject any and all Offers submitted and to waive informalities and irregularities therein in the City's sole discretion.

By submission of the Proposal, each Offeror certifies, and in the case of a joint Proposal each party thereto certifies as to its own organization, that this Offer has been arrived at independently, without collusion, consultation, communication, or agreement as to any matter relating to this Proposal with any other Offeror or with any competitor.

# F

# Fee Proposal



# F | Fee Proposal

AECOM developed a cost estimate for the proposed work using the various tasks outlined in the RFP, and the cost estimate is provided below. AECOM believes this estimate provides a reasonable breakdown by task and includes the hourly rate for each proposed team member, estimated hours by task for each team member and other direct costs by task. AECOM will work with the City to further define the costs if necessary and negotiate an applicable contract amount for the Outlet Replacement for Juniata Dam.

## Proposed Cost Estimate Summary



Labor Category:		Principal Consultant III (Sikora)	PM + Geotechnical Engineer (Helm)	Principal Consultant III (Zusi)	Structural Engineer (Currier)	Structural Engineer (Davis)	Principal Mechanical Engineer (Gerbig)	Mechanical Engineer (Kang)	Water Resources Engineer (Robertson)	Water Resources Engineer (Sutherland)	Senior Environmental Planner (Doyle)	Construction Engineer (Rey)	CADD Designer (Hunter)	Cost Estimator (Davis)	Project Support Staff (Pharo)	Project Administration (Payton)	ODCs <sup>1</sup>	Totals	
Labor Rates (2024):		\$344	\$260	\$318	\$229	\$174	\$293	\$163	\$296	\$194	\$161	\$162	\$172	\$223	\$132	\$142			
Task	Description																		
101	Existing Information Review and Kickoff Meeting		8		12	4		8										\$ 150	\$6,969
102	Low Level Outlet Design (outlet pipe extension, gate valve, air vents, and trash rack).	8	8	4	40	60	4	80	4	24			32		4			\$ 134	\$51,873
103	Design Report, Specifications, Drawings	8	20	4	24	24	4	24	2	8			100		16			\$ 134	\$45,569
104	Engineers Opinion of Probably Costs (30% and 90%)		2		4	4		4					8	18	4				\$8,259
105	Stormwater Management Plan										8								\$1,290
106	Permitting		2								30				2				\$5,621
107	Project Management			12													12		\$4,817
Labor Hours Total:		16	52	8	80	92	8	116	6	32	38	0	140	16	26	12	418	\$	124,398

Labor Category:		Principal Consultant III (Sikora)	PM + Geotechnical Engineer (Helm)	Principal Consultant III (Zusi)	Structural Engineer (Currier)	Structural Engineer (Davis)	Principal Mechanical Engineer (Gerbig)	Mechanical Engineer (Kang)	Water Resources Engineer (Robertson)	Water Resources Engineer (Sutherland)	Senior Environmental Planner (Doyle)	Construction Engineer (Rey)	CADD Designer (Hunter)	Cost Estimator (Davis)	Project Support Staff (Pharo)	Project Administration (Payton)	ODCs <sup>1</sup>	Totals	
Labor Rates (2027) <sup>2</sup> :		\$372	\$281	\$344	\$247	\$188	\$317	\$176	\$320	\$210	\$174	\$175	\$186	\$242	\$143	\$153			
Task	Description																		
201	Pre-bid support (technical questions & meeting)			2		16	4											\$ 150	\$5,422
202	Reservoir Fill Plan	2	4							16									\$5,232
203	Construction Oversight Support (12 trips to dam)	8	8		24	8						120						\$ 1,800	\$35,482
204	Final Construction Completion Report and Record Drawings	4	8		12	4						40	40		8			\$ 200	\$23,256
205	Project Management		16														16	\$ 100	\$7,047
Labor Hours Total:		14	38	0	52	16	0	0	0	16	0	160	40	0	8	16	2250	\$	76,438

Assumptions

- 1 Travel (Glenwood Springs to Dam-site) \$150 per trip
- 2 Labor increase 4% per year

City of Grand Junction Colorado  
 Design Services for Juniata Dam Outlet Replacement

## AECOM 2024 Rates Sheet for Juniata Dam Outlet Replacement

Title/Role	Hourly Billing Rate
Principal Consultant III	\$344
Project Manager / Geotechnical Engineer	\$260
Principal Structural Consultant III	\$318
Senior Structural Engineer	\$229
Structural Engineer	\$174
Principal Mechanical Engineer	\$293
Mechanical Engineer	\$163
Principal Water Resources Engineer	\$296
Water Resources Engineer	\$194
Senior Environmental Planner	\$161
Construction Engineer	\$162
CAD Designer	\$172
Cost Estimator	\$223
Project Support Staff	\$132
Project Administration	\$142