MINIDOKA IRRIGATION DISTRICT
98 WEST 50 SOUTH RUPERT, IDAHO 83350
(208) 436-3188
"M.I.D. IS AN EQUAL OPPORTUNITY PROVIDER AND EMPLOYER"

WaterSMART Small-Scale Water Efficiency Projects
Funding Opportunity Number R24AS00059

Minidoka Irrigation District's
Lateral 24 Pipeline Project

Lateral 24 is a part of Minidoka Irrigation District's oldest infrastructure. This portion of the lateral is in a geographic area with an incredibly high sand content in the soil cross-section. Due to the nature of the surrounding soil types, there are significant amounts of sand blowing into the lateral, as well as significant water loss in the area due to rodent infestations.
Installing 2,280 feet of 24" 80 PSI pipe will reduce the loss of water, not only saving the District a significant amount of water that will remain in storage, it will allow the District to better serve their water users.

The project manager for this project will be
Shawna Adams
208-260-1097
projectmanager@minidokairrigationdistrict.org

Table of Contents

Technical Proposal

Executive Summary

Date: January 10, 2025
Applicant Name: Minidoka Irrigation District
City: Rupert
County: Minidoka
State: Idaho

Applicant Category: Minidoka Irrigation District is a Category A Applicant.

A short paragraph project summary that provides the location of the project, a brief description of the work that will be carried out, any partners involved, expected benefits, how those benefits relate to the water management issues you plan to address, and what planning document and objective the project supports. This information will be used to create a summary of your project for Reclamation's website if the project is selected for funding.

Minidoka Irrigation District (MID) will be piping just over 2,280 feet of the middle section of Lateral 24 with 24" HDPE pipe. This project will conserve water and other resources by reducing seepage and eliminating breeches due to rodent damage. The project directly benefits not only the District but local producers and the Highway District. The damage caused by rodents has risen dramatically over the past three water seasons, leading to an increase in allocated resources to address the damage. Piping the lateral will allow for those resources to be allocated to a more beneficial use as well as increase delivery reliability for local water users.

Estimated length of time and estimated completion date

This project is expected to take approximately 8 weeks to complete with an anticipated completion timeframe of Fall 2026. The project would be started once the system is dewatered following the 2026 irrigation season in mid-October.

Project Location

Provide detailed information on the proposed project location or project area including a map showing the geographic location.

This project is located in Minidoka County in South Central Idaho. The nearest town is Acequia, Idaho. The project site is approximately 1.85 miles north west of the Minidoka Dam and 4.09 miles east of the town of Acequia. The northernmost end of the project site is located at 113.516° W 42.680° N.

The image on the following page shows the location of the site in relation to the District as a whole.

Technical Project Description

Provide a comprehensive description of the technical aspects of your project, including the scope of work to be accomplished and the approach for the on-the-ground project.

To complete this project, MID will be using a 2.5 CY track excavator, a 1.5 CY backhoe, and 12 CY dump trucks, all currently owned by the District. Depending on what material is found below the surface, the use of a rock hammer may also be required. This would be rented for the duration of the project.

The existing channel will be excavated to a level that allows the pipe to be installed on the correct grade to produce appropriate flows. This will include removal of sand and silt that has built up in the channel. Once the correct grade has been established bedding material will be brought onsite to allow for efficient bedding of the pipeline.

At that time, 2,280 feet of twenty-four-inch (24”), eighty (80) pounds per square inch (PSI) high-density polyvinyl chloride pipe will be installed. There will be a section of 100 PSI pipe where the lateral crosses underneath the existing paved road.

The top end of this section of the lateral will be dug down slightly, matching it with the existing pipeline. The downstream end of the lateral will be consistent with the bottom of the existing ditch. The dirt that is on-site will not be used to bed or backfill around the pipe, as previously mentioned. When the project progresses to the point of reaching the asphalt road, the pipe will change from 80 to 100 PSI to ensure it is strong enough to withstand traffic over the top of it.

Evaluation Criteria

Evaluation Criterion A. Project Benefits (35 points)

Up to 35 points may be awarded based upon evaluation of the benefits that are expected to result from implementing the proposed project.

Benefits to the Category A Applicant's Water Delivery System: Describe the expected benefits to the Category A applicant's water delivery system. Address the following:

Will the project result in more efficient management of the water supply?

This project will allow for more efficient water supply management due to being able to regulate areas with rodent infestations and channel damage. By piping this section of pipe, MID will be able to prevent loss of water and loss of delivery time due to breeches in the area.

Where any conserved water as a result of the project will go and how it will be used?

Water conserved as a result of this project will be kept in MID's storage reservoirs to ensure delivery in times of drought.

Explain the significance of the anticipated water management benefits for the Category A applicant's water delivery system and customers. Consider:

Are customers not currently getting their full water right at certain times of year?

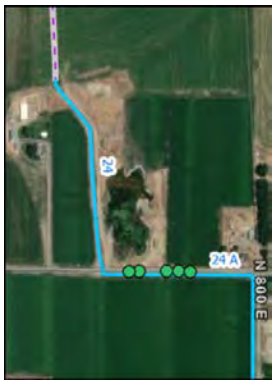
Breeches caused by silting in of the lateral and rodent infestations lead to there being times that MID's water users are not able to access their water during the irrigation season. This is due to repairs needing to be made as the damage occurs.

Does this project have the potential to prevent lawsuits or water calls?

Yes

What are the consequences of not making the improvement?

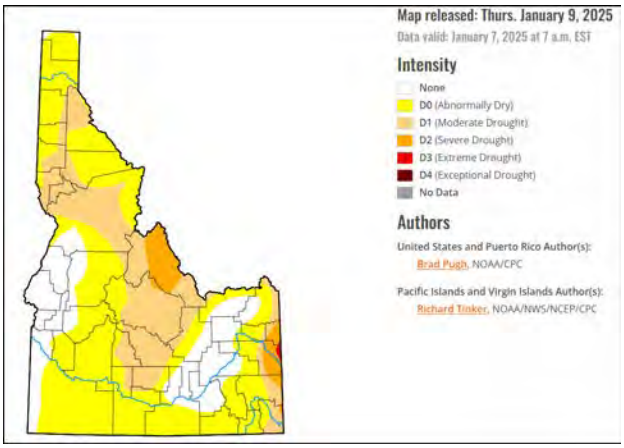
Should MID continue to operate without resolving this issue, the damage will continue to worsen. There have been at least 10 incidents over the course of the last three irrigation seasons requiring immediate response to repair the waterway in this specific area. When the lateral breeches or leaks due to damages, there is the potential for the water to cover the asphalt road in the area, potentially causing vehicle accidents due to water on the roadway. There have also been issues with damages to crops in the field directly south of the lateral.



Date work completed	Operators Name	Other - Type of work completed:	Rate condition of wateraway upon completion of work.	Rate condition of waterway before work started.	Structure Name	Type of work completed:
5/2/2022	Wayne Sherbeck	Fixed rat hole	5	4	24	Pest Damage
6/1/2022	Wayne Sherbeck	Fixed rat hole	5	4	24	Pest Damage
7/25/2022	Wayne Sherbeck	Fixed rat hole	5	3	24	Other
9/30/2022	Wayne Sherbeck	Fixed rat hole that blew out	5	3	24	Other
7/3/2023	Wayne Sherbeck	<Null>	5	3	24	Pest Damage
7/19/2023	Wayne Sherbeck	<Null>	5	3	24	Pest Damage
9/11/2023	Wayne Sherbeck	<Null>	5	2	24	Pest Damage
9/22/2023	Wayne Sherbeck	Rebuilt bank from blowout	5	2	24	Other
7/15/2024	Cassie Dockstader	Rat hole	5	3	24	Other
7/22/2024	Wayne Sherbeck	<Null>	5	3	24	Pest Damage

Is the project in an area that is experiencing, or recently experienced, drought or water scarcity? Will the project help address drought conditions at the sub-basin or basin scale? Please explain.

The project is in an area that is labeled as "Abnormally Dry" by the U.S. Drought Monitor (| U.S. Drought Monitor). The areas that MID has water storage are labeled as Moderate, Severe, and Extreme Drought. This project is small enough in nature that over the course of one year the conserved water will not amount to significant change. However, over time and allowing for resources to be used in a more effective nature, the project will help to address drought concerns.



Will the project complement work being done in coordination with NRCS in the area (e.g., the area with a direct connection to the district's water supply)? Please explain.

That is unknown to the District at this time. MID is currently working closely with the local NRCS office to complete on-farm improvements with other local producers, therefore it stands to reason that should the opportunities arise, the Districts will work closely with NRCS to assist additional producers in the affected areas.

Evaluation Criterion B. Planning Efforts Supporting the Project (25 points)

Up to 25 points may be awarded based on the extent to which the proposed on-the-ground project is supported by an applicant's existing water management plan, water conservation plan, System Optimization Review, or identified as part of another planning effort led by the Category A applicant.

Minidoka Irrigation District currently has an existing plan in place to reduce our water use by heightened water conservation through improved or enhanced infrastructure. A component of this plan is to reduce the loss of water through leakage and operational spill. Installing this pipeline, as previously mentioned, allows all water pulled from the canal, and ultimately the storage system, to go exactly where it is intended with very little to no unwanted diversion.
This plan has been developed over time by the Board of Directors and is reevaluated and refined regularly by the General Manager.

Is the project identified specifically by name and location in the planning effort?

No

Is this type of project identified in the planning effort?

Yes. MID's Water Conservation plan calls for continuous improvements as funding and new technologies allow. This type of project effectively combines all aspects of the plan to conserve water being lost by the three most common methods- seepage, rodent damage, and spill.

Explain whether the proposed project implement a goal, objective, or address a need or problem identified in the existing planning effort?

This project meets three requirements for projects to be completed under this plan. Water loss due to rodent damage, water loss due to seepage, and water loss due to operational requirements are expected to be minimized when possible under the Water Conservation section of the Water Conservation Plan.

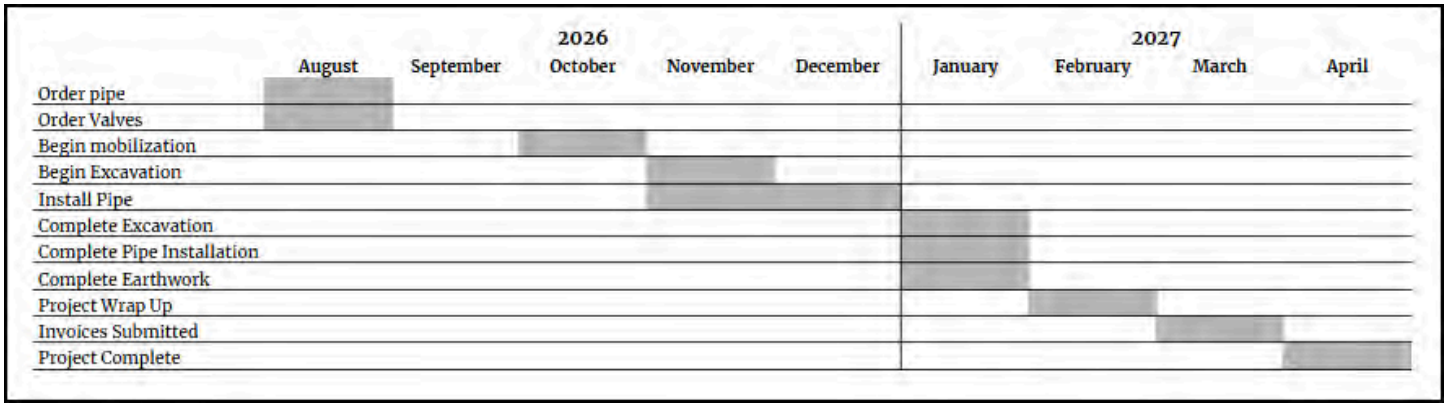
Explain how the proposed project has been determined as a priority in the existing planning effort as opposed to other potential projects/measures.

This project has specifically been selected to take place this year due to the increased amount of time and resources used to combat water loss on this specific section of the lateral. As previously mentioned, this is the tail end of a lateral that serves an area with a growing rodent population. These animals have led to more than 10 breech issues over the past three water seasons. This issue was best resolved on the top end of the lateral by piping the system. That is the plan for this portion as well.

Evaluation Criterion C. Implementation and Results (20 points)

Up to 20 points may be awarded based upon the extent to which the applicant is capable of proceeding with the proposed project upon entering into a financial assistance agreement. Applicants that describe a detailed plan (e.g., estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates) will receive the most points under this criterion.

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



As shown in the image above, this project will begin in August of 2026 with the ordering of supplies that will need lead time to arrive during the project window. Once the 2026 irrigation season is complete and the system is dewatered, mobilization and excavation will begin on the site. The installation of pipe will begin in November 2026 and continue through December. Excavation and installation are estimated to be completed by January 2027. Once these portions of the project are complete, the associated paperwork, reports, and invoices will be submitted as required in the project

contract. This project will be completed no later than April 15, 2027 to allow for the 2027 irrigation season to begin on time.

Proposals with a budget and budget narrative that provide a reasonable explanation of project costs will be prioritized under this criterion.

The detailed line item budget can be found in Appendix C, and the Budget Narrative is included in this proposal on page 11.

Describe any permits and agency approvals that will be required along with the process and timeframe for obtaining such permits or approvals.

There are currently no permits required to be filed for this project. The project lies in an established easement on previously disturbed ground. MID fully intends to comply with all applicable and required permits at the time of implementation.

Identify and describe any engineering or design work performed specifically in support of the proposed project. What level of engineering design is the project currently?

There has not currently been any design work completed specifically for this project. This project is very similar to numerous other pipelines the District has previously completed. The District has had a high level of success with previously completed pipeline projects.

Does the applicant have access to the land or water source where the project is located? Has the applicant obtained any easements that are required for the project? If the applicant does not yet have permission to access the project location, describe the process and timeframe for obtaining such permission.

MID currently has an established easement to operate and maintain the lateral as required by Idaho State code. There are no additional easements or permissions required to complete this project

Identify whether the applicant has contacted the local Reclamation office to discuss the potential environmental and cultural resource compliance requirements for the project and the associated costs.

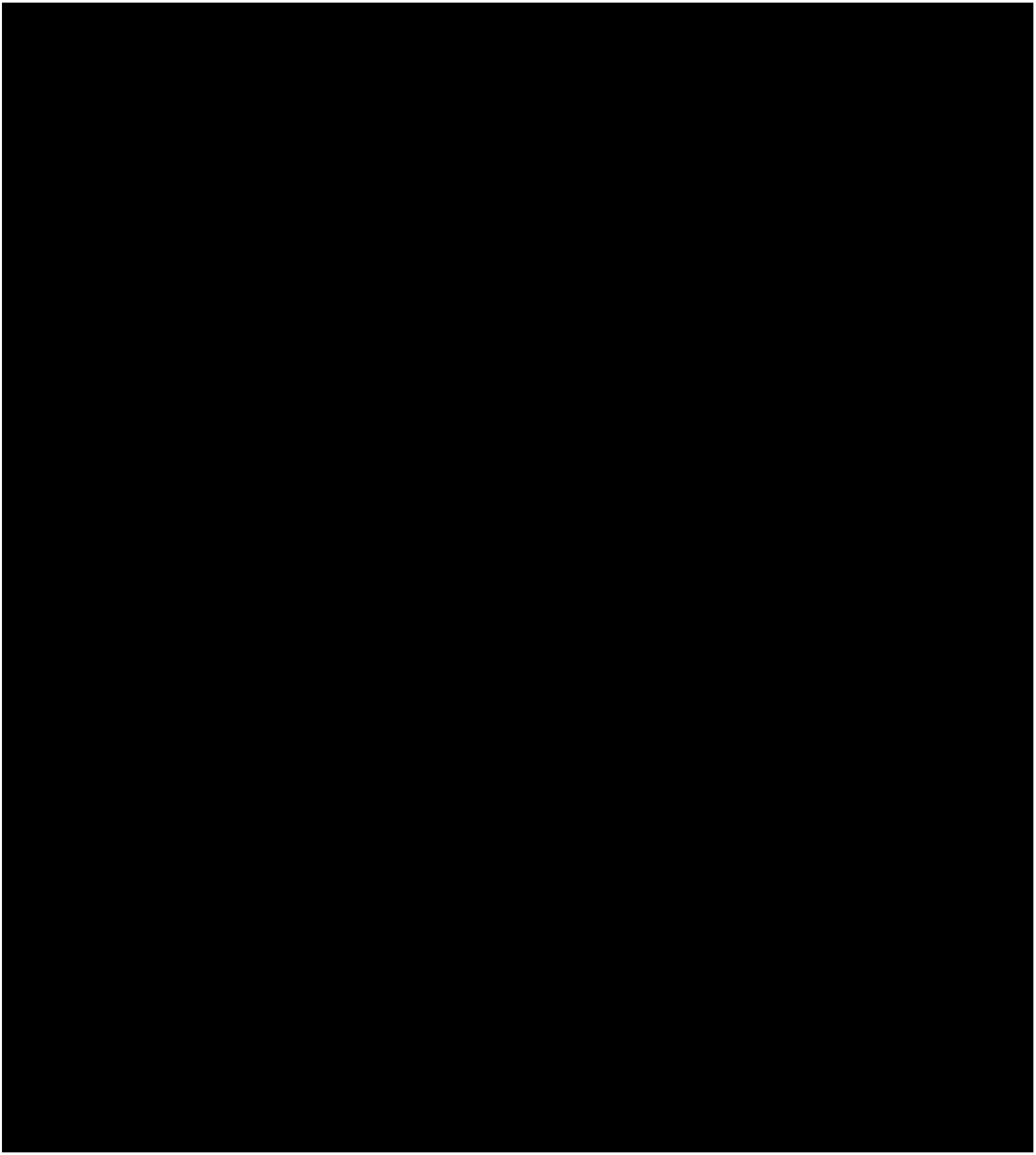
MID works closely with the local Reclamation office on all projects. This site has had an archeological survey completed in 2020. There are no further cultural compliance requirements for this site due to the nature of the site. It is previously disturbed ground and has been in production since the previous survey was completed.

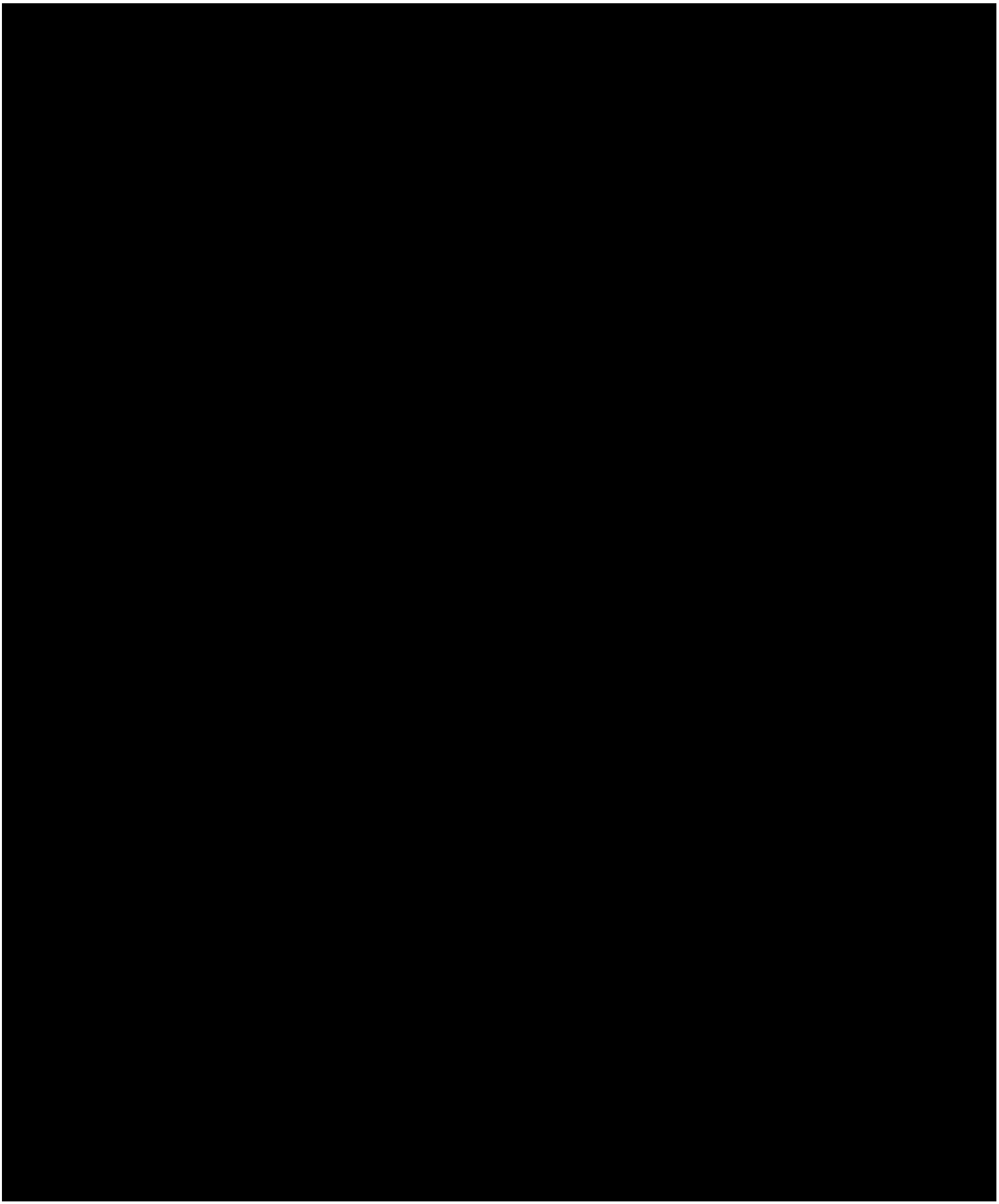
Evaluation Criterion D. Nexus to Reclamation (5 Points)

Up to 5 points may be awarded based on the extent that the proposal demonstrates a nexus between the proposed project and a Reclamation project or activity.

The project is located within the Minidoka Project, one of the oldest Bureau of Reclamation Projects in the United States. The Minidoka Project waters over one million acres of land on the Upper Snake River Plain in Idaho. While Minidoka Irrigation District has received Title Transfer, the District still

maintains storage in and receives water from Jackson Lake, Palisades, American Falls, and Lake Walcott.





Budget Narrative

In the budget detail and narrative section, applicants should describe and justify requested budget items and costs. Applicants should provide details to support the SF-424A, "Object Class" categories or the SF-424C, "Cost Classification" categories.

A line item budget has been included in Appendix C for the Evaluation Committee's consideration.

Salaries, Wages, Fringe Benefits - $54,397.65

These are the standard wages paid to employees of MID. These wages do not change based on the project the employees are working on, regardless of the funding source.

Equipment - $50,483.20

The majority of the equipment detailed in this section is MID owned equipment. The hourly rates have been sourced from the Army Corps of Engineers Hourly Equipment Ownership and Operating Expense (Region 8 specific) unless otherwise noted. There are pieces of equipment that will have to be rented for the project, and those items have been listed in this section.

Supplies and Materials - $145,078.77

This section includes all physical, tangible items that will need to be ordered and purchased for each component of the projects. The majority of the cost of supplies is due to the cost of the pipe. MID only installs high quality pipe to ensure the longevity of the project.

The total estimated cost of this undertaking is $249,959.62

MID is requesting $124,979.81 in federal funding. This is equal to 50% of the total project cost. MID has funding available to fund the remaining 50% cost share through assessments levied and Capital Improvement funds allocated to District improvements. There are no pre-award costs anticipated for this project.

Environmental and Cultural Resources Compliance

Please answer the questions from Section H.1 Environmental and Cultural Resource Considerations.

Will the proposed project impact the surrounding environment? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.

The biggest impact to the environment surrounding the project site will be the excavation taking place to lay the pipe for the lateral. Overall, the project is deemed beneficial to the sites and an overall improvement.

Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?

No, to the best knowledge of MID, there are no threatened or endangered species or designated critical habitat inside the perimeter of the intended project sites.

Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "Waters of the United States"? If so, please describe and estimate any impacts the proposed project may have.

There are no areas considered "navigable waters" within the boundaries of the project sites.

When was the water delivery system constructed?

The canals, laterals, and structures in the District were constructed prior to 1916

Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.

This project will include tying into existing headgates and an established pipeline. The headgate and structures have been replaced as needed to ensure they are sound.

Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places?

No. Through the process of Title Transfer the District completed all requirements necessary to ensure that any items that needed to be classified as historical were classified as such. None of the structures included on this project are eligible for listing with the National (or State) register of Historic Places.

Are there any known archeological sites in the proposed project area?

No. MID has received title transfers from the Bureau of Reclamation. As a component of the process, archeological surveys were completed for the sites included.

Will the proposed project have a disproportionate and adverse effect on any communities with environmental justice concerns?

No, the proposed project will not have any adverse effects on the local communities. In fact, this project will benefit all in the local community.

Will the proposed project limit access to, and ceremonial use of, Indian sacred sites or result in other impacts on Tribal lands?

No, the project will not have any impacts on, or on the use of, Tribal Lands.

Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

No, the project will actually reduce the potential spread of invasive/non-native weeds, seeds, and grasses. It will also allow for the increased response in the event of an unintentional introduction of invasive species.

Required Permits or Approvals

You should state in the application whether any permits or approvals are necessary and explain the plan for obtaining such permits or approvals.

There are currently no permits required to be filed for this project. The project lies in an established easement on previously disturbed ground.

Overlap or Duplication of Effort Statement

There is no anticipated overlap or duplication of effort between the proposed project and any other active or anticipated projects or proposals. The projects included in this proposal do not in any way duplicate any proposal that has been submitted for federal or non-federal funding.

Conflict of Interest Disclosure

Per 2 CFR §1402.112, "Financial Assistance Interior Regulation" there is not any known actual or potential conflict of interest existing at the time of submission of this proposal.

Uniform Audit Reporting Statement

All U.S. states, local governments, federally recognized Indian Tribal governments, and non-profit organizations expending $750,000 USD or more in Federal award funds in the applicant's fiscal year must submit a Single Audit report for that year through the Federal Audit Clearinghouse's Internet Data Entry System

Minidoka Irrigation District does not anticipate expending more than $750,000.00 in federal award funds during this fiscal year, so this section does not apply to this proposal or application.

Certification Regarding Lobbying

Applicants requesting more than $100,000 in Federal funding must certify to the statements in 43 CFR §18, Appendix A.

Appendix D includes a formal statement regarding lobbying funds. Minidoka Irrigation District does not intend to use any funds from this award for the purpose of lobbying to influence an officer or employee of any agency or congressional member or staff regarding federal awards.

Appendix A: Official Resolution

Due to the schedule of MID's Board Meetings, this is a draft resolution. The signed resolution will be submitted by email on or around January 22, 2025.

RESOLUTION OF THE BOARD OF DIRECTORS
OF THE MINIDOKA IRRIGATION DISTRICT
BUREAU OF RECLAMATION WATERSMART GRANT

Whereas, the Board of Directors of the Minidoka Irrigation District (MID) desires to apply for a Bureau of Reclamation WaterSMART Grant, also known as a financial assistance award, for the purpose of converting an open channel to a pipeline on waterways operated and maintained by MID, and

Whereas, the estimated cost of the project is $249,959.62 and the Board of Directors desires to apply for a financial assistance award in the amount of $124,979.81 and

Whereas, the Bureau of Reclamation requires the Board of Directors of MID to adopt a resolution containing certain information in order to apply for and obtain a financial assistance award,

Now, therefore, upon motion made, seconded, and carried, **it is resolved** by the Board of Directors of MID:

- The Chair of the Board of Directors of MID, Ronald Kowitz, is authorized to enter into and sign agreements and other documents on behalf of MID committing MID to financial and legal obligations associated with the receipt of a financial assistance award.
- The Board of Directors of MID has reviewed and supports the application for a financial assistance award submitted by MID.
- MID has funds on deposit and employees and equipment that can provide the amount of funding/or in-kind contributions as specified in the funding plan.
- MID will work with the Bureau of Reclamation to meet established deadlines for entering into a grant, financial assistance award, or cooperative agreement.

Dated January 21, 2025

Minidoka Irrigation District

By _____
Ronald Kowitz, Chair of the Board of Directors

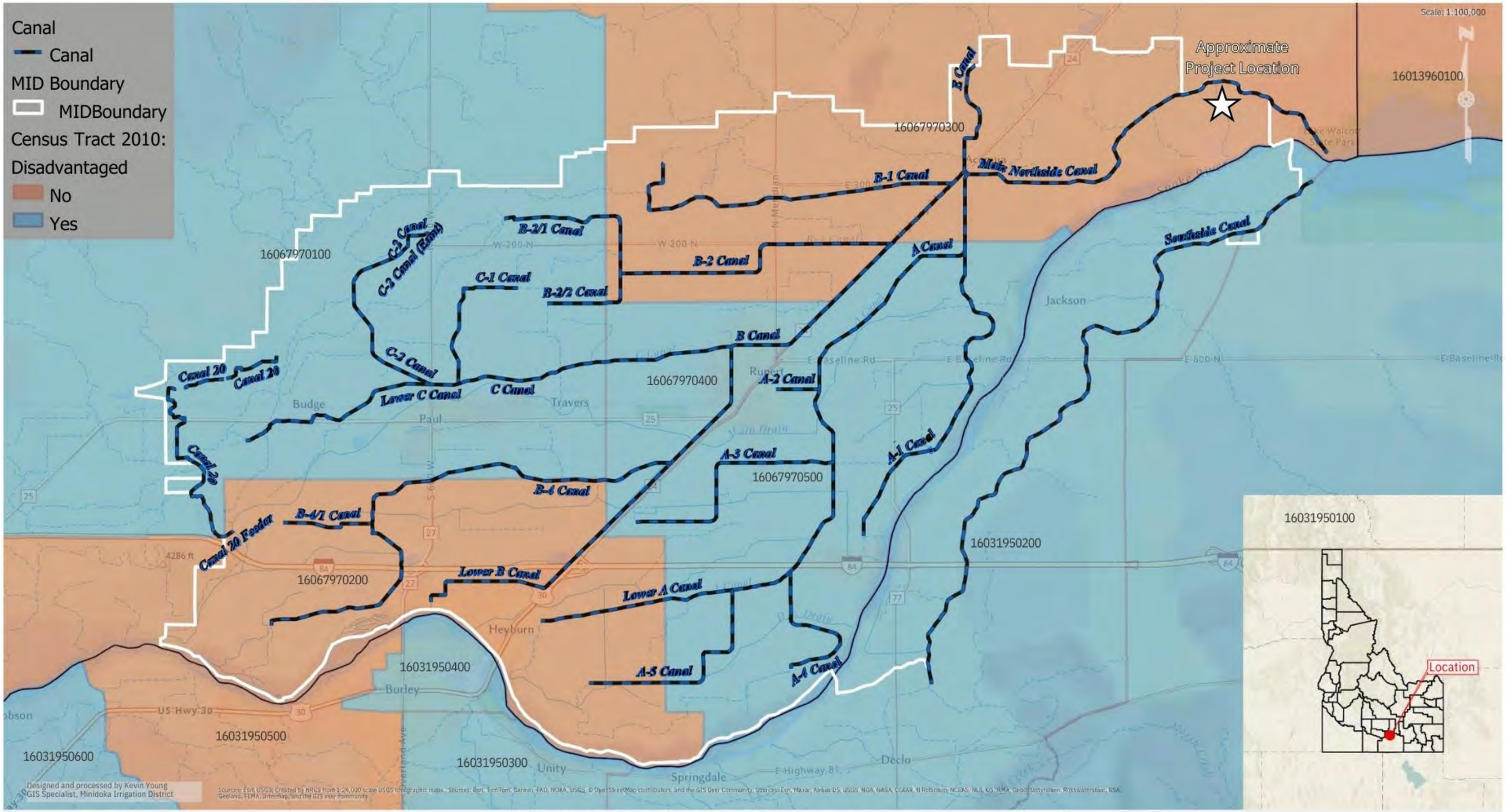
Attest: _____
Ruth S. Bailes, Secretary of the Board of Directors

Appendix B: Maps (Project Site and Census Data)

Minidoka Irrigation District

Center: 113°30'54"W 42°40'38"N

Date: 1/9/2025



Minidoka Irrigation District

Date: 1/9/2025

Coordinate System: NAD 1983 Idaho TM Center: 113°40'32"W 42°36'30"N

Appendix C: Detailed Budget

Budget/Item Description	Qty	Unit/Price	Total
Salaries and Wages, includes benefits			
Manager	10	$ 103.41	$ 1,034.10
Watermaster	20	$ 78.69	$ 1,573.80
Foreman	20	$ 72.81	$ 1,456.20
Supervisor	40	$ 65.75	$ 2,630.00
Project Manager	20	$ 59.64	$ 1,192.80
Administrative Assistant	10	$ 24.70	$ 247.00
Laborer - crew	960	$ 47.28	$ 45,388.80
Mechanic	15	$ 58.33	$ 874.95
Total			$ 54,397.65
Equipment			
Shop Truck	80	$ 27.07	$ 2,165.60
Excavator	240	$ 150.00	$ 36,000.00
Transport Fee	4	$ 100.00	$ 400.00
Portable Welder	80	$ 13.75	$ 1,100.00
Jumping Jack	240	$ 12.00	$ 2,880.00
John Deere Backhoe #62	240	$ 30.36	$ 7,286.40
Grader John Deere #64	10	$ 65.12	$ 651.20
Hyster Transport Trailer #53	4	$ 31.00	$ 124.00
Ten Wheelers Truck per hour #37	240	$ 56.50	$ 13,560.00
Ten Wheelers Truck per hour #35	240	$ 56.50	$ 13,560.00
Single Axel Truck per Hour #36	40	$ 42.25	$ 1,690.00
Porta Potty	2	$ 200.00	$ 400.00
Total			$ 50,483.20
Supplies and Materials			
Concrete			
Concrete 6 bag delivered	4	$ 165.00	$ 660.00
Hot Water.	4	$ 6.00	$ 24.00
Non-Calcium Chloride	4	$ 7.50	$ 30.00
Commercial Fiber	4	$ 9.00	$ 36.00
Environmental Surcharge Per Load	2	$ 25.00	$ 50.00
Loads Dirt	20	$ 75.00	$ 1,500.00
Loads of Rock	5	$ 75.00	$ 375.00
CMP Stand Pipe 48 inch	60	$ 132.20	$ 7,932.00
24" Pipe PVC 100 PSI	50	$ 57.94	$ 2,897.00
24" Pipe PVC 80 PSI	2280	$ 46.68	$ 106,430.40
Starter Coupler 24"	4	$ 1,714.00	$ 6,856.00
24x24x8	1	$ 2,394.00	$ 2,394.00
24x24x12	1	$ 2,501.00	$ 2,501.00
24x24x18	1	$ 2,735.37	$ 2,735.37
H30 Inline Valve 8	1	$1,955.00	$ 1,955.00
H30 Inline Valve 12	1	$ 2,850.00	$ 2,850.00
H30 Inline Valve 18	1	$ 5,853.00	$ 5,853.00
Total			$ 145,078.77
TOTAL ESTIMATED PROJECT COST			**$ 249,959.62**
Proposed Grant Contribution		50.00%	$ 124,979.81
Minidoka Irrigation District's Contribution		50.00%	$ 124,979.81

Appendix D : Certification Regarding Lobbying

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WaterSMART Small-Scale Water Efficiency Projects
Funding Opportunity Number R24AS00059

January 13, 20025

RE: WaterSMART Small-Scale Water Efficiency Projects Funding Opportunity Number R24AS00059

Minidoka Irrigation District does not intend to use any funds from the above-referenced grant proposal for the purpose of lobbying to influence an officer or employee of any agency or Congressional member/staff regarding federal awards.

Sincerely,

Dan Davidson
General Manager

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Minidoka Irrigation District (MID) will be piping just over 2,380 feet of the middle section of Lateral 24 with 24" HDPE pipe. This project will conserve water and other resources by reducing seepage and eliminating breeches due to rodent damage. The project directly benefits not only the District but local producers and the Highway District. The damage caused by rodents has risen dramatically over the past three water seasons, leading to an increase in allocated resources to address the damage. Piping the lateral will allow for those resources to be allocated to a more beneficial use as well as increase delivery reliability for local water users.

This project is expected to take approximately 8 weeks to complete with on the ground work being completed by December 2026 and reports finalized by February 2027. The project would be started once the system is dewatered following the 2026 irrigation season in mid-October.

This project is located in Minidoka County in South Central Idaho. The nearest town is Acequia, Idaho. The project site is approximately 1.85 miles north west of the Minidoka Dam and 4.09 miles east of the town of Acequia. The northernmost end of the project site is located at 113.516° W 42.680° N.

Minidoka Irrigation District

Center: 113°30'54"W 42°40'38"N

Date: 1/9/2025