

Project: Dalton Ditch Water Conservation Project
Proposed by: Circleville Irrigation Company, PO Box 304, Circleville, Utah 84723
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Technical Proposal

1. Executive Summary

Circleville Irrigation Company is in Circleville, Utah in Piute County. Circleville Irrigation Company (Circleville) is a nonprofit group made of landowners who own irrigate approximately 7,000 acres of land and who divert water from the Sevier River; they area Category B applicant. Currently, Dalton Ditch, an earthen irrigation supply canal, diverts up to 20 cubic feet/second (cfs) for irrigation from the Sevier River, which runs dry before its mouth. The Dalton Ditch provides irrigation water for approximately 1000 acres through an irrigation water right. The 1000 acres is comprised of ranches (pasture, grass hay) and hay farms (alfalfa).

Circleville Irrigation Company is proposing to install approximately 2,360 feet of 30-inch ADS pipe in Dalton Ditch to conserve and covey water. The project cost is \$197,255. The funding requested is \$75,000 with the remaining \$122,225 being provided by the Circleville Irrigation Company.

2. Project Location

The Dalton Ditch Water Conservation Project is located on the eastern edge of the town of Circleville (Piute County), Utah. The proposed project is to pipe a 2360-foot length of Dalton Ditch which diverts water from the Sevier River (HUC 1603000106). The latitude and longitude for the project location are: 38°10'06.64" N, 112°16'05.55" W.

3. Project Description

The proposed project is to pipe a 2360-foot length of Dalton Ditch, an earthen ditch. The proposal is to use 30-inch Advanced Drainage Systems (ADS) pipe laid in the existing ditch banks. The ADS pipe is made with a white, high density polyethylene layer around a black polyethylene core to form a lightweight pipe with excellent beam stiffness.

The ditch will need to be cleaned out and deepened in places prior to laying the pipe in the ditch. Additionally, in some areas the ditch will need to be straightened to accommodate the pipe. An excavator, front-end loader and dump trucks will be used to clean out, deepen and straighten the ditch. The ditch may also need to be partial elevated or lowered to accommodate flow based on current elevations and engineering design. After the pipe is placed in the ditch, it will be covered with the excavated materials except at diversions. There are four small diversions on this segment of ditch. At each diversion, a concrete headwall will be constructed, and a 10-foot section of pipe will be left exposed or uncovered.

The project is estimated to take approximately 8 weeks to complete and is estimated to be complete by March 2022.

4. Evaluation Criteria

Evaluation Criterion A-Project Benefits (35 points)

- *Describe the expected benefits and outcomes of implementing the proposed project.*
 - *What are the benefits to the applicant's water supply delivery system?*

The Sevier River has many diversions and runs dry prior to its mouth. By piping the canal, there will be no loss of water through seepage and evaporation. As a result, this diversion can be closely managed to match demand, conserving additional water for other irrigators and returning water back to the Sevier River just before the Kingston Diversion.

- *If other benefits are expected, explain those as well. Consider the following:*
 - *Extent to which the proposed project improves overall water supply and reliability.*

The project is needed to conserve water in the over-allocated Sevier River, particularly downstream in intermittent Lake Sevier. By conserving water, it allows more water to stay in the Sevier River to service other irrigation diversions. This provides more reliable water for all irrigators in the Sevier River Watershed.

The project is located in the upper Sevier River watershed. This allows for the conserved water to remain instream for a longer distance providing more benefits to habitat, producers, and other users. If, instead, the instream water was provided near the mouth of the Sevier River, it would only be in channel for a short reach providing less benefits than the proposed project.

- *The expected geographic scope of benefits from the proposed project (e.g. local, subbasin, basin).*

As the project conserves water and reduces diversions from the Sevier River, the Sevier River watershed benefits from the presence of additional water instream. The environmental will benefit through increased in-stream flow which will provide for improved aquatic and fish habitat, as well as enhanced riparian areas for habitat use by waterfowl and songbirds. Additionally, Lake Sevier, located at the mouth of the Sevier River downstream of the project, will benefit from a decrease in streamflow diversion from the Sevier River. The shallow lake is intermittent, primarily dry due to irrigation diversions.

- *Extent to which the proposed project will increase collaboration and information sharing among water managers in the region.*

Working together, irrigators can conserve more water and use the limited water resource more efficiently. Information can be shared with other water managers about the success of limiting diversions through use of water meters.

- *Any anticipated positive impacts/benefits to local sectors and economies (e.g. agricultural, environment, recreation, and tourism).*

Leaving more water instream, benefits other agricultural users, the environment including aquatic and riparian habitats, recreation along the river corridor, and opportunities for tourism associated with the Sevier River.

- *Extent of which project will complement work done in coordination with NRCS in that area (e.g. with direct connection to the district's water supply). Describe any on-farm efficiency work that is currently being completed or is anticipated to be completed in the future using NRCS assistance through EQIP or other programs.*

Of the 7000 acres within the Circleville Irrigation Company, over 2000 acres have been converted to sprinkler irrigation from wildland flood systems. Most of these conversions have occurred in partnership with NRCS through the EQIP funds. The irrigation company is working with landowners to consider conversion to sprinkler irrigation in the next 3 years.

Evaluation Criterion B-Planning Efforts Supporting the Project (35 points)

- *Describe how your project is supported by an existing planning effort.*
 - *Does the proposed project implement a goal or address a need or a problem identified in the existing planning effort.*

Circleville Irrigation Company has been striving to make their Irrigation Company more efficient and conserve water within the distribution area for the past 20 years. To this end the Irrigation Company has identified a number of actions which will conserve water and improve irrigation efficiency (see attached conservation plan for the Irrigation Company). These actions include converting wildland flood to sprinkler irrigation, and piping the entire length of the Dalton Ditch, Willey Ditch and the Kingston Canal. Through the implementation of all of these projects, the Irrigation Company estimates the conservation of 75% of its current diversion.

- *Explained how the proposed project has been determined as a priority in the existing planning efforts, as opposed to other potential project/measures.*

The proposed project is one of the many projects identified by Circleville Irrigation Company to conserve water and improve irrigation efficiency. The Irrigation Company identified these three projects as providing the most conservation for the cost investment. Also, these three projects are expected to be reasonable maintenance for long-term operation of the irrigation system.

Evaluation Criterion C-Project Implementation (10 points)

- *Describe the implementation plan for the proposed project. Please include an estimated project schedule that shows stages and the duration of the proposed work including major tasks, milestones and dates.*

The proposed project will be implemented in three phases. The first phase will begin on April 1, 2021 and include environmental compliance and cultural resource survey. The second phase will begin on February 1, 2022 when the canal is dry and construction of the four headwalls will occur. The third phase will begin at the end of the headwall construction (approximately February 28, 2022), and will consist of installing and covering of pipe.

Project Milestones are listed in the following table with completion dates.

Milestone	Start Date	Completion Date
Environmental Compliance (CE documentation)	April 2021	August 2021
Cultural Resource Survey	May 2021	July 2021
Concrete headwall installation	February 2022	March 2022
Pipe Installation	March 2022	March 31, 2022
On-going monitoring and maintenance (as needed)	March 2022	March 2032

- *Describe any permits that shall be required, along with the process for obtaining such permits.*

The proposed project is not anticipated to require any permits. A Clean Water Act Section 404 (removal-fill) permit from the Army Corps of Engineers and Section 401 (clean water) certification are not anticipated at this time.

- *Identify and describe any engineering or design work performed specifically in support of the proposed project.*

Design work has been completed by the Circleville Irrigation Company. Elevational engineering surveys are still needed but will be conducted should the grant be awarded.

- *Describe any new policies or administrative actions that are required to implement the project.*

No new policies or administrative actions are required to implement the proposed project.

- *Describe how the environmental compliance estimate was developed. Have the compliance costs been discussed with the local Reclamation office.*

Rabe Consulting was consulted regarding the extent of the environmental compliance needed. Rabe Consulting has more than 20 years of experience working with the Bureau of Reclamation on water conservation projects and cost recovery agreements. Rabe Consulting provided cost estimates for the CE documentation and cultural resource survey and report.

Evaluation Criterion D-Nexus to Reclamation (10 points)

- *Is the proposed project connected to a Reclamation project or activity?*
The proposed project is not connected to a Reclamation project or activity.
- *Will the project benefit any tribe(s)?*
The proposed project will not benefit any tribes.

Project Budget

The total project costs are \$197,255 with \$75,000 of this being requested through the WaterSMART Grants: Small-Scale Water Efficiency Project grant program. The remaining \$122,255 will be provided by the Circleville Irrigation Company (see attached letter).

None of the project expenses were incurred prior to July 1, 2020. Project costs for environmental compliance (CE documentation) cultural resource survey may be incurred prior to project award, but after April 1, 2021. This budget line item is \$15,000.

The Circleville Irrigation Company plans to provide the additional funds to implement this project. The Irrigation Company will provide in kind labor and the difference in the cost of materials to install the pipe and concrete headwalls. The requested funding will purchase supplies (ADS pipe). The Circleville Irrigation Company has already committed this cost share amount.

The Irrigation Company has committed to providing in-kind labor to install the ADS pipe and concrete headwalls. In-kind labor will include heavy equipment, heavy equipment operation, manual labor, and surveying. Additionally, the Irrigation Company will provide for the administrative costs associated with the project (\$5500, which is 2.9% of the total project costs).

Table 1

Source	Amount
Costs to be reimbursed with the requested Federal funding	\$ 75,000
Costs to be paid by the applicant	\$ 122,255
Value of third-party contributions	\$ 0
TOTAL PROJECT COSTS	\$197,255

Table 2

BUDGET ITEM DESCRIPTION	COMPUTATION		QUANTITY TYPE	TOTAL COST
	\$/Unit	Quantity		
Salaries and Wages				
Heavy Equip Operator	\$65.00	270	hour	\$17,505
Manual Labor	\$45.00	200	hours	\$9,000
Survey/Design	\$95.00	70	hours	\$6,650
Fringe Benefits				
N/A				\$0
Travel				
N/A				\$0
Equipment				
Excavator	\$75.00	230	hour	\$17,250
Dump Truck	\$65.00	40	hour	\$ 2,600
Frontend Loader	\$72.00	25	hour	\$ 1,800
Mobilization Fee	\$210.00	3	Per equipment	\$ 630
Supplies and Equipment				
30" ADS Pipe	\$37/ft	2360 feet	Pipe	\$87,320
Concrete/Rebar	\$30,000	1	Concrete and Rebar	\$30,000
Forms and incidental fittings	\$4,000	1	Forms and incidental fittings	\$ 4,000
Contractual/Construction				
Rabe Consulting—Environmental Compliance	\$5,000	1	CE Documentation	\$ 5,000
Rabe Consulting—Cultural Survey	\$10,000	1	Cultural Field Survey and Report	\$ 10,000
Other				
N/A				\$0
TOTAL DIRECT COSTS				\$191,755
Indirect Costs				
Administrative Costs	2.9%	\$191,755		\$ 5,500
TOTAL ESTIMATED PROJECT COSTS				\$197,255

Budget Narrative

Salaries and Wages

In-kind wages were calculated for heavy equipment operators and manual laborers. The in-kind rates are average wage rates for the Circleville, Utah area.

Fringe Benefits

The Fringe Benefits line item is not applicable as the salaries are based on in-kind hourly rates and do not have associated fringe benefits.

Travel

The Travel line item is not applicable to this project, as this project does not require any travel.

Equipment

Heavy equipment for the project will include excavators, front end loaders and dump trucks.

Materials and Supplies

The materials and supplies for the project include concrete, rebar, metal grating, and ADS pipe. Additional incidental supplies, such as wood forms and trowels, will also be purchased. The 30-inch ADS pipe costs \$37/foot for a distance of 2360 feet for a total of \$87,320. The concrete and rebar are sufficient to construct 4 headwalls (approximately 12 ft by 4 ft by 1 ft).

Contractual

There are no Contractual costs aside from the Environmental and Regulatory Compliance Costs.

Third-Party In-Kind Contributions

This project does not include third-party in-kind contributions.

Environmental and Regulatory Compliance Costs

Rabe Consulting will provide compliance with the National Environmental Protection Act (NEPA) through documentation for the Categorical Exclusion (CE) and compliance with the National Historic Preservation Act (NHPA) through a cultural resource survey, documentation of the potentially historic canal and a cultural resource survey report for \$15,000. A Clean Water Act Section 404 (removal-fill) permit from the Army Corps of Engineers and Section 401 (clean water) certification are not anticipated at this time.

Other Expenses

Aside from the Bureau of Reclamation environmental compliance review, there are no budget line items in the Other Expenses category.

Indirect Costs

Circleville Irrigation Company will provide for administrative costs, including but not limited to project management, expense tracking, and project reporting. The Irrigation Company expects the value of the indirect costs to be 2.9% of the direct costs (2.9% of \$191,755), which totals \$5,500.

Environmental and Cultural Resources Compliance

Rabe Consulting will provide compliance with the National Environmental Protection Act (NEPA) through documentation for the Categorical Exclusion (CE) and compliance with the National Historic Preservation Act (NHPA) through a cultural resource survey, documentation of the potentially historic canal and a cultural resource survey report. Additionally, Rabe Consulting will provide compliance with Section 7 of the Endangered Species Act (ESA) and determine presence of a threatened or endangered species and potential effects of the proposed project or designated critical habitat.

Required Permits and Approvals

A Clean Water Act Section 404 (removal-fill) permit from the Army Corps of Engineers and Section 401 (clean water) certification are not anticipated at this time. No additional permits are anticipated.

Official Resolution

Please find the attached Official Resolution from the Circleville Irrigation Company.

Unique Entity Identifier and System for Award Management

Circleville Irrigation District's unique entity identifier (or DUNS number) is 117910782. The System for Award Management (SAM) cage code is 8VVK3, which expires on 03/02/2022.

Circleville Irrigation District
P.O. Box 304
Circleville, UT 84723

March 3, 2021

Bureau of Reclamation
WaterSMART Grant

To Whom it May Concern,

The board of directors for the Circleville irrigation District has reviewed and supports the application for the WaterSMART Grants: Small-Scale Water Efficiency Projects - Funding Opportunity R21AS00300. The board designates McKay Morgan as Project Manager. McKay has the proper authority to sign on behalf of the company. Circleville Irrigation District has the ability to provide funds for equipment and operation, plus in-kind labor and other fees totaling in the amount of \$122,255. The board will work with Bureau of Reclamation to meet grant deadlines. We appreciate the opportunity to apply for this grant and work on projects to conserve water in the Sevier River Watershed.

Sincerely,



Deven Gass
President of Circleville Irrigation District Board

ASSURANCES - CONSTRUCTION PROGRAMS

OMB Number: 4040-0009
 Expiration Date: 02/28/2022

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.


PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progressive reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards of merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to non-discrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681 1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333) regarding labor standards for federally-assisted construction subagreements.
14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
20. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 	TITLE Project Manager
APPLICANT ORGANIZATION Circleville Irrigation District	DATE SUBMITTED 3-3-2021