



LETTER OF INTENT

Date: December 20, 2017

Company: JVA, Inc.

Project: Professional Engineering Services for Parks Raw Water Irrigation Supply Phase I
(RFP-4429-17-DH)

Based upon review of the proposals received for Professional Engineering Services for Parks Raw Water Irrigation Supply Phase I (RFP-4429-17-DH), your company has been selected as the preferred proposer of this solicitation process. It is the intent of the City of Grand Junction to award the aforementioned contract to your company as is listed in the RFP documents and your proposal response.

This contract must be approved by the City Manager prior to award and a contract being issued.

Please feel free to contact me with any questions at 970-244-1545.

Thank you and Best Regards

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written in a cursive style.

Duane Hoff Jr., Senior Buyer



CITY OF GRAND JUNCTION, COLORADO

CONTRACT

This CONTRACT made and entered into this 8th day of January, 2018 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 JVA, 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, supplies, equipment, materials, and everything necessary and required for the Project described by the Contract Documents and known as **Professional Engineering Services for Parks Raw Water Irrigation Supply Phase I RFP-4429-17-DH.**

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:

- a. The body of this contract agreement
- b. Solicitation Documents for the Project; **Professional Engineering Services for Parks Raw Water Irrigation Supply Phase I;**
- c. Notice of Award
- d. Contractors Response to the Solicitation

- e. Work Change Requests (directing that changed work be performed);
- f. 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 Services: 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 Services 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 Services 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 Services within the time or times specified in the Solicitation.

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 Work specified in the Contract Documents, the sum of **Ninety Eight Thousand Eight Hundred and 00/100 Dollars (\$98,800.00)**. If this Contract contains unit price pay items, the Contract Price shall be adjusted in accordance with the actual quantities of items completed and accepted by the Owner at the unit prices quoted in the Solicitation Response. The amount of the Contract Price is and has heretofore been appropriated by the Grand Junction City Council for the use and benefit of this Project. The Contract Price shall not be modified except by Change Order or other written directive of the Owner. The Owner shall not issue a Change Order or other written directive which requires additional services to be performed, which services 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 services have been made.

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

ARTICLE 6

Contract Binding: The Owner and the Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party hereto in respect to all covenants, agreements and obligations contained in the Contract Documents. The Contract Documents constitute the entire agreement between the Owner and Contractor

and may only be altered, amended or repealed by a duly executed written instrument. Neither the Owner nor the Contractor shall, without the prior written consent of the other, assign or sublet in whole or in part its interest under any of the Contract Documents and specifically, the Contractor shall not assign any moneys due or to become due without the prior written consent of the Owner.

ARTICLE 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 effected thereby and all other parts, portions and provisions of the Contract shall remain in full force and effect.

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

The Contract is executed in two counterparts.

CITY OF GRAND JUNCTION, COLORADO

DocuSigned by:
Duane Hoff Jr., Senior Buyer - City of Grand Junction
By: _____ 1/9/2018 | 08:08 MST
Duane Hoff Jr., Senior Buyer _____ Date

JVA, Inc.

DocuSigned by:
Josh J. McGibbon
By: _____ 1/8/2018 | 20:09 MST
Josh J. McGibbon, P.E., Vice President, JVA, Inc. _____ Date



**Request for Proposal
RFP-4429-17-DH**

**PROFESSIONAL ENGINEERING SERVICES
FOR PARKS RAW WATER IRRIGATION
SUPPLY PHASE I**

RESPONSES DUE:

December 8, 2017 prior to 3:30 PM MST

Accepting Electronic Responses Only

**Responses Only Submitted Through the Rocky Mountain E-Purchasing System
(RMEPS)**

<https://www.rockymountainbidsystem.com/default.asp>

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

PURCHASING REPRESENTATIVE:

Duane Hoff Jr., Senior Buyer

duaneh@gjcity.org

970-244-1545

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

REQUEST FOR PROPOSAL

TABLE OF CONTENTS

Section

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

REQUEST FOR PROPOSAL

SECTION 1.0: ADMINISTRATIVE INFORMATION & CONDITIONS FOR SUBMITTAL

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

RFP QUESTIONS:

Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

- 1.2 Purpose:** The purpose of this RFP is to obtain proposals from qualified professional engineering firms to provide engineering services for the development of a raw water distribution system for purposes of delivering raw water from the City's Water Plant to City property located in west Orchard Mesa and the north side of the Colorado River water front. The services entails rehabilitation or slipline of approximately 5800 feet of abandoned 16 inch water line, extension of approximately 2050 feet of 12 to 16 inch water line, 2000 feet of rehabilitation or slipline of 2000 feet of abandoned 20-24 inch cast iron/steel then 1400 feet of 12 inch line to the proposed Riverfront at Las Colonias Park development. The proposed services include water system modeling to initially provide raw water to the cemetery, Duck Pond Park, Riverside Parkway interchange at Highway 50, Botanical Gardens, Amphitheater, and the proposed Riverfont at Las Colonias development (Phase I) and eventually to Eagle Rim Park (Phase II), Jarvis Property (Phase III) and the Riverside Park (Phase IV).
- 1.3 The Owner:** The Owner is the City of Grand Junction, Colorado and is referred to throughout this Solicitation. The term Owner means the Owner or his authorized representative.
- 1.4 Mandatory Pre-Proposal Briefing/Site Visit:** A **mandatory** pre-proposal briefing/site visit is required for all prospective offerors. The purpose will be to inspect and to clarify the contents of this Request for Proposal (RFP). Meeting location shall begin at City Hall Auditorium, 250 N. 5th Street, Grand Junction, CO on November 28, 2017 at 1:00pm. The site visit will immediately follow at the City Water Plant.

Each firm that intends to submit a proposal as the prime firm (the firm that will enter into a contract agreement with Owner) must have a representative sign in at this meeting on behalf of the prime firm. It is not acceptable for a prime firm to team-up after the fact with a firm that does attend the meeting.

- 1.5 Compliance:** All participating Offerors, by their signature hereunder, shall agree to comply with all conditions, requirements, and instructions of this RFP as stated or implied herein. Should the Owner omit anything from this packet which is necessary to the clear understanding of the requirements, or should it appear that various instructions are in conflict, the Offeror(s) shall secure instructions from the Purchasing Division prior to the date and time of the submittal deadline shown in this RFP.
- 1.6 Submission:** Please refer to section 5.0 for what is to be included. **Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-**

Purchasing website (<https://www.rockymountainbidsystem.com/default.asp>). *This site offers both “free” and “paying” registration options that allow for full access of the Owner’s documents and for electronic submission of proposals. (Note: “free” registration may take up to 24 hours to process. Please Plan accordingly.)* Please view our “**Electronic Vendor Registration Guide**” at <http://www.gjcity.org/business-and-economic-development/bids/> for details. For proper comparison and evaluation, the City requests that proposals be formatted as directed in Section 5.0 “Preparation and Submittal of Proposals.” Submittals received that fail to follow this format may be ruled non-responsive. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. **800-835-4603**).

- 1.7 Altering Proposals:** Any alterations made prior to opening date and time must be initialed by the signer of the proposal, guaranteeing authenticity. Proposals cannot be altered or amended after submission deadline.
- 1.8 Withdrawal of Proposal:** A proposal must be firm and valid for award and may not be withdrawn or canceled by the Offeror for sixty (60) days following the submittal deadline date, and only prior to award. The Offeror so agrees upon submittal of their proposal. After award this statement is not applicable.
- 1.9 Acceptance of Proposal Content:** The contents of the proposal of the successful Offeror shall become contractual obligations if acquisition action ensues. Failure of the successful Offeror to accept these obligations in a contract shall result in cancellation of the award and such vendor shall be removed from future solicitations.
- 1.10 Addenda:** All questions shall be submitted in writing to the appropriate person as shown in Section 1.1. Any interpretations, corrections and changes to this RFP or extensions to the opening/receipt date shall be made by a written Addendum to the RFP by the City Purchasing Division. Sole authority to authorize addenda shall be vested in the City of Grand Junction Purchasing Representative. Addenda will be issued electronically through the Rocky Mountain E-Purchasing website at www.rockymountainbidsystem.com. Offerors shall acknowledge receipt of all addenda in their proposal.
- 1.11 Exceptions and Substitutions:** All proposals meeting the intent of this RFP shall be considered for award. Offerors taking exception to the specifications shall do so at their own risk. The Owner reserves the right to accept or reject any or all substitutions or alternatives. When offering substitutions and/or alternatives, Offeror must state these exceptions in the section pertaining to that area. Exception/substitution, if accepted, must meet or exceed the stated intent and/or specifications. The absence of such a list shall indicate that the Offeror has not taken exceptions, and if awarded a contract, shall hold the Offeror responsible to perform in strict accordance with the specifications or scope of services contained herein.
- 1.12 Confidential Material:** All materials submitted in response to this RFP shall ultimately become public record and shall be subject to inspection after contract award. “**Proprietary or Confidential Information**” is defined as any information that is not generally known to competitors and which provides a competitive advantage. Unrestricted disclosure of proprietary information places it in the public domain. Only submittal information clearly

identified with the words "**Confidential Disclosure**" and uploaded as a separate document shall establish a confidential, proprietary relationship. Any material to be treated as confidential or proprietary in nature must include a justification for the request. The request shall be reviewed and either approved or denied by the Owner. If denied, the proposer shall have the opportunity to withdraw its entire proposal, or to remove the confidential or proprietary restrictions. Neither cost nor pricing information nor the total proposal shall be considered confidential or proprietary.

1.13 Response Material Ownership: All proposals become the property of the Owner upon receipt and shall only be returned to the proposer 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 outlined in the entitled "Confidential Material". Disqualification of a proposal does not eliminate this right.

1.14 Minimal Standards for Responsible Prospective Offerors: A prospective Offeror must affirmably demonstrate their responsibility. A prospective Offeror must meet the following requirements.

- Have adequate financial resources, or the ability to obtain such resources as required.
- Be able to comply with the required or proposed completion schedule.
- Have a satisfactory record of performance.
- Have a satisfactory record of integrity and ethics.
- Be otherwise qualified and eligible to receive an award and enter into a contract with the Owner.

1.15 Open Records: Proposals shall be received and publicly acknowledged at the location, date, and time stated herein. Offerors, their representatives and interested persons may be present. Proposals shall be received and acknowledged only so as to avoid disclosure of process. However, all proposals shall be open for public inspection after the contract is awarded. Trade secrets and confidential information contained in the proposal so identified by offer as such shall be treated as confidential by the Owner to the extent allowable in the Open Records Act.

1.16 Sales Tax: The Owner is, by statute, exempt from the State Sales Tax and Federal Excise Tax; therefore, all fees shall not include taxes.

1.17 Public Opening: Proposals shall be opened in the City Hall Auditorium, 250 North 5th Street, Grand Junction, CO, 81501, immediately following the proposal deadline. Offerors, their representatives and interested persons may be present. Only the names and locations on the proposing firms will be disclosed.

SECTION 2.0: GENERAL CONTRACT TERMS AND CONDITIONS

2.1. Acceptance of RFP Terms: A proposal submitted in response to this RFP shall constitute a binding offer. Acknowledgment of this condition shall be indicated on the Letter of Interest or Cover Letter by the autographic signature of the Offeror or an officer of the Offeror legally authorized to execute contractual obligations. A submission in response to the RFP acknowledges acceptance by the Offeror of all terms and conditions including

compensation, as set forth herein. An Offeror shall identify clearly and thoroughly any variations between its proposal and the Owner's RFP requirements. Failure to do so shall be deemed a waiver of any rights to subsequently modify the terms of performance, except as outlined or specified in the RFP.

- 2.2. Execution, Correlation, Intent, and Interpretations:** The Contract Documents shall be signed by the Owner and Contractor. By executing the contract, the Contractor represents that they have familiarized themselves with the local conditions under which the Services is to be performed, and correlated their observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by any one, shall be as binding as if required by all. The intention of the documents is to include all labor, materials, equipment, services and other items necessary for the proper execution and completion of the scope of services as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the Owner are, and shall remain, Owner property. They are not to be used on any other project.
- 2.3. Permits, Fees, & Notices:** The Contractor shall secure and pay for all permits, governmental fees and licenses necessary for the proper execution and completion of the services. The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the services. If the Contractor observes that any of the Contract Documents are at variance in any respect, he shall promptly notify the Owner in writing, and any necessary changes shall be adjusted by approximate modification. If the Contractor performs any services knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner, he shall assume full responsibility and shall bear all costs attributable.
- 2.4. Responsibility for those Performing the Services:** The Contractor shall be responsible to the Owner for the acts and omissions of all his employees and all other persons performing any of the services under a contract with the Contractor.
- 2.5. Payment & Completion:** The Contract Sum is stated in the Contract and is the total amount payable by the Owner to the Contractor for the performance of the services under the Contract Documents. Upon receipt of written notice that the services is ready for final inspection and acceptance and upon receipt of application for payment, the Owner's Project Manager will promptly make such inspection and, when they find the services acceptable under the Contract Documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Contract Documents. Partial payments will be based upon estimates, prepared by the Contractor, of the value of services performed and materials placed in accordance with the Contract Documents. The services performed by Contractor shall be in accordance with generally accepted professional practices and the level of competency presently maintained by other practicing professional firms in the same or similar type of services in the applicable community. The services and services to be performed by Contractor hereunder shall be done in compliance with applicable laws, ordinances, rules and regulations.
- 2.6. Protection of Persons & Property:** The Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain, as required by existing safeguards for safety and protection, and

all reasonable precautions, including posting danger signs or other warnings against hazards promulgating safety regulations and notifying owners and users of adjacent utilities. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct by the Contractor in the execution of the services, or in consequence of the non-execution thereof by the Contractor, they shall restore, at their own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring as may be directed, or it shall make good such damage or injury in an acceptable manner.

- 2.7. 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 documents. A Change Order/Amendment is a written order to the Contractor signed by the Owner issued after the execution of the contract, authorizing a change in the services or an adjustment in the contract sum or the contract time.
- 2.8. Minor Changes in the Services:** The Owner shall have 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 documents.
- 2.9. Uncovering & Correction of Services:** The Contractor shall promptly correct all services found by the Owner as defective or as failing to conform to the contract documents. The Contractor shall bear all costs of correcting such rejected services, including the cost of the Owner's additional services thereby made necessary. The Owner shall give such notice promptly after discover of condition. All such defective or non-conforming services under the above paragraphs shall be removed from the site where necessary and the services shall be corrected to comply with the contract documents without cost to the Owner.
- 2.10. Acceptance Not Waiver:** The Owner's acceptance or approval of any services furnished hereunder shall not in any way relieve the proposer of their present responsibility to maintain the high quality, integrity and timeliness of his services. The Owner's approval or acceptance of, or payment for, any services shall not be construed as a future waiver of any rights under this Contract, or of any cause of action arising out of performance under this Contract.
- 2.11. Change Order/Amendment:** No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All amendments to the contract shall be made in writing by the Owner.
- 2.12. Assignment:** The Offeror shall not sell, assign, transfer or convey any contract resulting from this RFP, in whole or in part, without the prior written approval from the Owner.
- 2.13. Compliance with Laws:** Proposals must comply with all Federal, State, County and local laws governing or covering this type of service and the fulfillment of all ADA (Americans with Disabilities Act) requirements. Contractor hereby warrants that it is qualified to assume the responsibilities and render the services described herein and has all requisite corporate authority and professional licenses in good standing, required by law.

- 2.14. Debarment/Suspension:** The Contractor hereby certifies that the Contractor is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Governmental department or agency.
- 2.15. Confidentiality:** All information disclosed by the Owner to the Offeror for the purpose of the services to be done or information that comes to the attention of the Offeror during the course of performing such services is to be kept strictly confidential.
- 2.16. Conflict of Interest:** No public official and/or Owner employee shall have interest in any contract resulting from this RFP.
- 2.17. Contract:** This Request for Proposal, submitted documents, and any negotiations, when properly accepted by the Owner, shall constitute a contract equally binding between the Owner and Offeror. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral, including the Proposal documents. The contract may be amended or modified with Change Orders, Field Orders, or Amendment.
- 2.18. Project Manager/Administrator:** The Project Manager, on behalf of the Owner, shall render decisions in a timely manner pertaining to the services proposed or performed by the Offeror. The Project Manager shall be responsible for approval and/or acceptance of any related performance of the Scope of Services.
- 2.19. Contract Termination:** This contract shall remain in effect until any of the following occurs: (1) contract expires; (2) completion of services; (3) acceptance of services or, (4) for convenience terminated by either party with a written *Notice of Cancellation* stating therein the reasons for such cancellation and the effective date of cancellation at least thirty days past notification.
- 2.20. Employment Discrimination:** During the performance of any services per agreement with the Owner, the Offeror, by submitting a Proposal, agrees to the following conditions:
- 2.20.1. The Offeror shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, disability, citizenship status, marital status, veteran status, sexual orientation, national origin, or any legally protected status except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Offeror. The Offeror agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
 - 2.20.2. The Offeror, in all solicitations or advertisements for employees placed by or on behalf of the Offeror, shall state that such Offeror is an Equal Opportunity Employer.
 - 2.20.3. Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.

- 2.21. Immigration Reform and Control Act of 1986 and Immigration Compliance:** The Offeror certifies that it does not and will not during the performance of the contract employ illegal alien servicesers or otherwise violate the provisions of the Federal Immigration Reform and Control Act of 1986 and/or the immigration compliance requirements of State of Colorado C.R.S. § 8-17.5-101, *et.seq.* (House Bill 06-1343).
- 2.22. Ethics:** The Offeror shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official, or agent of the Owner.
- 2.23. Failure to Deliver:** In the event of failure of the Offeror to deliver services in accordance with the contract terms and conditions, the Owner, after due oral or written notice, may procure the services from other sources and hold the Offeror responsible for any costs resulting in additional purchase and administrative services. This remedy shall be in addition to any other remedies that the Owner may have.
- 2.24. 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 at any time in accordance with its terms.
- 2.25. Force Majeure:** The Offeror 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 Offeror, unless otherwise specified in the contract.
- 2.26. Indemnification:** Offeror 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 Offeror, or of any Offeror's agent, employee, subcontractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Offeror shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.
- 2.27. Independent Firm:** The Offeror shall be legally considered an Independent Firm 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 Tax or any other amounts for benefits to the Firm. Further, the Owner shall not provide to the Firm any insurance coverage or other benefits, including Servicesers' Compensation, normally provided by the Owner for its employees.
- 2.28. Nonconforming Terms and Conditions:** A proposal that includes terms and conditions that do not conform to the terms and conditions of this Request for Proposal is subject to rejection as non-responsive. The Owner reserves the right to permit the Offeror to withdraw nonconforming terms and conditions from its proposal prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.

- 2.29. Ownership:** All plans, prints, designs, concepts, etc., shall become the property of the Owner.
- 2.30. Oral Statements:** No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this document and/or resulting agreement. All modifications to this request and any agreement must be made in writing by the Owner.
- 2.31. Patents/Copyrights:** The Offeror agrees to protect the Owner from any claims involving infringements of patents and/or copyrights. In no event shall the Owner be liable to the Offeror for any/all suits arising on the grounds of patent(s)/copyright(s) infringement. Patent/copyright infringement shall null and void any agreement resulting from response to this RFP.
- 2.32. Venue:** Any agreement as a result of responding to this RFP shall be deemed to have been made in, and shall be construed and interpreted in accordance with, the laws of the City of Grand Junction, Mesa County, Colorado.
- 2.33. Expenses:** Expenses incurred in preparation, submission and presentation of this RFP are the responsibility of the company and can not be charged to the Owner.
- 2.34. Sovereign Immunity:** The Owner specifically reserves its right to sovereign immunity pursuant to Colorado State Law as a defense to any action arising in conjunction to this agreement.
- 2.35. Public Funds/Non-Appropriation of Funds:** Funds for payment have been provided through the Owner's budget approved by the City Council/Board of County Commissioners for the stated fiscal year only. State of Colorado statutes prohibit the obligation and expenditure of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated orders or other obligations that may arise past the end of the stated Owner's fiscal year shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.
- 2.36. Collusion Clause:** Each Offeror by submitting a proposal certifies that it is not party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any and all proposals shall be rejected if there is evidence or reason for believing that collusion exists among the proposers. The Owner may or may not, at the discretion of the Owner Purchasing Representative, accept future proposals for the same service or commodities for participants in such collusion.
- 2.37. Gratuities:** The Contractor certifies and agrees that no gratuities or kickbacks were paid in connection with this contract, nor were any fees, commissions, gifts or other considerations made contingent upon the award of this contract. If the Contractor breaches or violates this warranty, the Owner may, at their discretion, terminate this contract without liability to the Owner.
- 2.38. Performance of the Contract:** The Owner reserves the right to enforce the performance of the contract in any manner prescribed by law or deemed to be in the best interest of the Owner in the event of breach or default of resulting contract award.

- 2.39. Benefit Claims:** The Owner shall not provide to the Offeror any insurance coverage or other benefits, including Serviceser's Compensation, normally provided by the Owner for its employees.
- 2.40. Default:** The Owner reserves the right to terminate the contract in the event the Contractor fails to meet delivery or completion schedules, or otherwise perform in accordance with the accepted proposal. Breach of contract or default authorizes the Owner to purchase like services elsewhere and charge the full increase in cost to the defaulting Offeror.
- 2.41. Multiple Offers:** If said proposer chooses to submit more than one offer, THE ALTERNATE OFFER must be clearly marked "Alternate Proposal". The Owner reserves the right to make award in the best interest of the Owner.
- 2.42. Cooperative Purchasing:** Purchases as a result of this solicitation are primarily for the Owner. Other governmental entities may be extended the opportunity to utilize the resultant contract award with the agreement of the successful provider and the participating agencies. All participating entities will be required to abide by the specifications, terms, conditions and pricings established in this Proposal. The quantities furnished in this proposal document are for only the Owner. It does not include quantities for any other jurisdiction. The Owner will be responsible only for the award for our jurisdiction. Other participating entities will place their own awards on their respective Purchase Orders through their purchasing office or use their purchasing card for purchase/payment as authorized or agreed upon between the provider and the individual entity. The Owner accepts no liability for payment of orders placed by other participating jurisdictions that choose to piggy-back on our solicitation. Orders placed by participating jurisdictions under the terms of this solicitation will indicate their specific delivery and invoicing instructions.
- 2.43. Definitions:**
- 2.43.1. "Offeror" and/or "Proposer" refers to the person or persons legally authorized by the Consultant to make an offer and/or submit a response (fee) proposal in response to the Owner's RFP.
- 2.43.2. The term "Services" includes all labor, materials, equipment, and/or services necessary to produce the requirements of the Contract Documents.
- 2.43.3. "Contractor" is the person, organization, firm or consultant identified as such in the Agreement and is referred to throughout the Contract Documents. The term Contractor means the Contractor or his authorized representative. The Contractor shall carefully study and compare the General Contract Conditions of the Contract, Specification and Drawings, Scope of Services, Addenda and Modifications and shall at once report to the Owner any error, inconsistency or omission he may discover. Contractor shall not be liable to the Owner for any damage resulting from such errors, inconsistencies or omissions. The Contractor shall not commence services without clarifying Drawings, Specifications, or Interpretations.
- 2.43.4. "Sub-Contractor is a person or organization who has a direct contract with the Contractor to perform any of the services at the site. The term sub-contractor is referred to throughout the contract documents and means a sub-contractor or his authorized representative.

- 2.44. Public Disclosure Record:** If the Proposer has knowledge of their employee(s) or sub-proposers having an immediate family relationship with an Owner employee or elected official, the proposer must provide the Purchasing Representative with the name(s) of these individuals. These individuals are required to file an acceptable "Public Disclosure Record", a statement of financial interest, before conducting business with the Owner.

SECTION 3.0: INSURANCE REQUIREMENTS

- 3.1 Insurance Requirements:** The selected Firm agrees to procure and maintain, at its own cost, policy(s) of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by the Firm pursuant to this Section. Such insurance shall be in addition to any other insurance requirements imposed by this Contract or by law. The Firm shall not be relieved of any liability, claims, demands, or other obligations assumed pursuant to this Section by reason of its failure to procure or maintain insurance in sufficient amounts, durations, or types.

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 pursuant to this Section. 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:** Contractor shall comply with all State of Colorado Regulations concerning Workers' Compensation insurance coverage.

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

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

The policy shall be applicable 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 include coverage for explosion, collapse, and underground (XCU) hazards. The policy shall contain a severability of interests 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) each occurrence and
ONE MILLION DOLLARS (\$1,000,000) aggregate

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

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

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

With respect to each of Consultant's owned, hired, or non-owned vehicles assigned to be used in performance of the Services. The policy shall contain a severability of interests provision.

- 3.2 Additional Insured Endorsement:** The policies required by paragraphs (b), and (c) above shall be endorsed to include the Owner and the Owner's officers and employees as additional insureds. Every policy required 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 Contractor. The Contractor shall be solely responsible for any deductible losses under any policy required above.

SECTION 4.0: SPECIFICATIONS/SCOPE OF SERVICES

- 4.1. General/Background:** The City is developing the proposed Riverfront at Las Colonias Park development. In evaluation of various potential irrigation sources, it was determined to develop a new raw water distribution system from the City of Grand Junction water plant to various park properties located on West Orchard Mesa and the north side of the Colorado River. The first phase is envisioned to deliver raw water for irrigation of the City Cemetery, Duck Pond Park, Riverside Parkway at Highway 50 interchange, Botanical Gardens, Amphitheater and the proposed Riverfront at Las Colonias development. Later phases will extend the system to Eagle Rim Park (Phase II), Jarvis Property (Phase III), and Riverside Park (Phase IV).

The work entails valving and piping at the City Water Plant Raw Water Reservoir, rehabilitation or slipline of approximately 5800 feet of abandoned 16 inch water line, extension of approximately 2050 feet of 12 to 16 inch water line within CDOT's Hwy 50 right-of-way including the Highway 50 Colorado River Bridge, 2000 feet of rehabilitation or slipline of abandoned 20-24 inch cast iron/steel then 1400 feet of 12 inch line to the proposed Riverfront at Las Colonias Park development.

The project scope includes system modeling for Phases I-IV, Phase I final design, including development of construction drawings and specifications.

- 4.2. Special Conditions/Provisions:**

4.2.1 Price/Fees: Project pricing shall be all inclusive, to include, but not be limited to: labor, materials, equipment, travel, drawings, engineering work, shipping/freight, licenses, permits, fees, etc.

Provide a complete list of costs using Solicitation Response Form found in Section 7. Provide a total cost sum using Solicitation Response Form found in Section 7, accompanied by a complete list of costs breakdown. **Firm shall provide this Fee Proposal electronically with their bid submission as a separate electronic file titled "Fee Proposal".**

All fees will be considered by the Owner to be negotiable. The fee proposals will not be opened by the Owner until a prospective awarded firm has been determined. Then, only the fee proposal of the successful preferred proposer will be opened. However, the Owner reserves the right to open competing fee proposals and consider their contents if a contract agreement cannot be negotiated with the number one selected firm or if it is considered in the best interest of the Owner to do so.

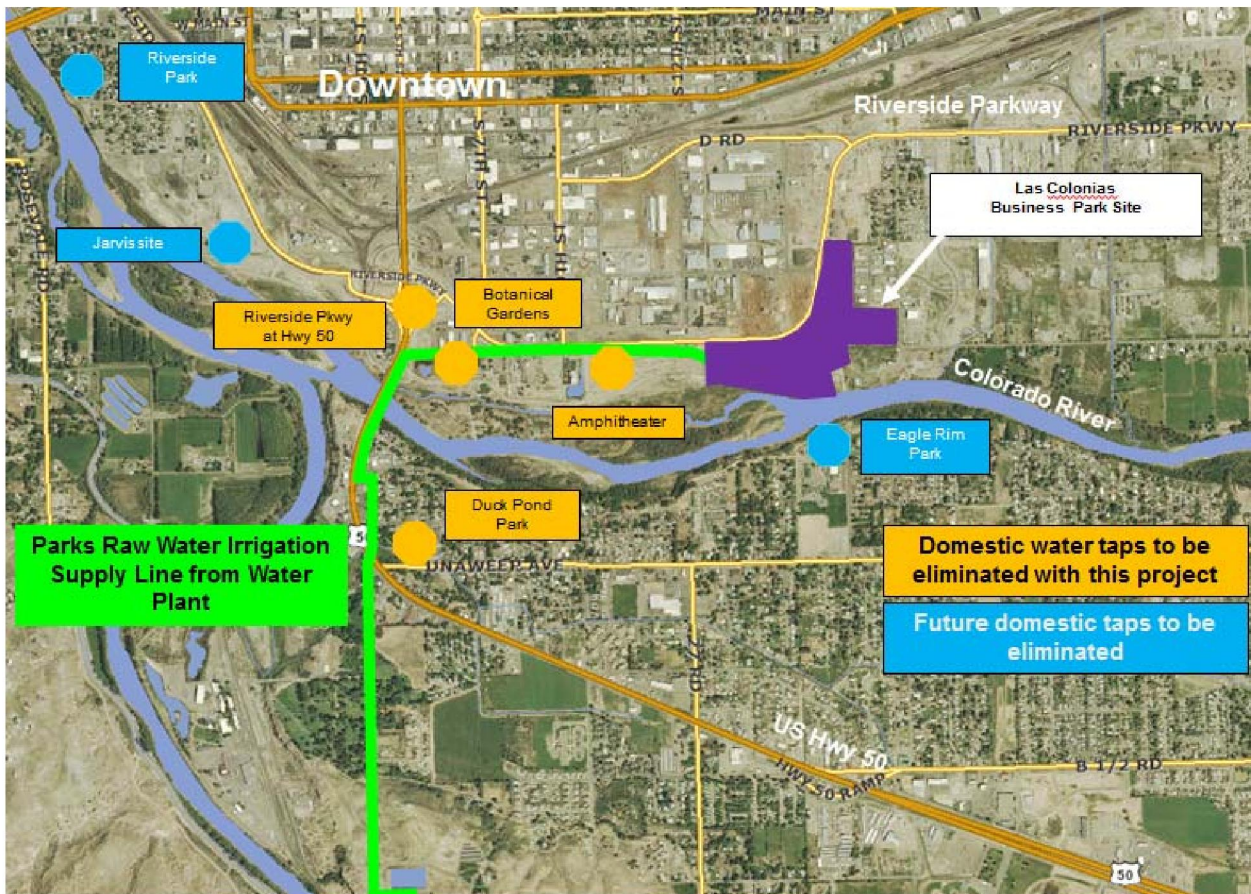
4.2.2 Codes: Contractor shall ensure that project design, scope, and specifications meets all Federal, State, County, and City Codes.

4.3. Specifications/Scope of Services:

- 4.3.1. The City has already surveyed the proposed alignment on Struthers Ave and has developed base mapping for the proposed Phase I corridor based on previous design work, as-builts and GIS data. Any additional surveying will be completed by the City.
- 4.3.2. The City has developed proposed demands at each of the various areas to be served as shown in Attachment 1.
- 4.3.3. Consultant Engineer will develop and model proposed system for Phases I-IV.

WaterGEMS by Bentley is the preferred software.

- Phase I City Cemetery, Duck Pond Park, Riverside Parkway at Highway 50 interchange, Botanical Gardens, Amphitheater and the proposed Riverfront at Las Colonias development.
- Phase II Eagle Rim Park
- Phase III Proposed Jarvis Property
- Phase IV Riverside Park



- 4.3.4. Consultant Engineer will develop final construction drawings and specifications for Phase I which includes work depicted on conceptual design provided on Attachment 2 and described as follows:
- 4.3.4.1. Valving and piping at the City Water Plant Raw Water Reservoirs.
 - 4.3.4.2. Rehabilitation of approximately 5800 feet of abandoned 16 inch water line from the water plant north to Grand Mesa Ave serving multiple taps at the cemetery and Duck Pond Park.
 - 4.3.4.3. Extension of approximately 2050 feet of 12-16 inch water line within CDOT's Hwy 50 right-of-way including the Highway 50 Colorado River Bridge to west end of Struthers Avenue. This includes a 500 foot extension to 2 inch meter at Riverside Parkway Interchange. From initial discussions with CDOT it appears that the western most bay will accommodate the pipe and will include coring and structural modification of the south abutment wall. The northern terminus of the crossing will be the north side of the last pier line prior to the north abutment.
 - 4.3.4.4. 2000 feet of rehabilitation or slipline of abandoned 20-24 inch cast iron/steel. This includes service tap(s) to Botanical Gardens.
 - 4.3.4.5. 1400 feet of 12 inch line to the proposed Riverfront at Las Colonias Park development including 250 foot, 4 inch service to Amphitheater and 350 foot, 2 inch service to existing irrigation tap on the east side of the Amphitheater parking lot.
 - 4.3.4.6. Lead investigation of three potential conflict areas shown in green on Attachment 2. City crews will conduct the work under the consultant's direction.
 - 4.3.4.7. Permitting for work within CDOT right-of-way including CDOT's staff bridge unit for modifications to the Colorado River Bridge to accommodate the new pipe infrastructure. Work will be permitted and coordinated through Joel Berschauer, Region 3 Utility and Special Use permit Coordinator. City staff has already met with Mr. Berschauer, however initial contact with staff bridge has not been made. **CONSULTANTS ARE NOT TO CONTACT CDOT DIRECTLY DURING PROPOSAL PHASE.** Any questions of CDOT during the proposal phase shall be made in accordance with section 4.6 below.
 - 4.3.4.8. CDOT will be replacing the Hwy 141 (32 Road) Colorado River Bridge south of Clifton between March and December 2017 reducing the capacity of the road and most likely pushing traffic loads to 29 Road and Hwy 50 Colorado River crossing. Consultant shall help develop design and sequencing to construct the related improvements with minimal impact to directional peak hour traffic.
 - 4.3.4.9. Permitting with the Army Corp of Engineers, if required. The northern terminus of the crossing will be the north side of the last pier line prior to the north abutment. Travis Morse is the local contact. **CONSULTANTS ARE NOT TO CONTACT THE ARMY CORP OF ENGINEERS DIRECTLY DURING THE PROPOSAL PHASE.** Any questions of Army Corp of Engineers during the proposal phase shall be made in accordance with Section 4.6 of these solicitation documents.
- 4.4. Mandatory Pre-Proposal Briefing/Site Visit:** A mandatory pre-proposal briefing/site visit is required for all prospective offerors. The purpose will be to inspect and to clarify the contents of this Request for Proposal (RFP). Meeting location shall begin at City Hall Auditorium, 250 N. 5th Street, Grand Junction, CO on November 28, 2017 at 1:00pm. The site visit will immediately follow at the City Water Plant.

Each firm that intends to submit a proposal as the prime firm (the firm that will enter into a contract agreement with Owner) must have a representative sign in at this meeting on behalf of the prime firm. It is not acceptable for a prime firm to team-up after the fact with a firm that does attend the meeting.

4.5. RFP Tentative Time Schedule:

- | | |
|--|-------------------|
| • Request for Proposal available | November 17, 2017 |
| • Mandatory Pre-Proposal Meeting/Site Visit | November 28, 2017 |
| • Inquiry deadline, no questions after this date | December 1, 2017 |
| • Addendum Posted | December 5, 2017 |
| • Submittal deadline for proposals | December 8, 2017 |
| • Owner evaluation | December 15, 2017 |
| • Final selection | December 15, 2017 |
| • Contract execution | December 22, 2017 |
| • Advertise for bids | May 2018 |
| • Award construction contract | June 2018 |
| • Construction | July-Sept 2018 |

4.6. Questions Regarding Scope of Services:

Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

SECTION 5.0: PREPARATION AND SUBMITTAL OF PROPOSALS

Submission: Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidsystem.com/default.asp>). This site offers both “free” and “paying” registration options that allow for full access of the Owner’s documents and for electronic submission of proposals. (Note: “free” registration may take up to 24 hours to process. Please Plan accordingly.) Please view our “**Electronic Vendor Registration Guide**” at <http://www.gjcity.org/BidOpenings.aspx> for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline **800-835-4603**). For proper comparison and evaluation, the City requests that proposals be formatted as directed in Section 5.0 “Preparation and Submittal of Proposals.” Offerors are required to indicate their interest in this Project, show their specific experience and address their capability to perform the Scope of Services in the Time Schedule as set forth herein. For proper comparison and evaluation, the Owner requires that proposals be formatted **A to F**:

- A. Cover Letter:** Cover letter shall be provided which explains the Firm’s interest in the project. The letter shall contain the name/address/phone number/email of the person who will serve as the firm's principal contact person with Owner’s Contract Administrator and shall identify individual(s) who will be authorized to make presentations on behalf of the firm. The statement shall bear the signature of the person having proper authority to make formal commitments on behalf of the firm. By submitting a response to this solicitation the Contractor agrees to all requirements herein.
- B. Qualifications/Experience/Credentials:** Proposers shall provide their qualifications for consideration as a contract provider to the City of Grand Junction and include prior experience in similar projects.
- C. Strategy and Implementation Plan:** Describe your (the firm’s) interpretation of the Owner’s objectives with regard to this RFP. Describe the proposed strategy and/or plan for achieving the objectives of this RFP. The Firm may utilize a written narrative or any other printed technique to demonstrate their ability to satisfy the Scope of Services. The narrative should describe a logical progression of tasks and efforts starting with the initial steps or tasks to be accomplished and continuing until all proposed tasks are fully described and the RFP objectives are accomplished. Include a **time schedule** for completion of your firm’s implementation plan and an estimate of time commitments from Owner staff.
- D. References:** A minimum of three (3) **references** with name, address, telephone number, and email address that can attest to your experience in projects of similar scope and size.
- E. Fee Proposal:** Provide a complete list of costs using Solicitation Response Form found in Section 7. Provide a total cost sum using Solicitation Response Form found in Section 7, accompanied by a complete list of costs breakdown. **Firm shall provide this Fee Proposal electronically with their bid submission as a separate electronic file titled “Fee Proposal”.**

- F. **Additional Data (optional):** Provide any additional information that will aid in evaluation of your qualifications with respect to this project.

SECTION 6.0: EVALUATION CRITERIA AND FACTORS

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

Submittal evaluations will be done in accordance with the criteria and procedure defined herein. The Owner reserves the right to reject any and all portions of proposals and take into consideration past performance. The following parameters will be used to evaluate the submittals (in no particular order of priority):

- Responsiveness of submittal to the RFP
- Understanding of the project and the objectives
- Experience/Demonstrated capability
- Necessary resources
- Strategy & Implementation Plan
- References
- Financial Stability
- Fees

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

The Owner will undertake negotiations with the top rated firm and will not negotiate with lower rated firms unless negotiations with higher rated firms have been unsuccessful and terminated.

- 6.3 **Oral Interviews:** Interviews are not anticipated for this solicitation process. However, the Owner reserves the right to invite the most qualified rated proposer(s) to participate in oral interviews, if needed.
- 6.4 **Award:** Firms shall be ranked or disqualified based on the criteria listed in Section 6.2. The Owner reserves the right to consider all of the information submitted and/or oral presentations, if required, in selecting the project Contractor.

SECTION 7.0: SOLICITATION RESPONSE FORM
RFP-4429-17-DH PROFESSIONAL ENGINEERING SERVICES FOR PARKS RAW WATER IRRIGATION
SUPPLY PHASE I

Offeror must submit entire Form completed, dated and signed.

1) Total cost to provide all labor, parts, supplies, equipment and installation necessary for the Professional Engineering Services for Final Design of Parks Raw Water Irrigation Supply Phase I per specifications:

TOTAL COST \$ _____

WRITTEN: _____ **dollars.**

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 Proposals and therefore submits the proposal and schedule of fees and services attached hereto.

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

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

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

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

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

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

Company Name – (Typed or Printed)

Authorized Agent – (Typed or Printed)

Authorized Agent Signature

Phone Number

Address of Offeror

E-mail Address of Agent

City, State, and Zip Code

Date

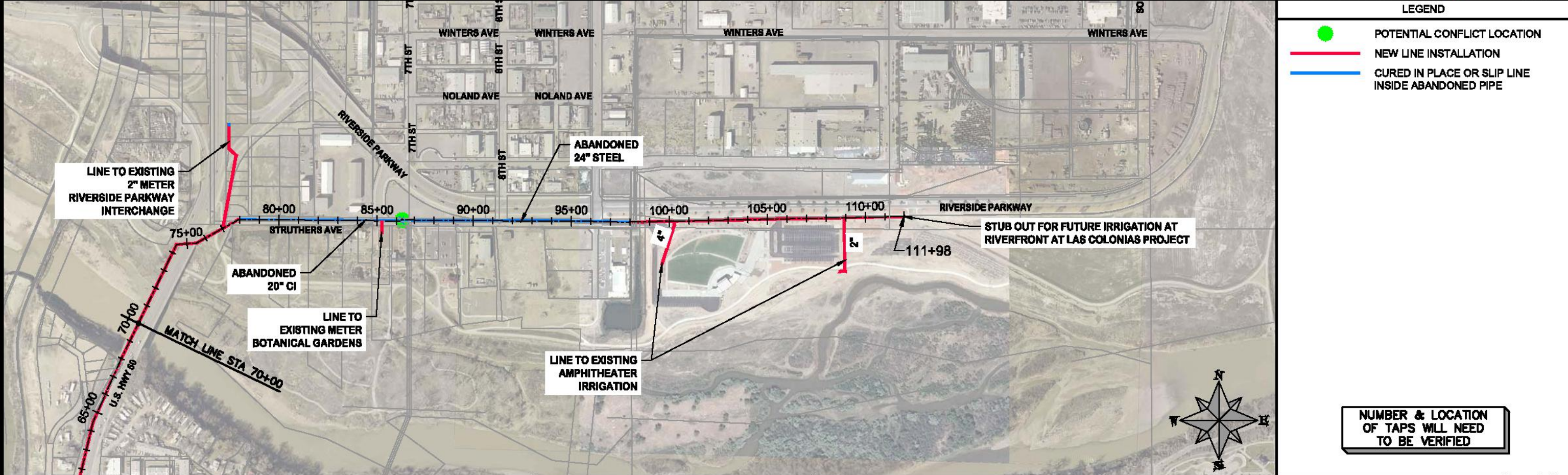
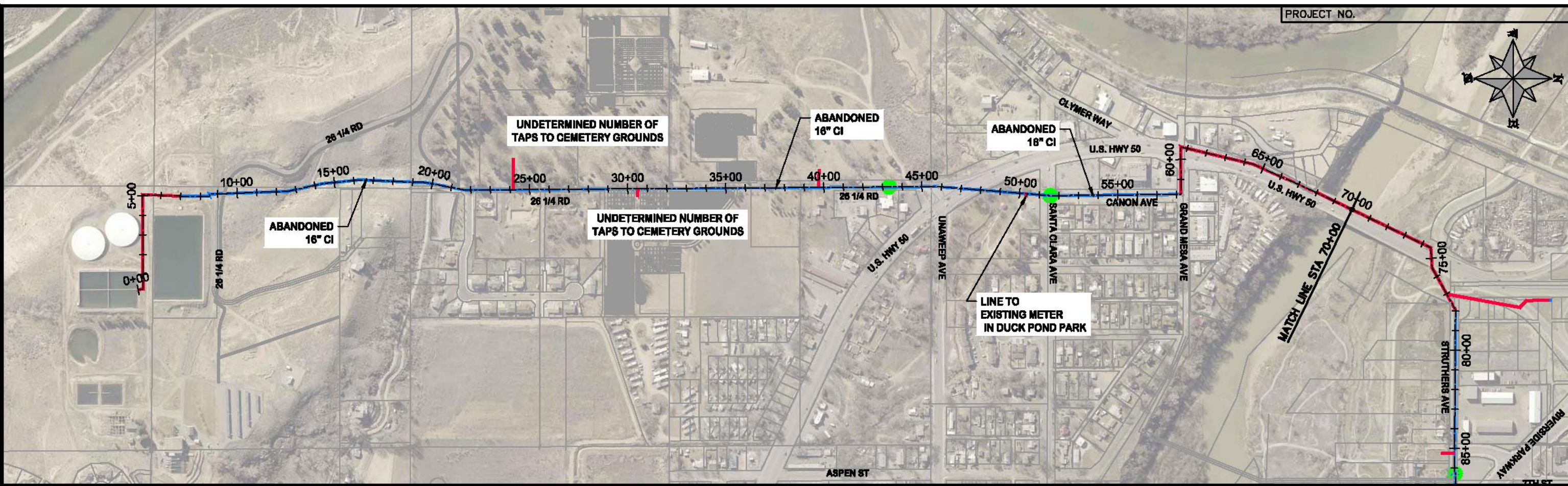
Project: Las Colonias Park Irrigation Feasibility

Subject: Theoretical demands

54 " Bluegrass

36 " Xeric / Buffalo

Irrigation Demands	Area (Acres)	Average Irrigated Acres	Irrigated Acres	Landscape Type	Average Theoretical Annual Consumption Cubic Ft (CF)	Annual Theoretical Water consumption (gallons)	Peak gallons/month (25%)	Average Peak gallons per day	Hours watered per day	Avg/gpm/peak	Avg/CFS /peak
Cemetery	60	70%	42	Blue	8,232,840	61,581,643	15,395,411	513,180	24	356.4	0.794
Duck Pond Park	4.63	65%	3	Blue	589,922	4,412,618	1,103,154	36,772	8	76.6	0.171
Riverside Pkwy @ Hwy 50	2.34	75%	2	Blue	344,015	2,573,233	643,308	21,444	8	44.7	0.100
Botanical Gardens	9	50%	5	Xeric	588,060	4,398,689	1,099,672	36,656	8	76.4	0.170
Amphitheater	7	60%	4	Blue	823,284	6,158,164	1,539,541	51,318	8	106.9	0.238
Business Park	35	50%	17.50	Blue	3,430,350	25,659,018	6,414,755	213,825	8	445.5	0.993
- Swimmable (7 months)					3,628,800	27,143,424	3,877,632	129,254	24	89.8	0.200
Eagle Rim Park	8	56%	4	Blue	878,170	6,568,709	1,642,177	54,739	8	114.0	0.254
Jarvis (incl east of Pkwy)	43	50%	22	Blue	4,214,430	31,523,936	7,880,984	262,699	8	547.3	1.219
Riverside Park	1.5	65%	1	Blue	191,120	1,429,574	357,393	11,913	8	24.8	0.055
	170.47		99.92		22,920,990	171,449,008	39,954,028	1,331,801			4.194



LEGEND

- POTENTIAL CONFLICT LOCATION
- NEW LINE INSTALLATION
- CURED IN PLACE OR SLIP LINE INSIDE ABANDONED PIPE

NUMBER & LOCATION OF TAPS WILL NEED TO BE VERIFIED



N:\Landscape\2017 Las Colonias Business Park\dwg\Phase I\2017 Las Colonias Irrigation Source\dwg\LC Irr Source.dwg, 11x17 Border (2), 11/8/2017 1:20:34 PM

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION			HMC	2017
REVISION			HMC	2017
REVISION			TP	2017
REVISION			JP	2017

SCALES: PLAN & PROFILE
 HORIZONTAL: 1" = 500'
 0 125 250 500
 VERTICAL: 1" = 10'



PUBLIC WORKS ENGINEERING DIVISION

PARKS RAW WATER IRRIGATION SUPPLY LINE PHASE I CONCEPTUAL DESIGN



Purchasing Division

ADDENDUM NO. 1

DATE: December 5, 2017
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Professional Engineering Services for Parks Raw Water Irrigation Supply Phase I

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. Q. Will the City be providing the required surveying for the project?
A. As stated in 4.3.1, City will provide any additional surveying required for the project.
2. Q. Who is responsible for Geotechnical services?
A. Geotechnical services shall be the responsibility of the Firm. For the purposes of the fee portion of the proposal anticipate four bores.
3. Q. Are existing pipes cast iron or steel? Please clarify.
A. -16 inch Cast iron from Station 7+00 through 52+00
-16 inch Cast iron or asbestos cement from Station 52+00 (Santa Clara) to 58+00 (Grand Mesa Ave)
-20 inch Cast Iron from 78+00 (Struthers and 5th Street) to 86+00 (Struthers and 7th Street)
-24 inch Steel from 86+00 to 98+00.
4. Q. Will the City be able to confirm the state of integrity of existing pipes?
A. City will work with the Firm on potential conflict areas, as noted by green circle areas on conceptual design, as well as verifying the integrity of the existing pipes.
5. Q. Does CDOT want "open trenches" or "boring"?
A. The initial discussion with CDOT was for open trenching. The selected Firm shall help determine the cost effectiveness of open trenching vs boring.
6. Q. Are "rights of ways" addressed for this project?
A. All rights of ways appear to be in order.
7. Q. Can the City provide "as-builts" for the reservoirs?
A. See Attached drawings:
 - a. Settling Basin
 - b. Improvements to Water Supply System Filter Plant Area – Asbuilt 1948
 - c. Duck Pond Park Lift Station Elimination – Water line Replacement Plans - 2005
8. Q. What type of outlet structure are you looking for?
A. Contractor is to core through wall, place and grout pipe and place a valve on the outside of wall.

9. Q. Will the facility be in operation year round?
- A. The facility is anticipated to be in service from early March through November. Plan must be able to winterize any exposed pipe. Isolation valves on either side are required.
10. Q. Are there "as-builts" for the bridge?
- A. CDOT maintains as-builts for all of their bridges. If selected, Region 3 staff can provide digital copies to the Firm.
- B. Additional information is provided at the following links. The bridge structure is broken into two structures: H-02-CA (west portion) and H-02DZ (east portion)
- a. <http://dtdapps.coloradodot.info/bridges/H-02-CA/photos.htm>
- b. <http://dtdapps.coloradodot.info/bridges/H-02-DZ/photos.htm>
11. Q. Is CDOT totally set on leaving the line run down the west side of the bridge?
- A. CDOT would be flexible to other alternatives. The west side was selected due to the inside bay of the east side was already occupied. Utilization of the first bay allows for top down construction.
12. Q. Can the line run on the outside of the west girder?
- A. CDOT current practice is not to allow utilities on the outside girders of bridges and in this case a gas line is already present.
13. Q. Will the City also be seeking professional Construction Management and Inspection services in support of this project?
- A. Construction management will be provided by the City of Grand Junction. The consultant would most likely be retained for inspection services as they pertain to the bridge structure but element of scope is not to be included in fee proposal and will be negotiated separately.
14. Q. What is the intended delivery method the City will be using to deliver this project?
- A. Project delivery is anticipated to be design, bid, build.
15. Q. Would the City prefer SCADA design for control of the Gunnison River Pump Station, and inflow from the Kannah Creek or Purdy Mesa Flow line, to the raw water reservoir? Just Gunnison River Pump Station?
- A. SCADA design is limited to Gunnison River Pump Station and the raw water reservoir. Inflows from the Kannah Creek and Purdy Mesa Flow lines are already controlled at the water treatment plant.
16. Q. At what phase of design would the City prefer to hold design review meetings?
- A. Meetings are proposed at Project Kickoff, 30%, and 90% and during the pre-bid meeting.

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

All other conditions of subject remain the same.

Respectfully,



Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado

Present 20" Outlet
to Supply Line
Present 20" Outlet
to 13 1/2 M Reservoir

NOTE -
All tile to be 4" Drain Tile

4" Tile Drain

4" Tile Drain

20" C.I. Gate Valves

12" C.I. Drain

4" C.I. Gate Valves

12" C.I. Gate Valves

20" C.I. Supply Pipe

20" C.I. Gate Valve

12" - 90° Bend
Syphon & Drain

4" Tile Drain

4" Tile Drain

SCALE 3/32" = 1'

CITY OF
GRAND JUNCTION
COLORADO

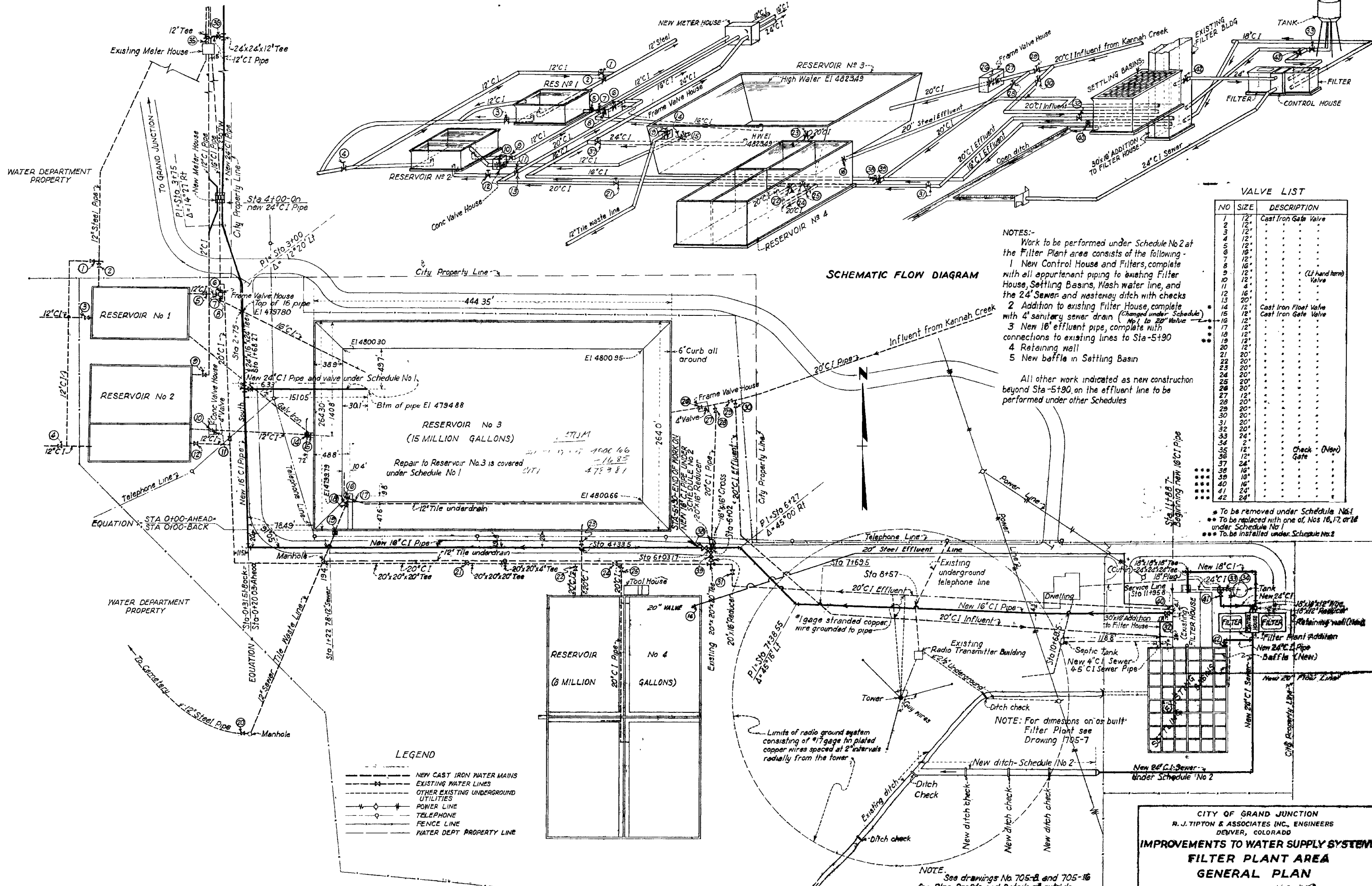
PIPING LAYOUT

SETTLING BASIN
AND RESERVOIR

DRAWN BY: J.F.S.
O.K'd BY: J.F.S.
DATE: 8/29 1933

APPROVED: STATE ENGR (RKA.)
DATE: 1933





VALVE LIST

NO	SIZE	DESCRIPTION
1	12"	Cast Iron Gate Valve
2	12"	.....
3	12"	.....
4	12"	.....
5	12"	.....
6	16"	.....
7	16"	.....
8	12"	.....
9	12"	.....
10	12"	.....
11	4"	.....
12	16"	.....
13	20"	.....
14	12"	Cast Iron Float Valve
15	12"	Cast Iron Gate Valve
16	12"	.....
17	12"	.....
18	12"	.....
19	12"	.....
20	12"	.....
21	20"	.....
22	20"	.....
23	20"	.....
24	20"	.....
25	20"	.....
26	20"	.....
27	12"	.....
28	20"	.....
29	20"	.....
30	20"	.....
31	20"	.....
32	20"	.....
33	24"	.....
34	2"	.....
35	12"	.....
36	12"	.....
37	24"	.....
38	16"	.....
39	16"	.....
40	16"	.....
41	24"	.....
42	24"	.....

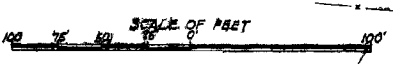
NOTES:-
 Work to be performed under Schedule No 2 at the Filter Plant area consists of the following -
 1 New Control House and Filters, complete with all appurtenant piping to existing Filter House, Settling Basins, Wash water line, and the 24" Sewer and wasteway ditch with checks
 2 Addition to existing Filter House, complete with 4" sanitary sewer drain (Changed under Schedule No 1 to 20" Valve)
 3 New 16" effluent pipe, complete with connections to existing lines to Sta-5+90
 4 Retaining wall
 5 New baffle in Settling Basin

All other work indicated as new construction beyond Sta-5+90, on the effluent line to be performed under other Schedules

*** To be removed under Schedule No.1
 ** To be replaced with one of, Nos 16, 17, or 18 under Schedule No 1
 *** To be installed under Schedule No.2

REVISIONS

NO	DATE	DESCRIPTION	BY
2	8-13-48	As built	FBC
1	10-22-46	Deleted Contract Nos - Added Schedule Nos	F.W.



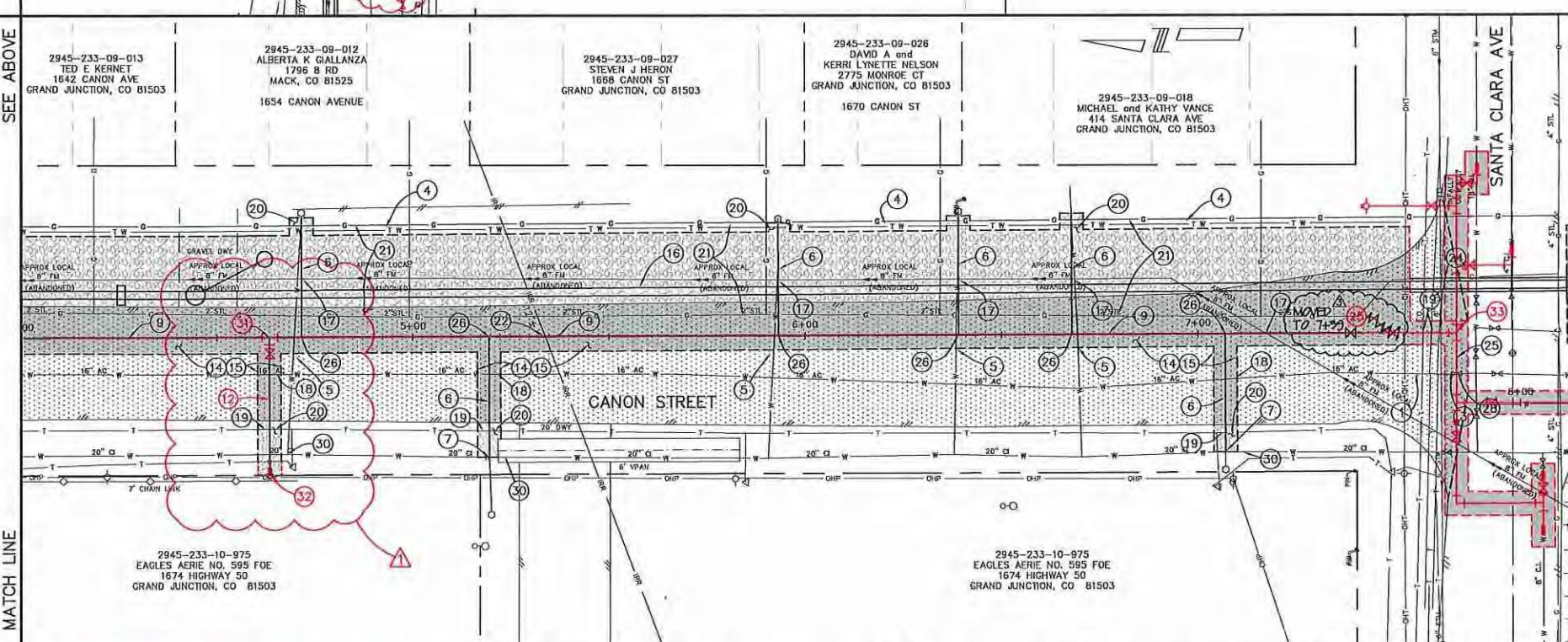
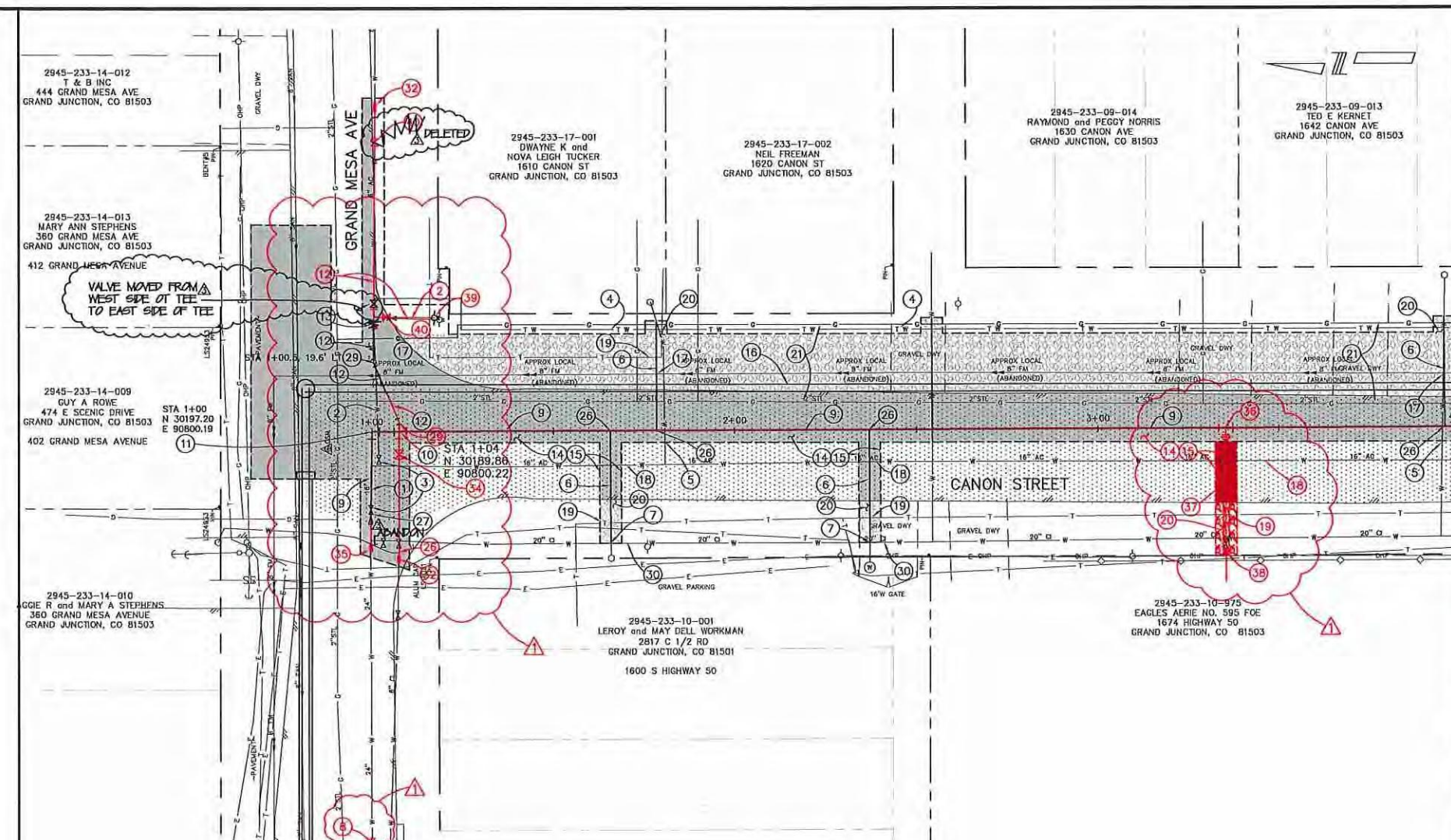
NOTE: See drawings No 705-8 and 705-16 for Plan, Profile, and Details of outside piping under Schedule No 2
 See Drawing No 705-19 for General Notes
 See Drawing No 705-16 for Equation in Elevations.

CITY OF GRAND JUNCTION
 R. J. TIPTON & ASSOCIATES INC., ENGINEERS
 DENVER, COLORADO

**IMPROVEMENTS TO WATER SUPPLY SYSTEM
 FILTER PLANT AREA
 GENERAL PLAN**

APPROVED: [Signature]
 CHECKED: [Signature]

DENVER, COLORADO, JULY 1948



- SEE BELOW
- MATCH LINE
- 1 202 - REMOVE EXISTING 16" AC WATERLINE.
 - 2 202 - REMOVE EXISTING 6" AC WATERLINE.
 - 3 202 - REMOVE EXISTING WATER VALVE AND RETURN TO CITY SHOPS.
 - 4 CITY CREWS WILL BE PROVIDING WATER SERVICE THROUGH A TEMPORARY WATER LINE FOR THE RESIDENCES ON THE EAST SIDE OF CANON.
 - 5 202 - CAP EXISTING WATER SERVICE. WATER SERVICE WILL BE CAPPED OFF AT THE WEST EDGE OF TRENCH. REMOVE EXISTING WATER SERVICE AS NEEDED TO FACILITATE WATER CONSTRUCTION. THE CONTRACT UNIT PRICE FOR WATER LINE SHALL INCLUDE THE COST OF REMOVING EXISTING WATER SERVICE.
 - 6 104 - EXTEND WATER SERVICE FROM METER PIT FOR SERVICES ON THE EAST SIDE OF CANON AND FROM THE EXISTING WATER LINE FOR SERVICES ON THE WEST SIDE OF CANON AS NEEDED TO CONNECT TO THE CORP STOP ON THE NEW WATER LINE. THERE WILL BE NO SEPARATE PAY FOR EXCAVATIONS TO COMPLETE WORK AFTER WATER MAIN TESTING.
 - 7 TURN OF CORP STOP AT EXISTING WATER LINE. THE CONTRACT UNIT PRICE FOR WATER LINE SHALL INCLUDE THE COST OF TURNING OFF CORP STOPS AS NEEDED.
 - 8 FURNISH AND INSTALL 24" BUTTERFLY VALVE. CONNECT VALVE TO EXISTING 24" DIP WATER MAIN (MJ BY MJ). THE CONTRACT UNIT PRICE FOR THE 24" BUTTERFLY VALVE SHALL INCLUDE THE COST OF ALL CONNECTIONS.
 - 9 104 - FURNISH AND INSTALL 24" C-905, CLASS 165, DR25, PVC WATERLINE. TRENCH BACKFILL SHALL MEET THE REQUIREMENTS OF CITY SPECIFICATION 103.15, 103.16, AND TYPICAL TRENCH DETAIL GU-03.
 - 10 104 - FURNISH AND INSTALL A 24" X 24" X 6" X 6" DIP CROSS. CONNECT (MJ BY MJ) TO 24" PVC, (MJ BY MJ) TO 6" X 6" DIP CROSS SHALL INCLUDE THE COST OF ALL CONNECTIONS. RESTRAIN ALL JOINTS ON THE 24" PVC AND 6" PVC WATER LINES WITHIN 55' OF THE CROSS. (REFER TO PAGE W-07 OF THE STANDARD CONTRACT DOCUMENTS)
 - 11 104 - FURNISH AND INSTALL A 24" - 90" DIP BEND, CONNECT (MJ BY MJ) TO 24" PVC, PLACE CONCRETE THRUST BLOCK AT 90° BEND TO RESTRAIN 24" PVC WATER MAIN. THE CONTRACT UNIT PRICE FOR 24" - 90" DIP BEND SHALL INCLUDE THE COST OF ALL CONNECTIONS. (REFER TO PAGE W-07 OF THE STANDARD CONTRACT DOCUMENTS)
 - 12 104 - FURNISH AND INSTALL 6" C-900, CLASS 150, DR18, PVC WATERLINE. ALL JOINTS SHALL HAVE JOINT RESTRAINT.
 - 13 FURNISH AND INSTALL 6" GATE VALVE AND 6" X 6" X 6" DIP TEE. ALL CONNECTIONS SHALL BE RESTRAINED. THE CONTRACT UNIT PRICE FOR THE 6" GATE VALVE AND 6" X 6" X 6" DIP TEE SHALL INCLUDE THE COST OF ALL CONNECTIONS.
 - 14 103.3 - ASPHALT REMOVAL. CUT AND REMOVE PAVEMENT AS SHOWN.
 - 15 401 - HOT BITUMINOUS PAVEMENT (3" THICK) (GRADING SX) 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK) (SEE CITY OF GRAND JUNCTION STANDARD DETAIL GU-03)
 - 16 SEE SHEETS 7, 8, AND 9 FOR SEWER LINE CONSTRUCTION.
 - 17 202 - REMOVE PIPE - ABANDONED 8" FORCE MAIN TO BE REMOVED AS NEEDED TO FACILITATE WATER INSTALLATION.
 - 18 AFTER CITY CREWS HAVE ESTABLISHED TEMPORARY WATER SERVICES THE EXISTING 16" AC WATER LINE WILL BE TAKEN OUT OF SERVICE.
 - 19 PROTECT UNDERGROUND TELEPHONE LINE. TELEPHONE LINE SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
 - 20 304 - AGGREGATE BASE COURSE (CLASS 6) (4" THICK)
 - 21 EXISTING GAS LINE TO BE RELOCATED BY XCEL ENERGY TO THIS PROPOSED LOCATION. PROTECT NEW GAS LINE. NEW GAS LINE SHALL REMAIN IN SERVICE DURING CONSTRUCTION. ABANDON GAS LINE MAY BE REMOVED AS NEEDED TO FACILITATE WATER CONSTRUCTION.
 - 22 PROTECT IRRIGATION PIPE. IRRIGATION PIPE SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
 - 23 NOT USED
 - 24 202 - REMOVE 6" STORM DRAIN PIPE AS NEEDED FOR EXCAVATION. 102.106 - 6" STORM DRAIN (C-900 PVC). THE COST OF CONNECTIONS TO EXISTING PIPE SHALL BE CONSIDERED INCIDENTAL AND WILL NOT BE MEASURED AND PAID FOR SEPARATELY.
 - 25 FURNISH AND INSTALL 24" BUTTERFLY VALVE. CONNECT VALVE TO 24" PVC WATER MAIN (MJ BY MJ). THE CONTRACT UNIT PRICE FOR THE 24" BUTTERFLY VALVE SHALL INCLUDE THE COST OF ALL CONNECTIONS.
 - 26 FURNISH AND INSTALL A TAPPING SADDLE AND CORP. STOP.
 - 27 202 - REMOVE EXISTING 24" X 16" REDUCER. THE CONTRACT UNIT PRICE FOR REMOVING 16" AC WATERLINE SHALL INCLUDE THE COST OF REMOVING THIS REDUCER.
 - 28 ~~104 - FURNISH AND INSTALL A 24" X 24" X 16" DIP TEE. CONNECT 16" LEG OF TEE (SOUTH) TO SOLID SLEEVE AND SOLID SLEEVE TO EXISTING 16" CI WATER LINE. CONNECT 24" LEG (EAST) TO 24" PVC WATER MAIN (MJ BY MJ). CONNECT 24" LEG OF TEE (WEST) TO RESTRAINED CAP. RESTRAIN ALL JOINTS ON THE 24" PVC WATER LINE WITHIN 135' OF THE TEE. PLACE CONCRETE THRUST BLOCK NORTH OF TEE TO RESTRAIN EXISTING 16" AC WATER LINE. THE CONTRACT UNIT PRICE FOR 24" X 24" X 16" DIP TEE SHALL INCLUDE THE COST OF SOLID SLEEVE, RESTRAINED CAP, AND CONNECTIONS TO PIPE.~~
 - 29 104 - FURNISH AND INSTALL A 6" - 22 1/2" DIP BEND, CONNECT (MJ BY MJ) TO 6" PVC WATER MAIN. THE CONTRACT UNIT PRICE FOR BENDS SHALL INCLUDE THE COST OF ALL CONNECTIONS (REFER TO PAGES W-07 OF THE STANDARD CONTRACT DOCUMENTS)
 - 30 PROTECT EXISTING 20" CI WATER MAIN IN PLACE. WATER MAIN SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
 - 31 104 - FURNISH AND INSTALL A 24" X 24" X 6" DIP TEE. CONNECT (MJ BY MJ) TO 24" PVC AND 6" PVC. FURNISH AND INSTALL 6" GATE VALVE. CONNECT (MJ BY MJ) TO 6" PVC. THE CONTRACT UNIT PRICE FOR TEE AND VALVE SHALL INCLUDE THE COST FOR ALL CONNECTIONS. RESTRAIN ALL JOINTS ON THE 24" AND 6" PVC WATER LINES WITHIN 18' OF THE TEE. (REFER TO PAGE W-07 OF THE STANDARD CONTRACT DOCUMENTS)
 - 32 104 - FURNISH AND INSTALL SOLID SLEEVE OR DRESSER COUPLING (HIGH MAX). CONNECT EXISTING 6" AC WATER LINE TO NEW 6" PVC WATER LINE USING DRESSER. CONNECT EXISTING 6" CI WATER LINE TO NEW 6" PVC WATER LINE USING SOLID SLEEVE. THE CONTRACT UNIT PRICE FOR 6" WATERLINE SHALL INCLUDE THE COST OF SOLID SLEEVE OR DRESSER AND CONNECTIONS TO EXISTING PIPE.
 - 33 ~~104 - FURNISH AND INSTALL A 24" X 24" X 24" DIP TEE. CONNECT THE WEST AND NORTH LEGS OF THE TEE TO 24" PVC WATER MAIN (MJ BY MJ). CONNECT SOUTH LEG OF TEE TO RESTRAINED CAP. THE CONTRACT UNIT PRICE FOR 24" X 24" X 24" DIP TEE SHALL INCLUDE THE COST OF RESTRAINED CAP AND CONNECTIONS TO PIPE. SEE SHEET 11~~
 - 34 104 - FURNISH AND INSTALL 6" GATE VALVE. CONNECT (MJ BY MJ) TO 6" PVC WATER LINE. THE CONTRACT UNIT PRICE FOR 6" VALVE SHALL INCLUDE COST FOR ALL CONNECTIONS.
 - 35 104 - FURNISH AND INSTALL SOLID SLEEVE. CONNECT EXISTING 24" DIP WATER LINE TO NEW 24" PVC WATER LINE ON THE WEST SIDE OF THE EXISTING 24" X 24" X 20" TEE. THE CONTRACT UNIT PRICE FOR 24" WATERLINE SHALL INCLUDE THE COST OF SOLID SLEEVE AND CONNECTIONS TO EXISTING PIPE.
 - 36 104 - FURNISH AND INSTALL A 24" X 24" X 4" DIP TEE. CONNECT (MJ BY MJ) TO 24" PVC AND 4" PVC. FURNISH AND INSTALL 4" GATE VALVE. CONNECT (MJ BY MJ) TO 4" PVC. THE CONTRACT UNIT PRICE FOR TEE AND VALVE SHALL INCLUDE THE COST FOR ALL CONNECTIONS. RESTRAIN ALL JOINTS ON THE 24" AND 4" PVC WATER LINES WITHIN 18' OF THE TEE. (REFER TO PAGE W-07 OF THE STANDARD CONTRACT DOCUMENTS).
 - 37 104 - FURNISH AND INSTALL 4" C-900, CLASS 150, DR18, PVC WATERLINE. ALL JOINTS SHALL HAVE JOINT RESTRAINT.
 - 38 104 - FURNISH AND INSTALL SOLID SLEEVE. CONNECT EXISTING 4" PVC FIRE LINE TO NEW 4" PVC WATER LINE. THE CONTRACT UNIT PRICE FOR 4" WATER LINE SHALL INCLUDE THE COST OF SOLID SLEEVE AND CONNECTIONS TO EXISTING PIPE.
 - 39 202/104 - REMOVE EXISTING HYDRANT AND RETURN TO CITY SHOPS. FURNISH AND INSTALL FIRE HYDRANT.
 - 40 104 - FURNISH AND INSTALL 6" GATE VALVE. CONNECT VALVE TO 6" PVC WATER MAIN (MJ BY MJ). THE CONTRACT UNIT PRICE FOR 6" GATE VALVE SHALL INCLUDE THE COST OF ALL CONNECTIONS.

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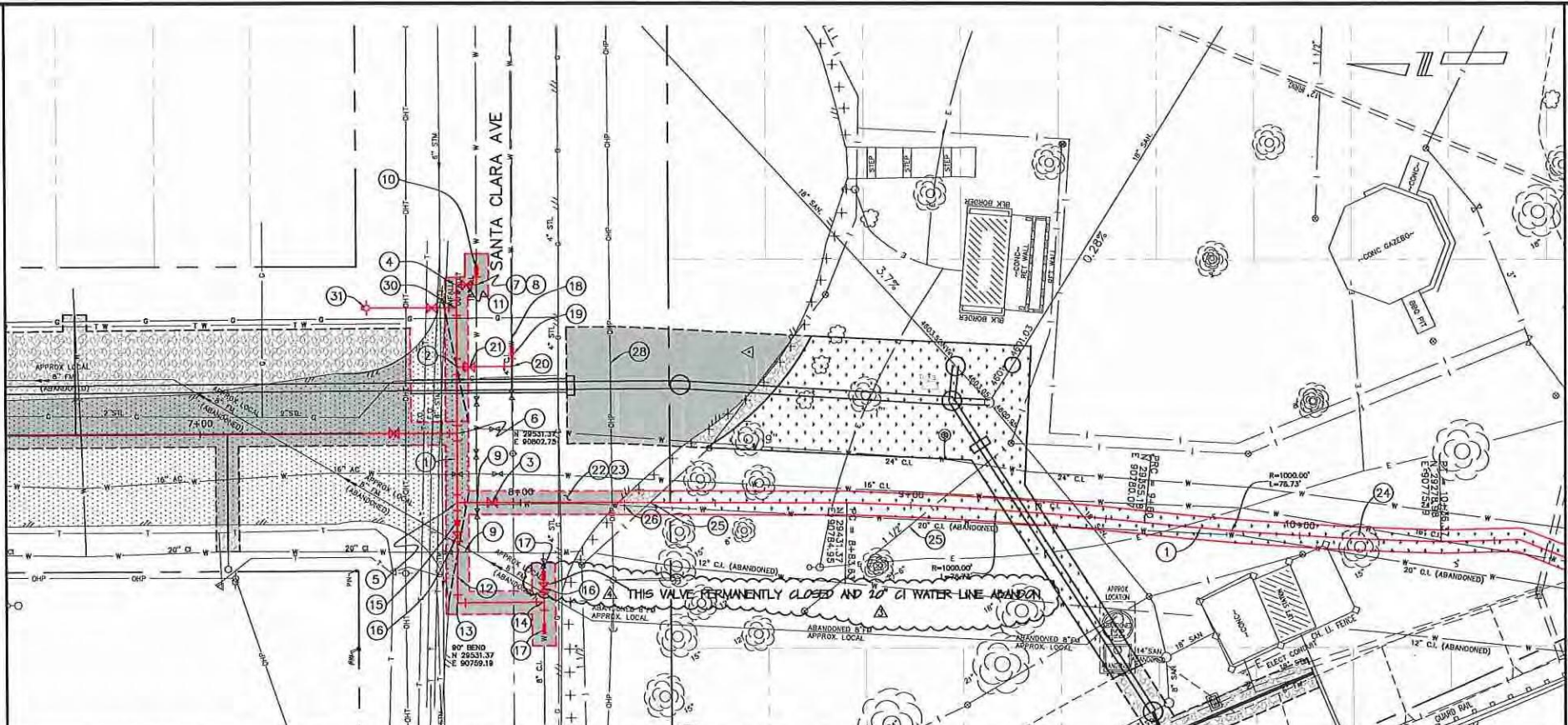
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE:
REVISION A	CHANGES TO DESIGN AND CONST. NOTES	4/14/05	JCS	2005	
REVISION B	CHANGES TO DESIGN AND CONST. NOTES	7/13/05			
REVISION C	AS BUILT	10/1-12-05			
REVISION D					



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

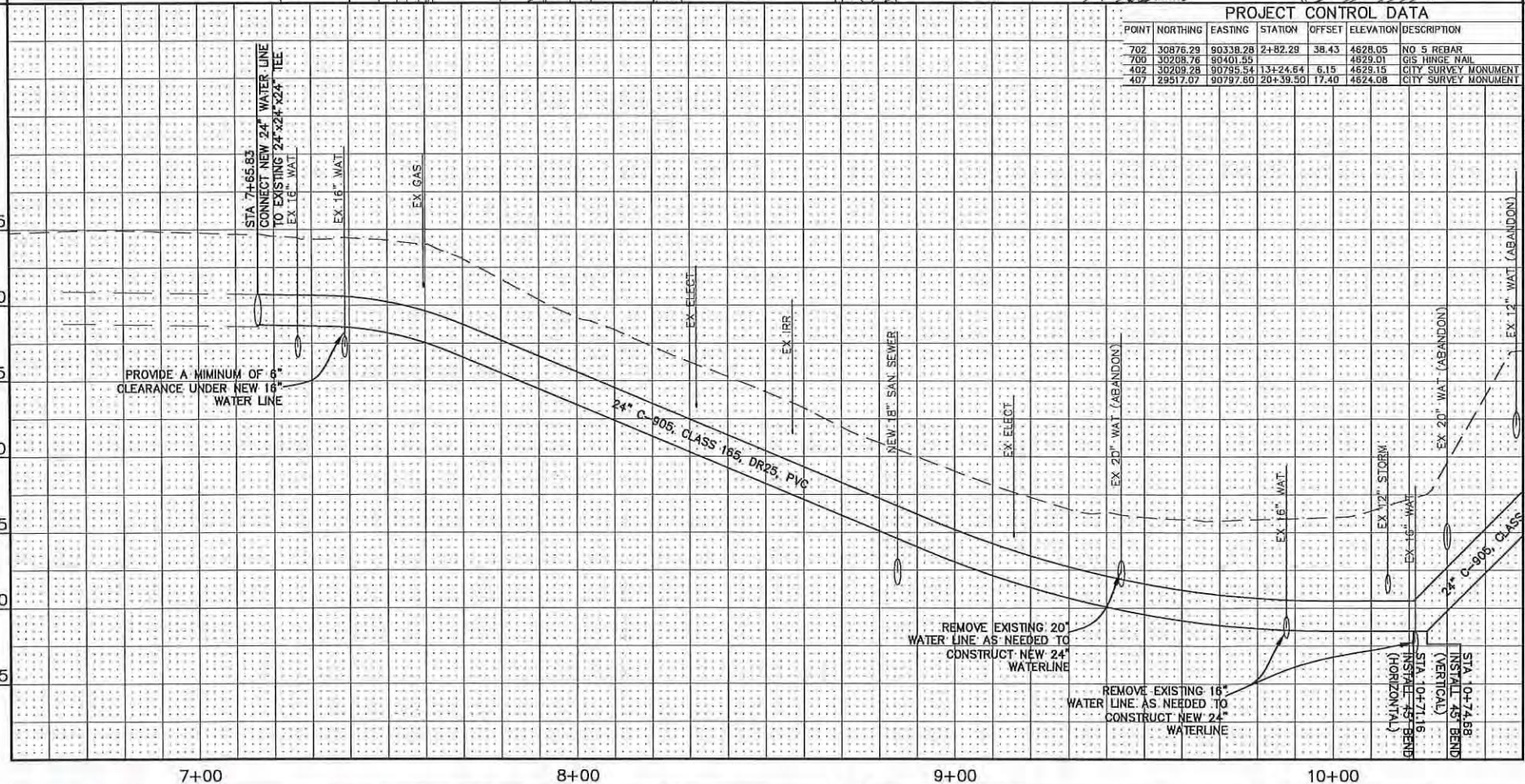
DUCK POND PARK LIFT STATION ELIMINATION AND GRAVITY SEWER CONSTRUCTION WATER LINE REPLACEMENT PLANS CANON STREET

- ① 104 - FURNISH AND INSTALL 24" C-905, CLASS 165, DR25, PVC WATERLINE. TRENCH BACKFILL SHALL MEET THE REQUIREMENTS OF CITY SPECIFICATION 103.15, 103.16, AND TYPICAL TRENCH DETAIL GU-03.
- ② 104 - FURNISH AND INSTALL A 24"x24"x14" DIP TEE, CONNECT (MJ BY MJ) TO 14" AND 24" PVC, PLACE CONCRETE THRUST BLOCK AT TEE TO RESTRAIN 24" PVC WATER MAIN. THE CONTRACT UNIT PRICE FOR 24"x24"x14" DIP TEE SHALL INCLUDE THE COST OF ALL CONNECTIONS. (REFER TO PAGE W-07 OF THE STANDARD CONTRACT DOCUMENTS)
- ③ FURNISH AND INSTALL 24" BUTTERFLY VALVE. CONNECT VALVE TO 24" PVC WATER MAIN (MJ BY MJ). THE CONTRACT UNIT PRICE FOR THE 24" BUTTERFLY VALVE SHALL INCLUDE THE COST OF ALL CONNECTIONS.
- ④ 104 - FURNISH AND INSTALL A 24" X 24" X 16" DIP TEE. CONNECT 16" LEG OF TEE (SOUTH) TO 16" BUTTERFLY VALVE. CONNECT 24" LEG TO 24" PVC WATER MAIN (MJ BY MJ). CONNECT 24" LEG (EAST) TO RESTRAINED CAP. RESTRAIN ALL JOINTS ON THE 24" PVC WATER LINE WITHIN 40' OF THE TEE. PLACE CONCRETE THRUST BLOCK NORTH OF TEE TO RESTRAIN EXISTING 16" CI WATER LINE. THE CONTRACT UNIT PRICE FOR 24" X 24" X 16" DIP TEE SHALL INCLUDE THE COST OF, RESTRAINED CAP, AND CONNECTIONS TO PIPE.
- ⑤ 104 - FURNISH AND INSTALL A 24"x24"x24" DIP TEE. CONNECT EAST AND SOUTH LEGS OF THE TEE TO 24" PVC WATER MAIN (MJ BY MJ). CONNECT WEST LEG TO 24"x8" DIP REDUCER. RESTRAIN ALL JOINTS ON THE 24" PVC WATER LINE FROM WATER LINE STA. 6+42 TO STA. 9+10 (268 L.F.) AND THE 24" WATER MAIN GOING EAST ON SANTA CLARA (40 L.F.). PLACE CONCRETE THRUST BLOCK NORTH OF THE TEE. THE CONTRACT UNIT PRICE FOR THE 24"x24"x24" DIP TEE SHALL INCLUDE THE COST OF ALL CONNECTIONS.
- ⑥ 104 - FURNISH AND INSTALL A 24" X 24" X 24" DIP TEE. CONNECT ALL LEGS OF THE TEE TO 24" PVC WATER MAIN (MJ BY MJ). PLACE CONCRETE THRUST BLOCK SOUTH OF TEE. THE CONTRACT UNIT PRICE FOR 24" X 24" X 24" DIP TEE SHALL INCLUDE THE COST OF CONNECTIONS TO PIPE.
- ⑦ 104 - FURNISH AND INSTALL 16" C-905, CLASS 165, DR25, PVC WATERLINE. ALL JOINTS SHALL HAVE JOINT RESTRAINT.
- ⑧ 104 - FURNISH AND INSTALL A 16" 90° DIP BEND, CONNECT (MJ BY MJ) TO 16" PVC, PLACE CONCRETE THRUST BLOCK AT 90° BEND TO RESTRAIN 16" PVC WATER MAIN. THE CONTRACT UNIT PRICE FOR 16" 90° DIP BEND SHALL INCLUDE THE COST OF ALL CONNECTIONS (REFER TO PAGES W-07 OF THE STANDARD CONTRACT DOCUMENTS)
- ⑨ PROTECT EXISTING 20" CI WATER MAIN IN PLACE. WATER MAIN SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
- ⑩ 104 - FURNISH AND INSTALL SOLID SLEEVE. CONNECT EXISTING 16" CI WATER LINE TO NEW 16" PVC WATER LINE USING SOLID SLEEVE. THE CONTRACT UNIT PRICE FOR 16" WATERLINE SHALL INCLUDE THE COST OF SOLID SLEEVE AND CONNECTIONS TO EXISTING PIPE.
- ⑪ 104 - FURNISH AND INSTALL 16" BUTTERFLY VALVE. CONNECT VALVE TO 16" PVC WATER MAIN (MJ BY MJ). THE CONTRACT UNIT PRICE FOR 16" BUTTERFLY VALVE SHALL INCLUDE THE COST OF ALL CONNECTIONS.
- ⑫ 104 - FURNISH AND INSTALL 8" C-900, CLASS 150, DR18, PVC WATERLINE. ALL JOINTS SHALL HAVE JOINT RESTRAINT.
- ⑬ 104 - FURNISH AND INSTALL A 8" - 90° DIP BEND, CONNECT (MJ BY MJ) TO 8" PVC, PLACE CONCRETE THRUST BLOCK AT 90° BEND TO RESTRAIN 8" PVC WATER MAIN. THE CONTRACT UNIT PRICE FOR 8" - 90° DIP BEND SHALL INCLUDE THE COST OF ALL CONNECTIONS. (REFER TO PAGE W-07 OF THE STANDARD CONTRACT DOCUMENTS)
- ⑭ 104 - FURNISH AND INSTALL A 8"x8"x8" DIP TEE. CONNECT ALL LEGS OF THE TEE TO 8" PVC WATER MAIN, (MJ BY MJ). PLACE CONCRETE THRUST BLOCK SOUTH OF TEE. THE CONTRACT UNIT PRICE FOR 8"x8"x8" DIP TEE SHALL INCLUDE THE COST OF CONNECTIONS TO PIPE.
- ⑮ 104 - FURNISH AND INSTALL A 24"x8" DIP REDUCER, CONNECT (MJ BY MJ) TO 24"x24"x24" DIP TEE AND 8" GATE VALVE. THE CONTRACT UNIT PRICE FOR 8"x8"x8" DIP TEE SHALL INCLUDE THE COST OF CONNECTIONS TO PIPE.
- ⑯ 104 - FURNISH AND INSTALL 8" GATE VALVE. CONNECT VALVE TO 8" PVC WATER MAIN (MJ BY MJ). THE CONTRACT UNIT PRICE FOR 8" GATE VALVE SHALL INCLUDE THE COST OF ALL CONNECTIONS.
- ⑰ 104 - FURNISH AND INSTALL SOLID SLEEVE. CONNECT EXISTING 8" CI WATER LINE TO NEW 8" PVC WATER LINE USING SOLID SLEEVE. THE CONTRACT UNIT PRICE FOR 8" WATERLINE SHALL INCLUDE THE COST OF SOLID SLEEVE AND CONNECTIONS TO EXISTING PIPE.
- ⑱ 104 - FURNISH AND INSTALL 14" C-905, CLASS 165, DR25, PVC WATERLINE. ALL JOINTS SHALL HAVE JOINT RESTRAINT.
- ⑲ 104 - FURNISH AND INSTALL SOLID SLEEVE. CONNECT EXISTING 14" PVC WATER LINE TO NEW 14" PVC WATER LINE. THE CONTRACT UNIT PRICE FOR 14" WATER LINE SHALL INCLUDE THE COST OF SOLID SLEEVE AND CONNECTIONS TO EXISTING PIPE.
- ⑳ 104 - FURNISH AND INSTALL A 14" 90° DIP BEND, CONNECT (MJ BY MJ) TO 14" PVC, PLACE CONCRETE THRUST BLOCK AT 90° BEND TO RESTRAIN 14" PVC WATER MAIN. THE CONTRACT UNIT PRICE FOR 14" 90° DIP BEND SHALL INCLUDE THE COST OF ALL CONNECTIONS (REFER TO PAGES W-07 OF THE STANDARD CONTRACT DOCUMENTS)
- ㉑ 104 - FURNISH AND INSTALL 14" BUTTERFLY VALVE. CONNECT VALVE TO 14" PVC WATER MAIN (MJ BY MJ). THE CONTRACT UNIT PRICE FOR 14" BUTTERFLY VALVE SHALL INCLUDE THE COST OF ALL CONNECTIONS.
- ㉒ 103.3 - ASPHALT REMOVAL: CUT AND REMOVE PAVEMENT AS SHOWN.
- ㉓ 401-HOT BITUMINOUS PAVEMENT (3" THICK) (GRADING SX) 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK) (SEE CITY OF GRAND JUNCTION STANDARD DETAIL GU-03)
- ㉔ 202 - REMOVE TREE
- ㉕ 210 - RESET SPRINKLER SYSTEM.
- ㉖ 210 - RESET POST
- ㉗ 210 - RESET GUARDRAIL AS NEEDED FOR WATER LINE CONSTRUCTION AND PAVEMENT RESTORATION.
- ㉘ PROTECT OVERHEAD POWER LINE. OVERHEAD POWER LINE SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
- ㉙ PROTECT UNDERGROUND ELECTRIC LINE. ELECTRIC LINE SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
- ㉚ FURNISH AND INSTALL 6" GATE VALVE AND 24" X 24" X 6" DIP TEE. ALL CONNECTIONS SHALL BE RESTRAINED. THE CONTRACT UNIT PRICE FOR THE 6" GATE VALVE AND 24" X 24" X 6" DIP TEE SHALL INCLUDE THE COST OF ALL CONNECTIONS.
- ㉛ FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY.



PROJECT CONTROL DATA

POINT	NORTHING	EASTING	STATION	OFFSET	ELEVATION	DESCRIPTION
702	30876.29	90338.28	2+82.29	38.43	4628.05	NO 5 REBAR
700	30208.76	90401.50			4829.01	GIS HINGE NAIL
402	30209.28	90795.54	13+24.64	6.15	4629.15	CITY SURVEY MONUMENT
407	29517.07	90797.60	20+39.50	17.40	4624.08	CITY SURVEY MONUMENT



REVISION	DESCRIPTION	DATE
REVISION A	NEW DRAWING FOR CONTINUATION OF	7/15/05
REVISION B	NEW 24in WATER LINE IN CANON STREET	7/27/05
REVISION C	ADDITIONAL EXISTING TOPO	10/1-10-15
REVISION D	AS BUILT	

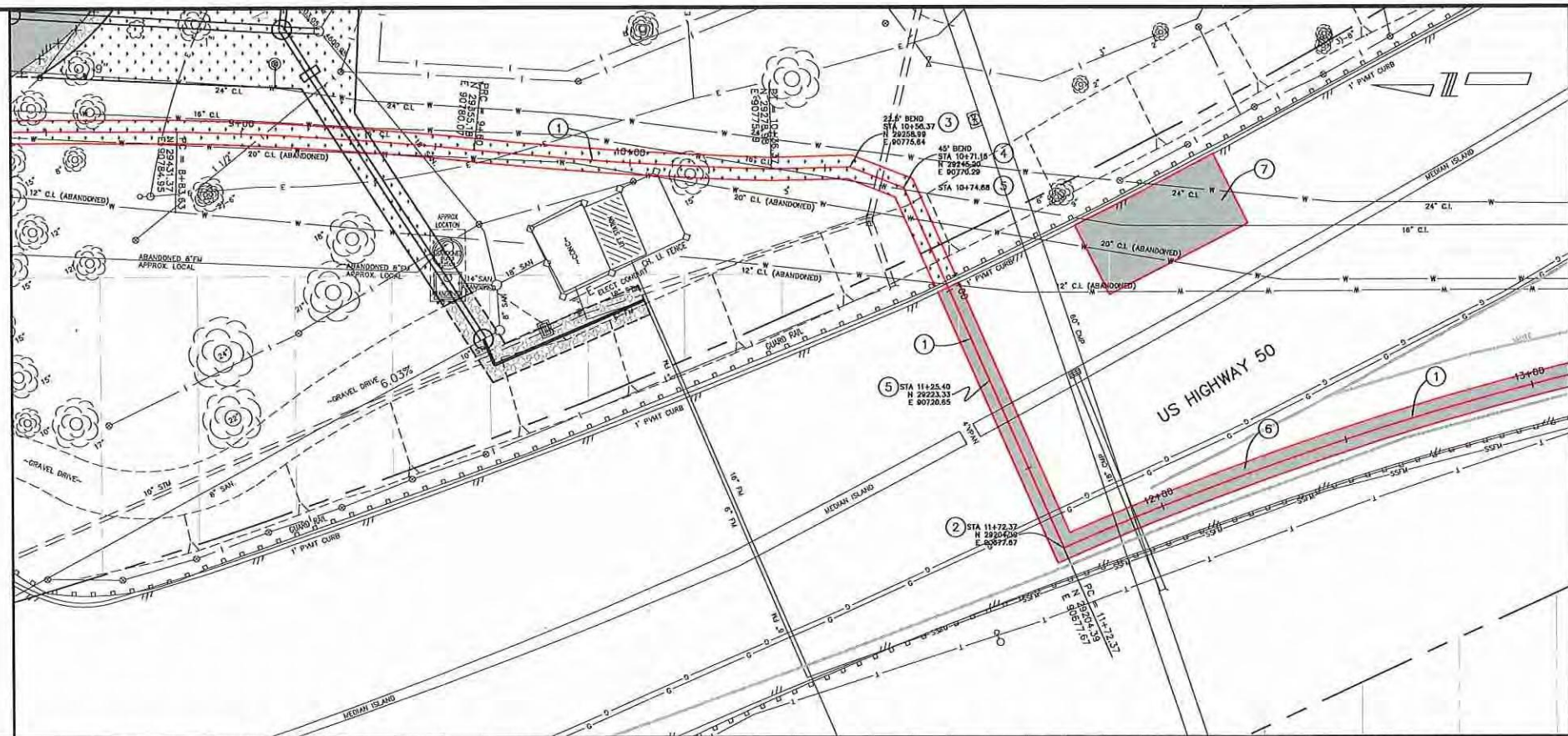
DRAWN BY JCS DATE 2005
 DESIGNED BY DATE
 CHECKED BY DATE
 APPROVED BY DATE



PUBLIC WORKS
 AND UTILITIES
 ENGINEERING DIVISION

DUCK POND PARK LIFT STATION
 ELIMINATION AND GRAVITY SEWER CONSTRUCTION
 WATER LINE REPLACEMENT PLANS
 CANON STREET

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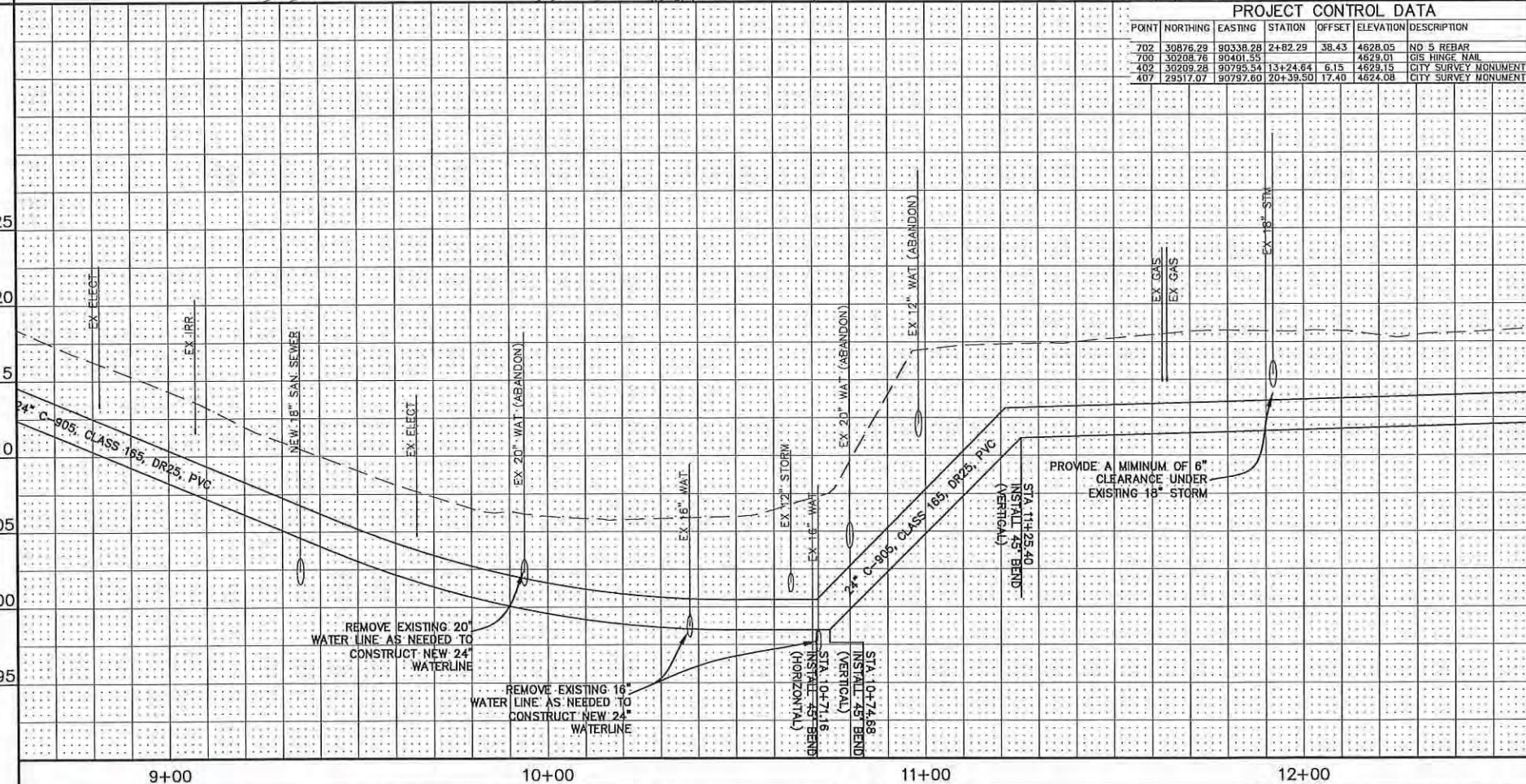
SEE BELOW

- ① 104 - FURNISH AND INSTALL 24" C-905, CLASS 165, DR25, PVC WATERLINE.
ADDITIONAL REQUIREMENTS WHEN WATER LINE IS INSTALLED WITHIN CDOT ROW: (WATER LINE STA. 10+88 TO STA. 14+50)
MINIMUM COVER TO TOP OF PIPE SHALL BE 54" (FINISHED GRADE TO TOP OF PIPE).
206 - STRUCTURAL BACKFILL (FLOW-FILL)
THE TOP 36" OF BACKFILL MATERIAL (FROM BOTTOM OF ASPHALT) SHALL BE FLOWFILL. FLOWFILL WILL BE PAID FOR SEPARATELY. THE PAID QUANTITY FOR FLOWFILL WILL HAVE A MAXIMUM WIDTH OF 6 FEET AND MAXIMUM DEPTH OF 36".
TRAFFIC CONTROL PLAN MUST BE REVIEWED AND APPROVED BY CDOT PRIOR TO ISSUING PERMIT AND START OF WORK. REQUIREMENTS AS LISTED ON ATTACHED PAGE 2 OF UTILITY PERMIT APPLICATION.
NO CONSTRUCTION ACTIVITY OR LANE CLOSURES (OTHER THAN TRAFFIC CONTROL SETUP) MAY OCCUR OUTSIDE OF 9 PM TO 6 AM.
FINAL PAVEMENT SURFACE MUST BE IN PLACE BEFORE LANES CAN RE-OPENED.
ONE LANE OF TRAFFIC IN EACH DIRECTION WILL BE MAINTAINED DURING THE WORK. FLAGGERS WILL BE REQUIRED IF NEEDED TO DIRECT TRAFFIC.
- ② 104 - FURNISH AND INSTALL A 24" - 90° DIP BEND, CONNECT (MJ BY MJ) TO 24" PVC, PLACE CONCRETE THRUST BLOCK AT 90° BEND TO RESTRAIN 24" PVC WATER MAIN. THE CONTRACT UNIT PRICE FOR 24" - 90° DIP BEND SHALL INCLUDE THE COST OF ALL CONNECTIONS. (REFER TO PAGE W-07 OF THE STANDARD CONTRACT DOCUMENTS)
- ③ 104 - FURNISH AND INSTALL A 24" - 22 1/2' DIP BEND, CONNECT (MJ BY MJ) TO 24" PVC WATER MAIN. PLACE CONCRETE THRUST BLOCK AT 22 1/2' BEND. THE CONTRACT UNIT PRICE FOR BENDS SHALL INCLUDE THE COST OF ALL CONNECTIONS (REFER TO PAGES W-07 OF THE STANDARD CONTRACT DOCUMENTS)
- ④ 104 - FURNISH AND INSTALL A 24" - 45° DIP BEND (HORIZONTAL). THE CONTRACT UNIT PRICE FOR BENDS SHALL INCLUDE THE COST OF ALL CONNECTIONS (REFER TO PAGES W-07 OF THE STANDARD CONTRACT DOCUMENTS)
- ⑤ 104 - FURNISH AND INSTALL A 24" - 45° DIP BEND (VERTICAL). THE CONTRACT UNIT PRICE FOR BENDS SHALL INCLUDE THE COST OF ALL CONNECTIONS (REFER TO PAGES W-07 OF THE STANDARD CONTRACT DOCUMENTS)
- ⑥ ASPHALT REMOVAL AND T-TOP PATCH WITHIN CDOT ROW:
103.3 - ASPHALT REMOVAL: CUT AND REMOVE PAVEMENT 6' WIDE AS SHOWN. MILL (2" THICK) AND REMOVE ASPHALT PAVEMENT FOR AN ADDITIONAL 2 FEET ON BOTH SIDES OF THE FULL DEPTH REMOVAL. 2 FEET IS THE MINIMUM WIDTH. WIDTH OF MILL SHALL BE GREATER THAN 2 FEET IF NECESSARY TO KEEP JOINT OUT OF WHEEL PATH.
401-HOT BITUMINOUS PAVEMENT (6" THICK) (GRADING SX) (BINDER GRADE PG 64-22). HBP SHALL BE PLACED ON FLOWFILL BACKFILL MATERIAL.
- ⑦ REPAIR PAVEMENT DAMAGED BY WATER LINE LEAK.
103.3 - ASPHALT REMOVAL: CUT AND REMOVE PAVEMENT AS SHOWN, OR AS DIRECTED BY CITY.
304.08 - SUBGRADE STABILIZATION (CLASS 6 ABC) (CIP). SUBGRADE STABILIZATION SHALL BE A MINIMUM OF 12" IN DEPTH. DEPTH MAY BE INCREASED AS DIRECTED BY CITY TO REMOVE SATURATED SUBGRADE.
401-HOT BITUMINOUS PAVEMENT (6" THICK) (GRADING SX) (BINDER GRADE PG 64-22).

PROJECT CONTROL DATA

POINT	NORTHING	EASTING	STATION	OFFSET	ELEVATION	DESCRIPTION
702	30876.29	90336.28	2+82.29	38.43	4628.05	NO 5 REBAR
700	30208.76	90401.55			4629.01	GIS HINGE NAIL
402	30209.28	90795.54	13+24.64	-6.15	4629.15	CITY SURVEY MONUMENT
407	29517.07	90797.60	20+39.50	17.40	4624.06	CITY SURVEY MONUMENT

MATCH LINE



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE:
REVISION Δ	NEW DRAWING FOR CONTINUATION OF	7/15/05	JCS	2005	
REVISION Δ	NEW 24in WATER LINE IN CANON STREET	7/27/05			
REVISION Δ	ADDITIONAL EXISTING TOPO	7/27/05			
REVISION Δ	AS BUILT	1007-10-15			

CITY OF Grand Junction COLORADO

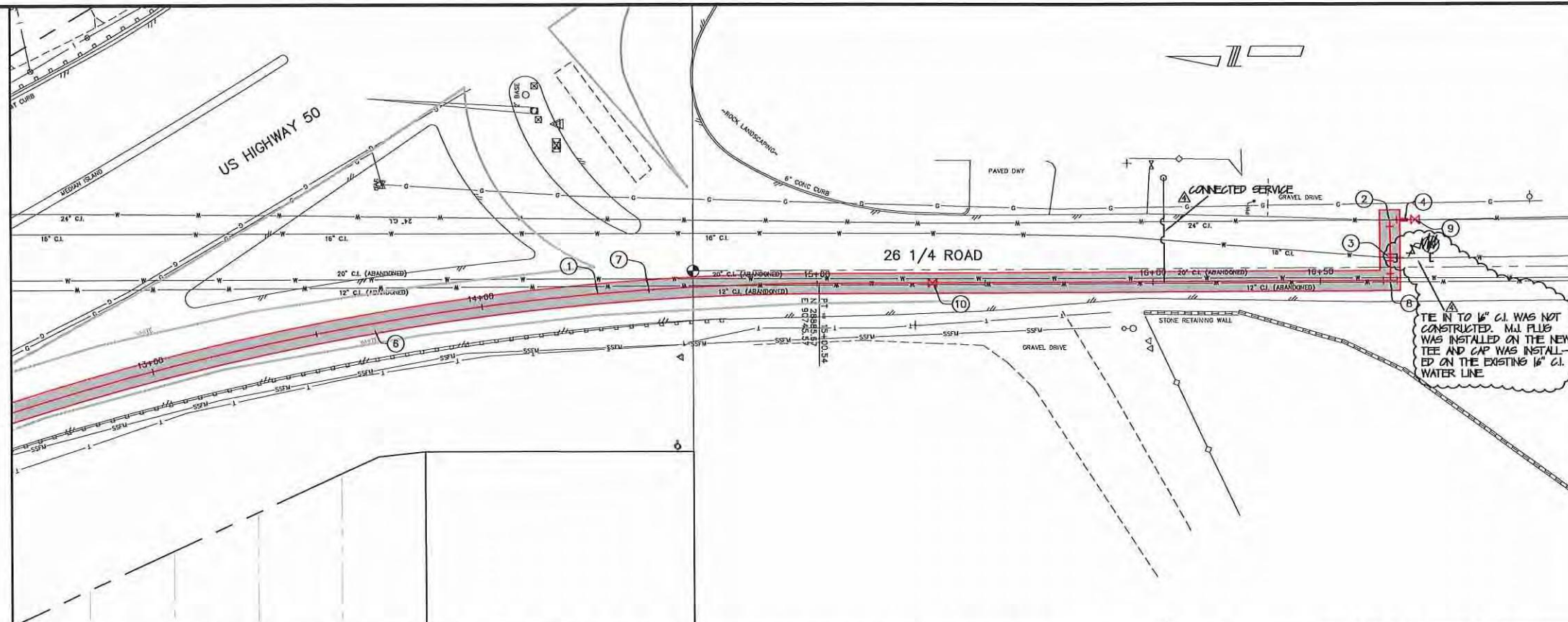
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

DUCK POND PARK LIFT STATION ELIMINATION AND GRAVITY SEWER CONSTRUCTION WATER LINE REPLACEMENT PLANS CANON STREET

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CONSTRUCTION NOTES

- 1 104 - FURNISH AND INSTALL 24" C-905, CLASS 165, DR25, PVC WATERLINE.
 ADDITIONAL REQUIREMENTS WHEN WATER LINE IS INSTALLED WITHIN CDOT ROW: (WATER LINE STA. 10+88 TO STA. 14+50)
 MINIMUM COVER TO TOP OF PIPE SHALL BE 54" (FINISHED GRADE TO TOP OF PIPE).
 THE FIRST 36" OF BACKFILL MATERIAL (FROM BOTTOM OF ASPHALT) SHALL BE FLOWFILL. FLOWFILL WILL BE PAID FOR SEPARATELY. THE PAID QUANTITY FOR FLOWFILL WILL HAVE A MAXIMUM WIDTH OF 6 FEET AND MAXIMUM DEPTH OF 36".
 TRAFFIC CONTROL PLAN MUST BE REVIEWED AND APPROVED BY CDOT PRIOR TO ISSUING PERMIT AND START OF WORK. REQUIREMENTS AS LISTED ON ATTACHED PAGE 2 OF UTILITY PERMIT APPLICATION.
 NO CONSTRUCTION ACTIVITY OR LANE CLOSURES (OTHER THAN TRAFFIC CONTROL SETUP) MAY OCCUR OUTSIDE OF 9 PM TO 6 AM.
 FINAL PAVEMENT SURFACE MUST BE IN PLACE BEFORE LANES CAN RE-OPENED.
 ONE LANE OF TRAFFIC IN EACH DIRECTION WILL BE MAINTAINED DURING THE WORK. FLAGGERS WILL BE REQUIRED IF NEEDED TO DIRECT TRAFFIC.
- 2 104 - FURNISH AND INSTALL A 24" - 90° DIP BEND, CONNECT (MJ BY MJ) TO 24" PVC, PLACE CONCRETE THRUST BLOCK AT 90° BEND TO RESTRAIN 24" PVC WATER MAIN. THE CONTRACT UNIT PRICE FOR 24" - 90° DIP BEND SHALL INCLUDE THE COST OF ALL CONNECTIONS. (REFER TO PAGE W-07 OF THE STANDARD CONTRACT DOCUMENTS)
- 3 104 - FURNISH AND INSTALL A 24" X 24" X 24" X 16" DIP TEE. CONNECT 16" LEG OF TEE (SOUTH) TO SOLID SLEEVE AND SOLID SLEEVE TO EXISTING 16" CI WATER LINE. CONNECT 24" LEGS TO 24" PVC WATER MAIN (MJ BY MJ). PLACE CONCRETE THRUST BLOCK NORTH OF TEE TO RESTRAIN EXISTING 16" CI WATER LINE. THE CONTRACT UNIT PRICE FOR 24" X 24" X 16" DIP TEE SHALL INCLUDE THE COST OF SOLID SLEEVE, AND CONNECTIONS TO PIPE.
- 4 104 - FURNISH AND INSTALL SOLID SLEEVE. CONNECT EXISTING 24" CI WATER LINE TO NEW 24" PVC WATER LINE. THE CONTRACT UNIT PRICE FOR 24" WATERLINE SHALL INCLUDE THE COST OF SOLID SLEEVE AND CONNECTIONS TO EXISTING PIPE.
- 5 104 - FURNISH AND INSTALL SOLID SLEEVE. CONNECT EXISTING 16" CI WATER LINE TO NEW 16" PVC WATER LINE USING SOLID SLEEVE. THE CONTRACT UNIT PRICE FOR 16" WATERLINE SHALL INCLUDE THE COST OF SOLID SLEEVE AND CONNECTIONS TO EXISTING PIPE.
- 6 ASPHALT REMOVAL AND T-TOP PATCH WITHIN CDOT ROW:
 103.3 - ASPHALT REMOVAL: CUT AND REMOVE PAVEMENT 6" WIDE AS SHOWN, MILL (2" THICK) AND REMOVE ASPHALT PAVEMENT FOR AN ADDITIONAL 2 FEET ON BOTH SIDES OF THE FULL DEPTH REMOVAL. 2 FEET IS THE MINIMUM WIDTH. WIDTH OF MILL SHALL BE GREATER THAN 2 FEET IF NECESSARY TO KEEP JOINT OUT OF WHEEL PATH.
 401 - HOT BITUMINOUS PAVEMENT (6" THICK) (GRADING SX) (BINDER GRADE PG 64-22), HBP SHALL BE PLACED ON FLOWFILL BACKFILL MATERIAL.
- 7 END OF ADDITIONAL REQUIREMENTS FOR CDOT ROW.
- 8 104 - FURNISH AND INSTALL A 24" X 24" X 24" DIP TEE. CONNECT 24" LEGS OF TEE (NORTH AND EAST) 24" PVC WATER MAIN (MJ BY MJ). CONNECT 24" LEG OF TEE (SOUTH) TO RESTRAINED CAP. PLACE CONCRETE THRUST BLOCK WEST AND SOUTH OF TEE. CONCRETE THRUST BLOCK SHOULD BE PLACED IN SUCH A WAY THAT IT DOES NOT PREVENT FUTURE TIE IN TO THE SOUTH LEG OF THE TEE. THE CONTRACT UNIT PRICE FOR 24" X 24" X 24" DIP TEE SHALL INCLUDE THE COST OF THE RESTRAINED CAP AND CONNECTIONS TO PIPE.
- 9 24" BUTTERFLY VALVE INSTALLED BY CITY CREWS. THIS VALVE HAS BEEN INSTALLED WITH A THRUST RESTRAINT WALL, ALLOWING PRESSURE TO REMAIN ON THE SOUTH SIDE OF THE VALVE DURING CONNECTION OF 24" PVC ON THE NORTH SIDE.
- 10 FURNISH AND INSTALL 24" BUTTERFLY VALVE. CONNECT VALVE TO 24" PVC WATER MAIN (MJ BY MJ). THE CONTRACT UNIT PRICE FOR THE 24" BUTTERFLY VALVE SHALL INCLUDE THE COST OF ALL CONNECTIONS.



PROJECT CONTROL DATA						
POINT	NORTHING	EASTING	STATION	OFFSET	ELEVATION	DESCRIPTION
702	30876.29	90338.28	2+82.29	38.43	4628.05	NO 5 REBAR
700	30208.76	90401.55			4629.01	GIS HINGE NAIL
402	30209.28	90789.54	13+24.64	6.15	4629.15	CITY SURVEY MONUMENT
407	28517.07	90797.60	20+38.50	17.40	4624.08	CITY SURVEY MONUMENT

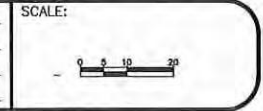
4625	
4620	
4615	
4610	24" C-905, CLASS 165, DR25, PVC
4605	
4600	
4595	

SEE BELOW

MATCH LINE

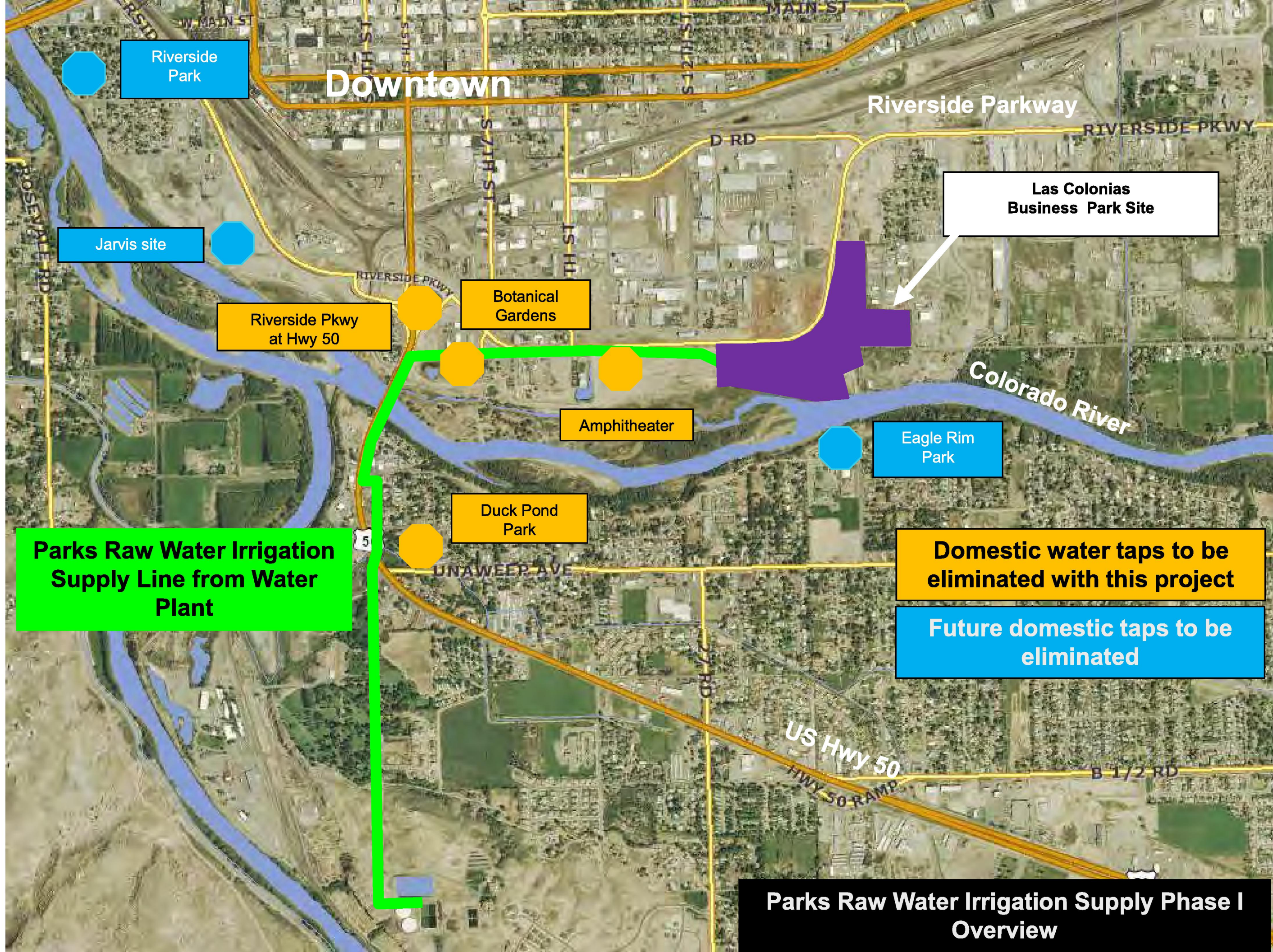
REVISION	DESCRIPTION	DATE
REVISION A	NEW DRAWING FOR CONTINUATION OF	7/15/05
REVISION B	NEW 24in WATER LINE IN CANON STREET	
REVISION C	ADDITIONAL EXISTING TOPO	7/27/05
REVISION D	AS BUILT	2007-10-15

DRAWN BY	JCS	DATE	2005
DESIGNED BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	



PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION

DUCK POND PARK LIFT STATION
ELIMINATION AND GRAVITY SEWER CONSTRUCTION
WATER LINE REPLACEMENT PLANS
CANON STREET



Riverside Park

Downtown

Riverside Parkway

Las Colonias Business Park Site

Jarvis site

Riverside Pkwy at Hwy 50

Botanical Gardens

Amphitheater

Eagle Rim Park

Colorado River

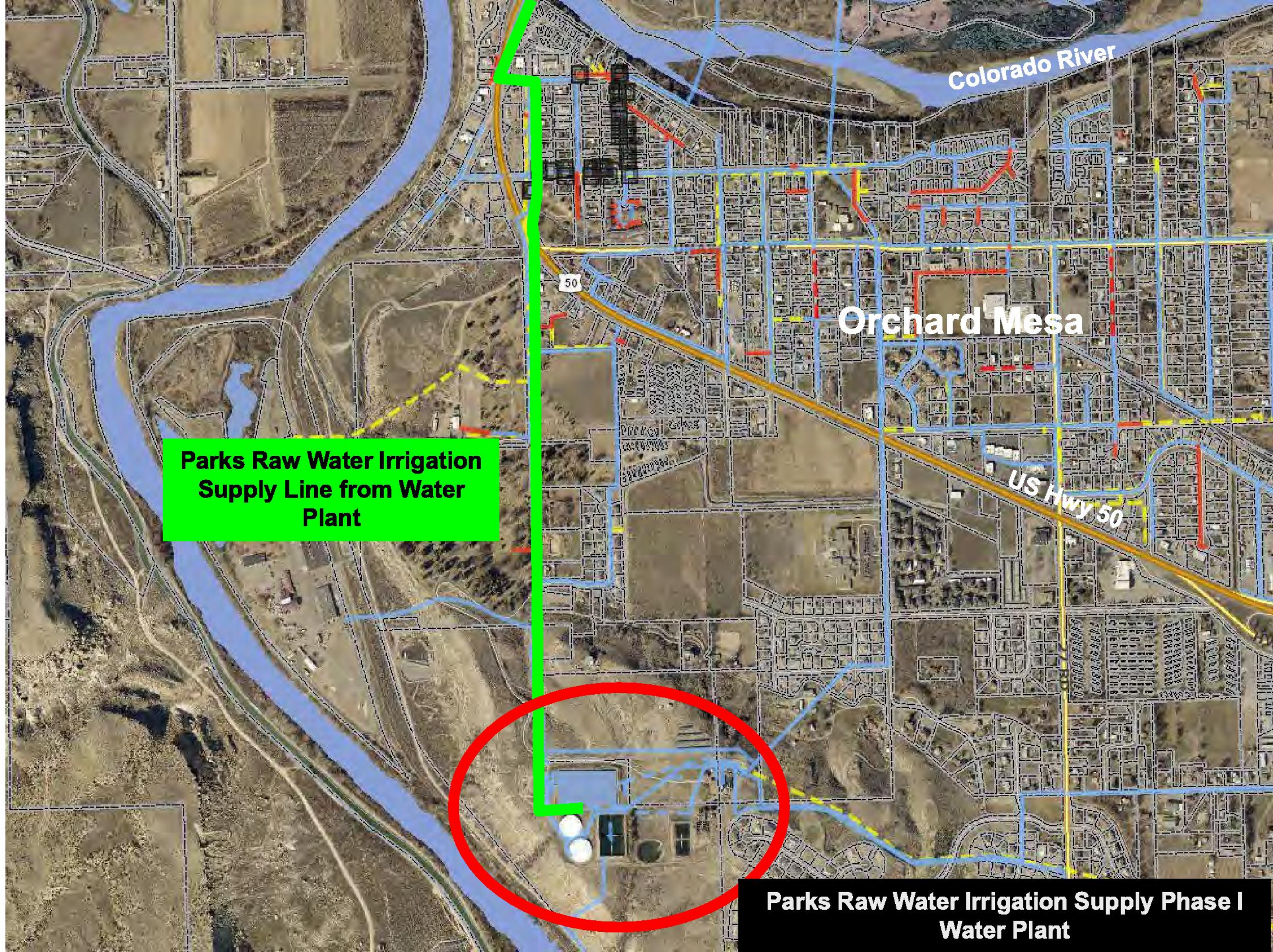
Parks Raw Water Irrigation Supply Line from Water Plant

Domestic water taps to be eliminated with this project

Future domestic taps to be eliminated

Duck Pond Park

Parks Raw Water Irrigation Supply Phase I Overview



Colorado River

Orchard Mesa

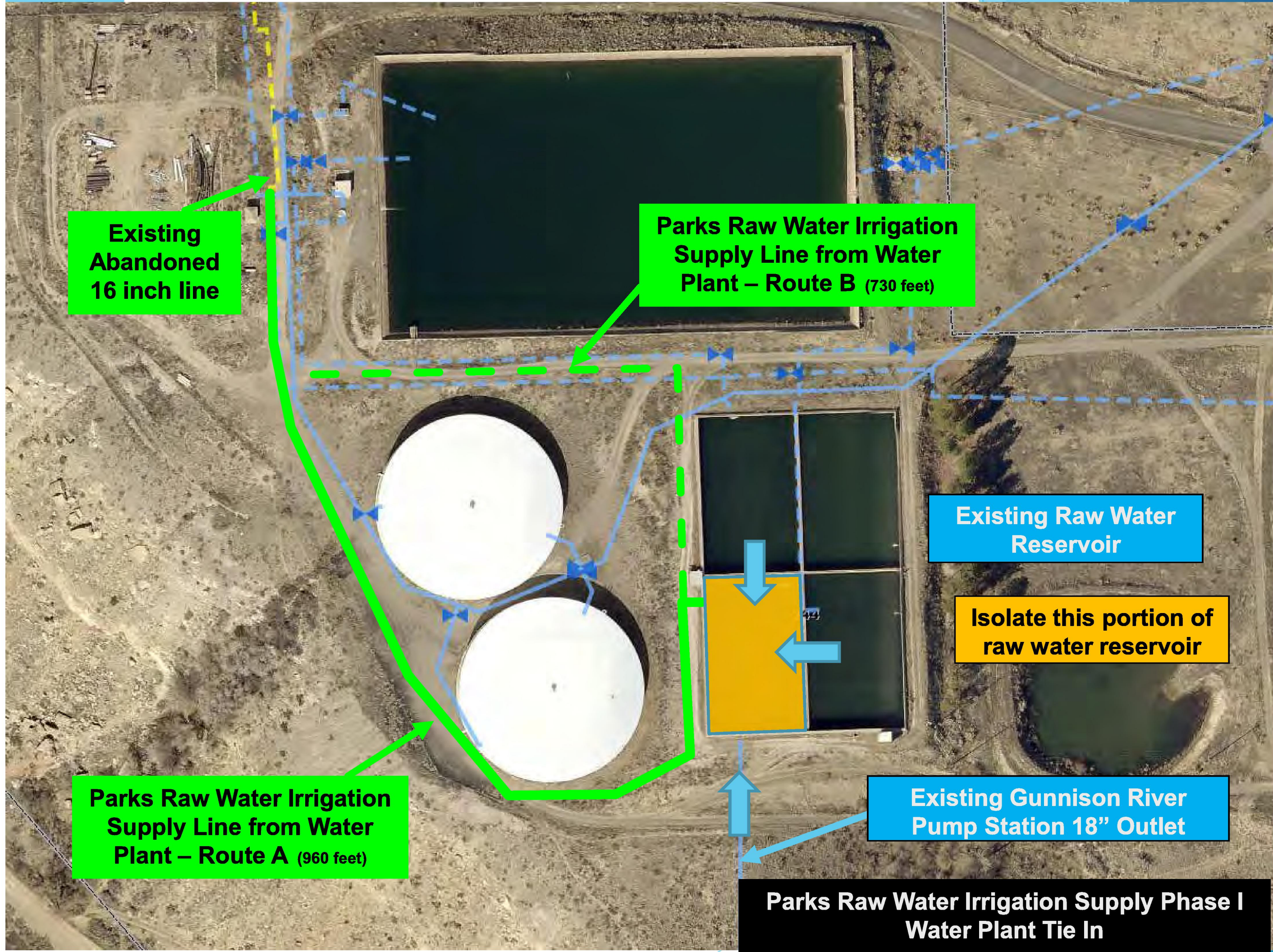
50

US Hwy 50

**Parks Raw Water Irrigation
Supply Line from Water
Plant**



**Parks Raw Water Irrigation Supply Phase I
Water Plant**



Existing Abandoned 16 inch line

Parks Raw Water Irrigation Supply Line from Water Plant – Route B (730 feet)

Existing Raw Water Reservoir

Isolate this portion of raw water reservoir

Parks Raw Water Irrigation Supply Line from Water Plant – Route A (960 feet)

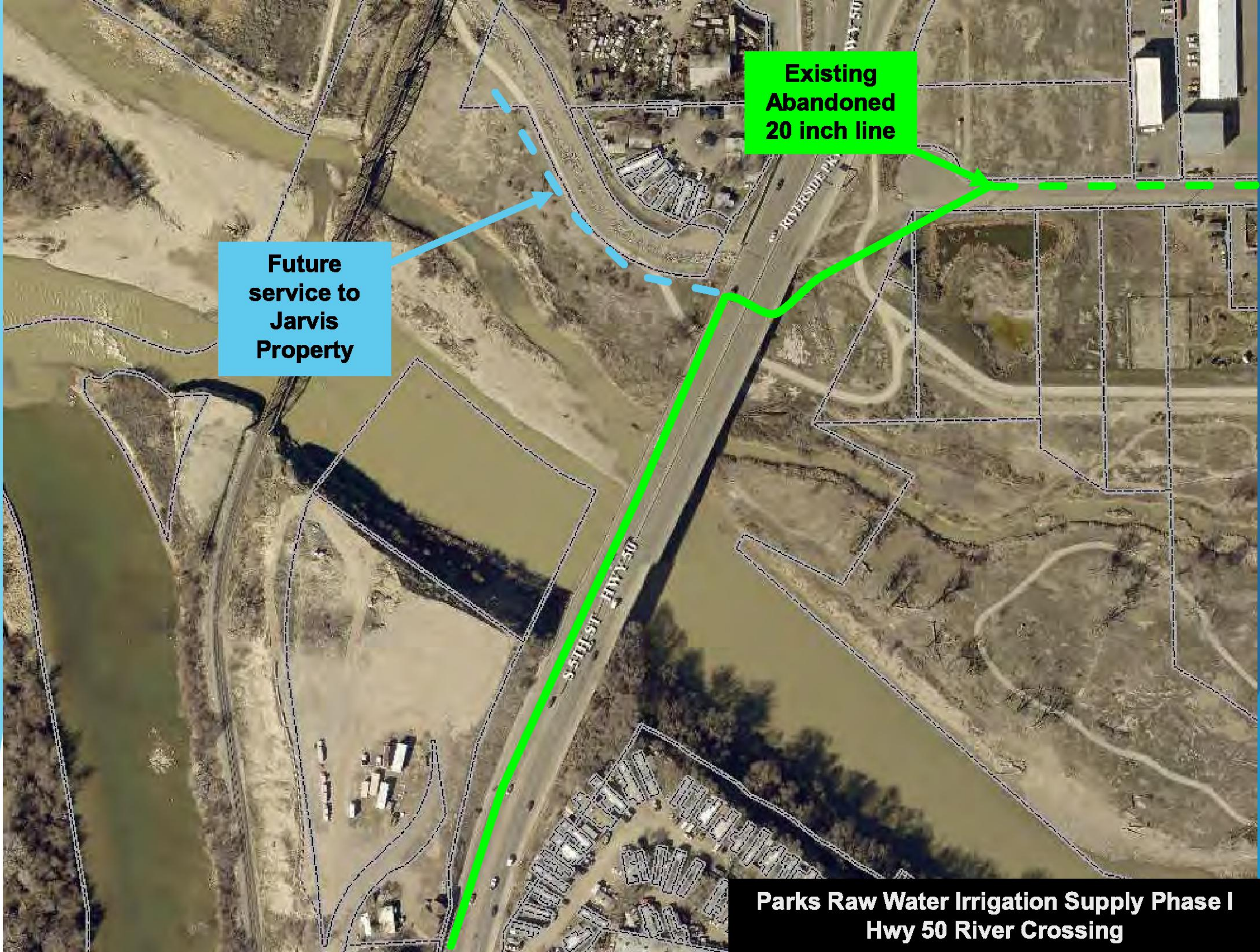
Existing Gunnison River Pump Station 18" Outlet

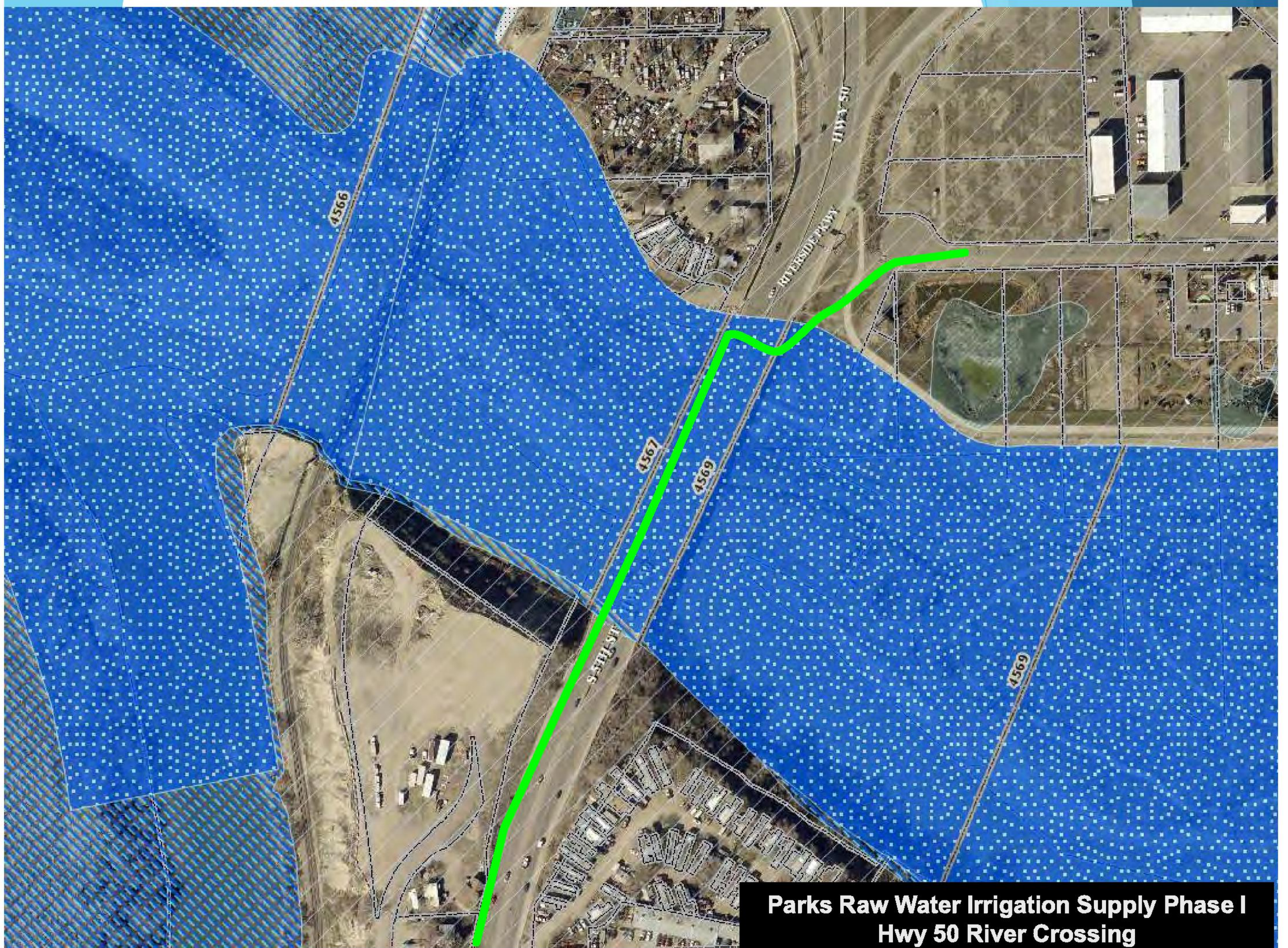
Parks Raw Water Irrigation Supply Phase I Water Plant Tie In

**Existing
Abandoned
20 inch line**

**Future
service to
Jarvis
Property**

**Parks Raw Water Irrigation Supply Phase I
Hwy 50 River Crossing**

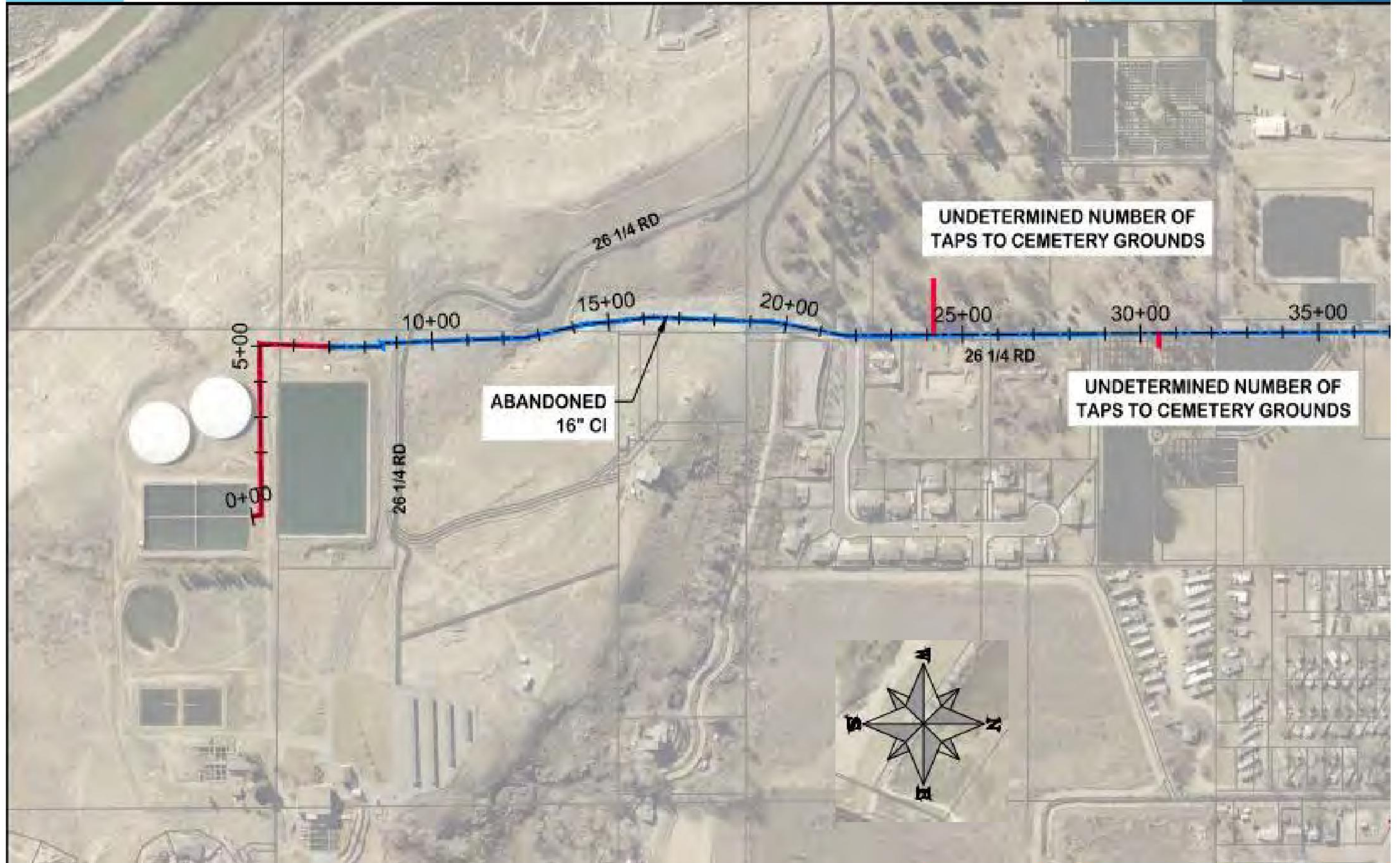




**Parks Raw Water Irrigation Supply Phase I
Hwy 50 River Crossing**

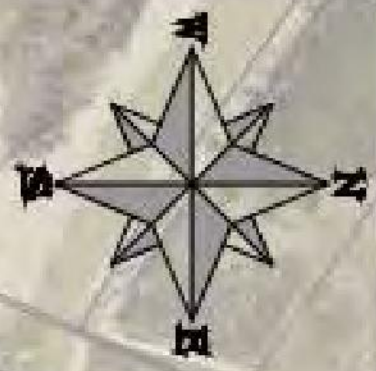


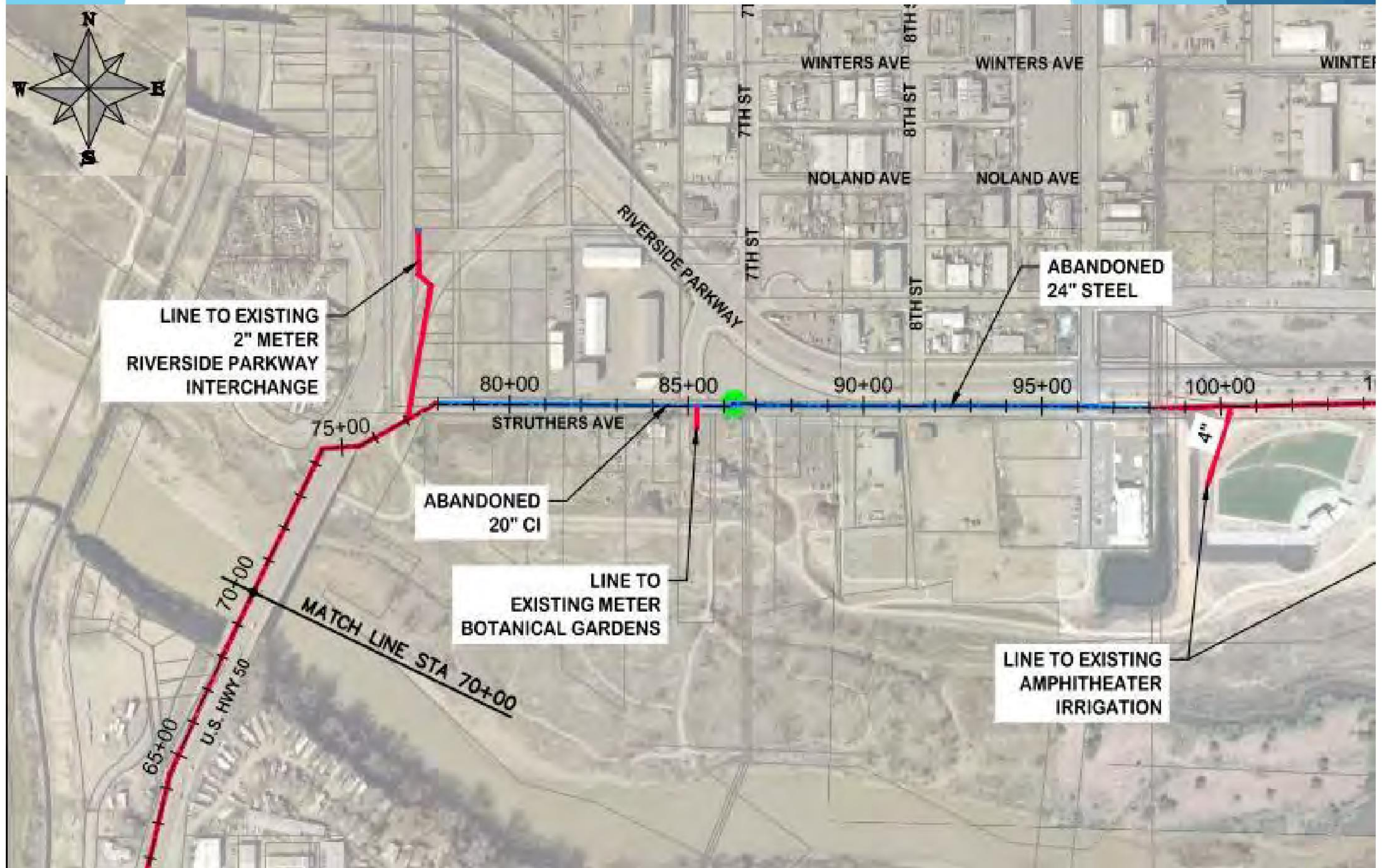
**Parks Raw Water Irrigation Supply Phase I
Hwy 50 River Crossing – View looking north
from Rivefront Trail**



**Parks Raw Water Irrigation Supply Phase I
Conceptual Design Section 1 of 4**

PROJECT NO.





**Parks Raw Water Irrigation Supply Phase I
Conceptual Design Section 3 of 4**



LEGEND

- POTENTIAL CONFLICT LOCATION
- NEW LINE INSTALLATION
- CURED IN PLACE OR SLIP LINE INSIDE ABANDONED PIPE

NUMBER & LOCATION OF TAPS WILL NEED TO BE VERIFIED



Proposal

City of Grand Junction Parks Raw Water Irrigation Supply Phase I

RFP-4429-17-DH

December 8, 2017



Prepared for:





JVA, Incorporated
817 Colorado Avenue
Suite 301
Glenwood Springs,
CO 81601
970.404.3100
info@jvajva.com

December 8, 2017

Mr. Duane Hoff Jr., Senior Buyer
City of Grand Junction
250 North 5th Street
Grand Junction, CO 81501

www.jvajva.com

Reference: Professional Engineering Services for Parks Raw Water Irrigation Supply Phase I
City of Grand Junction Request for Proposal (RFP-4429-17-DH)

Dear Mr. Hoff and Selection Committee Members:

JVA, Incorporated (JVA) is very excited to submit our proposal for engineering services to the City of Grand Junction (City) for the Parks Raw Water Irrigation Supply Phase I Project. JVA has carefully reviewed the Request for Proposal (RFP), toured the project on numerous occasions, spoken with operations and City staff several times, and also acknowledges receiving the one addendum to the RFP.

JVA's team, dedicated to this project, has extensive experience planning, designing, permitting and administering pipeline projects, including raw waterlines and bridge crossings of similar size and complexity, throughout Colorado. We also know the intricate coordination, project management, and detailed design that is necessary to deliver a successful project like this one. We have put considerable effort into understanding the scope of work and have prepared a tailored approach to effectively deliver your project and address all key issues.

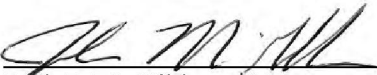
JVA has assembled a top team of consultants with solid technical abilities and great attitudes. Our team's values of honesty, integrity, accountability, and a demand for a high quality engineering set us apart from other firms. The City and JVA have successfully worked together on several projects including the Water Treatment Plant Improvements project and the Persigo Wastewater Treatment Influent Wet Well Rehabilitation project. Furthermore, our team has an excellent track record coordinating with the Colorado Department of Transportation and Army Corps of Engineers, as many of our projects involve these agencies. These past relationships will help ensure your project meets the goals and is delivered on time and within budget.

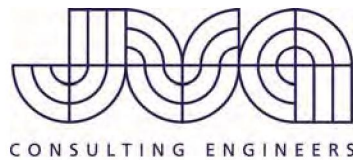
In addition to technical aptitude and enthusiasm, the City can trust JVA to complete the project with the City's best interests at heart. We strive to provide valued and quality services at a reasonable cost within the agreed timeframes. We will persistently seek collaboration with the City and stakeholders throughout the project and hold ourselves accountable. We are committed to earning the City's trust during this project and beyond, and we hope this proposal fully conveys our interest, ability, and conviction to deliver the project and exceed the City's expectations.

We look forward to introducing our team and discussing our approach further in an interview with the City. If there are any questions or comments pertaining to this proposal during the review process, please contact me at 970.404.3100 or jmcgibbon@jvajva.com. Thank you for your consideration and we look forward to continuing to work with the City of Grand Junction.

Sincerely,

JVA, INCORPORATED

By: 
Josh J. McGibbon, P.E.
Vice President



JVA, Inc. (JVA) appreciates the opportunity to present our proposal to the City of Grand Junction (City) for the Parks Raw Water Irrigation Supply Phase I project. The following proposal is based on the Request for Proposal (RFP) issued on November 17, 2017, subsequent addendum, and the pre-proposal conference on November 28, 2017. JVA has the experience and necessary resources to help the City complete this project.

Qualifications/ Experience/ Credentials



JVA is a civil, structural, and environmental consulting engineering firm headquartered in Boulder, Colorado, with Front Range offices in Denver and Fort Collins, and mountain offices in Winter Park and Glenwood Springs. JVA celebrates our 61st anniversary of engineering excellence, serving municipalities, special districts, and owners throughout Colorado. Our current staff size consists of over 110 experienced engineers, designers, and administrative staff. We are committed to excellence in our service to all clients. As consulting engineers, we are dedicated to superior design, and understand the need to communicate, work as a team, and complete projects on time. JVA provides its clients with creative thinking, design sensitivity, and cost-effective engineering. We recognize that true service to the client is more than quality engineering. Continuity and efficient use of resources, meeting deadlines, and being sensitive to your needs are our primary goals.

Contact:

Cooper Best, P.E., Regional Manager
JVA, Incorporated
817 Colorado Avenue, Suite 301
Glenwood Springs, CO 81601
Tel: 970.404.3003
Email: cbest@vajva.com
Web: www.vajva.com

Our environmental engineering department focuses on a wide variety of water supply, water treatment, and distribution projects. Our expertise includes raw water system design, water utility plans, master planning, basis of design reports, water treatment process selection and design, financial assistance, permitting, bidding and construction services, field start-up services and operations, and maintenance manuals. Our projects range from small studies to construction projects valued at over \$10 million.

We are committed to excellence in our service to all our clients. As consulting engineers, we are dedicated to superior design, and understand the need to communicate, work as a team, and complete projects on time. JVA provides its clients with creative thinking, design sensitivity, and cost-effective engineering. We recognize that true service to the client is more than quality engineering. Maximizing resources, meeting deadlines, and being sensitive to your needs are our primary goals.

“JVA has a full range of services at their fingertips – Whether structural, environmental or other, they can provide services and answers from within their company. Also, they provided structural inspection of our facility which has kept the contractor moving. It is much simpler than dealing with multiple subs, whether in design or construction. This is incredibly important when our project schedule is so short.”

—John Eklund, P.E.
City of Grand Junction



Key Project Staff

JVA has assembled a team of highly skilled and well-regarded engineers to best serve the City. Work for this project will be conducted mainly from our Glenwood Springs office, and team members will be able to easily attend weekly meetings, site visits, and any other items that may arise. A short description of background and related experience for key personnel follow.

JOSH McGIBBON, P.E. **Principal-in-Charge**

Josh will be the Principal-in-Charge and primary management liaison for any contract issues. Josh's primary responsibility is to review the project schedule and budget, attend reviews and workshops with the client, commit project resources, and provide technical QA/QC to all design deliverables. Josh will head the JVA team based on his strong background in water and utility infrastructure work as well as his environmental department manager role. He has been the Engineer of Record for the planning, permitting and design of numerous waterline and raw water conveyance projects. He provides excellent coordination with regulatory agencies and public outreach.

COOPER BEST **Senior Project Manager**

As the Glenwood Springs Regional Manager at JVA, Cooper will help manage the design team for this project with the City. Cooper brings more than 18 years of engineering experience with water distribution systems, hydraulic modeling, water and wastewater treatment systems, UV disinfection, headworks retrofits, lift stations, master plans, utility plans and funding knowledge for capital projects. Cooper will help lead the JVA team based on his strong background in infrastructure work as well as his management of similar projects including bridge crossings.

Cooper is skilled in all facets of design, permitting, and construction management of water and wastewater projects. He has extensive knowledge and experience in grant/loan funding for water and wastewater treatment facilities and water quality projects. Cooper excels in communication and pays special attention to assisting clients with making water and wastewater

projects a reality. He has provided innovative designs for water and wastewater systems throughout Colorado.

JOEL PRICE, P.E., LEED AP **Technical Lead**

Joel is the manager of JVA's Infrastructure Department and has over 17 years of experience on providing engineering services for communities like the City of Grand Junction. He has been the project engineer or manager on numerous waterline and raw water conveyance projects including bridge crossings. His role as technical lead for this project will prove invaluable during each phase of the project.

LEANNE MILLER, P.E. **Senior Project Engineer**

Leanne brings almost 10 years of engineering and operations optimization experience on water and wastewater treatment and conveyance systems including hydraulic modeling, pressure and materials analysis, and rehabilitation strategies and alternatives. She has worked on numerous water conveyance projects from planning through construction services for small to large diameter transmission mains.

MANDY RASMUSSEN, P.E. **Project Engineer – Modeling**

Mandy Rasmussen has ten years of experience with water and wastewater infrastructure improvements. She also has in-depth experience modeling and evaluating the hydraulic profiles for new, rehabilitated and expanded water and wastewater systems. Hydraulic analyses to date have included elevated storage tank evaluations, identification of plant and distribution system bottlenecks, evaluating rehabilitation strategies through modeling, and a pressure zone booster station design. Each of these distribution system hydraulic models are living tools that provide essential information in the planning process and during engineering design. Mandy performed a hydraulic analysis of the 24 MGD Sandhill Water Treatment Plant in Fontana, California. Through this analysis, Mandy identified the location of a bottleneck limiting the capacity of the facility to 80 percent of the design capacity.

Mandy’s primary role for this project will be hydraulic modeling.

NATHAN SKALAK
Design Engineer

Nathan has been working in engineering and construction services for eight years. As a project manager for a general contractor performing sitework, he became very aware of constructability concerns and solutions. He oversaw numerous projects in the field and has continued this role with JVA, along with numerous water conveyance design projects and his role on this team will include assessment, planning, and design.


BRETT ROBINSON
Structural Engineer

Brett has extensive structural experience with municipal clients. Brett leads JVA’s technical staff in bridge design and he has experience with precast concrete, cast in place concrete, steel and timber structural systems. Brett worked with the City of Boulder Parks Department on Elks Park and he completed the design of the access bridge for the park using heavy timber. He was involved in the Snake River replacement bridge project in Summit County and he worked with the Town of Berthoud and County staff in developing a repair solution to a large county bridge damaged by the September flooding. Last year Brett attending a multi-day national AASHTO bridge symposium held at the University of Wisconsin.

Subconsultants

JVA plans to utilize the following subconsultants which we have worked on several past projects with and our teams have good working relationships.

BROWNS HILL
Control Systems Subconsultant

 JVA proposes to supplement its team with Browns Hill Engineering and Controls LLC (Browns Hill) to help assess power or communication improvements for the viable alternatives. Established in April of 2000, Browns Hill is a 24-person Electrical Engineering consulting firm and Controls System

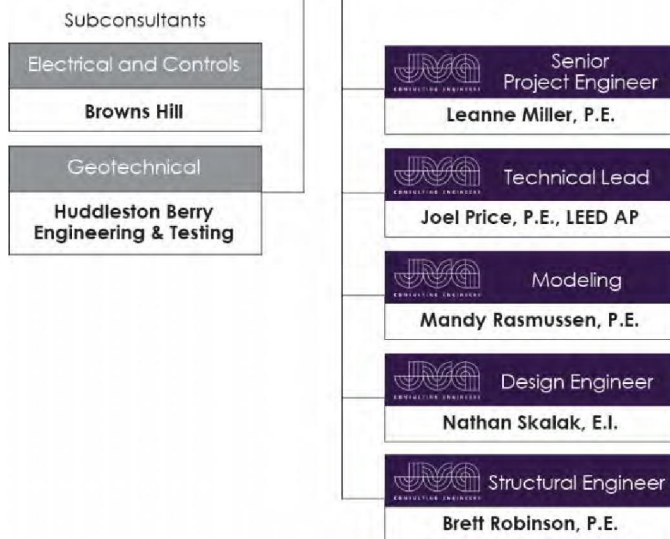
Integrator located in Littleton, Colorado with regional branches serving southwest Colorado and the I-70 corridor. Browns Hill and JVA have an excellent working relationship since 2000 and have worked as a team on numerous similar projects, including water and wastewater facilities. Browns Hill also has extensive wastewater system telemetry and communication experience, and will be used for all applicable electrical and control evaluations.

HUDDLESTON BERRY ENGINEERING & TESTING
Geotechnical Engineering Subconsultant



Huddleston-Berry is a limited liability company formed in the State of Colorado to provide geotechnical engineering, construction materials testing, and consulting services to developers, municipalities, contractors and individuals. The staff at Huddleston-Berry has a wide range of expertise and experience in subsurface investigation, geotechnical design, construction materials testing and special inspections. We can bring our extensive experience to bear in maximizing the efficiency of the project. In addition, HBET has the necessary availability to ensure our services do not slow the progress of the project. Huddleston-Berry has the resources and depth of expertise to handle even the largest of projects. However, as the company has grown, HBET has strived to provide personalized, responsive service to all clients – large or small. In addition, Huddleston-Berry Engineering and Testing, LLC prides itself on being a positive force in Grand Junction and surrounding communities.

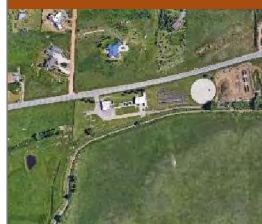
“JVA has excelled in several areas, which I consider to be of the utmost importance when working with consulting engineers: timeliness, thoroughness, and their ability to meet the project’s scope of work within budget.”
—Douglas Sullivan, PE
Utilities Department Project Manager, City of Boulder



Prior Experience in Similar Projects

The project summaries provided below are just a few examples that demonstrate JVA’s distribution system experience. Some of the water projects listed below have different applications than what may be currently designed for the Town, but they are included to illustrate our technical and non-technical skills, such as our comprehensive knowledge in water, construction administration, work with State staff, regulatory and permitting knowledge, and understanding of funding.

Lateral Piping Project Louisville, CO



Reference:
Cory Peterson, Water Resources Engineer
City of Louisville
303.335.4610
cpeterson@louisvilleco.gov

JVA is currently preparing construction document for replacement of the existing City of Louisville Lateral irrigation ditch with a piped system. The approximately three-mile long ditch conveys flows from the raw water influent line at the south water treatment plant to the Louisville Reservoir adjacent to the north water treatment plant. As the south water treatment plant has less demand, the system would allow for transfer of water to the north water treatment plant to allow for increased capacity. The existing alignment is primarily open channel, but passes through several differently sized underground pipes that were installed starting in the 1960s. The design required a hydraulic analysis of the proposed system to verify that there was sufficient capacity to convey the flows, and that there wasn’t an impact to treatment operations at the south plant. As the existing ditch inadvertently captured storm runoff from the adjacent open space, the system was designed to also convey the 10-year storm event. The project is currently under review by the City of Louisville.

“We put in over 10,000 feet of water transmission pipeline greatly needed for the West side for the last 10 years. Now we are about half way through the water treatment plant expansion that I feared would not happen due to new regulation requirements. You guys worked long and hard with CDPHE to get us what we need to meet all requirements.”

—Scott Eilert, Pueblo West Metro District Director of Utilities

City of Lamar, Colorado Projects	
	John Sutherland, City Administrator City of Lamar 102 East Parmenter Street Lamar, CO 81052 719.336.4376 john.sutherland@ci.lamar.co.us

Raw Water Transmission Line



JVA worked with Honeywell on a design-build raw water transmission line project for the City of Lamar to replace 35,000 feet of 14-inch cast iron well transmission piping installed in the 1930s. The pipeline had been repaired in many locations, was leaking, had tuberculation, and has outlived its service life. JVA designed the replacement pipe and prepared construction documents for the design-build project that included 24,000 feet of new 16-inch DR 25 PVC pipe, 11,000 feet of new 12-inch DR 25 PVC pipe, concrete encasement at four road crossings and valves, fittings, and other appurtenances.

Main Street Waterline Replacement




The City of Lamar retained JVA to represent the City’s interests during the planning and design phases of CDOT’s Highway 287 Main Street Resurfacing Project. JVA assisted the City with conflict identification

between the new road project and their existing water distribution system. Furthermore, JVA wrote a PER evaluating alternatives for replacing the City’s water distribution system within the highway corridor. This PER was also used to pursue funding opportunities for the City.

The waterline replacement is now under construction with approximately 22,000 feet of 6-, 8-, and 12-inch waterline replacement throughout the City in conjunction with CDOT Main Street Rehabilitation project. During the design phase, JVA performed hydraulic calculations, determined the pipeline alignment, tie-in requirements, and prepared the waterline construction documents. During construction, JVA is performing construction administration for the duration of the project, reviewing submittals, providing field engineering for below grade unforeseen conditions, and attending construction meetings. JVA will provide oversight for final commissioning, including tie-in and switchover, flushing, pressure testing, and disinfection.

Erie Lake By-Pass Raw Water Line Erie, CO	
	Reference: Wendi Palmer, Project Manager, Town of Erie 645 Holbrook St., P.O. Box 750 Erie, CO 80516 303.926.2875 wpalmer@ci.erie.co.us

JVA designed a raw water waterline to by-pass Erie Lake. This waterline consisted of approximately 3,500 feet of 36" C-905 PVC including a State Highway crossing/boring and connection to 16- and 24-inch raw water mains to treatment plant. JVA did the layout and preliminary design of three alternatives and final design including hydraulic calculations, pipeline alignment, tie-in details and construction documents.

Town of Berthoud, Colorado Projects	
	Stephanie Brothers, Director, Public Works Town of Berthoud 807 Mountain Avenue P.O. Box 1229 Berthoud, CO 80513-2229 970.532.2643 sbrothers@berthoud.org

Raw Water Bypass Project



JVA completed a comprehensive water system Master Plan for the Town of Berthoud. The master plan included hydraulic models of the distributions system, storage improvements,

creating new pressure zones and water treatment upgrades. A detailed Capital Improvement Plan was developed for recommended treatment, distribution and storage improvements. JVA also designed a raw water bypass pipeline for the Town’s WTP, which consisted of over 3000 feet of 18-inch PVC with overflow structures, a ditch crossing and dam assessment.

Berthoud Regional I-25 Water Distribution and Wastewater Collection Systems



JVA has worked with the Town of Berthoud since 2012 to provide master planning, permitting, design, and construction administration for the Town’s separate I-25

service area located five miles west of Berthoud. This current water distribution and sanitary sewer collection system project includes approximately 4,500 linear feet of water transmission main with a Pressure Reducing Valve (PRV) with Master Meter Vault interconnect with the Little Thompson Water District (LTWD), and 8,000 linear feet of sanitary sewer main with connection to the Berthoud Regional Wastewater Treatment Facility (WWTF). The water distribution

system, PRV Vault, collection system, and WWTF are all part of one Construction Manager at Risk (CMAR) alternative delivery method contract. The distribution system and collection system projects include 16-inch water transmission line, 15-inch and 12-inch sanitary sewer line, three I-25 bore with casing crossings, and one Little Thompson River crossing to ultimately serve the entire Berthoud I-25 service area. JVA lead all permitting efforts including permits with the Colorado Department of Transportation (CDOT), U.S. Army Corps of Engineers (USACOE), Colorado Department of Public Health and Environment (CDPHE), and design approval from the LTWD. JVA performed water modeling for the Town as part of the master plan and coordinated PRV design requirements for connecting to a 42-inch LTWD transmission main with an operating pressure of 270 psi.

Greenland Ranch Water Supply Line Greenland, CO	
	Reference: Chuck Bonsteel, Corporate Development Sun Resources, LLC 405.475.3950

JVA initially completed a preliminary engineering study for two routing options of delivery of raw water from Greenland Ranch to customers in Denver and Colorado Springs. JVA has recently completed 30% final design of the North Line, with LIDAR survey of a 30-mile route for a 24-inch steel transmission line from Greenland Ranch well sites to the High Line Canal along the Union Pacific Railroad (UPRR) Right of Way. JVA has been responsible for extensive client, subconsultant and UPRR coordination for pipeline alignment within railroad ROW, hydraulic modelling and calculations, roadway and drainage crossings, and pressure reducing valve vaults. JVA has generated over 140 plan and profile sheets and related construction documents.

Pueblo West, CO



Pueblo West
COLORADO

Reference:

Scott Eilert, Director of Utilities,
Pueblo West Metro District
109 E. Industrial Blvd., P.O. Box
7005
Pueblo West, CO 81007
719.547.5044
seilert@pwmd-co.us

Wildhorse Return Flow Diversion and Pipeline



JVA is currently designing and permitting a 3.2 mile pipeline to collect and deliver effluent and return flows to

the Arkansas River for the District. This gravity sewer project will be constructed within private property, Pueblo County, and City of Pueblo easements and right-of-ways. Construction is to start in 2017. The District has been working on this project for several years to measure and account for their return flows and to be given credit for this water to be used for diversion to their water treatment plant. Although the project has experienced delays due to intergovernmental agreements, permitting, and private property owners the \$4.2M project is now on schedule to be completed. The project will include diversion structures, 12-, 15-, and 18-inch PVC pipeline, manholes, and flow metering and measuring devices. Flows will be indicated and recorded using remote telemetry via satellite. Crossings include CDOT, City of Pueblo, and private property owners for utility construction and permanent installation of the pipeline.

Water Transmission Line



JVA has been providing numerous water projects for the District. This recent pipeline project included approximately 11,000 linear feet of water transmission main from the Water Treatment Plant to South

Paulding Drive, and a water main extension along

South Angus Drive for Pueblo West Metropolitan District. Project includes 36-, 24-, and 18-inch PVC water transmission line to serve the Pueblo West Metro District (PWMD) and provide future capacity to a planned reservoir for the District as well as allow for greater redundancy to the current system which also serves the City of Pueblo. JVA lead a team of consultants for this design and an updated PWMD water system models to include the new transmission line.

Raw Water Diversion Structure Nederland, CO



Reference:

Chris Pelletier, Public Works
Director, Town of Nederland
45 W. First St., P.O. Box 396
Nederland, CO 80466
303.258.3167
chrisp@nederlandco.org

JVA designed and administered the construction of a new raw water intake and diversion structure for the Town of Nederland's water treatment facility (WTF). The old intake structure exhibited problems maintaining reliable flow, icing in the winter and did not have coarse screening for influent organic debris. The goal of the project was to maintain a minimum elevation at the direct water intake structure, provide for alternate draw offs with different elevations and provide superior influent screening. The intake improvements include replacing the existing direct intake pipe, constructing a permanent cast-in-place diversion wall and rip rap cross vane weirs bisecting Middle Boulder Creek. As proposed, a concrete headwall will prevent bank erosion and facilitate the addition of a new stainless-steel vertical fine screen. The permanent diversion wall will eliminate continual maintenance and the cross-vane rip rap weirs will ensure water level is above the new intake screen while enabling fish to travel up or downstream. Additional improvements include infiltration gallery for enhanced riverbed filtration and bypass pipe to shut off direct intake for high TOC/DOC periods during stream runoff.



Strategy and Implementation Plan

The following outlines JVA’s interpretation of the City’s objectives for this project and the proposed strategy to achieve the objectives.

- Provide raw water for irrigation services to the Las Colonias Park Development from the City’s raw water reservoir at the Water Treatment Plant by rehabilitating abandoned water transmission mains and installing new conveyance infrastructure. Provide a means of winterizing the conveyance system.
- Develop a model of the proposed conveyance system to provide sufficient irrigation water services through four phases of projected development.
- Work with City of Grand Junction staff and relevant stakeholder groups with jurisdictional oversight along the alignment to design a raw water pipeline and prepare construction documents for construction in late summer of 2018.

We understand that this project will require coordination with the Colorado Department of Transportation and the Army Corp of Engineers. Our previous experience and relationships with these agencies will ensure that the permitting process proceeds smoothly and timely.

We recognize that an ongoing consulting relationship requires a variety of communication forums that range from short phone calls to lunch meetings to in-person plan reviews and consultations. However, when we are engaged on a specific engineering project with detailed and particular goals, we typically adhere to the following project approach:

4.1. Project Approach

JVA has worked with numerous communities on raw and potable transmission main projects that include both rehabilitation efforts and new infrastructure, providing a high level of quality at an excellent value. Our goal is to serve the City of Grand Junction as a trusted extension of your staff. We make your project

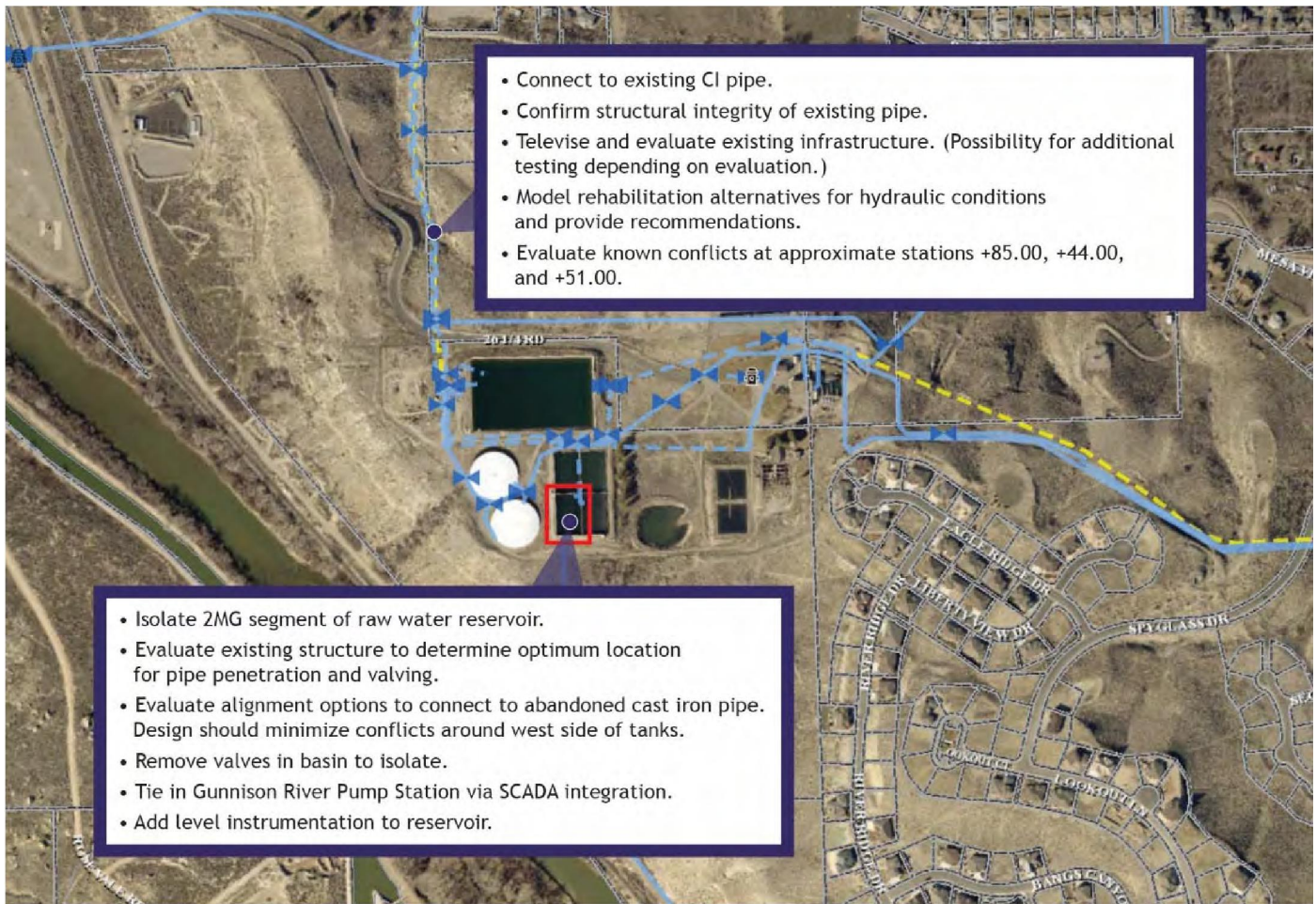
objectives our project objectives. A kick-off meeting with the District and key project design team members is crucial for a successful project start. By involving experienced designers and engineers, the JVA team will focus on design features and options that the City may elect to pursue.

Evaluate Project Requirements and Scope of Work

Clearly identifying the expectations, requirements, and needs of the City of Grand Junction ensures that project needs are met. A complete scope of work and work plan, detailing available information, needed information, and resources, enables us to proceed efficiently toward mutually established project goals. We will review all existing GIS mapping documentation, WaterGEMs water model, existing surveys, As-Built drawings from the City and CDOT, preliminary studies, and designs and determine if any additional information is still required for a comprehensive design.

“JVA makesure our plans are going to work – Updating an old treatment plant to current standards is no small feat. JVA coordinated local and state design standards (including getting exemptions approved), equipment suppliers, and sub-consultants seamlessly to create a comprehensive project plan set in a mere 62 days.”

— John Eklund, P.E.
City of Grand Junction



- Connect to existing CI pipe.
- Confirm structural integrity of existing pipe.
- Televis and evaluate existing infrastructure. (Possibility for additional testing depending on evaluation.)
- Model rehabilitation alternatives for hydraulic conditions and provide recommendations.
- Evaluate known conflicts at approximate stations +85.00, +44.00, and +51.00.

- Isolate 2MG segment of raw water reservoir.
- Evaluate existing structure to determine optimum location for pipe penetration and valving.
- Evaluate alignment options to connect to abandoned cast iron pipe. Design should minimize conflicts around west side of tanks.
- Remove valves in basin to isolate.
- Tie in Gunnison River Pump Station via SCADA integration.
- Add level instrumentation to reservoir.

Project Kick-Off Meetings

The success of this effort within the City’s scheduled timeframe is highly dependent on working as a team with the involved parties and stakeholder groups. JVA proposes to hold a two part kick-off workshop with a project kick-off meeting between the City of Grand Junction staff and the JVA team followed by a brief stakeholder group kickoff meeting. During the team kick-off meeting, JVA will further develop the project Work Plan to outline key milestones, points of contact, and proposed design schedule to ensure clear communication throughout the project.

For multiple stakeholder projects, JVA has learned that there is tremendous value in engaging review agencies early and often. Involving parties with jurisdictional oversight in the design process from the beginning helps the team better understand the jurisdictional

expectations for this specific project. This approach minimizes the risk of deviations from the schedule.

Existing Water Conveyance Infrastructure Evaluation

The scope of work for Phase I of the raw water line is intended to reuse approximately 7,800 linear feet of abandoned water infrastructure. This approach will likely lead to reduced construction costs; however, preliminary investigations of the abandoned water mains is critical to confirm the condition, size, material, and structural integrity of this infrastructure. In addition, the City believes there are several sections that are no longer connected and will need to be reconnected. Based on our preliminary evaluation, we anticipate pressure conditions throughout the system will range from approximately 50 to 110 pounds per square inch (psi). Confirming that the existing pipe can

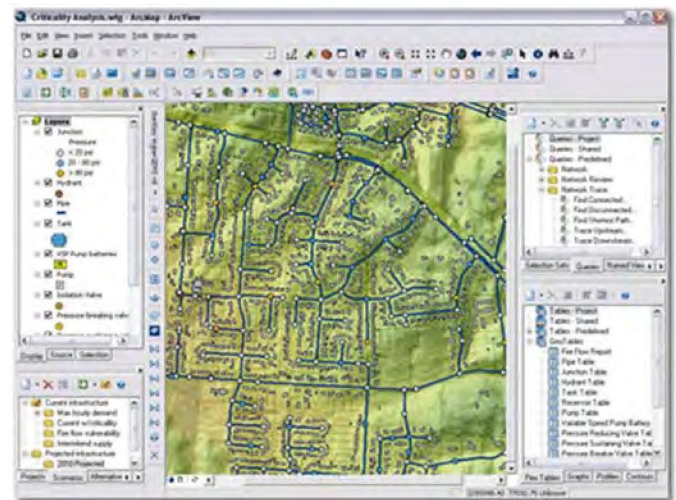
reliably support the projected velocities and pressures along the proposed raw water main is critical.

JVA will work with city staff to coordinate televising of the existing infrastructure and will review and analyze the provided video records. Additional integrity testing may be recommended after preliminary investigations depending on the condition and findings from the televised investigation.

Hydraulic Modeling (Phase I through Phase IV)

JVA will use the City's existing WaterGEMS hydraulic model and water demand projections for irrigation services as a basis to evaluate the Phase 1 through Phase IV raw water irrigation system to deliver water from the raw water reservoir to the Las Colonias Park Development and other projected irrigation customers. City standards for pressure and velocity conditions within irrigation transmission mains will be used to evaluate potential alternatives. Several areas that deserve further discussion and modeling are,

- Determining appropriate pipe size and material for new and rehabilitated pipes to convey required capacities for all phases of the proposed system within the City's design parameters for irrigation transmission systems.
- Analyze rehabilitation alternatives with respect to friction losses, velocities, and capacity implications.
- Evaluate hydraulic constraints and siting of appropriate equipment to protect infrastructure such as air release/vacuum breaker valves, pressure release valves (if necessary), drain locations for winterizing, etc.



Upon completion of the modeling effort, JVA will prepare a technical memorandum of the findings and alternatives for the City in order to facilitate preliminary design decisions.

Field Assessment and Conflict Area Investigation

JVA's design team will walk the proposed alignment of Phase I with the City's existing survey to determine if additional surveying is necessary. We will review each critical/conflict area in the field to understand the areas in more detail, determine what (if any) additional field investigations are necessary, and establish constraints and opportunities to resolve these conflict areas. JVA will coordinate with City staff for additional survey needs after the field assessment. Having key information relative to existing public infrastructure including shallow and deep utilities, landscaping, bridges, culverts, roadway, sidewalks, waterways, and topography at an early stage is critical to the project and schedule. This familiarity is necessary to ensure that the project runs smoothly with few, if any, surprises with the proposed alignment once construction starts.

As part of the field assessment, JVA will work with our geotechnical subconsultant to begin subsurface investigations, particularly with respect to the new pipeline work to occur at the CDOT Highway 50 bridge. Preliminary potholing investigations by the City will occur during this phase for the new pipeline alignment to develop the alignment and profile of the

new pipe. JVA will perform an additional review of the phasing of the proposed improvements to ensure that we coordinate with needs of the City, consider utility issues, and address “conflict area” concerns regarding the impact of the project.

Items identified through the site inspection, survey, or geotechnical investigation that impact the initial concept of the project will be reviewed with the City and CDOT to address modifications to the design and alignment, if needed. JVA strives to keep City management and other stakeholders informed and “on board” at every step of the process. This requires the excellent proactive communication and project management skills that JVA is known for.



Alignment Alternative Analysis

Although most of the proposed raw water line will reuse existing infrastructure, the areas where new pipeline is anticipated is complex and requires a thoughtful and thorough investigation. JVA has identified two locations where evaluation of the new pipeline infrastructure alignment options will be developed and presented for review by the City and relevant stakeholders. The areas that have been preliminarily identified for alignment alternative analysis are,

- Isolation of the southwest segment of the raw water reservoir and connection alignment alternatives to the abandoned 16-inch cast-iron water transmission line
- CDOT Highway 50 crossing(s) and options for alignment along the Highway 50 bridge

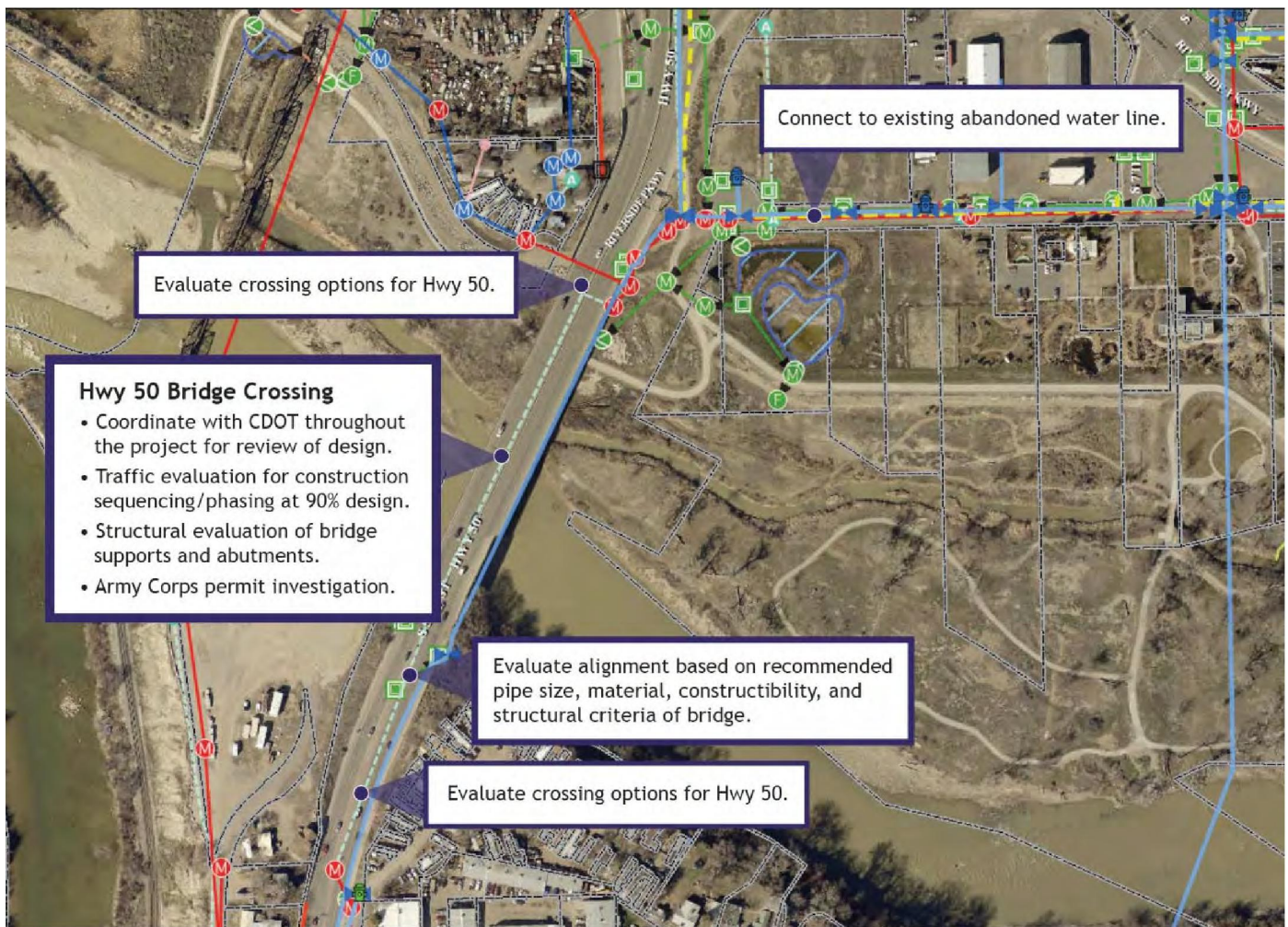
The alignment alternatives analysis will evaluate the two options with respect to hydraulic conditions/constraints, constructability, risk minimization, and provide a qualitative cost comparison. As part of this effort a contractor with significant experience in pipeline construction will provide a constructability review of the prepared alternatives. The alignment alternative analysis will occur in conjunction with Steps 4 and 5.

Design Development (30% Design)

At the 30% design phase, JVA will provide a technical memorandum to summarize all findings and design decisions that were agreed upon during the modeling evaluation, field investigations, and alternatives analysis. A set of 30% design drawings will include a preliminary water flow schematic, design criteria summary, site plan, hydraulic profile, and rough grading and drainage. Preliminary P&IDs, and electrical one-line diagrams for the Gunnison Pump Station connection will also be provided. Specifications will not be provided at this phase of the design.

An engineer’s opinion of probable cost (OPC) is included at the 30% design phase to determine if the project is still within the City’s original budget and what, if any, modifications are required to ensure a project scope that remains “within budget.” Items may have risen through the inspection, survey, or through initial design phases that affected the overall project cost. These items are addressed with the City and alternate approaches to the project will be discussed if necessary.

A 30% design workshop will be conducted and facilitated by JVA to update the City and stakeholders on the design status. The goal of this workshop is to solicit comments to the design and gain consensus from all stakeholders to “lock in” on the design before proceeding to 90%. Army Corp of Engineer Permitting requirements, CDOT, and City and County permits will be further identified as part of this Task.



Final Design (90% Design)

During the final design phase, JVA will prepare and submit 90% design drawing and draft technical specifications. Some of the key tasks that we anticipate include,

- Draft technical specifications
- Detailed civil design drawings, plan and profiles
- Structural design and Electrical design
- Instrumentation and controls
- Incorporate changes resulting from the 30% design workshop and review meeting
- 90% Engineers Opinion of Probable Construction Cost
- Submit for permit review and approval – City, CDOT, Army Corp of Engineers (if necessary)
- Evaluation of construction phasing and associated peak hour traffic impacts to develop construction sequencing

JVA will provide further detail on the 90% drawings related to the site yard piping and connections at the raw water reservoir, valves, and existing pipe connections. During this phase, JVA develop the draft construction specifications for all disciplines. Weekly progress meetings between the City and the internal design team will continue to provide updates on the project status and solicit input from the City’s staff. These weekly meetings have proven to be vital to keeping our projects on track and everyone informed.

Design decisions may arise during these meetings to keep the design moving forward. JVA will work with the City (and CDOT as appropriate) to solicit both operability and constructability comments and incorporate these comments into the design to ensure the most efficient and economical design. A 90% opinion of probable cost will be prepared for project planning and budgeting purposes. A 90% design



review workshop, like the workshop at 30%, will be conducted with all stakeholders to provide further details on the design.

Contract Documents (100%)

The 100% design will include comments received during the 90% design review meeting, and provide all details necessary for general contractors to prepare bids. Technical specifications will be finalized and the design package will be provided to the City. JVA will provide a 100% opinion of probable construction cost.

As part of the contract documents JVA will coordinate with the Colorado Department of Transportation (CDOT) for the final Special Use Permit. Preliminary traffic control plans will be provided and final traffic control plans will be further developed with the selected contractor for submission to the respective agencies with jurisdictions in the work zones.

Bidding Services

JVA has provided bid phase assistance to numerous clients and fully understands this process. This phase includes coordinating final bid invitation, identifying potential contractors, distributing design drawings and specifications to prospective bidders and plan rooms, conducting a pre-bid meeting, answering RFIs and issuing addenda, performing bid review, preparing bid tabulation summary, letter of recommendation, issuing a Notice of Award, reviewing contractor’s credentials, and maintaining detailed records. Bid phase assistance includes,

- Prepare the bid package
- Solicit/Advertise the request for bids
- Attend and participate in the pre-bid meeting
- Evaluate bids received and recommend award

“The Town considers JVA our “go to” engineering firm, and they have continued to respond to our needs with timely and effective recommendations and design efforts. We look forward to many years ahead with JVA as our primary consulting engineering firm.”

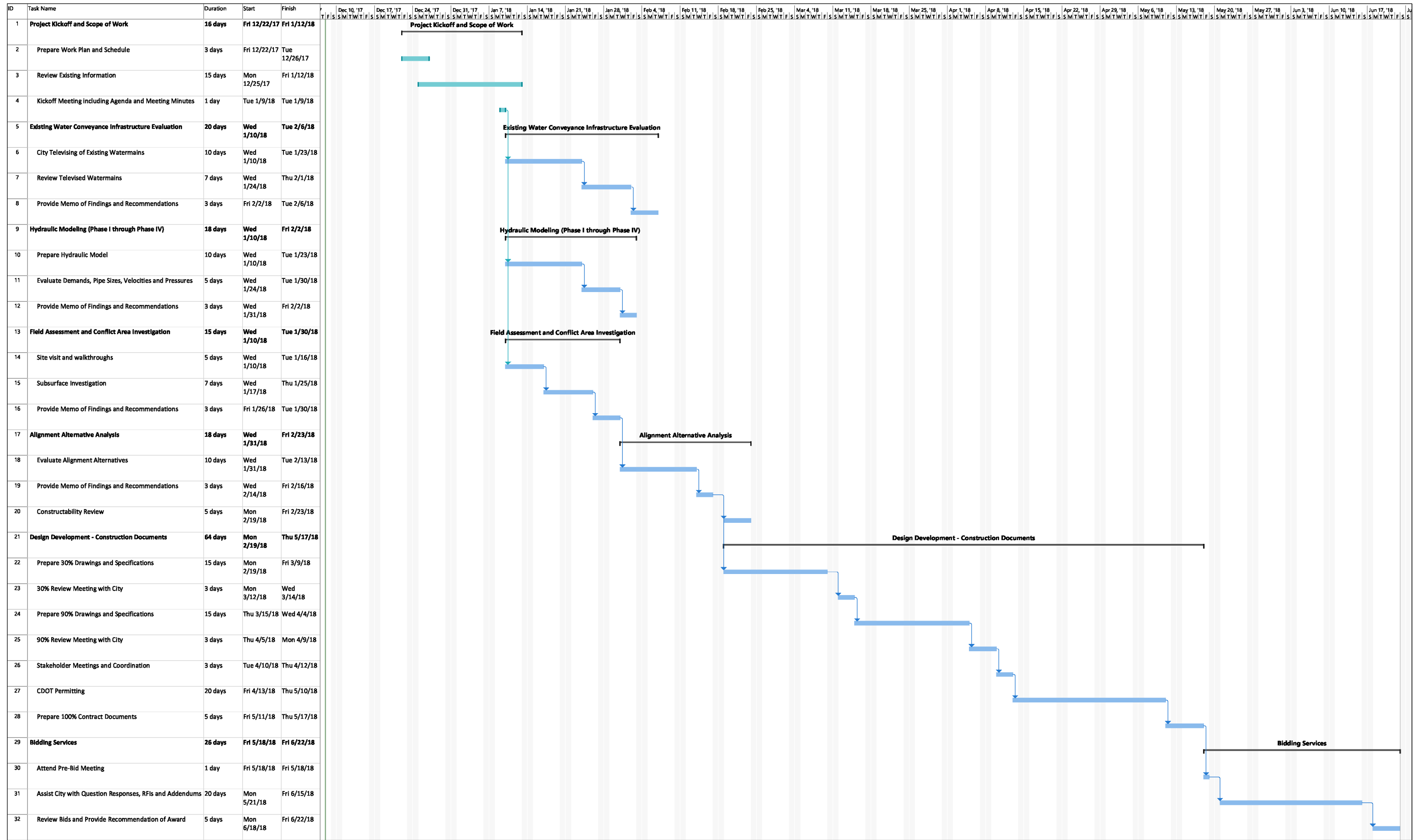
—Michael J. Hart, Town Administrator, Berthoud, CO

4.3. Overall Project Schedule

The included project schedule for JVA’s design and permitting services is based on information provided in the RFP and input from the City. JVA staff has the availability and resources to get this work done on time for the City. JVA recognizes that successful communication and project management will be key to meeting the milestones outlined in the project schedule.

References

References can be found next to each project writeup in the Prior Experience section above.





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
5/8/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER USI Colorado, LLC Prof Liab P.O. Box 7050 Englewood CO 80155	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">CONTACT NAME:</td> </tr> <tr> <td>PHONE (A/C, No, Ext): 800-873-8500</td> <td>FAX (A/C, No):</td> </tr> <tr> <td colspan="2">E-MAIL ADDRESS:</td> </tr> <tr> <td colspan="2" style="text-align: center;">INSURER(S) AFFORDING COVERAGE</td> </tr> <tr> <td>INSURER A: Charter Oak Fire Insurance Company</td> <td style="text-align: right;">NAIC # 25615</td> </tr> <tr> <td>INSURER B: Travelers Property Cas. Co. of Amer</td> <td style="text-align: right;">25674</td> </tr> <tr> <td>INSURER C: Travelers Indemnity Company</td> <td style="text-align: right;">25658</td> </tr> <tr> <td>INSURER D: Pinnacol Assurance Company</td> <td style="text-align: right;">41190</td> </tr> <tr> <td>INSURER E: XL Specialty Insurance Company</td> <td style="text-align: right;">37885</td> </tr> <tr> <td colspan="2">INSURER F:</td> </tr> </table>	CONTACT NAME:		PHONE (A/C, No, Ext): 800-873-8500	FAX (A/C, No):	E-MAIL ADDRESS:		INSURER(S) AFFORDING COVERAGE		INSURER A: Charter Oak Fire Insurance Company	NAIC # 25615	INSURER B: Travelers Property Cas. Co. of Amer	25674	INSURER C: Travelers Indemnity Company	25658	INSURER D: Pinnacol Assurance Company	41190	INSURER E: XL Specialty Insurance Company	37885	INSURER F:	
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INSURED JVA, Inc. 1319 Spruce Street Boulder CO 80302	<p style="text-align: center;">JVAINC</p>																				

COVERAGES **CERTIFICATE NUMBER: 1387574655** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	Y	Y	6809H706548	5/1/2017	5/1/2018	EACH OCCURRENCE \$2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$2,000,000 GENERAL AGGREGATE \$4,000,000 PRODUCTS - COMPIOP AGG \$ \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	Y	Y	BA1696L578	5/1/2017	5/1/2018	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	Y	Y	CUP5G343469	5/1/2017	5/1/2018	EACH OCCURRENCE \$8,000,000 AGGREGATE \$8,000,000 \$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	4131403	5/1/2017	5/1/2018	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
E	Professional Liability Claims Made			DPR9913737	5/1/2017	5/1/2018	Per Claim \$2,000,000 Annual Aggregate \$3,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

As required by written contract or written agreement, the following provisions apply subject to the policy terms, conditions, limitations and exclusions: The Certificate Holder and owner are included as Automatic Additional Insured's for ongoing and completed operations under General Liability; Designated Insured under Automobile Liability; and Additional Insureds under Umbrella / Excess Liability but only with respect to liability arising out of the Named Insured work performed on behalf of the certificate holder and owner. The General Liability, Automobile Liability, Umbrella/Excess insurance applies on a primary and non contributory basis. A Blanket Waiver of Subrogation applies for General See Attached...

CERTIFICATE HOLDER SAMPLE FOR PROPOSALS ONLY	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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ADDITIONAL REMARKS SCHEDULE

AGENCY USI Colorado, LLC Prof Liab		NAMED INSURED JVA, Inc. 1319 Spruce Street Boulder CO 80302	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

ADDITIONAL REMARKS

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
 FORM NUMBER: 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE**

Liability, Automobile Liability, Umbrella/Excess Liability and Workers Compensation. The Umbrella / Excess Liability policy provides excess coverage over the General Liability, Automobile Liability and Employers Liability.

Please note that Additional Insured status does not apply to Professional Liability or Workers' Compensation.