State Water Commission Pre-Commission Meeting
Bank of North Dakota (SWC Staff Only)
1200 Memorial Hwy., Bismarck, ND
Thursday, September 12, 2024 – 1:00 p.m. CT
A QUORUM OF THE COMMISSION MAY BE PRESENT

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AGENDA

1:00 – 1:03 A. Roll Call/Pledge of Allegiance

1:03 – 1:07 B. SWC Secretary Update (no attachment)

1:07 – 1:25 C. Southwest Pipeline Project (SWPP) (Justin Froseth)
1. SWPP Historical Cost and Capital Repayment Information
2. Feasibility Criteria – Capital Repayment Adjustment for Maximum Cost per Equivalent Service Unit Increase
3. West Zone Preliminary Design Update (no attachment)
4. Intake Additional Allocation from Basin Electric Power Cooperative

1:25 – 1:45 D. Cost-Share Policy & WebGrants Certification (Pat Fridgen)

1:45 – 2:00 E. Northwest Area Water Supply (NAWS) (Travis Johnson)
1. Update on SA 97 – Contract for Pressurization of Main Transmission Line (no attachment)
2. Update on SA 98 – Contract for Pressure Reducing Station & Isolation Vaults Improvements
3. Water Rate 2025 (no attachment)

2:00 – 2:15 F. Four-Year Progress Reports (Abigail Franklund & Julie Prescott)
1. Bottineau County WRD – McHenry Laterals A and B
2. Red River Joint WRD – Lower Red River Basin Detention Study
3. Sargent County WRD – Shortfoot Creek Watershed Planning Program
4. City of Killdeer – Killdeer HWBL Water Expansion

2:15 – 2:35 G. General Water (Abigail Franklund)

1.	Maple River WRD	Maple River Low Head Dam (Dam 227)	$178,875	PC
2.	Southeast Cass WRD	Wild Rice River Low Head Dam	$209,625	PC
3.	McLean County WRD	Katz Dam Improvement Construction	$135,2287	C
4.	Ward County WRD	Ward County Low Head Dams Construction	$1,102,814	C

2:35 – 3:00 H. Water Supply (Municipal/Regional) (Julie Prescott)

1.	City of Jamestown	2025 Water Main Replacement	$168,000	PC
2.	City of Mandan	2025 Street Rehabilitation	$216,974	PC
3.	City of Colfax	Supply Treated Water Transmission Line	$368,813	C
4.	City of Minot	University Avenue Water Main Replacement	$1,827,757	C
5.	City of Minot	Westfield Water Main Replacement	$2,341,417	C

3:00 – 3:05 I. Water Supply (Rural) (Julie Prescott)

1.	Southeast Water Users District	West WTP Improvements	$1,654,484	C

J. Adjourn

PC	Pre-Construction
C	Construction
L	Legislative
CI	Cost Increase
O	Other

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MEMORANDUM

TO: Governor Doug Burgum
Members of the State Water Commission
FROM: Andrea Travnicek, Ph.D., Secretary
SUBJECT: SWPP Historical Cost and Capital Repayment Information
DATE: September 4, 2024

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Following the February 2024 discussion about the rural expansion projects on the Southwest Pipeline Project (SWPP/Project), in particular the Burt-Hebron project that is active in preliminary design, this memo is provided to review and evaluate the history of project costs as it relates to Capital Repayments made. Unique and specific to the SWPP, the state receives capital costs from the users, collected by the Southwest Water Authority (SWA). Century Code section § 61-24.3-11, in part states:

"The commission shall establish the payments for water service to be paid by water user entities for purchase of water from the southwest pipeline project. The payments for water service include each water user entity's proportionate share of the operation, maintenance, and replacement costs, and also include a component for payment for capital costs."

For the SWPP, the portion of the water rate that is intended for payment of capital costs is referred as Capital Repayment. The Capital Repayment when set by the SWC did not factor the cost of the project. Rather, it was set up based on users' ability to pay. The Capital Repayment was not created with any defined terms at the time but discussions over the years have noted that the payment would continue into perpetuity. "Into perpetuity" has not been defined and seems to have different interpretations and assumptions for the different stakeholders.

The term "perpetuity" is not mentioned in the original "AGREEMENT FOR THE TRANSFER OF MANAGEMENT, OPERATIONS AND MAINTENANCE RESPONSIBILITIES FOR THE SOUTHWEST PIPELINE PROJECT, NORTH DAKOTA, FROM THE NORTH DAKOTA STATE WATER COMMISSION TO THE SOUTHWEST WATER AUTHORITY", signed in 1996, or the three amendments that followed, but within the original agreement, there is some key verbiage such as in Section III.B.1, Mutual Consent Termination; "*This Agreement may be terminated by mutual written consent of both parties. The two parties shall agree upon the termination conditions including the effective date and, in the case of partial terminations, the portion to be terminated.*" and Section VI.I, Capital Payment to Resources Trust Fund; "*The Authority shall pay to the Commission a water rate for capital costs of the Project."* The

agreement notes that the Capital Repayment will be adjusted each year by the Consumer Price Index, also detailed in the agreement under Section VI.I, unless and until mutual consent to terminate is agreed upon.

This memo is intended to provide background information on the SWPP's history, funding and Capital Repayment to date and projections. Specifically, this memo further provides various assumptions to illustrate Capital Repayment timeframes which could lead to assisting with defining "into perpetuity".

History of SWPP:

The 1981 Legislature authorized the preliminary design of the SWPP. The plan for the SWPP was selected by the 1983 Legislature, and construction was authorized by the 1985 Legislature. Construction on the SWPP began in 1985 and continues today. The SWC owns the Project and the Department of Water Resources manages construction contracts.

The original Project was intended to be a wholesale water supply system to serve entities under contracts. Later it was realized that the service to rural water systems would be more efficient if their configuration was considered in the overall Project design. The 1989 Legislative Assembly gave the SWC the authority to study the idea of integrating rural water distribution systems into the Project and implement when beneficial. In 1991, the SWC considered the proposal and took final action to integrate rural water distribution systems into the Project.

The SWA was created as a political subdivision by the 1991 Legislative Assembly as tasks of collecting and coordinating rural sign ups, rural easements, providing customer service for rural water customers and collecting user fees grew more burdensome. The SWA was given specific authority to operate and maintain the SWPP as an agent of the SWC. In January of 1996, all operation and maintenance functions of the Project were transferred to SWA through an agreement (Transfer Agreement) with the SWC.

Funding for SWPP:

Through December of 2023, a total of $437.63 Million has been spent on the Project including $291.37 Million of State grants, $121.90 Million of Federal grants, and $24.36 Million in bonds and loans. The breakdown of the funding spent on the project is shown below in Table 1. The costs for the Project started to incur in 1976. The total spending on the Project averages approximately $11 Million per year.

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Table 1: SWPP Funding

$$s in Millions

State Funding		
Resources Trust Fund (RTF)	$	282.82
Water Development Trust Fund (WDTF)	$	8.55
Subtotal	$	291.37

Federal Grants		
GDCD MR&I Fund	$	105.63
USDA RUS	$	15.34
NRCS PL566	$	0.93
Subtotal	$	121.90

State Bonds		
Public Revenue Bonds	$	7.05
USDA RD Bonds	$	15.81
ND Drinking Water Revolving Loan Fund	$	1.50
Subtotal	$	24.36

Project Total	$	437.63

Capital Repayment:

There are two main categories of SWPP customers. Those are 1) Contract Customers and 2) Rural Customers. Contact customers enter into a water service agreement with SWA and SWC. The water service agreements specify the maximum flow rate to be provided by SWPP and the customers responsibility for minimum annual water purchase. The contract customers payment responsibility is based on their water usage. The Capital Repayment for contract customers are included in their water usage rate. Typical Contract Customers on SWPP include cities, other rural water systems, and businesses like Red Trail Energy, Baker Boy and other high volume water usage customers.

The Rural Customers are individual services directly served by the SWPP, managed by the SWA. In the case of Rural Customers, the pipeline network is built out to their location. Rural Customer's payment for water includes a monthly minimum base rate and a water rate based on water usage. Unlike the Contract Customers, the Capital Repayment rate is a fixed amount, and is included in the monthly minimum.

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The Capital Repayment rate for Contract Customers was initially established based on a financial report completed by Chiles, Heider & Co. in 1982. The repayment rate was based on ability to pay and not on a termed repayment schedule. The report determined weighted average Capital Repayment for North Dakota systems as $0.59/1000 gallons which is 0.23 percent of per capita income for the state. The $0.59/1000 gallons was noted as 0.25 percent of per capita income within the Project area. However, the report recommended the Capital Repayment portion be reduced to $0.44 for the SWPP because of the higher expected operation and maintenance cost. The $0.44 would have been approximately 0.19 percent of the per capital income. The higher-than-expected operation and maintenance costs were the result of the large geographic area with relatively few users encompassed by the Project. It was also recommended that an adjustment to the Capital Repayment rate be made annually based on the Consumer Price Index (CPI). In 1996, when the operation and maintenance of the SWPP was assigned to the SWA, the Capital Repayment rate was $0.72/1000 gallons. Since 1996, the average CPI increase is 2.5 percent per year which has resulted in a 2024 Capital Repayment rate of $1.48/1000 gallons.

For rural SWPP customers, the SWC set the Capital Repayment rate for a standard rural customer at $20 per month in 1991. Clear justification for setting the Capital Repayment rate for rural customers at $20 per month does not exist like it does for the Capital Repayment rate for Contract Customers in the Chiles, Heider & Co. study. It is gleaned through conversation from former staff that the origin of the $20 per month for the rural customers was based on review of water rates for other North Dakota rural water systems at that time. The rural Capital Repayment rate is also adjusted annually based on the CPI. The 2024 rural Capital Repayment rate for a standard customer is $45.02 per month. For SWPP users in Morton County receiving water through Missouri West Water System, the SWC set the Capital Repayment rate at $22 per month in 2005. The 2024 Capital Repayment rate for Morton county SWPP users is $35.66 per month. SWPP users in the Morton county are served by purchased water from the Missouri West Water System (MWWS). The Capital Repayment rate for SWPP Rural Customers in Morton county customers is lower than other SWPP Rural Customers to account for the cost for water from the MWWS. Figures 1 and 2 are included below to show the history of SWPP water rates for contract customers and rural customers respectively.

As a comparison to other rural water systems, Table 2 below shows the monthly rates for the different rural water systems in North Dakota.

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Figure 1: History of SWPP Contract Rates

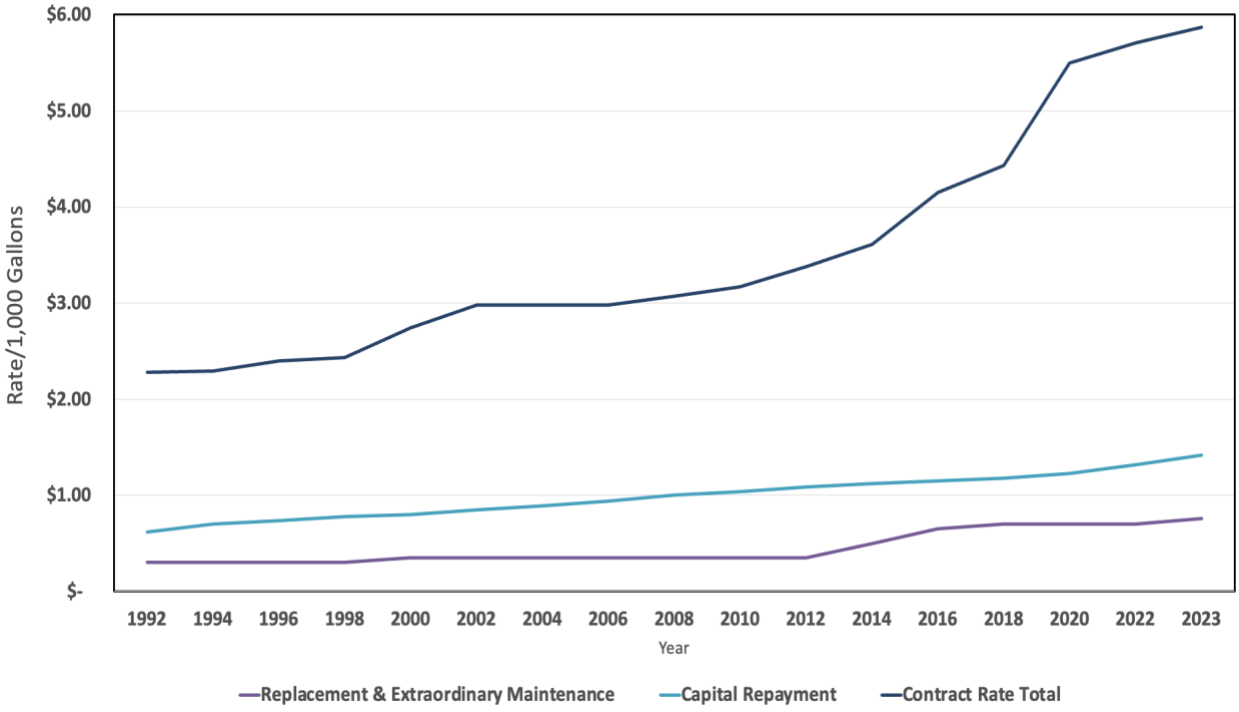

Figure 2: History of SWPP Rural Rates

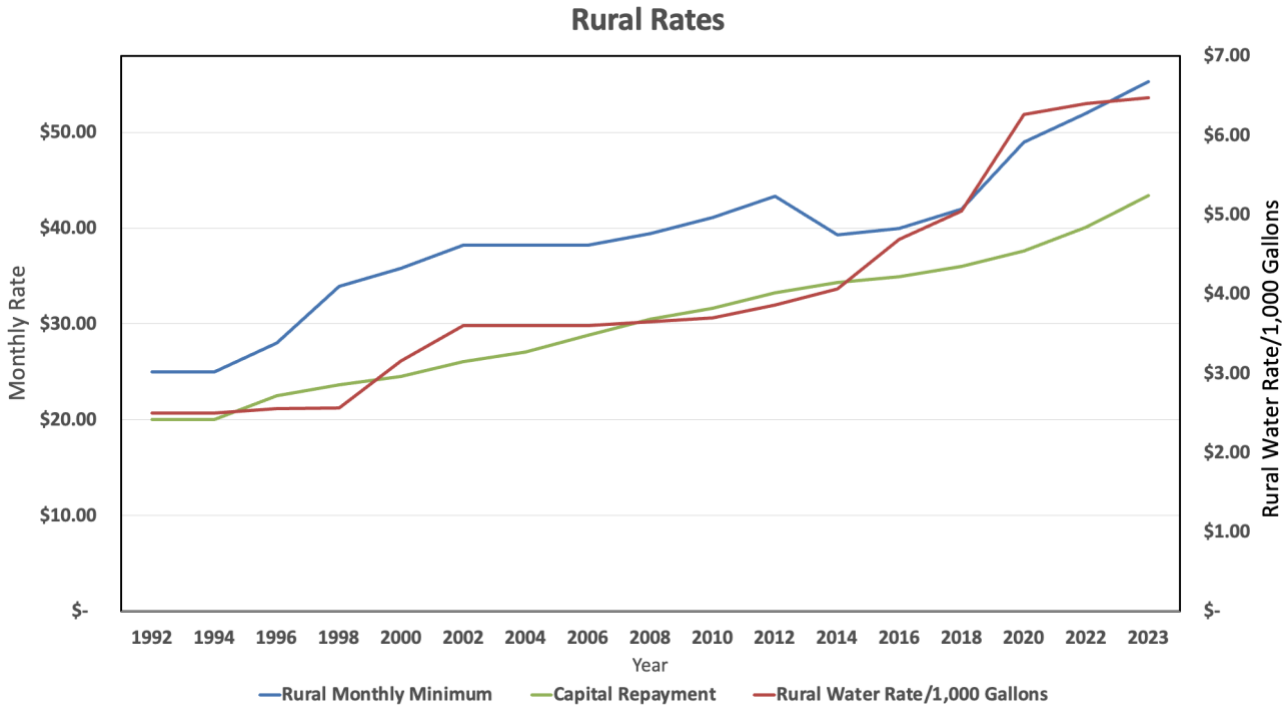

Table 2: ND Rural Water Rates Comparison

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ND Rural Water System Monthly Rates as of April of 2024 Sorted by cost per 6,000 gallons of use

SYSTEM	# of Users	Minimum Cost	$/1000 Gal.	$/6000 Gal.	Miles of Pipe
Belcourt Public Utilities	3,500	$20.50	$5.75	$55.00	245
Fort Berthold Rural Water	2,500	$25.00	$5.00	$55.00	650
Cass Rural Water District	8,592	$27.00	$5.40	$59.40	2,450
Southeast Water Users District East	1,812	$31.00	$4.75	$59.50	1,372
Greater Ramsey Water District	1,059	$35.00	$5.50	$68.00	
Central Plains Water District (Old)	790	$30.00	$6.50	$69.00	
Cass Rural Water District - Leonard Project	140	$40.00	$5.40	$72.40	50
Southeast Water Users District West	594	$50.00	$3.75	$72.50	743
Greater Ramsey Water District	1,151	$40.00	$5.50	$73.00	
Stutsman Rural Water District	1,215	$43.00	$5.35	$75.10	1,100
South Central Regional Water District	1,780	$40.00	$6.00	$76.00	1,900
South Central Regional Water District (Includes 500 gals)	6,260	$34.00	$7.90	$77.45	2,700
Southeast Water Users District West-New	140	$55.00	$3.75	$77.50	166
Greater Ramsey Water District	391	$45.00	$5.50	$78.00	1,650
State Line Water Cooperative (includes 1000 gals)	452	$40.00	$8.00	$80.00	200
Stutsman Rural Water District Expansion Project	1,378	$48.00	$5.35	$80.10	1,090
Missouri West Water System	2,005	$40.00	$6.69	$80.14	650
Agassiz Water Users District	1,400	$28.50	$9.00	$82.50	425
Barnes Rural Water District #1	1,411	$50.00	$5.50	$83.00	
Southeast Water Users District East-New	277	$55.00	$4.75	$83.50	201
Walsh Rural Water District R1	1,085	$36.00	$8.00	$84.00	
All Seasons Water Users District System 1-4	908	$40.00	$7.50	$85.00	
Southeast Water Users District Central	602	$50.00	$6.00	$86.00	547
East Central Regional Water District	2,305	$42.00	$7.70	$88.20	
Barnes Rural Water District #3	346	$56.00	$5.50	$89.00	
McKenzie County Water Resource District	1,260	$45.90	$7.19	$89.04	1,066
Southeast Water Users District Central-New	176	$55.00	$6.00	$91.00	147
Dakota Rural Water District Expansion	1,090	$53.00	$6.50	$92.00	1,200
All Seasons Water Users District System 4 Phase 1&2	124	$48.00	$7.50	$93.00	
All Seasons Water Users District System 5	538	$48.00	$7.50	$93.00	1,700
Southwest Water Authority	7,575	$55.32	$6.47	$94.14	5,260
Northeast Regional Water District/North Valley Branch	1,373	$50.00	$7.50	$95.00	2,512
Walsh Rural Water District R3	140	$48.00	$8.00	$96.00	
Barnes Rural Water District #2	267	$60.00	$6.00	$96.00	
Northwest Rural Water District	2,728	$45.00	$8.80	$97.80	1,231
Central Plains Water District (New)	340	$56.00	$7.25	$99.50	1,275
Upper Souris Water District	650	$35.00	$11.00	$101.00	600
Tri-County Water District	1,200	$54.00	$8.00	$102.00	1,200
Barnes Rural Water District #4 VC	9	$60.00	$7.00	$102.00	
R&T Water District	870	$55.00	$8.00	$103.00	653
Walsh Rural Water District R4	159	$55.00	$8.00	$103.00	730
McLean-Sheridan Rural Water District #2	174	$65.00	$6.54	$104.24	
Northeast Regional Water District/Langdon Branch	1,311	$63.00	$7.50	$108.00	
East Central Regional Water District	1,335	$63.00	$7.70	$109.20	2,500
Garrison Rural Water District	878	$62.00	$8.00	$110.00	162
McLean-Sheridan Rural Water District #1	696	$65.00	$7.60	$110.60	
North Prairie Regional Water District (Existing)		$54.00	$10.06	$114.36	
Barnes Rural Water District #5 VC	8	$75.00	$7.00	$117.00	1,200
McLean-Sheridan Rural Water District #3	162	$76.00	$7.80	$122.80	700
North Prairie Regional Water District (New)	4,835	$65.00	$10.06	$125.36	2,500

Capital Repayment has been collected since 1991 when City of Dickinson, SWPP's first customer received water as repayment for the state's investment. The annual Capital Repayment collected in 1991 was $11,000. The Capital Repayment collected from the SWPP users annually has been increasing every year as the customer base grows and with adjustments to Capital Repayment rate using CPI rate which has been generally increasing annually. In 2024, the annual Capital Repayment collection is projected at $6 million.

The Capital Repayment rates collected from the SWPP users have been used for bond payments and the excess returned to the Resources Trust Fund (RTF). The Capital Repayment deposited in the RTF is included in the SWC's budget for funding other water resource projects. In 2014, the outstanding bond debts for SWPP, which were around $18.3 Million, were paid off by the SWC, so currently all Capital Repayment is deposited in the RTF. Since 2015, the average annual Capital Repayment deposited in the RTF is $5.3 Million. Through 2023, the total Capital Repayment collected is $96.13 Million with $76.88 Million deposited in RTF. The $96.13 Million in Capital Repayment received equates to approximately 22 percent of the total amount spent on the Project. It also equates to about 33 percent of the state funds. Notably, other systems that receive cost share are expected to provide a defined percentage of total project costs as local cost share, not a percentage of state funds.

Figure 3, shows the annual Capital Repayment received in comparison with the annual total spending on the Project. The amounts through 2023 are based on actual expenditures. The annual spending on the Project from 2024 to 2036 is projected based on estimated expenditures on current ongoing projects and planned projects through June 2025 and the budget amount submitted by the SWA for consideration in the Department of Water Resources Water Development Plan. The average annual spending on the Project from 2024 to 2036 is estimated to be approximately $32 million per year in present value with a 3% factor applied annually to correct for inflation. The future Project components still needed include major upgrades to the raw water transmission line, replacement of the 12 Million Gallons per day water treatment plant in Dickinson, completion of the supplementary raw water intake and distribution capacity upgrades needed to address the growth in the Project area. The year 2036 was chosen because the most recent budget request submitted by SWA includes projects through the 2033-2035 biennium and the expectation is that project costs from requests in that biennium would extend into 2036. Project completion is not assumed at 2036, but rather this analysis used the most funding expenditure projection available at the time of this memo. The Capital Repayment received from 2024 and beyond is projected conservatively using the average CPI increase of 2 percent every year and assuming water sales remain the same as 2023. The total expenditures on the SWPP are estimated to be approximately $930 Million when summing the actual expenses through 2023 with the projected expenses through 2036.

Figure 4 shows the cumulative spending (actual and projected) on SWPP and the cumulative Capital Repayment received (actual and projected). Under the current model of CPI

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adjustment of Capital Repayment every year, 100 percent of total spending on the SWPP through 2036 would be repaid by the year 2088. Table 2 shows how Capital Repayment meets other payback scenarios. For the scenario that includes a surcharge, the surcharge is set at a one-time increase of 10% to be applied in 2025 on Capital Repayment collected from both Contract and Rural customers. The 10% surcharge was arbitrarily chosen to estimate the effect of surcharge on the repayment analysis. Each year after, the Capital Repayment is subject to an assumed 2% annual CPI adjustment, but with no other adjustment.

Most of the rural water systems have received 60 to 75 percent cost share assistance from the SWC and the remaining 40 to 25 percent is considered local share. Also of note, the cost share for the NAWS regional system has been 35 percent local and 65 percent non-local since its inception. Since the SWPP's Capital Repayment is the local share of the Project, the 25, 35 and 40 percent of the total project spending through 2036 is estimated to be recovered by Capital Repayment as shown by Table 3 below. Table 3 reflects total project costs. To understand the repayment time frames for project expenditures without federal grants Table 4 has been provided as well. Though repayment scenarios without federal grants are noted in Table 4 below, water supply projects typically use Bureau of Reclamation's Municipal, Rural, and Industrial (MR&I) funding and the projects receiving MR&I funding don't receive any additional cost share from the state and the non-federal share is provided by the local cost share responsibility. If that arrangement is applied to the SWPP's funding model, the Capital Repayment should cover the portions of the federal grants as well.

In the fall of 2023, in response to request from SWA to increase the established maximum cost per Equivalent Service Unit (ESU) for SWPP Customers, DWR staff noted that the requested increase in maximum cost per ESU would be accepted with an adjustment to Capital Repayment rate and suggested that the adjustment to the Capital Repayment rate could be calculated based on a loan repayment calculation on 25% of the amount of the maximum cost per ESU increase from the established maximum cost/ESU.

SWA then requested that the entire rural Capital Repayment amount be viewed as the 25% cost share for the entire maximum cost per ESU amount. DWR staff has disagreed with that logic since it ignores rural users cost share responsibilities for the transmission components of the SWPP. Components such as the intake and the main transmission lines and the treatment plant are not included in the maximum cost per ESU calculation for SWPP, while other rural water systems are responsible for the local share responsibility estimated based on the entire project costs.

In regard to considering the 25% amount as the local share responsibility for the SWPP, it should be noted that while other rural systems are currently eligible for 75% cost share with 25% being local responsibility, this has not always been the cost share amount for rural

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systems. Prior to 2011, the local cost share for rural systems was 65% state and 35% local match. Much of SWPP system was built prior to 2011 when other rural systems were responsible for 35% local share. Additionally, the other state-owned regional system, NAWS, remains at 65%-35% cost share. A notable difference between NAWS and SWPP is that NAWS is strictly a wholesale supplier while SWPP is both a wholesale supplier and a fully integrated system with service directly to rural customers.

In addition, the Strategic Governance and Finance Study, completed by AE2S for the State Water Commission in 2021, discussed options for migrating from the Capital Repayment model for the SWPP. It also recommended continuing large regional projects at a 65/35 cost share, and transitioning SWPP from state-owned to a local ownership.

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Figure 3: Project Funding Vs. Capital Repayment

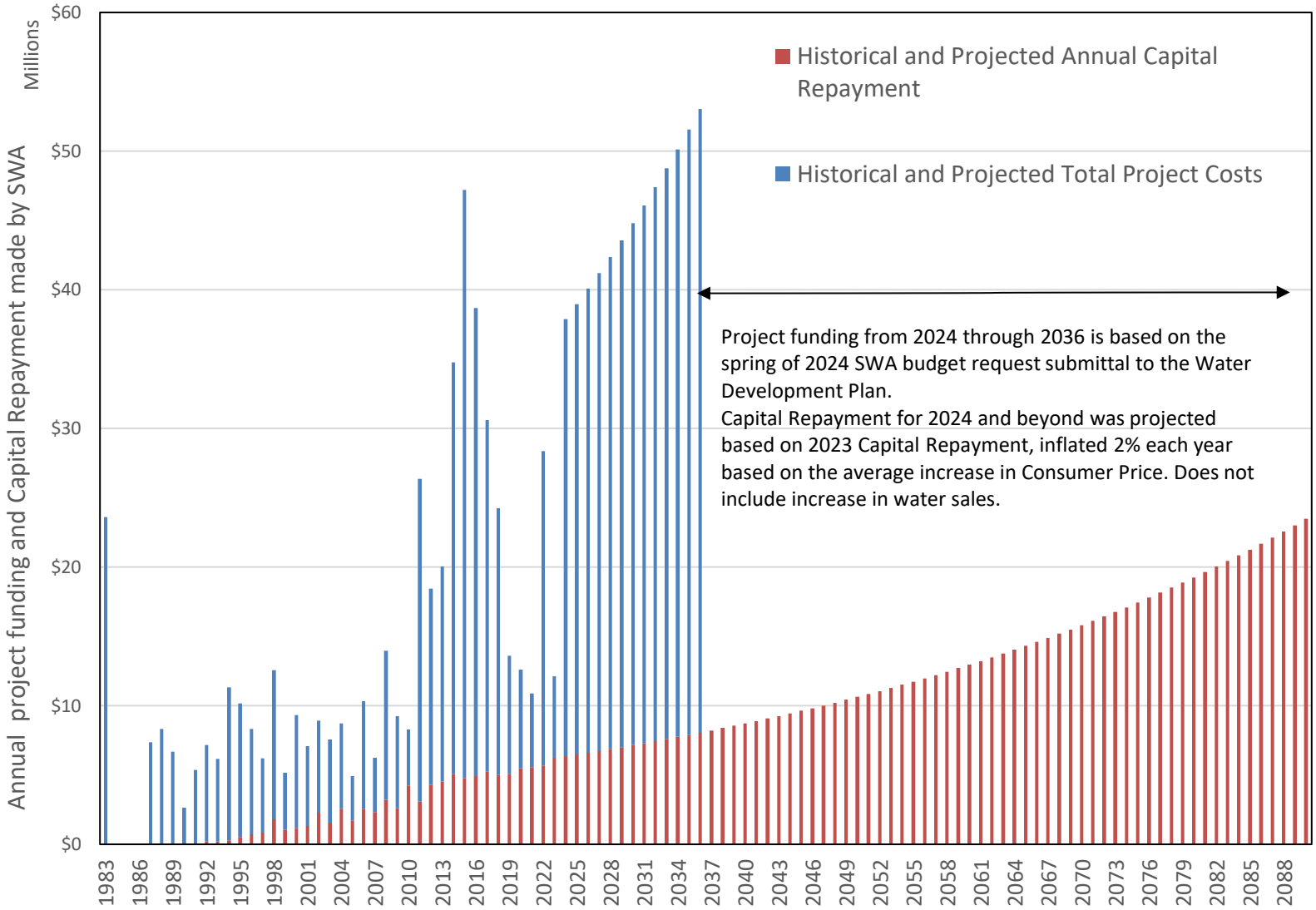

Figure 4: Cumulative Total Project Spending on SWPP Vs. Cumulative Capital Repayment

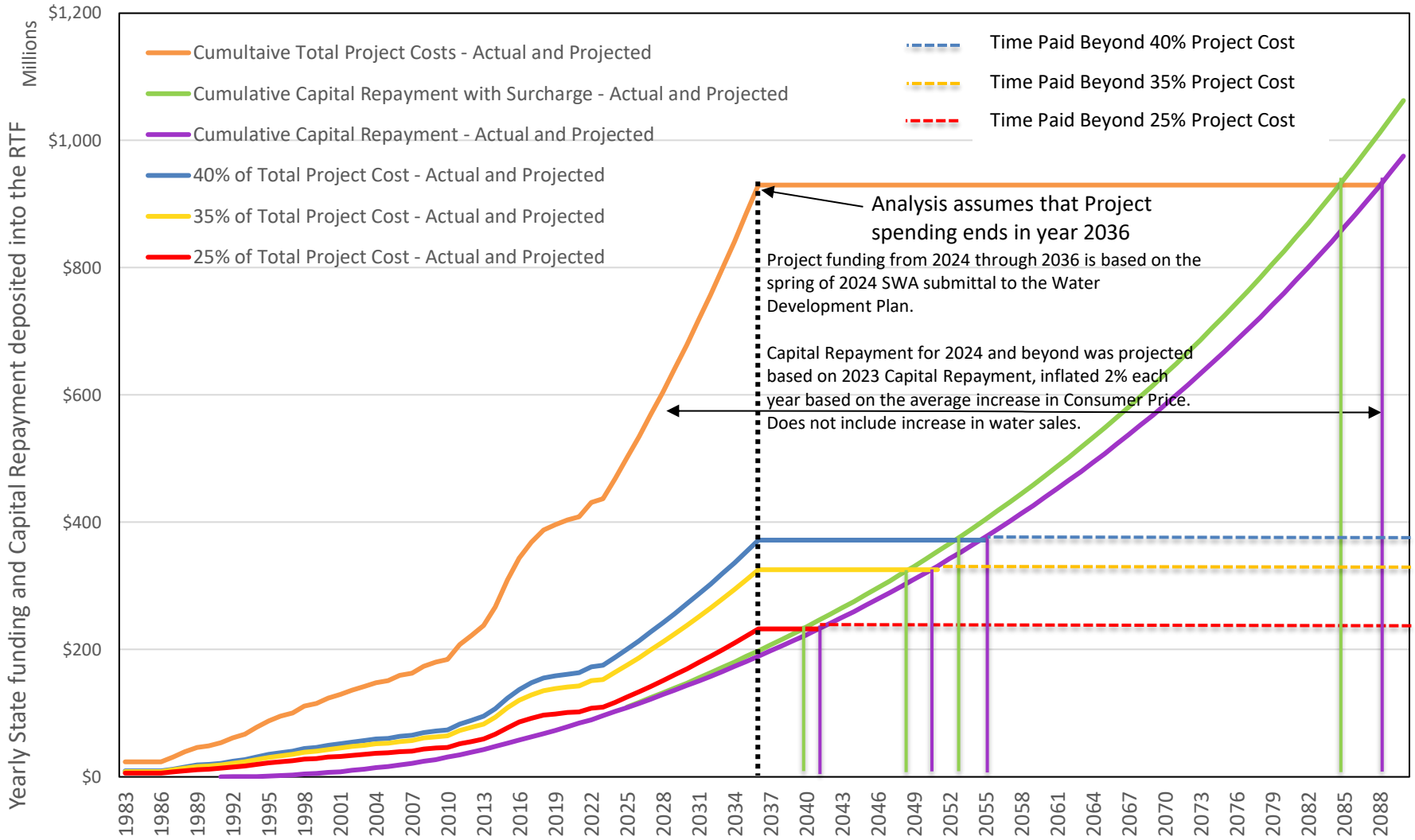

Table 3: Payback Scenarios Break Even Years for Total Project Funding

Payback Scenario	Total amount to pay back (In Millions)	Break Even Year	Annual Cap Rep at Break Even Year (In Millions)
25% of Total Project Costs	$ 232	2041	$ 8.9
35% of Total Project Costs	$ 325	2051	$ 10.8
40% of Total Project Costs	$ 372	2055	$ 11.7
Total Project Costs	$ 930	2088	$ 22.6
25% of Total Project Costs w/ Surcharge	$ 232	2040	$ 9.6
35% of Total Project Costs w/ Surcharge	$ 325	2049	$ 11.5
40% of Total Project Costs w/ Surcharge	$ 372	2053	$ 12.4
Total Project Costs w/ Surcharge	$ 930	2085	$ 23.4

Table Notes:

1) All dollars displayed in the table are in the millions of dollars.
2) All scenarios assume that CPI adjustments to Capital Repayment are 2% annually in the future and does not include additional users.
3) The projected costs come from the amounts unspent in the current biennium as well as the budget requests that SWA will submit to the Water Development Plan.
4) Projected costs are divided evenly between 2024 through 2036 for simplicity in representation. Precise timeline of spending is unknown.
5) Projected costs include 3% annual inflation.
6) For scenarios with a surcharge, a one-time 10% surcharge is to be applied in 2025, then cap repayment is increased by CPI per agreement.

Table 4: Payback Scenarios Break Even Years for State Portion of Project Funding

Payback Scenario	Total amount to pay back (In Millions)	Break Even Year	Annual Cap Rep at Break Even Year (In Millions)
25% of Total Project Costs	$ 202	2038	$8.4
35% of Total Project Costs	$ 282	2047	$10.0
40% of Total Project Costs	$ 323	2051	$10.8
Total Project Costs	$ 807	2083	$20.4

Table Notes:

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1) All dollars displayed in the table are in the millions of dollars.
2) All scenarios assume that CPI adjustments to Capital Repayment are 2% annually in the future and does not include additional users.
3) The projected costs come from the amounts unspent in the current biennium as well as the budget requests that SWA will submit to the Water Development Plan.
4) Projected costs are divided evenly between 2024 through 2036 for simplicity in representation. Precise timeline of spending is unknown.
5) Projected costs include 3% annual inflation.

Comparison of Capital Repayment of SWPP with Loan Repayment:

Projections can be made to compare the funds received back to the State through Capital Repayments with the payment that would have been received, had the local share been funded with a conventional loan.

Loan vs. Capital Repayment Assessment:

With the assumption that project spending ends in 2036 as noted before and if the local share, at 35 percent of the total project expenditures, were loaned to the SWA at the end of a 40-year loan term, with a 2.0 percent interest rate on the loan, loan repayment would be $476 Million, while the Capital Repayments made would be $668 Million, and Capital Repayment continues after the 40-year term. Figure 5 shows the comparison of cumulative loan repayment versus cumulative Capital Repayment.

Even if a lower 25 percent of the total project expenditures were considered as a loan to the SWA, with a higher 3.0 percent interest rate, at the end of 40-year loan term, the cumulative loan repayment would be $402 million, while the cumulative Capital Repayment would be $668 Million.

Summary:

This memo provides the relationship between the SWPP project expenditures, and the Capital Repayment based on different assumptions. The assumptions include, project spending ending in 2036, Capital Repayment increasing annually at the rate of 2 percent and there is no increase in water usage. Based on these assumptions, the analysis indicates that 100% of the project expenditures will be repaid by Capital Repayment in the year 2088, 40% of the project expenditures will be repaid in the year 2055, 35% of the project expenditures will be repaid in the year 2051, and 25% of the project expenditures will be repaid in 2041. If federal grants were not included in the payback amount, and assuming all future funding is from state funds; 100% of the

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project expenditures will be repaid by Capital Repayment in the year 2083, 40% of the project expenditures will be repaid in the year 2051, 35% of the project expenditures will be repaid in the year 2047 and 25% of the project expenditures will be repaid in the year 2038. While we have provided calculations to show when Capital Repayment would pay back project expenditures without federal grants under different scenarios, it is important to note that all other systems are expected to provide for their prescribed cost share for their projects irrespective of state or federal grants.

The analysis also indicated that a 10% one-time surcharge did not result in a significant difference in repayment timeframe for the SWPP.

The relationship between the SWPP project expenditures and the Capital Repayment are currently being revisited due to the SWA's request to increase the maximum cost per ESU criteria and this memo captures historical information and assumptions on project repayment. The SWA's request to increase the maximum cost per ESU was approved at the February 2024 SWC meeting, with a note indicating that the Capital Repayment adjustment will be brought forward later. DWR staff, SWA staff, and SWA Board members have discussed the justified Capital Repayment adjustment needed for increasing the maximum cost/ESU extensively and it will be addressed in a separate memo.

The 1996 Transfer Agreement states, "The Commission shall have the authority to adjust the base water rate for capital costs annually for each category of user in accordance with the increase or the decrease in the CPI". If the Commission desires to change the Capital Repayment for SWPP, it is possible with an amendment to the Transfer Agreement. Both the SWA and the SWC would need to approve any amendment. And if there was a significant adjustment to policy or management of the SWPP, the legislature may need to be included.

If it is desired to move SWPP more towards a structure similar to other regional water supply projects the various assumptions in this memo can be further reviewed to determine a specific cost share for the Project and when the Capital Repayment could potentially end. If Capital Repayments were to end after a specific timeframe, the SWPP could request cost share similar to other systems and the Project could be transferred to local ownership.

The funding model for SWPP is unique. Through this analysis, based on the certain assumptions included, the project's repayment is estimated at various timeframes. The Project's repayment analysis will be different if assumptions are changed or if "perpetuity" is defined. This memo does not provide any recommendations at this time but gives areas for further discussion as the SWPP moves closer to the assumption of substantial project completion in 2036.

The SWPP remains a critical regional water supply project to the southwest region of the state. As the project reaches substantial completion, consideration should be given to identifying

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appropriate Capital Repayment for SWPP, defining "perpetuity", identifying if a cost share is appropriate, determining appropriate maximum cost per ESU with rationale for changes, and if the change in project's ownership is appropriate.

A working group that consists of various stakeholders may need to be set up in the near future to identify recommendations for the different aspects of the project discussed above.

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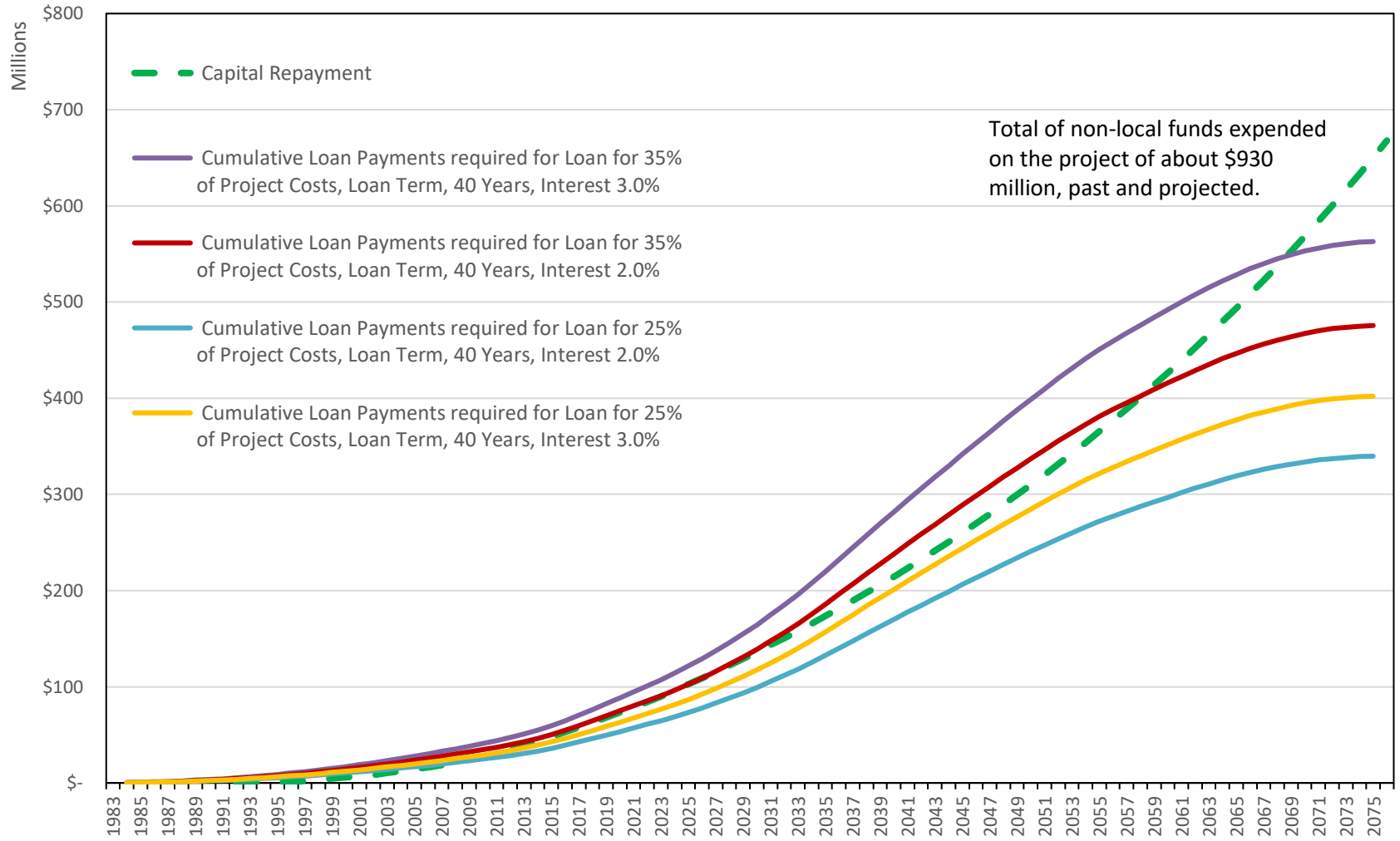
Figure 5: Loan Repayment Scenarios Vs. Capital Repayment



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MEMORANDUM

TO: Governor Doug Burgum
Members of the State Water Commission
FROM: Andrea Travnicek, Ph.D., Secretary
SUBJECT: SWPP – Capital Repayment Adjustment for Feasibility Criteria Change
DATE: September 4, 2024

Feasibility Criteria exists within the Southwest Pipeline Project (SWPP) because of the SWPP's unique nature within our state. The SWPP is one of the two regional water systems owned by the state. Northwest Area Water Supply (NAWS) is the other state-owned project. SWPP is different than NAWS in that it includes retail rural customers served by the system and has an operating entity, Southwest Water Authority (SWA), to manage the operations of the system, with expansion interests. The feasibility criteria are in place to make sure that the expansion is reasonable. Since the SWPP's funding structure includes Capital Repayment from users that are set to escalate annually with the Consumer Price Index (CPI) instead of termed loan repayments, its funding approach is distinctly different from other rural systems throughout the state. Because of this different funding approach, limits on construction costs for expansion was set to responsibly use state funding.

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The Feasibility Criteria for SWPP includes two parameters: Sign up percentage and the maximum cost per Equivalent Service Unit (ESU). Discussion has been ongoing about an adjustment to the maximum cost per ESU since the fall of 2022, when the preliminary rural distribution design in the Burt-Hebron Service Area was completed. Upon completion of a preliminary design at that time, it was apparent that the existing maximum cost per ESU would not allow for a project that would extend the rural distribution in a consequential way. Because construction inflation has been significantly outpacing general inflation, the existing Feasibility Criteria's maximum cost per ESU, calculated using December 2023 CPI, at $54,270 would provide for installation of less than 4/10th of a mile of service line. Historically, the maximum per cost per ESU has allowed extension of rural service at 1-2 miles per ESU. More than 2 miles/ESU was even constructable during early construction of the rural distribution projects.

At the February 2024, State Water Commission (SWC) meeting, the Commission approved increasing the maximum cost/ESU to $75,980 based on SWA's request calculated using the December 2023 CPI. At the Commission meeting it was noted that the DWR staff would determine the appropriate Capital Repayment adjustment for the increase in

maximum cost/ESU. There have been many meetings between Department of Water Resources (DWR) staff, SWA staff, SWA's Feasibility Criteria Subcommittee, and the full SWA board regarding the justified increase in Capital Repayment for the increase in maximum cost/ESU requested by SWA. The proposal offered by DWR staff is as follows:

1) Increase the maximum cost/ESU from $55,640 (using July of 2024 CPI) to $61,742 without any adjustment to the Capital Repayment rate. The new maximum cost/ESU was determined by allocating the 2024 Capital Repayment amount of $45.02/month towards 35% of the maximum cost/ESU with 0% interest and 40 years repayment. ($45.02/month x12 months x 40 years/35% = $61,742.

   DWR staff proposed using 35% in the calculation as prior to 2011, the local cost share for rural systems was 65% state and 35% local match. Much of SWPP system was built prior to 2011 when other rural systems were responsible for 35% local share. Additionally, the other state-owned regional system, NAWS, remains at 65%-35% cost share. A notable difference between NAWS and SWPP is that NAWS is strictly a wholesale supplier while SWPP is both a wholesale supplier and a fully integrated system with service directly to rural customers.

2) Allow SWA to increase the maximum cost/ESU to an amount that they think is best to reasonably expand into the Burt-Hebron new service area in exchange for a Capital Repayment rate increase calculated using the formula noted in #1. The Capital Repayment increase would be $7.29 for every $10,000 of maximum cost/ESU increase. ($10,000 x 35%/40years /12months = $7.29/month/ESU).

3) Allow SWA to determine how they distribute the increase in Capital Repayment among the SWPP'S rural customers. Two common ways could be to distribute among the new Burt-Hebron rural customers or allow them to distribute widely among SWPP's customer base. If among new customers, the amount in #2 would be charged to each new customer. If distributed widely among their customer base, the amount would be much less to each customer.

Following multiple discussions, at the September 2024 SWA Board meeting held on September 3, 2024, the following motions were made:

1. Adopt an increase to the SWPP Feasibility Criteria maximum cost/ESU to $61,742 based on the 2024 Capital Repayment rate. Motion carried unanimously by roll call vote.

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2. Approve $75,980 as the maximum cost/ESU for the Burt-Hebron Rural Service Area, including Lake Tschida, and the policy change for Capital Repayment adjustment. Motion carried by roll call vote.

3. Assess the Capital Repayment adjustment to all rural customers determined annually in the budget process for the budget year following the substantial completion date. Motion carried unanimously by roll call vote.

DWR staff will discuss the motions approved by the SWA Board and a recommendation will be brought forward at the October SWC meeting.

Exclusions:

The SWPP's Feasibility Criteria has a guideline that states that "Transmission and storage facilities will not be included in the determination of cost for a single ESU". The components noted within this guideline is most commonly referred to as "Exclusions". In addition to the exclusions noted in the Feasibility Criteria guideline, booster pump stations have been excluded in the determination of maximum cost/ESU through SWC action. Storage facilities and booster pump stations do not need a definition, while Transmission facilities do require a definition. Traditionally, facilities built to serve towns were considered transmission facilities. Furthermore, based on the specific reference to storage facilities and booster pump stations in the guideline, the storage and booster pump stations located within rural distribution have been considered exclusions as well and have not been included in the maximum cost/ESU calculation.

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"Transmission facilities" need a definition at this time, as questions about whether the 8" – 10" pipeline that is needed to serve signups around Lake Tschida could be considered "Transmission pipeline" have arose. On the SWPP, the flow rate design for pipelines to a reservoir is called transmission flow which is generally calculated using the formula:

$Q = 0.5xN + C$, where N is the number of ESUs, C is the contract flow amounts

The pipeline downstream of the reservoir is designed for distribution flow, which is calculated using the formulas:

$Q = 9xN^{0.5} + C$ For $15 \geq N$, where N is the number of ESUs, C is the contract flow amounts

Q = 0.9xN + 13.6 + C For 15< N, where N is the number of ESUs, C is the contract flow amounts

Because of the difference in the calculation for transmission flow and distribution flow, DWR staff feels defining transmission facilities as facilities upstream of a reservoir or to a town is appropriate. The Burt-Hebron project has identified a need to better define exclusions that seemingly were not contemplated when the Feasibility Criteria was originally adopted. With any other situations, not yet contemplated, where a change to the definition should be considered, we would bring that to the SWC.

As Capital Repayment and maximum/ESU criteria are unique to the SWPP, so are the exclusions. Other rural water systems across the state that receive cost share from the SWC, are responsible for the local share on the total cost to build those systems which includes transmission components, treatment facilities, intake facilities, and distribution facilities. Since other rural systems pay a defined share for all their components, the rural water system's governing body decides the extent of expansion affordable to the system and the SWC has no policy in place to restrict a rural system's plan to expand based on cost to serve a rural user. However, the SWPP has the maximum cost/ESU as it was needed for the SWC as the owner of the project to determine the responsible use of state funding to serve a single user based on the SWPP's unique funding model. The guidance which includes the exclusions was created for the implementation of the SWPP's Feasibility Criteria.

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It should be noted that the maximum cost/ESU discussed for the SWPP is different than the Present Value Cost/user included in the Life Cycle Analysis of rural and municipal water system's cost share application for SWC funding because of the following reasons:

1. The exclusions included in the maximum cost/ESU calculation
2. The Present Value Cost/User includes, operation and maintenance, replacement, and salvage costs while the maximum cost/ESU is just the capital and engineering costs for construction.

DWR staff would like Commission's feedback on the definition of pipelines in the Transmission facilities to be included in the guideline for the SWPP's feasibility criteria. Depending on the feedback received from the Commission and SWA a recommendation may be provided at the October SWC meeting.

The options in front of the Commission are:

1. Define pipelines included within the "Transmission facilities" exclusions as only pipelines that serve a town.
2. Define pipelines included within the "Transmission facilities" exclusions as pipelines upstream of a reservoir.

In addition, DWR staff is interested in knowing if the Commission has any feedback in general related to maximum cost/ESU and feasibility criteria associated with SWPP .

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MEMORANDUM

TO: Governor Doug Burgum
Members of the State Water Commission
FROM: Andrea Travnicek, Ph.D., Secretary
SUBJECT: SWPP Intake Additional Alllocation from Basin Electric Power Cooperative
DATE: September 11, 2024

The existing intake for the Southwest Pipeline Project is a shared intake with the Basin Electric Power Cooperative (BEPC). A 1986 water supply agreement between State of North Dakota and BEPC provides for 10,600 gallons per minute (gpm) capacity from the BEPC's intake to the SWPP.

The Department of Water Resources staff have been in communication with BEPC regarding allocation of additional capacity for the SWPP from the BEPC intake. DWR staff and BEPC staff have verbal agreement on the commercial terms for BEPC to provide additional 3,000 gpm capacity to SWPP. An amendment to the1986 water supply agreement is under development.

The amendment to the water supply agreement is expected to be brought forward for Commission approval at the October SWC meeting.

The conceptual plan for BEPC's intake to provide additional 3,000 gpm for the SWPP involves upgrading the existing 100 HP pump inside the BEPC intake building with a 200 HP pump and upgrading the existing 300 HP pump inside the SWPP's intake building with 600 HP pump.

After the amendment to the water supply agreement is executed with BEPC, DWR staff will authorize Bartlett & West/AECOM to proceed with developing bid ready documents for construction.

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It is an offense to intentionally falsify statements as part of the cost-share application process per NDCC 12.1-11-02. Therefore, I certify that, to the best of my knowledge, the provided information is true and accurate, and in execution of this project, the sponsor will follow all applicable laws and permitting requirements.

I further certify assurance of sustainable operation, maintenance, and replacement of the assets for which we are requesting cost-share.

1 POLICY STATEMENT

The State Water Commission (Commission) has adopted this policy to support local sponsors in the development of sustainable water related projects in North Dakota. This policy reflects the Commission's cost-share priorities and provides basic requirements for all projects considered for prioritization during the Department of Water Resources' (Department) budgeting process. Projects and studies that receive funding from the Department's appropriated funds are consistent with the public interest. The Commission values and relies on local sponsors and their participation to assure on-the-ground support for projects and prudent expenditure of funding for project or program development.

It is the policy of the Commission that only the items described in this document will be eligible for cost-share or loans upon approval by the Commission, unless specifically authorized by Commission action.

1.1 POLICY AUTHORITY

This policy garners authority from North Dakota Century Code (N.D.C.C.) Chapter 61-02 and North Dakota Administrative Code (N.D.A.C.) Title 89. No funds will be used in violation of Article X, § 18 of the North Dakota Constitution (Anti-Gift Clause).

1.2 ACCEPTANCE OR ENFORCEMENT

The Commission reserves the right to change this policy as necessary to ensure the Commission fulfills its statutory duties.

The Commission reserves the right to return any application submitted under this policy to the applicant for correction if the application is not in compliance with the policy's intent or is insufficient for the Commission to make an informed decision.

1.2.1 VIOLATIONS

Applicants, or their representative consultant(s) who have been determined by the Commission to have intentionally provided false statements or information to acquire cost-share funding, will result in the applicant being disqualified from seeking funding through the Cost-Share Program for a minimum of 24 months.

Applicants that have already received Cost-Share Program funding and have been determined by the Commission to have intentionally provided false statements or information to acquire cost-share funding, or used the funding improperly, will have remaining approved funding revoked and previous related payments reimbursed back to the state.

1.3 APPEALS

Decisions may be appealed at the discretion of the Commission.

application for cost-share can be submitted. (The estimated cost-share funding may be reduced subject to application of all other policy eligibility criteria at the time the project is presented to the Commission and during review for reimbursement.)

3.4 APPLICATION REQUIREMENTS AND MATERIALS

Applications for cost-share are accepted at any time. Incomplete applications or applications received less than 45 days before a Commission meeting will not be considered at that meeting and will be held for consideration at a future meeting. Meeting dates are available on the Department homepage.

The Commission will consider cost-share requests submitted by sponsors and will issue agreements under a two-tier process for applicable projects. Cost-share for pre-construction-related (Tier I) expenses will be considered first; followed by construction-related (Tier II) expenses after completion of pre-construction activities, including plans and specifications for bidding project construction.

In order for an application to be considered complete for Commission consideration, it must include the following supplemental materials:

3.4.1 TIER I (PRE-CONSTRUCTION) APPLICATIONS

a. Category of cost-share activity;

b. Location of the proposed project or study area shown on a map;

c. Description, purpose, goal, objective, and narrative of the proposed activities;

d. Delineation of Costs (SFN 61801), with contingencies of no more than 10 percent of the total project construction costs;

e. Anticipated timeline of project from preliminary study through final closeout;

f. Potential federal, other state, or other North Dakota state entity participation;

g. Cover letter acknowledging the cost-share request that is signed by a representative of the sponsoring entity (mayor, board chair, city administrator, district manager, executive director, etc.); and

h. Completed life cycle cost analysis worksheet for water supply projects. The completed worksheet must include a no action alternative and up to three additional plausible alternatives—including repair, replacement, and regionalization options. If repair, replacement, and regionalization alternatives are excluded from the

life cycle cost analysis, justification must be provided by the project sponsor.

Under the two-tier process, approval of Tier I pre-construction cost-share does not guarantee future cost-share for construction activities.

3.4.2 TIER II (CONSTRUCTION) APPLICATIONS

a. Updated Tier I pre-construction application materials (see above);

b. Engineering plans and specifications for purposes of bidding the project;

c. Status of required permitting, including submission of approved drain, sovereign land, or construction permits if required by state statute;

d. Status and type of local funding sources;

e. When applicable for flood control projects, a Conditional Letter of Map Revision (CLOMR) from the United States Federal Emergency Management Agency (FEMA);

f. Potential territorial service area conflicts or service area agreements, if applicable;

g. A completed Capital Improvement Plan (CIP) for water supply projects as outlined in the Commission's CIP Guidance. A completed CIP should include demonstration of a sustainable Capital Improvement Fund (CIF), that at a minimum sets aside a percentage of the cost of the asset(s) for which the Commission is cost-sharing over the expected life of the asset(s), (required at the time applications include a request for construction cost-share);

h. Completed economic analysis worksheet for water conveyance and flood-related projects expected to cost two hundred thousand dollars or more;

i. Results of a positive assessment vote (rural flood control projects only);

j. A completed sediment analysis (drain reconstructions only);

k. A property acquisition plan (flood property acquisition program only);

l. Cover letter acknowledging the cost-share request that is signed by a representative of the sponsoring entity (mayor, board chair, city administrator, district manager, executive director, etc.); and

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- These projects will be deferred for the first six months of the biennium for Commission consideration. (Exceptions are those projects considered to be an emergency—directly impacting human health and safety.)

CENTURY CODE OR ADMINISTRATIVE CODE REFERENCE UPDATES

SOP

- Century Code or Administrative Code reference updates in this policy may be made at the Secretary's discretion, with notification to Commission members.

PROFESSIONAL ETHICS VIOLATIONS

SOP

- In the event of a professional ethics violation, Department staff and Commission members will evaluate reporting requirements to professional boards and notify those boards if required following incidents.

ADVERTISEMENT FOR BIDS

FOR THE CONSTRUCTION OF
NAWS PRESSURE REDUCING STATION AND ISOLATION
VAULT IMPROVEMENTS (CONTRACT SA No. 98)
FOR THE
NORTH DAKOTA STATE WATER COMMISSION

Sealed Bids for construction of the **NAWS Pressure Reducing Station and Isolation Vault Improvements Contract SA No. 98** will be received by the North Dakota State Water Commission BY MAIL or IN-PERSON at 1200 Memorial Highway, Bismarck, ND 58504 until **9:30 AM** local time on **September 19, 2024,** at which time Bids will be publicly opened and read. Attendees of the bid opening must check in at the Bank of North Dakota lobby and receive a visitor's ID badge. Attendees will be escorted to the Bid opening room by Department of Water Resources staff.

Mailed Bids shall be addressed to Mr. Travis Johnson, North Dakota Department of Water Resources, with an internal envelope containing the bid clearly indicated to be a Sealed Bid for NAWS Contract SA No. 98.

The scope of Work consists of 1 Bid Schedule. The Project is located in Ward County, North Dakota. The Work consists of the following:

Construction of new electrical ductbank and equipment pads, construction of new instrumentation, control, and electrical work at the Pressure Reducing Station and 3 (three) Isolation Valve Vaults, including valve actuators, unit heaters, dehumidifiers, sump pumps, and other miscellaneous and incidental items. The Work includes all transportation, labor, materials, tools, equipment, services, permits, utilities, and other items necessary to construct said Work.

The Contractor will not perform Work or permit the performance of Work by subcontractors outside regular dusk to dawn working hours or on Saturdays, Sundays, or legal State holidays without providing written notice of proposed work to the Engineer a minimum of 5 days in advance and contingent on the Owner's written consent.

Each Bid must be accompanied by a separate envelope containing a copy of a current and valid North Dakota contractor's license issued at least 10 days prior to Bid opening, and a Bidder's Bond in a sum equal to 5% of the full amount of the Bid, executed by the Bidder as Principal and by a Surety, conditioned that if the Principal's Bid is accepted and the Contract awarded to Principal, the Principal, within 10 days after notice of award, shall execute a Contract in accordance with the terms of the Bid and a Contractor's Bond as required by law and regulations and determinations of the North Dakota State Water Commission. Bidders shall submit proof of qualification to perform the Work as described in the Instructions to Bidders.

The Issuing Office for the Bidding Documents is:

Houston Engineering, Inc.
3712 Lockport Street Suite A
Bismarck, ND 58503
kmartin@houstoneng.com

Prospective Bidders may examine the Bidding Documents at the following locations on Mondays through Fridays between the hours of 8 AM and 5 PM and may obtain copies of the Bidding Documents from the Issuing Office as described below.

Houston Engineering, Inc.
3712 Lockport Street, Suite A
Bismarck, ND 58503
701-323-0200 Phone
701-323-0300 Fax

Houston Engineering, Inc.
3900 13TH Avenue SE
Minot, ND 58701
701-852-7931 Phone
701-858-5655 Fax

Bidding Documents are available online (as portable document format (PDF) files) for a non-refundable charge of $50.00 at www.questcdn.com by entering the Quest project number **9288245**. Please contact QuestCDN.com at 952.233.1632 or info@questcdn.com for assistance. Alternatively, printed Bidding Documents may be obtained from the Issuing Office either via in-person pick-up or via mail, upon Issuing Office's receipt of payment for the Bidding Documents. The non-refundable cost of printed Bidding Documents is $750 per set. Upon receipt of payment, printed Bidding Documents will be sent via the prospective Bidder's delivery method of choice; the shipping charge will depend on the shipping method chosen. Neither Owner nor Engineer will be responsible for full or partial sets of Bidding Documents, including Addenda if any, obtained from sources other than the Issuing Office.

A Pre-Bid Conference Call with the Engineer will be held on **September 10, 2024 at 2:00 p.m.** local time. Attendance at the pre-bid conference is **strongly encouraged** for all Bidders. The conferencing details are provided in the Bidding Documents.

Substantial Completion for all WORK shall be **August 15, 2025.**
Final Completion for all WORK shall be **September 15, 2025**.

The State of North Dakota, acting through the State Water Commission, reserves the right to award the Contract, if awarded, based on the lowest responsive Bid that is in the best interest and most advantageous to the Owner, to reject any Bids, to consider other factors in selecting the Bid that are in the best interest of the Owner, and to waive any irregularities in any Bid. The Owner reserves the right to hold all Bids for a period of 90 calendar days after the date of the Bid opening to complete financial arrangements.

BY THE ORDER OF THE NORTH DAKOTA STATE WATER COMMISSION.

Dated: 8/29/2024

/s/ Andrea Travnicek
Andrea Travnicek, Ph. D.
Secretary
North Dakota State Water Commission

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Progress Report Summary
September 12, 2024 Precommission Meeting

Sponsor	Project	Date of Original Approval	Date of Last Extension Approved	Extension Period Approved	Approved Cost-Share	Remaining Balance
Bottineau County WRD	McHenry Laterals A and B	10/8/2020	NA	NA	$362,492	$125,347.75
Red River Joint WRD	Lower Red Basin Regional Detention Study	7/13/2015	NA	NA	$77,905.00	$31,327.44
Sargent County WRD	Shortfoot Creek Watershed Planning Program	7/7/2016	2/1/2021	4 years	$154,000	$6,209.06
City of Killdeer	Killdeer HWBL Water Expansion	2/11/2021	NA	NA	$75,000	$58,000

NA – Not Applicable

BOTTINEAU COUNTY WATER RESOURCE DISTRICT

August 26, 2024

Cost Share Program Administrator
ND Department of Water Resources
1200 Memorial Highway
Bismarck, ND 58505

To whom it may concern:

Bottineau County Water Resource District requests an agreement extension to complete McHenry Laterals A and B to the Russell Drain, SWC Project 2156. The remaining items to complete are a small amount of channel slope grading due to erosion, roadway repair, and seeding. The Engineer met with the Contractor on June 17th on-site to discuss the remaining items. The Contractor was working that day but could not finish due to the wet conditions within the channel. There is a remaining balance of $23,702.76, which includes seeding and retainage. We are expecting a change order for the roadway repair, which is estimated to bring the remaining balance to $30,000. The Contractor is required to finish this Fall.

Please don't hesitate to contact Jennifer Malloy at 701-323-3950 or Clifford Issendorf at (701)228-4070 should you have any questions.

Clifford Issendorf

Clifford Issendorf
BCWRD Chairman

PO Box 268 | Bottineau, ND 58318 | Clifford Issendorf, Chair: 701-228-4070

BOARD OF MANAGERS	CLIFFORD ISSENDORF	WALLY BRANDJORD	WAYNE DRANGSHOLT	MITCH OPDAHL	MARK GLINZ

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Commission Date : 10/8/20
Commission Action : Approved (cfitzgerald)

Approved 45% eligible costs at an amount not to exceed $362,492.

MEMORANDUM

TO: Governor Doug Burgum
Members of the State Water Commission
FROM: John Paczkowski, P.E., Interim Chief Engineer/Secretary
SUBJECT: NDSWC Cost-Share Request – Bottineau County WRD
McHenry Laterals A and B
DATE: July 27, 2020

The Bottineau County Water Resource District (District) is requesting cost-share for the McHenry Laterals A and B Project. The project is located south of Russell along the Bottineau and McHenry county lines in North Dakota.

The McHenry Lateral drain is 5.25 miles long and is designed to handle a watershed of 3,173 acres with a proposed assessment district of 3,204 acres. Lateral A is approximately 0.5 miles long and Lateral B is also approximately 0.5 miles long. The purpose of the project is to reduce overland flooding and reduce crop losses due to spring snow melt and large summer rains in an area that has an extremely flat gradient.

The project includes engineering and construction costs. Design and bidding are expected in fall 2020. The construction is expected to be complete in fall of 2021. Drain permit #5404 has been approved, and the Economic Analysis benefit-to-cost ratio is 1.06.

The District is requesting 45 percent cost-share as a rural flood control project. The total project cost is estimated at $870,539, of which $805,539 is eligible for cost-share. The recommendation is 45 percent of the eligible costs, or a cost-share of $362,492.

This project effort meets requirements of the Water Commission's cost-share policy for rural flood control projects. Therefore, I recommend approving this request by Bottineau County Water Resource District for $362,492 at 45 percent of eligible costs. This approval is contingent on available funding.

JP:bn/20

Red River Joint Water Resource District

Providing a coordinated and cooperative approach to planning and implementing a comprehensive water management program in the Red River Valley

1201 Main Avenue West
West Fargo, ND 58078-1301

Phone: 701-298-2381
Fax: 701-298-2397
wrd@casscountynd.gov
www.redriverjointwrd.org

SENT VIA EMAIL

August 14, 2024

Abigail Franklund
Cost-Share Program Manager
North Dakota Department of Water Resources
1200 Memorial Highway
Bismarck, ND 58504

Dear Ms. Franklund:

RE: Lower Red River Basin Regional Detention Study cost-share extension request
SWC Project No. 1705

The Red River Joint WRD (RRJWRD) appreciates the previous cost-share approval for the Lower Red River Basin Regional Detention Study and is pleased to provide a status update on the project.

The RRJWRD would like to request an extension of the *Agreement for Cost-Share Reimbursement* for the Lower Red River Basin Regional Detention Study.

The Study is a cooperative effort between the RRJWRD of ND and the Red River Watershed Management Board (RRWMB) of MN. A Local Consulting Team (LCT) has been contracted by the RRJWRD and RRWMB to provide detailed hydrologic information for many proposed detention sites. The Red River Basin Commission has also contracted with the USACE, through the authority provided by Section 22 of the Water Resources Development Act, for them to develop hydraulic models of the lower end of each tributary and the Red River mainstem.

The comprehensive study within the Red River Basin will analyze the impact of potential distributed storage sites during 100-year, 200-year, and 500-year flood events. This will assist local watershed planning and implementation of flood mitigation projects.

Currently, the USACE is using the HEC-HMS hydrologic models supplied by the LCT to update the Red River mainstem HEC-RAS hydraulic model within the HEC-WAT modeling framework. Progress on federal tasks has slowed, and tasks for the LCT firms are stalled until federal modeling results are completed.

The following tasks have currently been completed:

- Local Consulting Team (LCT)
    - Update HEC-HMS models from the Distributed Detention Studies for current conditions and expand input data to accommodate the 200-year and 500-year flood scenarios.
    - Develop the initial storage array within the HEC-HMS models.
    - Review and provide input to the USACE on 100-year hydrology.
    - Review and provide input to the USACE on HEC-RAS modeling updates.
    - Coordination with the USACE and the LCT through the Local Consultant Coordinator (HEI).
- Federal Tasks (USACE)
    - Updates to the Red River Mainstem HEC-RAS model based on previously provided recommendations from the LCT.
    - Develop 100-year flood scenario hydrology for the Red River mainstem.

Tasks currently underway by the USACE are to develop modeling scenarios for the 200-year and 500-year flood events using consistent methods as the 100-year scenario, and complete Red River mainstem modeling for the initial storage array. The USACE is also troubleshooting issues with the HEC-WAT framework and naming conventions from the HEC-HMS models.

Once the ongoing USACE tasks are completed, additional storage arrays will be developed through the LCT to determine the final storage array to meet the 20% flow reduction on the Red River mainstem.

There continues to be a delay in completing the remaining tasks due to continuing changes in USACE staff. These delays have affected each local consulting firm's ability to accomplish work on tasks/subtasks. It appears that the delays will extend the project completion to at least the end of 2025. We have requested the USACE to develop an updated schedule and budget.

We are frustrated with the delay but feel that the completed study will provide valuable information. We understand that the HEC-RAS model being developed by the USACE may also be beneficial for the Oslo area study that is being pursued by the North Dakota Department of Transportation.

We will have a representative available at the September 12 Pre-Commission meeting and October 10 State Water Commission meeting to request a time extension and to answer any questions.

Please contact us if you have any questions. Thank you.

Sincerely,

RED RIVER JOINT WATER RESOURCE DISTRICT

Josh Ihry
Chair

cc: Randy Gjestvang, North Dakota Department of Water Resources

interoffice MEMORANDUM

To: Todd Sando, P.E., State Engineer, Commission Chief Engineer - Secretary
Michelle Klose, P.E., Assistant State Engineer
John Paczkowski, P.E., CFM, Chief, Regulatory Section
Pam Jahner, Accountant, Administrative Services

From: Jared Huibregtse, CFM, Water Resource Program Administrator
Subject: NDSWC Cost-Share Request for Red River Joint Water Resource District's Lower Red Basin Regional Detention Study
Date: July 13, 2015

In their correspondence dated June 26, 2015, the Red River Joint Water Resource District (RRJWRD) requested state cost-share participation for their Lower Red Basin Regional Detention Study.

The proposed Study will expand the previously completed Halstad Upstream Retention Study, and will analyze the regional benefit provided to the Red River mainstem by distributed storage within the US portion of the Red River Basin. The proposed Study will determine the required tributary storage to attain the 20% peak flow reduction goal, as defined in the Red River Basin Commission's (RRBC) Long Term Flood Solutions (LTFS) report. Storage locations identified in the tributary Comprehensive Detention Studies will be prioritized to incorporate potential projects that alleviate local flooding concerns for RRJWRD member Districts. These prioritized storage locations will then be analyzed using the tributary HEC-HMS hydrologic models to determine tributary outflows. Tributary outflow information will then be routed through the HEC-RAS Red River mainstem model to determine benefits to the Red River mainstem. The following tasks are required to completed the proposed Study and are outlined in more detail in the enclosed Scope of Work:

- TASK 1: Update the Standardized Modeling Approach
- TASK 2: Expanded Standardized Melt Progression Event
- TASK 3: Tributary With-Storage Proposed Conditions HEC-HMS and ResSIM Modeling
- TASK 4: Red River Mainstem With-Storage Conditions HEC-RAS Modeling
- TASK 5: Summary Report

This project is proposed to be jointly completed with the Minnesota Red River Watershed Management Board (RRWMB), the US Army Corps of Engineers, and the RRJWRD. The US Army Corps of Engineers is financing their portion of the proposed Study through the on-going Red River Basinwide Feasibility Study. In order to ensure that storage locations that will be analyzed in the proposed Study are locally preferred, the RRJWRD and the RRWMB have agreed to fund TASK 3 items, and technical guidance throughout the project.

NORTH Dakota | Water Commission & State Engineer
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INTEROFFICE MEMORANDUM

TO: John Paczkowski, P.E., Interim Chief Engineer-Secretary
Sarah Felchle, Accountant, Administrative Services
FROM: Patrick Fridgen, Director, Planning and Education
SUBJECT: NDSWC Cost-Share Request — Red River Joint Water Resource District
Lower Red River Regional Detention Study
DATE: October 26, 2020

The Red River Joint Water Resource District (Sponsor) has requested additional cost-share for their Lower Red River Regional Detention Study.

The study will analyze the regional benefit provided to the Red River mainstem for distributed storage within the US portion of the Red River watershed. The goal of the study is to determine the extent of tributary storage necessary to attain a 20 percent reduction of peak flows on the Red River mainstem.

The original cost estimate was $130,000. The Chief Engineer approved $45,000 in cost-share at 35 percent of eligible costs on July 13, 2015. The updated cost estimate is now $222,585. Additional costs are due in part to the added analyses of 200-year and 500-year events.

The total cost of the overrun is $92,585. The Sponsor is requesting an additional cost-share of $32,905 in state funds as a hydrologic study. The recommendation is a cost-share of $32,905 at 35 percent of the eligible costs. The total cost-share approved would then be $77,905.

This project meets the requirements of the Water Commission's cost-share policy. Therefore, I recommend the Chief Engineer approve this cost overrun request for funding by Red River Joint Water Resource District for an additional $32,905 at 35 percent of eligible costs which would be a total cost-share of $77,905. The additional funding will come from carryover funds. This approval is subject to the availability of funds.

Approval Signature and Date John A Paczkowski 11/03/2020

PF:JSP:BN/2055

Sargent County Water Resource District

355 Main Street S, Suite 1
Forman ND 58032
Phone: (701) 724-6241 Ext 113
FAX: (701) 724-6244

Lucas Siemieniewski, Geneseo
Bruce Speich, Milnor
Michael Wyum, Rutland
Todd Stein, Cogswell
Roger Zetocha, Stirum

August 23rd, 2024

Abigail Franklund
Cost-Share Program Manager
ND Department of Water Resources

Re: Shortfoot Creek Watershed Planning Program Status Update

Dear Abigail,

The Shortfoot Creek Watershed Planning Program has been progressing since the approval of cost-share in March of 2016 by the North Dakota State Water Commission ("Commission"). The project team has selected a final alternative to proceed to preliminary design. A draft of the watershed plan has been prepared and preliminary design has been completed. The project has taken longer than originally anticipated as we have had to work with the NRCS to navigate the federal requirements for the plan including adding requested environmental enhancements to the proposed project.

In the spring of this year an exemption request was submitted to the NRCS as part of the draft plan. The exemption request is required to ensure future NRCS funding if the project proceeds to final design and construction. The NRCS approved the exemption request on August 8th, 2024.

The planning effort will now move forward. The NRCS will place the project on their federal registry which includes a public comment period. Once that period is over the District will hold a final public hearing tentatively planned for December of 2024. Comments from landowners and agencies will then be incorporated into the watershed plan for final submittal. It is anticipated that the final plan will be submitted to the NRCS by spring of 2025. Once the final plan is approved by NRCS the project under the current cost share agreement with the Commission will be completed.

If the project proceeds to final design and construction the District may apply for additional cost share from the Commission in accordance with the Commission's cost share policy. If you have any questions, please feel free to contact our project engineer Nathan Trosen, Moore Engineering, Inc., or myself.

Respectfully,

Wendy Willprecht

Wendy Willprecht
Secretary, Sargent County Water Resource District

North Dakota State Water Commission

900 EAST BOULEVARD AVENUE, DEPT 770 • BISMARCK, NORTH DAKOTA 58505-0850
701-328-2750 • TTY 800-366-6888 • FAX 701-328-3696 • INTERNET: http://swc.nd.gov

Agenda E12)
March 9, 2016
Approved As Recommended

MEMORANDUM

TO: Governor Jack Dalrymple
Members of the State Water Commission
FROM: Todd Sando, PE, Chief Engineer - Secretary
SUBJECT: NDSWC Cost-Share Request – Sargent County Water Resource District
Shortfoot Creek Watershed Planning Program
DATE: March 9, 2016

In their correspondence dated February 4, 2016, the Sargent County Water Resource District requested state cost-share participation for their Shortfoot Creek Watershed Planning Program.

Rural areas along the Shortfoot Creek have experienced significant flooding damages, particularly as a result of spring snowmelt events. The project, located in Sargent County, will follow the Natural Resource Conservation Service (NRCS) small watershed planning process to find solutions to the flooding problems in this watershed. The proposed planning process will have 6 milestone reporting points with the NRCS. The approach will involve the creation of project development teams tasked with identifying the local problems facing the watershed and sorting through practical alternatives for addressing those problems. Multiple alternatives will be identified by the team and preliminary designs, geotechnical investigations and cost estimates will be completed for these multiple alternatives. Then a comprehensive Benefit-Cost analysis will be performed for these alternatives. The team's findings will be presented to the Sargent County Water Resource District and local stakeholders for consideration for further advancement of the project. NRCS will also approve the final watershed plan and Environmental Assessment (EA) as well as provide $500,000 of the funding for the project.

The estimated total cost of the Shortfoot Creek Watershed Planning Program is $940,000, of which $440,000 is eligible for cost share assistance as a study project at 35 percent, for an amount not to exceed $154,000 in state funds.

I recommend that the State Water Commission approve this request by the Sargent County Water Resource District for state cost participation in the District's Shortfoot Creek Watershed Planning Program, at an amount not to exceed $154,000. This approval is subject to the entire contents of the recommendation contained herein, obtaining all applicable permits and availability of funds.

TS:bn/1303

August 23, 2024

Julie Prescott
Cost-Share Program Manager
ND Department of Water Resources
900 East Boulevard Avenue
Bismarck, ND 58505

RE: Killdeer HWBL Water Expansion – SWC Update Report

Ms. Prescott,

Please consider this a written report regarding the City of Killdeer's intentions to utilize grant funds related to the Killdeer HWBL Water Expansion Project. The City of Killdeer hired AE2S to complete preliminary engineering of the HWBL project in March 2021, and it was completed in February 2022.

Since February of 2022, the project has been on hold for a few reasons. The City of Killdeer has debated whether to add more improvements to the project including a new concrete road, storm sewer, and sanitary sewer. In addition, the Killdeer City Commission has experienced a turnover of 4 new commissioners since 2022. Lastly, the city has had many other improvement projects going on in town that have taken time and attention away from this project. It is the City of Killdeer's intention to continue to utilize grand funds related to the HWBL Water Expansion. The current project implementation schedule is shown in the table below.

Killdeer HWBL Project Implementation Schedule		
Task	**Proposed Completion Date**	**SWC Grant**
Preliminary Engineering	Mar 2021 - Feb 2022	$30,000.00
Final Design	Aug 2024 - Fall 2025	$60,000.00
Project Bidding/Award	Fall 2025 - Spring 2026	$20,000.00
Construction/Construction Engineering	Spring 2026 - Fall 2027	**TBD**
		$110,000.00

It is also the City of Killdeer's intention to provide an update and request for additional funding for construction and construction engineering services once final design and bidding are complete.

With your continued support, the City of Killdeer looks forward to completing this important project throughout 2025-2026. Should you have any questions or require additional information, please do not hesitate to contact me at 701-764-5295 or Eric Lothspeich of AE2S at 701-221-0530.

Sincerely,

Matt Oase
City Administrator
City of Killdeer

NORTH Dakota | Water Commission

Be Legendary.™

Commission Date : 2/11/21
Commission Action : Approved (cfitzgerald)

Approved at 60 percent of eligible pre-construction costs, not to exceed $75,000.

MEMORANDUM

TO: Governor Doug Burgum
Members of the State Water Commission
FROM: John Paczkowski, P.E., Interim Chief Engineer-Secretary
SUBJECT: State Water Supply – Killdeer HWBL Water Expansion
DATE: January 27, 2021

The City of Killdeer (City) is requesting cost-share for the construction of 6,200-feet of 10-inch water main to meet the water needs of the HBWL industrial subdivision located south of the City and north of Highway 200. The subdivision is currently served through wells. Also, the new pipeline would provide a secondary watermain for additional fire flow to a currently served area directly south of the subdivision.

The life cycle cost analysis considered two alternatives: one is to extend an existing 10-inch pipeline to provide service to the area, and the second would be a no build alternative in which the area would continue using well service. The preferred alternative of extending the pipeline into the HBWL subdivision has a capital cost of $1,228,000. This option also provides additional fire flows for the existing service area to the south.

With eight industrial users identified for this project, the present value cost per user is $163,500. If the project is funded with a loan, at 2 percent over 20 years, the current user payment increase would be $776.53 per month and $310.61 per month with 60 percent cost-share. The current municipal user rate for 5,000 gallons is $40, with a base monthly water rate of $7.06, and $6.56 per 1.000 gallons used. For municipalities included in the 2019 Water Development Plan with a population up to 10,000, the average rate is $50 for 5,000 gallons. Killdeer serves 1,147 people (569 users) and had an annual population growth rate of 6.6 percent since 2010.

The project is to be designed in 2021, bid in spring 2022, begin construction in summer 2022, and be completed in fall 2022. The estimated total project cost is $1,228,000, with ineligible administrative and legal costs of $44,000, leaving an eligible cost of $1,184,000, and 60 percent cost-share of $710,000. The local share would be from the City's cash reserves. Pre-construction costs are estimated at $124,900, with 60 percent cost-share at $75,000. The project is not due to be bid for construction until spring 2022. Therefore, only a recommendation for pre-construction costs is currently being put forward.

The project is in the 2019 Water Development Plan, is a moderate priority, and meets requirements of the Water Commission's cost-share policy for municipal water supply projects. Therefore, I recommend approval of this request from the City of Killdeer for state cost-share participation at 60 percent of eligible pre-construction costs, not to exceed $75,000. This approval is contingent on available funding for the 2019-2021 biennium.

JP:JM:ln/2050KIL

Water Development Plan: No

DWR Date Received : 9/3/24

G 1

1083884 - Maple River Low Head Dam

Application Details

Funding Opportunity:
1083251-State Fiscal Year 2024-2025 Infrastructure Request

Funding Opportunity Due Date: Jun 30, 2025 3:00 PM

Program Area:
Funding for Infrastructure in ND - FIND

Status: Under Review

Stage: Final Application

Initial Submit Date: Aug 26, 2024 3:23 PM

Initially Submitted By: Melissa Hinkemeyer

Last Submit Date: Sep 3, 2024 11:25 AM

Last Submitted By: Josh Wayt

Contact Information

Primary Contact Information

Active User*: Yes

Type: External User

Name: Salutation Josh First Name Middle Name

Wayt
Last Name

Title: Funding Specialist

Email*:
josh.wayt@mooreengineeringinc.com

Address*: 925 10th Ave E

Suite 1

West Fargo City North Dakota State/Province

58078
Postal Code/Zip

Phone*: (701) 200-5455 Ext.
Phone
###-###-####

Fax: ###-###-####

Organization Information

Status*: Approved

Name*: Maple River Water Resource District

Organization Type*: Political Subdivision

Tax Id: 45-0357490

Organization Website:

Address*: 1201 Main Avenue W

West Fargo City North Dakota State/Province

58078-____
Postal Code/Zip

Phone*: (701) 298-2381 Ext.
###-###-####

Fax: ###-###-####

Vendor ID:

Comments:

PeopleSoft Supplier ID:

Comments:

Location Code:

Infrastructure Funding Request

Infrastructure Funding Request

Project, Program, or Study Name*: Maple River Low Head Dam

Sponsor(s)*: Maple River Water Resource District

County*: Cass

City*: West Fargo

Description of Request*: New

If Study, What Type: Other

If Project/Program, What Type: DAM Safety/EAP

Jurisdictions/Stakeholders Involved*:

Maple River Water Resource District

Describe the Problem*:

The structure is a low head dam which can create a hazardous hydraulic roller effect on the downstream side of the dam. Anyone in the vicinity of the dam when a hydraulic roller is present is at increased risk of drowning. Low head dams are also known to block fish passage and inhibit biodiversity of the river.

Provide Project Details, Objectives and Solutions to Address Problem*:

The project will replace the low head dam with a rock riffle structure that holds both upstream and downstream water elevations. The purpose of the project is to eliminate the safety hazard of the hydraulic roller effect that can occur on the downstream side of the low head dam. While improved fish passage will likely be an additional result of the project, the design will not include a separate fish passage structure.

For this project,

Choose City, County, Water District or Other*: Water District

What is the Current Estimated Population?*: 50000

For this project,

What is the Benefited Population?*: 50000

Have Assessment Districts Been Formed?*: No

Have Land or Easements Been Acquired?*: No

Are There Any Properties with Wells, Drain Fields, or Holding Tanks Within the Project Area That Will Benefit from the Project?*:	No
Are There Any Road Improvements Included as Part of the Project?*:	No
Have You Applied For Any Federal Permits?*:	N/A
Have You Applied for any State Permits?*:	No
Have You Applied for any Local Permits?*:	No
Do You Expect Any Obstacles to Implementation (i.e. Problems with Land Acquisition, Permits, Funding, Local Opposition, Environmental Concerns, etc.)?*:	No
Have You Received, or Do You Anticipate Receiving Federal Funding? (Example: Hazard Mitigation Grant Program) ***:**	No

Implementation Timelines

Enter Start Date, Estimated Start Date or Not Applicable.

Study Completion*:	12/31/2024
Design Completion*:	8/1/2025
Bid*:	2/1/2026
Construction Start*:	6/1/2026
Construction Completion*:	3/1/2027

Explain Additional Timeline Issues*:

We would like to provide the contractor with a large enough construction window to work in a lower flow period. Depending on precipitation, the construction timeframe may vary.

Consulting Engineer*:	Alexa Ducioame
Engineer Telephone Number*:	701-551-1020
Engineer Email*:	alexa.ducioame@mooreengineeringinc.com

Certification (Must Be Completed by Project Sponsor)

Submitted by*:	Melissa	Hinkemeyer	08/26/2024
	First Name	Last Name	Date

Address*:	1201 Main Avenue W Address Line 1 Address Line 2 West Fargo (City) North Dakota (State) 58078-1301 (Zip Code)
Telephone Number*:	701-298-2381
Sponsor Email*:	hinkemeyerm@casscountynd.gov
I Certify That, to the Best of My Knowledge, the Provided Information is True and Accurate, and in Execution of This Project, the Sponsor Will Follow All Applicable Laws and Permitting Requirements. I Further Certify Assurance of Sustainable Operation, Maintenance, and Replacement of The Assets For Which We Are Requesting Cost-Share.*:	Yes
Authorized Individual*:	Melissa (First Name) Hinkemeyer (Last Name) 08/26/2024 (Date)
Title/Position/Authority*:	Secretary

Documentation

Documentation

Project in Extraterritorial Jurisdiction? If Yes, Add Boundary to Project Specific Map.*:	No
CLICK HERE **to see examples.**	
Project Specific Map Must Include Project Location in State Using an Inset Map and Distance/Direction to Nearest Community ***:**	24228_ProjectLocation.pdf
Are You Seeking SRF or IRLF Funding?*:	No
Are You Seeking Department of Water Resources Cost-Share?*:	Yes
Are You Seeking Cost-Share for a Main Street Initiative Related Project?:	No

CLICK HERE **for SFN 61801 Delineation of Costs Instructions and Current Version.**

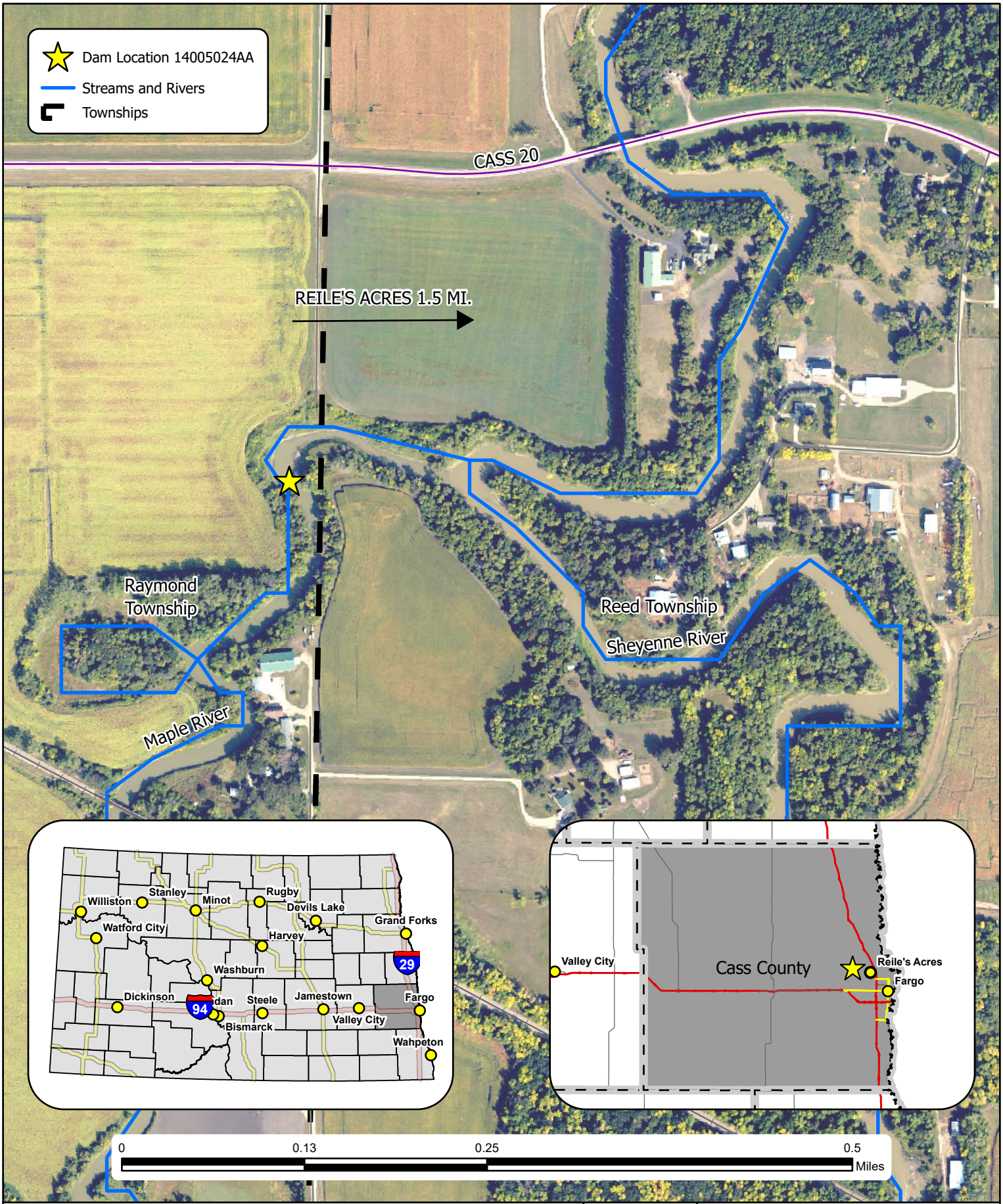
Delineation of Costs SFN 61801:	24228_sfn_61801_delineation_of_cost_20240903.xlsx
Type of Request:	Preconstruction
Water Supply Projects?:	No
Rural Flood Control?:	No
Drain Reconstructions?:	No
Flood Recovery Property Acquisition?:	No
Community Flood Control, Rural Flood Control, Bank Stabilization, or Snag & Clear Project With Total Cost of $200,000 or More?:	No
Sovereign Land Permit, if Required:	
DWR Construction Permit, if Required:	
Conditional Letter of Map Revision (CLOMR), if Required:	
Feasibility/Engineering Study for the Proposed Project:	No
Photos of Problem/Issue:	
Other Applicable Document(s):	Yes
Other Applicable Document:	Maple Low Head Dam Letter.pdf
Other Applicable Document:	24228_Cost_Estimate.pdf
Other Applicable Document:	2024-08-26 - MRWRD - Low Head Dam Cost-Share Request Cover Letter.pdf

Sources

Project Funding Sources - Include All Funding Sources for the Project (Should Equal Project Cost)

Source	If Other, Specify Funding Source	Source Status	State Fiscal Year 1 July to June	State Fiscal Year 2 July to June	Beyond Current Biennium	Total Cost	Type	Term	Interest Rate
Department of Water Resources Cost Share Pre-Construction		Current Request	$178,875.00	$0.00	$0.00	$178,875.00		0.00	0.00
Other	Local Funding		$94,625.00	$0.00	$0.00	$94,625.00		0.00	0.00
			$273,500.00	**$0.00**	**$0.00**	**$273,500.00**			

DWR Date Received : 8/26/24



24228 - MAPLE RIVER LOW HEAD DAM
ND DWR COST SHARE REQUEST
CASS COUNTY, NORTH DAKOTA

Created By: ZAC Date Created: 08/19/2024 Date Saved: 08/21/24 Date Plotted: N/A Date Exported: 08/21/24
Plotted By: Parcel Date: XX/XX/20 Aerial Image: 2022 County NAIP SIDS Elevation Data: Lidar
Horizontal Datum: WGS 1984 Web Mercator Auxiliary Sphere Vertical Datum: NAVD1988
T:\Projects\24200\24228\24228_MRWRD_Dam.aprx

N W E S

moore engineering, inc.

DELINEATION OF COSTS
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES
PLANNING AND EDUCATION
SFN 61801 (7/2024)

DWR Date Received : September 03, 2024

Project:	Maple River Low Head Dam
Sponsor:	Maple River Water Resource District
Contact:	Melissa Hinkemeyer; Director, Secretary
Phone:	(701) 298-2384
Engineer:	Alexa Ducioame, Moore Engineering, Inc.
Phone:	(701) 282-4692

Total Cost :	$ 273,500
Ineligible Cost :	$ 35,000
Eligible Cost :	$ 238,500
Local Cost :	$ 94,625

Date: September 3, 2024

	Cost-Share $
	$ 178,875
Preconstruction :	$ 178,875
Construction :	$ -

Project Type:	**Cost-share %**
Dam - Low Head Roller Effect	75%

Item	%	Cost Classification	Quantities	Unit	Unit Price	Total	Cost-Share %	Cost-Share $ *
		Construction Costs						
1	#DIV/0!	Mobilization	0		-	$ -	75%	$ -
2	#DIV/0!	Bonding	0		-	$ -	75%	$ -
3	#DIV/0!	Insurance	0		-	$ -	75%	$ -
4	#DIV/0!		0		-	$ -	75%	$ -
5	#DIV/0!		0		-	$ -	75%	$ -
6	#DIV/0!		0		-	$ -	75%	$ -
7	#DIV/0!		0		-	$ -	75%	$ -
8	#DIV/0!		0		-	$ -	75%	$ -
9	#DIV/0!		0		-	$ -	75%	$ -
10	#DIV/0!		0		-	$ -	75%	$ -
11	#DIV/0!		0		-	$ -	75%	$ -
12	#DIV/0!		0		-	$ -	75%	$ -
13	#DIV/0!		0		-	$ -	75%	$ -
14	#DIV/0!		0		-	$ -	75%	$ -
15	#DIV/0!		0		-	$ -	75%	$ -
16	#DIV/0!		0		-	$ -	75%	$ -
17	#DIV/0!		0		-	$ -	75%	$ -
18	#DIV/0!		0		-	$ -	75%	$ -
19	#DIV/0!		0		-	$ -	75%	$ -
20	#DIV/0!		0		-	$ -	75%	$ -
21	#DIV/0!		0		-	$ -	75%	$ -
22	#DIV/0!		0		-	$ -	75%	$ -
23	#DIV/0!		0		-	$ -	75%	$ -
24	#DIV/0!		0		-	$ -	75%	$ -
25	#DIV/0!		0		-	$ -	75%	$ -
26	#DIV/0!		0		-	$ -	75%	$ -
		Construction Sub-Total				$ -	75%	$ -
	0.0%	**Contingency**				$ -	75%	$ -
	0.0%	**Construction Total**				$ -	75%	$ -
		Preconstruction Costs						
27	#DIV/0!	Final Design	1	LS	126,000.00	$ 126,000	75%	$ 94,500
28	#DIV/0!	Geotechnical Investigations	1	LS	45,000.00	$ 45,000	75%	$ 33,750
29	#DIV/0!	Other Precon Engineering (Permitting)	1	LS	35,000.00	$ 35,000	75%	$ 26,250
30	#DIV/0!	Survey and Monumenting (Pre-Construc	1	LS	20,000.00	$ 20,000	75%	$ 15,000
31	#DIV/0!		0		-	$ -	75%	$ -
	82.6%	**Preconstruction Total**				$ 226,000	75%	$ 169,500
		Construction Engineering Costs						
32	#DIV/0!		0		-	$ -	75%	$ -
33	#DIV/0!		0		-	$ -	75%	$ -
34	#DIV/0!		0		-	$ -	75%	$ -
35	#DIV/0!		0		-	$ -	75%	$ -
36	#DIV/0!		0		-	$ -	75%	$ -
	0.0%	**Construction Engineering Total**				$ -	75%	$ -
		Other Eligible Costs						
37	0.0%		0			$ -	75%	$ -
38	2.7%	Legal Fees	1	LS	7,500.00	$ 7,500	75%	$ 5,625
39	1.8%	Utility Relocation	1	LS	5,000.00	$ 5,000	75%	$ 3,750
40	0.0%		0		-	$ -	75%	$ -
41	0.0%		0		-	$ -	75%	$ -
	4.6%	**Other Eligible Total**				$ 12,500	75%	$ 9,375
		In-eligible Costs						
42	5.5%	Administrative	1	LS	15,000.00	$ 15,000	0%	$ -
43	7.3%	ROW Acquisition	1	LS	20,000.00	$ 20,000	0%	$ -
44	0.0%		0		-	$ -	0%	$ -
45	0.0%		0		-	$ -	0%	$ -
	12.8%	**Other Ineligible Total**				$ 35,000	0%	$ -
	100.0%	**Total**				$ 273,500		
		Eligible Total				$ 238,500	75%	$ 178,875
		Federal or State Funds That Supplant Costs				$ -		
		Eligible Cost Total				$ 238,500	75%	$ 178,875

* The cost-share estimate is purely for planning and informational purposes only and does not, in any way, guarantee a financial commitment to any degree, from the State Water Commission.

DWR Date Received : 8/26/24

CASS COUNTY GOVERNMENT

August 26, 2024

Maple River
Water Resource
District

Gerald Melvin
Chairman
Buffalo, North Dakota

Chad Miller
Manager
Buffalo, North Dakota

Vacant
Manager

Attention: Beth Nangare
Cost Share Program Administrator
North Dakota Department of Water Resources
1200 Memorial Highway
Bismarck, ND 58505-0850

Dear Beth:

RE: 24228 Maple River Low Head Dam Funding Request

The Maple River Water Resource District (WRD) is initiating a project to modify the existing low head dam "ND No Name Dam 227" (the Dam), located in Cass County. This project will modify the Dam to reduce potential public safety risk due to the hydraulic roller effect which occurs under the right flow conditions.

The WRD has contracted with Moore Engineering Inc. (MEI) to design a rock riffle modification to the Dam and respectfully requests 75% cost share for the project design. MEI will develop the design based on geotechnical evaluations and hydraulic analysis of the structure.

Upon completion of the plans, the WRD will submit a construction funding request. We appreciate your willingness to support this project and help mitigate the public dangers associated with low head dams.

If you have any questions, please feel free to contact us or our project engineer, Alexa Ducioame, Moore Engineering, Inc., at 701-282-4692.

Thank you.

Sincerely,

MAPLE RIVER WATER RESOURCE DISTRICT

Melissa Hinkemeyer

Melissa Hinkemeyer
Director, Secretary

Melissa Hinkemeyer
Director, Secretary

Leilei Bao
Treasurer

1201 Main Avenue West
West Fargo, ND 58078-
1301

701-298-2381
FAX 701-298-2397
wrd@casscountynd.gov
www.casscountynd.gov

Water Development Plan: No

DWR Date Received : 9/3/24

G 2

1083886 - Wild Rice River Low Head Dam

Application Details

Funding Opportunity:
1083251-State Fiscal Year 2024-2025 Infrastructure Request

Funding Opportunity Due Date: Jun 30, 2025 3:00 PM

Program Area:
Funding for Infrastructure in ND - FIND

Status: Under Review

Stage: Final Application

Initial Submit Date: Aug 26, 2024 3:34 PM

Initially Submitted By: Melissa Hinkemeyer

Last Submit Date: Sep 3, 2024 11:21 AM

Last Submitted By: Josh Wayt

Contact Information

Primary Contact Information

Active User*: Yes

Type: External User

Name: Salutation Josh First Name Middle Name
Wayt Last Name

Title: Funding Specialist

Email*:
josh.wayt@mooreengineeringinc.com

Address*: 925 10th Ave E
Suite 1
West Fargo City North Dakota State/Province
58078 Postal Code/Zip

Phone*: (701) 200-5455 Ext.
Phone
###-###-####

Fax: ###-###-####

Organization Information

Status*: Approved

Name*:
Southeast Cass Water Resource District

Organization Type*: Political Subdivision

Tax Id: 45-0356081

Organization Website:

Address*: 1201 Main Avenue West
West Fargo City North Dakota State/Province
58078-1301 Postal Code/Zip

Phone*: (701) 298-2381 Ext.
###-###-####

Fax: ###-###-####

Vendor ID:

Comments:

PeopleSoft Supplier ID:

Comments:

Location Code:

Infrastructure Funding Request

Infrastructure Funding Request

Project, Program, or Study Name*:	Wild Rice River Low Head Dam
Sponsor(s)*:	Southeast Cass Water Resource District
County*:	Cass
City*:	Fargo
Description of Request*:	New
If Study, What Type:	Other
If Project/Program, What Type:	DAM Safety/EAP

Jurisdictions/Stakeholders Involved*:

Southeast Cass Water Resource District

Describe the Problem*:

The structure is a low head dam which can create a hazardous hydraulic roller effect on the downstream side of the dam. Anyone in the vicinity of the dam when a hydraulic roller is present is at increased risk of drowning. Low head dams are also known to block fish passage and inhibit biodiversity of the river.

Provide Project Details, Objectives and Solutions to Address Problem*:

The project will replace the low head dam with a rock riffle structure that holds both upstream and downstream water elevations. The purpose of the project is to eliminate the safety hazard of the hydraulic roller effect that can occur on the downstream side of the low head dam. While improved fish passage will likely be an additional result of the project, the design will not include a separate fish passage structure.

For this project,

Choose City, County, Water District or Other*:	Water District
What is the Current Estimated Population?*:	50000

For this project,

What is the Benefited Population?*:	50000
Have Assessment Districts Been Formed?*:	No
Have Land or Easements Been Acquired?*:	No

Are There Any Properties with Wells, Drain Fields, or Holding Tanks Within the Project Area That Will Benefit from the Project?*:	No
Are There Any Road Improvements Included as Part of the Project?*:	No
Have You Applied For Any Federal Permits?*:	N/A
Have You Applied for any State Permits?*:	No
Have You Applied for any Local Permits?*:	No
Do You Expect Any Obstacles to Implementation (i.e. Problems with Land Acquisition, Permits, Funding, Local Opposition, Environmental Concerns, etc.)?*:	No
Have You Received, or Do You Anticipate Receiving Federal Funding? (Example: Hazard Mitigation Grant Program) ***:**	No

Implementation Timelines

Enter Start Date, Estimated Start Date or Not Applicable.

Study Completion*:	12/31/2024
Design Completion*:	8/1/2025
Bid*:	2/1/2026
Construction Start*:	6/1/2026
Construction Completion*:	3/1/2027

Explain Additional Timeline Issues*:

We would like to provide the contractor with a large enough construction window to work in a lower flow period. Depending on precipitation, the construction timeframe may vary.

Consulting Engineer*:	Alexa Ducioame
Engineer Telephone Number*:	701-551-1020
Engineer Email*:	alexa.ducioame@mooreengineeringinc.com

Certification (Must Be Completed by Project Sponsor)

Submitted by*:	Melissa	Hinkemeyer	08/26/2024
	First Name	Last Name	Date

Address*:	1201 Main Avenue W Address Line 1 Address Line 2 West Fargo (City) North Dakota (State) 58078-1301 (Zip Code)
Telephone Number*:	701-298-2381
Sponsor Email*:	hinkemeyerm@casscountynd.gov
I Certify That, to the Best of My Knowledge, the Provided Information is True and Accurate, and in Execution of This Project, the Sponsor Will Follow All Applicable Laws and Permitting Requirements. I Further Certify Assurance of Sustainable Operation, Maintenance, and Replacement of The Assets For Which We Are Requesting Cost-Share.*:	Yes
Authorized Individual*:	Melissa (First Name) Hinkemeyer (Last Name) 08/26/2024 (Date)
Title/Position/Authority*:	Secretary

Documentation

Documentation

Project in Extraterritorial Jurisdiction? If Yes, Add Boundary to Project Specific Map.*:	No
CLICK HERE **to see examples.**	
Project Specific Map Must Include Project Location in State Using an Inset Map and Distance/Direction to Nearest Community ***:**	24177_ProjectLocation.pdf
Are You Seeking SRF or IRLF Funding?*:	No
Are You Seeking Department of Water Resources Cost-Share?*:	Yes
Are You Seeking Cost-Share for a Main Street Initiative Related Project?:	No

CLICK HERE **for SFN 61801 Delineation of Costs Instructions and Current Version.**

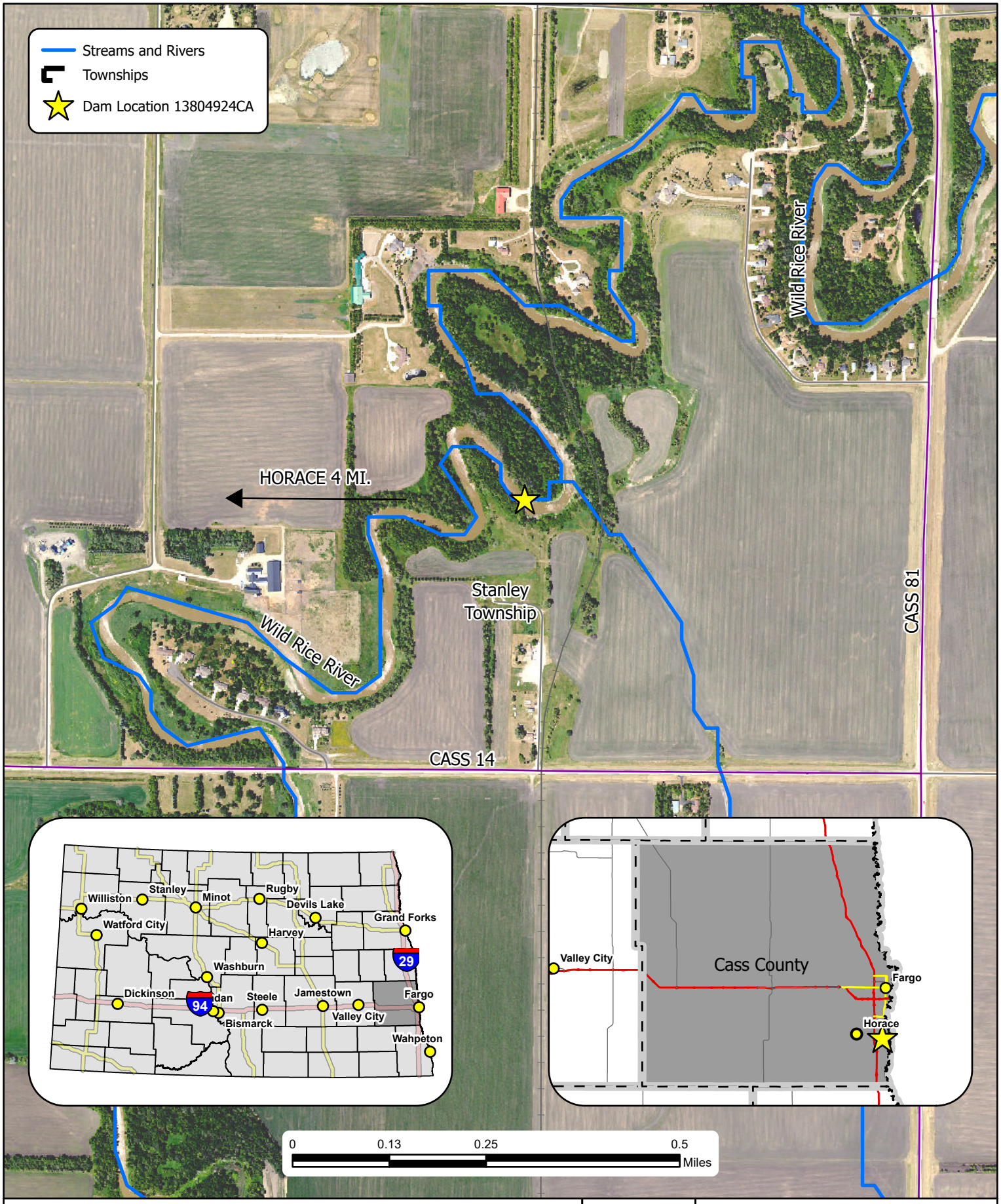
Delineation of Costs SFN 61801:	24177_sfn_61801_delineation_of_cost_20240903.xlsx
Type of Request:	Preconstruction
Water Supply Projects?:	No
Rural Flood Control?:	No
Drain Reconstructions?:	No
Flood Recovery Property Acquisition?:	No
Community Flood Control, Rural Flood Control, Bank Stabilization, or Snag & Clear Project With Total Cost of $200,000 or More?:	No
Sovereign Land Permit, if Required:	
DWR Construction Permit, if Required:	
Conditional Letter of Map Revision (CLOMR), if Required:	
Feasibility/Engineering Study for the Proposed Project:	No
Photos of Problem/Issue:	
Other Applicable Document(s):	Yes
Other Applicable Document:	SE Cass Low Head Dam Letter.pdf
Other Applicable Document:	24177_Cost_Estimate.pdf
Other Applicable Document:	

2024-08-26 - SECWRD Wild Rice Low Head Dam Cost-Share Request Cover Letter.pdf

Sources

Project Funding Sources - Include All Funding Sources for the Project (Should Equal Project Cost)

Source	If Other, Specify Funding Source	Source Status	State Fiscal Year 1 July to June	State Fiscal Year 2 July to June	Beyond Current Biennium	Total Cost	Type	Term	Interest Rate
Department of Water Resources Cost Share Pre-Construction		Current Request	$209,625.00	$0.00	$0.00	$209,625.00		0.00	0.00
Other	Local Funding		$104,875.00	$0.00	$0.00	$104,875.00		0.00	0.00
			$314,500.00	**$0.00**	**$0.00**	**$314,500.00**			



24177 - WILD RICE RIVER LOW HEAD DAM
ND DWR COST SHARE REQUEST
CASS COUNTY, NORTH DAKOTA

Created By: ZAC Date Created: 08/19/2024 Date Saved: 08/21/24 Date Plotted: N/A Date Exported: 08/21/24
Plotted By: Parcel Date: XX/XX/20 Aerial Image: 2022 County NAIP SIDS Elevation Data: Lidar
Horizontal Datum: WGS 1984 Web Mercator Auxiliary Sphere Vertical Datum: NAVD1988
T:\Projects\24100\24177\24177_SECWRD_Dam.aprx

N W E S

moore engineering, inc.

DELINEATION OF COSTS
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES
PLANNING AND EDUCATION
SFN 61801 (7/2024)

DWR Date Received : September 03, 2024

Project:	Wild Rice River Low Head Dam
Sponsor:	Southeast Cass Water Resource District
Contact:	Melissa Hinkemeyer; Director, Secretary
Phone:	(701) 298-2384
Engineer:	Alexa Ducioame, Moore Engineering, Inc.
Phone:	(701) 282-4692

Total Cost :	$ 314,500
Ineligible Cost :	$ 35,000
Eligible Cost :	$ 279,500
Local Cost :	$ 104,875

Date: September 3, 2024

	Cost-Share $
Preconstruction :	$ 209,625
Construction :	$ -

Project Type:	**Cost-share %**
Dam - Low Head Roller Effect	75%

Item	%	Cost Classification	Quantities	Unit	Unit Price	Total	Cost-Share %	Cost-Share $ *
		Construction Costs						
1	#DIV/0!	Mobilization	0		-	$ -	75%	$ -
2	#DIV/0!	Bonding	0		-	$ -	75%	$ -
3	#DIV/0!	Insurance	0		-	$ -	75%	$ -
4	#DIV/0!		0		-	$ -	75%	$ -
5	#DIV/0!		0		-	$ -	75%	$ -
6	#DIV/0!		0		-	$ -	75%	$ -
7	#DIV/0!		0		-	$ -	75%	$ -
8	#DIV/0!		0		-	$ -	75%	$ -
9	#DIV/0!		0		-	$ -	75%	$ -
10	#DIV/0!		0		-	$ -	75%	$ -
11	#DIV/0!		0		-	$ -	75%	$ -
12	#DIV/0!		0		-	$ -	75%	$ -
13	#DIV/0!		0		-	$ -	75%	$ -
14	#DIV/0!		0		-	$ -	75%	$ -
15	#DIV/0!		0		-	$ -	75%	$ -
16	#DIV/0!		0		-	$ -	75%	$ -
17	#DIV/0!		0		-	$ -	75%	$ -
18	#DIV/0!		0		-	$ -	75%	$ -
19	#DIV/0!		0		-	$ -	75%	$ -
20	#DIV/0!		0		-	$ -	75%	$ -
21	#DIV/0!		0		-	$ -	75%	$ -
22	#DIV/0!		0		-	$ -	75%	$ -
23	#DIV/0!		0		-	$ -	75%	$ -
24	#DIV/0!		0		-	$ -	75%	$ -
25	#DIV/0!		0		-	$ -	75%	$ -
26	#DIV/0!		0		-	$ -	75%	$ -
		Construction Sub-Total				$ -	75%	$ -
	0.0%	**Contingency**				$ -	75%	$ -
	0.0%	**Construction Total**				$ -	75%	$ -
		Preconstruction Costs						
27	#DIV/0!	Final Design	1	LS	167,000.00	$ 167,000	75%	$ 125,250
28	#DIV/0!	Geotechnical Investigations	1	LS	45,000.00	$ 45,000	75%	$ 33,750
29	#DIV/0!	Other Precon Engineering (Permitting)	1	LS	35,000.00	$ 35,000	75%	$ 26,250
30	#DIV/0!	Survey and Monumenting (Pre-Construc	1	LS	20,000.00	$ 20,000	75%	$ 15,000
31	#DIV/0!		0		-	$ -	75%	$ -
	84.9%	**Preconstruction Total**				$ 267,000	75%	$ 200,250
		Construction Engineering Costs						
32	#DIV/0!		0		-	$ -	75%	$ -
33	#DIV/0!		0		-	$ -	75%	$ -
34	#DIV/0!		0		-	$ -	75%	$ -
35	#DIV/0!		0		-	$ -	75%	$ -
36	#DIV/0!		0		-	$ -	75%	$ -
	0.0%	**Construction Engineering Total**				$ -	75%	$ -
		Other Eligible Costs						
37	0.0%		0			$ -	75%	$ -
38	2.4%	Legal Fees	1	LS	7,500.00	$ 7,500	75%	$ 5,625
39	1.6%	Utility Relocation	1	LS	5,000.00	$ 5,000	75%	$ 3,750
40	0.0%		0		-	$ -	75%	$ -
41	0.0%		0		-	$ -	75%	$ -
	4.0%	**Other Eligible Total**				$ 12,500	75%	$ 9,375
		In-eligible Costs						
42	4.8%	Administrative	1	LS	15,000.00	$ 15,000	0%	$ -
43	6.4%	ROW Acquisition	1	LS	20,000.00	$ 20,000	0%	$ -
44	0.0%					$ -	0%	$ -
45	0.0%					$ -	0%	$ -
	11.1%	**Other Ineligible Total**				$ 35,000	0%	$ -
	100.0%	**Total**				$ 314,500		
		Eligible Total				$ 279,500	75%	$ 209,625
		Federal or State Funds That Supplant Costs				$ -		
		Eligible Cost Total				$ 279,500	75%	$ 209,625

* The cost-share estimate is purely for planning and informational purposes only and does not, in any way, guarantee a financial commitment to any degree, from the State Water Commission.

DWR Date Received : 8/26/24

CASS COUNTY GOVERNMENT

August 26, 2024

Southeast Cass Water Resource District

Keith Weston
Chairman
Fargo, North Dakota

Dave Branson
Manager
Fargo, North Dakota

Rick Steen
Manager
Fargo, North Dakota

Melissa Hinkemeyer
Director, Secretary

Leilei Bao
Treasurer

1201 Main Avenue West
West Fargo, ND 58078

701-298-2381
FAX 701-298-2397
wrd@casscountynd.gov
www.casscountynd.gov

Attention: Beth Nangare
Cost Share Program Administrator
North Dakota Department of Water Resources
1200 Memorial Highway
Bismarck, ND 58505-0850

Dear Beth:

RE: 24177 Wild Rice River Low Head Dam Funding Request

The Southeast Cass Water Resource District (WRD) is initiating a project to modify the existing low head dam "Wild Rice Dam (Cass County)" (the Dam), located in Cass County. This project will modify the Dam to reduce potential public safety risk due to the hydraulic roller effect which occurs under the right flow conditions.

The WRD has contracted with Moore Engineering Inc. (MEI) to design a rock riffle modification to the Dam and respectfully requests 75% cost share for the pre-construction work. MEI will develop the design based on geotechnical evaluations and hydraulic analysis of the structure.

Upon completion of the plans, the WRD will submit a construction funding request. We appreciate your willingness to support this project and help mitigate the public dangers associated with low head dams.

If you have any questions, please feel free to contact us or our project engineer, Alexa Ducioame, Moore Engineering, Inc., at 701-282-4692.

Thank you.

Sincerely,

SOUTHEAST CASS WATER RESOURCE DISTRICT

Melissa Hinkemeyer

Melissa Hinkemeyer
Director, Secretary

Water Development Plan: No

G 3

1083882 - Katz Dam Safety Improvement Project Construction

Application Details

Funding Opportunity:
1083251-State Fiscal Year 2024-2025 Infrastructure Request

Funding Opportunity Due Date: Jun 30, 2025 3:00 PM

Program Area:
Funding for Infrastructure in ND - FIND

Status: Submitted

Stage: Final Application

Initial Submit Date: Aug 23, 2024 2:00 PM

Initially Submitted By: Lynn Oberg

Last Submit Date:

Last Submitted By:

Contact Information

Primary Contact Information

Active User*: Yes

Type: External User

Name: Mr. (Salutation) Lynn (First Name) A (Middle Name) Oberg (Last Name)

Title: Chairman

Email*: loberg@westriv.com

Address*: 1201 22S Ave. SW

Organization Information

Status*: Approved

Name*:
McLean County Water Resource Board

Organization Type*: County Government

Tax Id:

Organization Website:
https://www.mcleancountynd.gov/

	Washburn North Dakota City State/Province
	58577 Postal Code/Zip
Phone*:	701-400-7793 Ext. Phone ###-###-####
Fax:	###-###-####
Comments:	

Address*:	712 5th Avenue
	Washburn North Dakota City State/Province
	58577 Postal Code/Zip
Phone*:	701-462-8541 Ext. ###-###-####
Fax:	###-###-####
Vendor ID:	
PeopleSoft Supplier ID:	
Comments:	
Location Code:	

Infrastructure Funding Request

Infrastructure Funding Request

Project, Program, or Study Name*:	Katz Dam Safety Improvements Construction Phase
Sponsor(s)*:	McLean County Water Resource Board
County*:	McLean
City*:	Washburn
Description of Request*:	New
If Study, What Type:	
If Project/Program, What Type:	DAM Safety/EAP

Jurisdictions/Stakeholders Involved*:

McLean County is the jurisdiction and dam owner. There are two private landowners who own the

property the dam is located on. Easements to construct the project have been obtained from both landowners. McLean County previously received a cost share grant from the State Water Commission for the design of the safety improvements which will eliminate a hydraulic roller that exists on the downstream side of the dam.

Describe the Problem*:

The Katz Dam on Painted Woods Creek, located approximately 150-ft upstream of 12th Street SW (Latitude 47.243036 degrees, longitude -100.950370), is a WPA dam built in the mid 1930s. It has a significant safety issue associated with the hydraulic roller created by its spillway. The spillway has a flip bucket shape that creates a hydraulic roller which is a drowning hazard to people. The dam regularly attracts sport fisherman and swimmers. Several people have drowned at the dam. It is a priority of McLean County to eliminate this public hazard. A second project, a fish passage channel, will be constructed in conjunction with the Safety Improvements. Katz Dam blocks the passage of sports fish to miles of stream above the dam that have spawning and rearing areas. The two projects are being built together to save money because many of the bid items such as mobilization and riprap are similar. The fish passage project is being supported by a grant from the Outdoor Heritage Fund.

Provide Project Details, Objectives and Solutions to Address Problem*:

The McLean County Water Resource Board (WRB) will use riprap to cover the lower part of the spillway that creates the hydraulic roller and partially fill the deep area of the stream immediately below the dam. Riprap will be used to create a stable spillway with a longitudinal slope down the stream that eliminates the hydraulic roller. There is also miscellaneous work needed to provide stable streambanks on which the riprap will in part be placed and to remove concrete waste that blocks access to the safety improvements. A design report was submitted to the ND Department of Water Resources Dam Safety Section for review and approval. This grant request is to provide funding for construction of the improvements. A second project, a fish passage channel, will be constructed in conjunction with the Safety Improvements. Katz Dam blocks the passage of sports fish to miles of stream above the dam that have spawning and rearing areas. The two projects are being built together to save money.

For this project,

Choose City, County, Water District or Other*:	County
What is the Current Estimated Population?*:	9824

For this project,

What is the Benefited Population?*:	10000
Have Assessment Districts Been Formed?*:	N/A

Have Land or Easements Been Acquired?*: Yes

Are There Any Properties with Wells, Drain Fields, or Holding Tanks Within the Project Area That Will Benefit from the Project?*: No

Are There Any Road Improvements Included as Part of the Project?*: No

Have You Applied For Any Federal Permits?*: Yes

If Yes or Ongoing, Please Explain (include type/number):

The McLean County Water Resource District has applied for and received 2 Section 404 permits from the US Army Corps of Engineers. One permit is the Nationwide Permit 03, Maintenance, and the second is Nationwide Permit 27, Aquatic Habitat Restoration, Enhancement and Establishment Activities. The Nationwide Permit 03 applies to the Katz Dam Safety Project.

Have You Been approved for any Federal Permits?: Yes

If Yes or Ongoing, Please Explain (include type/number):

The McLean County Water Resource District has applied for and received 2 Section 404 permits from the US Army Corps of Engineers. One permit is the Nationwide Permit 03, Maintenance, and the second is Nationwide Permit 27, Aquatic Habitat Restoration, Enhancement and Establishment Activities. The Nationwide Permit 03 applies to the Katz Dam Safety Project.

Have You Applied for any State Permits?*: Yes

If Yes or Ongoing, Please Explain (include type/number):

The McLean County Water Resource District applied to the ND Department of Water Resources Dam Safety Section for a permit to Construct the proposed improvements.

Have You Been Approved for any State Permits?: Yes

If Yes or Ongoing, Please Explain (include type/number):

On June 11, 2024 the WRD received a Construction Permit, number 2686, from the ND Department of Water Resources.

Have You Applied for any Local Permits?*: N/A

If Yes or Ongoing, Please Explain (include type/number):

Do You Expect Any Obstacles to Implementation (i.e. Problems with Land Acquisition, Permits, Funding, Local Opposition, Environmental Concerns, etc.)?*: No

Have You Received, or Do You Anticipate Receiving Federal Funding? (Example: Hazard Mitigation Grant Program) ***:** No

Implementation Timelines

Enter Start Date, Estimated Start Date or Not Applicable.

Study Completion*: 02/2022

Design Completion*: 3/5/2024

Bid*: 08/16/24

Construction Start*: 10/11/24

Construction Completion*: 05/30/25

Explain Additional Timeline Issues*:

It is anticipated that construction will take about 4 weeks. If weather prevents completion of the work in the fall of 2024 the work will be completed in the spring of 2025.

Consulting Engineer*: Roger Clay, PE, Ulteig Engineers

Engineer Telephone Number*:	701-491-0699
Engineer Email*:	roger.clay@ulteig.com

Certification (Must Be Completed by Project Sponsor)

Submitted by*:	Lynn Oberg 08/23/2024 First Name Last Name Date
Address*:	1201 22S Ave. SW Address Line 1 Address Line 2 Washburn North Dakota 58577-4420 City State Zip Code
Telephone Number*:	701-400-7793
Sponsor Email*:	loberg@westriv.com
I Certify That, to the Best of My Knowledge, the Provided Information is True and Accurate, and in Execution of This Project, the Sponsor Will Follow All Applicable Laws and Permitting Requirements. I Further Certify Assurance of Sustainable Operation, Maintenance, and Replacement of The Assets For Which We Are Requesting Cost-Share.*:	Yes
Authorized Individual*:	Lynn Oberg 08/23/2024 First Name Last Name Date
Title/Position/Authority*:	McLean County Water Resource Board Chairman

Documentation

Documentation

Project in Extraterritorial Jurisdiction? If Yes, Add Boundary to Project Specific Map.*:	No

CLICK HERE **to see examples.**

Project Specific Map Must Include Project Location in State Using an Inset Map and Distance/Direction to Nearest Community ***:**	Katz Dam project location.pdf
Are You Seeking SRF or IRLF Funding?*:	No
Are You Seeking Department of Water Resources Cost-Share?*:	Yes
Are You Seeking Cost-Share for a Main Street Initiative Related Project?:	No

Attach Completed Comprehensive Plan:

CLICK HERE **for SFN 61801 Delineation of Costs Instructions and Current Version.**

Delineation of Costs SFN 61801:	sfn_61801_delineation_of_cost Katz Dam Safety Project.xlsx
Type of Request:	Construction

Signed Plans and Specifications For Bidding:

Katz Dam Safety Improvements and Fish Passage Project Final S Combined Bid Package.pdf

Water Supply Projects?:	No
Rural Flood Control?:	No
Drain Reconstructions?:	No
Flood Recovery Property Acquisition?:	No

Community Flood Control, Rural Flood Control, Bank Stabilization, or Snag & Clear Project With Total Cost of $200,000 or More?:	No
Sovereign Land Permit, if Required:	
DWR Construction Permit, if Required:	CP_2686_Submittal_Letter_Final.pdf
Conditional Letter of Map Revision (CLOMR), if Required:	
Feasibility/Engineering Study for the Proposed Project:	Yes
Feasibility/Engineering Study Material:	Katz Dam Engineering Report 022024.pdf
Photos of Problem/Issue:	20230511_094940.jpg
Other Applicable Document(s):	
Other Applicable Document:	
Other Applicable Document:	
Other Applicable Document:	

Sources

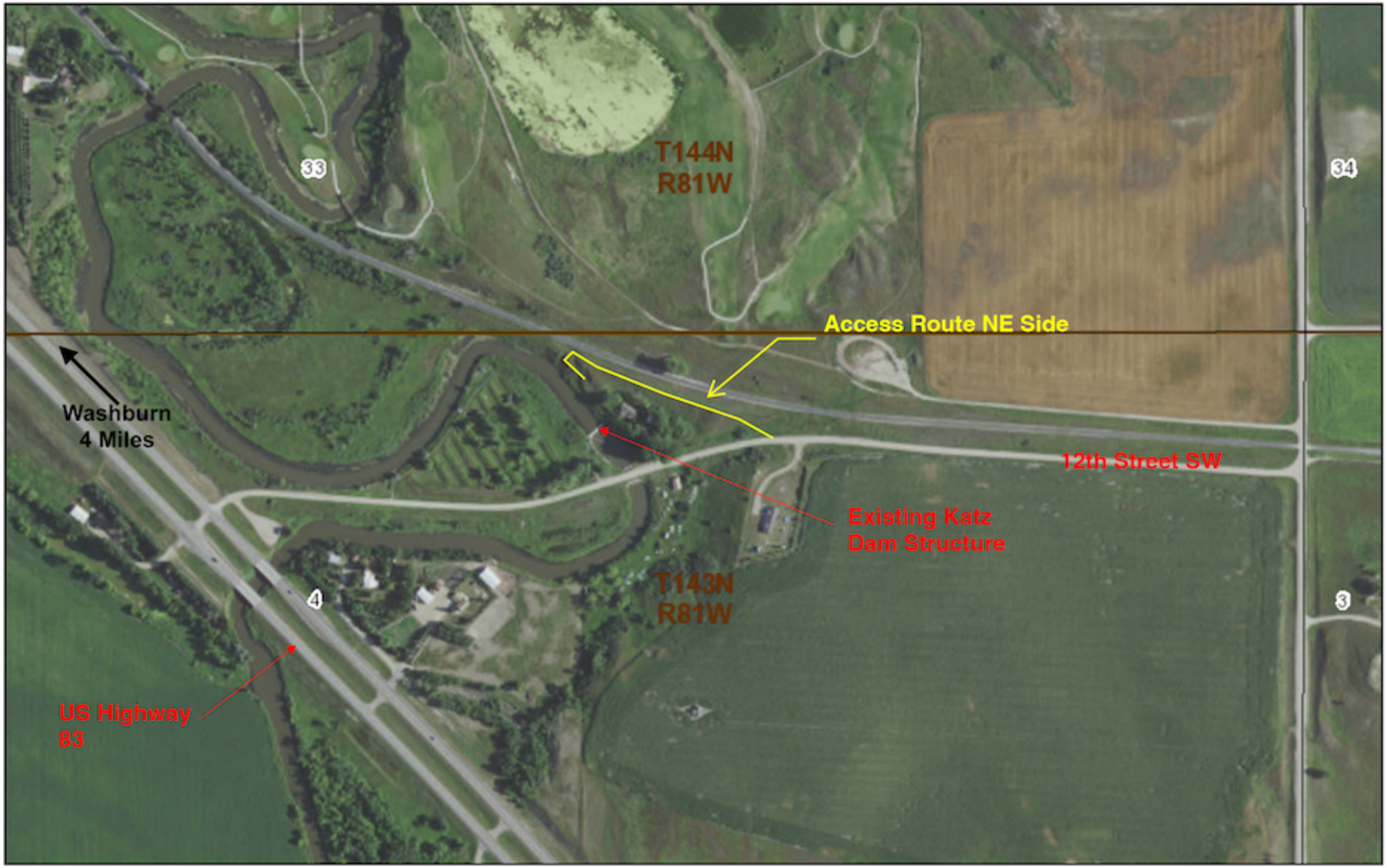
Project Funding Sources - Include All Funding Sources for the Project (Should Equal Project Cost)

Source	If Other, Specify Funding Source	Source Status	State Fiscal Year 1 July to June	State Fiscal Year 2 July to June	Beyond Current Biennium	Total Cost	Type	Term	Interest Rate
Department of		Current	$135,228.00	$0.00	$0.00	$135,228.00	Grant	0.00	0.00

Water Resources Cost Share Construction		Request							
Other	McLean County Water Resource Board	Already Approved	$45,076.00	$0.00	$0.00	$45,076.00	Grant	0.00	0.00
			$180,304.00	**$0.00**	**$0.00**	**$180,304.00**			

DWR Date Received : 8/23/24

ND GIS Hub Explorer



June 1, 2021

Image

Red: Band_1

Green: Band_2

1:9,028

0 0.05 0.1 0.2 mi

0 0.07 0.15 0.3 km

State of North Dakota, Esri, HERE, Garmin, INCREMENT P, Intermap, NGA,

DELINEATION OF COSTS
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES
PLANNING AND EDUCATION
SFN 61801 (7/2024)

DWR Date Received : August 23, 2024

Project:	Katz Dam Safety Improvement Project
Sponsor:	McLean County Water Resource District
Contact:	Lynn Oberg
Phone:	701-400-7793
Engineer:	Ulteig
Phone:	651-415-6683

Total Cost :	$ 180,304
Ineligible Cost :	$ -
Eligible Cost :	$ 180,304
Local Cost :	$ 45,076

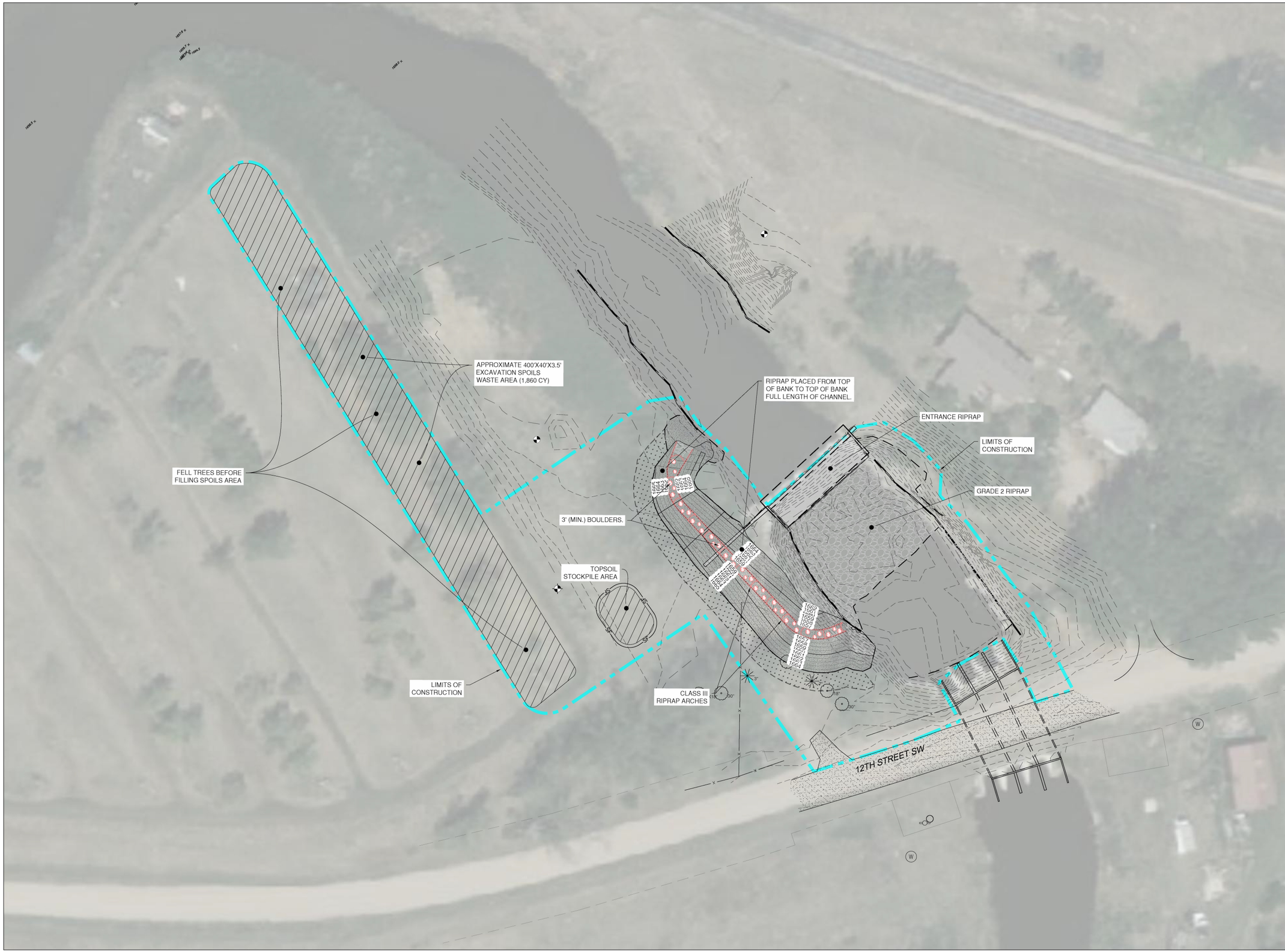
Date: August 23, 2024

	Cost-Share $
Preconstruction :	$ -
Construction :	$ 135,228

Project Type:	**Cost-share %**
Dam - Low Head Roller Effect	75%

Item	%	Cost Classification	Quantities	Unit	Unit Price	Total	Cost-Share %	Cost-Share $ *
		Construction Costs						
1	2.5%	Mobilization	1	LS	3,900.00	$ 3,900	75%	$ 2,925
2	0.0%	Bonding	0		-	$ -	75%	$ -
3	0.0%	Insurance	0		-	$ -	75%	$ -
4	0.6%	Clearing and Grubbing	1	LS	1,000.00	$ 1,000	75%	$ 750
5	1.3%	Materials - Topsoil	20	CY	100.00	$ 2,000	75%	$ 1,500
6	0.7%	Topsoil Placement	20	CY	57.14	$ 1,143	75%	$ 857
7	0.9%	Remove & Salvage Topsoil	20	CY	71.43	$ 1,429	75%	$ 1,071
8	1.3%	Seeding	0.25	AC	8,000.00	$ 2,000	75%	$ 1,500
9	1.3%	Erosion Control Blanket Type 1	500	SY	4.00	$ 2,000	75%	$ 1,500
10	13.8%	Entrance Riprap (Grade III)	219	CY	98.59	$ 21,591	75%	$ 16,193
11	43.2%	Riprap Grade II	758	LF	88.81	$ 67,318	75%	$ 50,488
12	1.6%	Floatation Silt Curtain Type Moving Wate	80	LF	31.25	$ 2,500	75%	$ 1,875
13	1.6%	Remove Floatation Silt Curtain	80	LF	31.25	$ 2,500	75%	$ 1,875
14	1.0%	Fiber Rolls 12-inch	100	LF	15.38	$ 1,538	75%	$ 1,154
15	19.2%	Aggregate Base Class 3	550	TON	54.37	$ 29,904	75%	$ 22,428
16	1.9%	Legally Dispose of Waste at Offsite Loca	1	LS	3,000.00	$ 3,000	75%	$ 2,250
17	0.0%		0		-	$ -	75%	$ -
18	0.0%		0		-	$ -	75%	$ -
19	0.0%		0		-	$ -	75%	$ -
20	0.0%		0		-	$ -	75%	$ -
21	0.0%		0		-	$ -	75%	$ -
22	0.0%		0		-	$ -	75%	$ -
23	0.0%		0		-	$ -	75%	$ -
24	0.0%		0		-	$ -	75%	$ -
25	0.0%		0		-	$ -	75%	$ -
26	0.0%		0		-	$ -	75%	$ -
		Construction Sub-Total				$ 141,822	75%	$ 106,367
	10.0%	**Contingency**				$ 14,182	75%	$ 10,637
	86.5%	**Construction Total**				$ 156,004	75%	$ 117,003
		Preconstruction Costs						
27	0.0%		0		-	$ -	75%	$ -
28	0.0%		0		-	$ -	75%	$ -
29	0.0%		0		-	$ -	75%	$ -
30	0.0%		0		-	$ -	75%	$ -
31	0.0%		0		-	$ -	75%	$ -
	0.0%	**Preconstruction Total**				$ -	75%	$ -
		Construction Engineering Costs						
32	14.0%	Construction Contract Management	1	EA	21,800.00	$ 21,800	75%	$ 16,350
33	1.6%	Materials Testing	1	EA	2,500.00	$ 2,500	75%	$ 1,875
34	0.0%		0		-	$ -	75%	$ -
35	0.0%		0		-	$ -	75%	$ -
36	0.0%		0		-	$ -	75%	$ -
	13.5%	**Construction Engineering Total**				$ 24,300	75%	$ 18,225
		Other Eligible Costs						
37	0.0%		0		-	$ -	75%	$ -
38	0.0%		0		-	$ -	75%	$ -
39	0.0%		0		-	$ -	75%	$ -
40	0.0%		0		-	$ -	75%	$ -
41	0.0%		0		-	$ -	75%	$ -
	0.0%	**Other Eligible Total**				$ -	75%	$ -
		In-eligible Costs						
42	0.0%		0		-	$ -	0%	$ -
43	0.0%		0		-	$ -	0%	$ -
44	0.0%		0		-	$ -	0%	$ -
45	0.0%		0		-	$ -	0%	$ -
	0.0%	**Other Ineligible Total**				$ -	0%	$ -
	100.0%	**Total**				$ 180,304		
		Eligible Total				$ 180,304	75%	$ 135,228
		Federal or State Funds That Supplant Costs				$ -		
		Eligible Cost Total				$ 180,304	75%	$ 135,228

* The cost-share estimate is purely for planning and informational purposes only and does not, in any way, guarantee a financial commitment to any degree, from the State Water Commission.



REVISON NO.	SECTION NO.	SHEET NO.
1 5.10.24		4 / 9

AS-BUILT RECORD

I hereby certify that this plan, specification, or report was constructed as depicted on the as-built drawings.

Print Name: ROGER A. CLAY

Signed: _____

Date: _____ License Number: 4781

HORIZ: 0 15 30 60

NORTH DAKOTA STATE PLANE, NORTH ZONE, US FOOT, NAD83 (2011)

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of North Dakota.

Print Name: ROGER A. CLAY

Signed: _____

Date: _____ License Number: 4781

REGISTERED PROFESSIONAL ENGINEER
ROGER A. CLAY
PE - 4781
DATE
NORTH DAKOTA

McLean County
NORTH DAKOTA

Ulteig
We listen. We solve
419 Riverwood Drive
Suite 201
Bismarck, North Dakota 58504
Phone: 701.258.6507
Fax: 701.224.1162
Web: www.ulteig.com

OVERALL SITE GEOMETRICS PLAN

MCLEAN COUNTY
KATZ DAM SAFETY IMPROVEMENT AND FISH PASSAGE PROJECT
WASHBURN, NORTH DAKOTA

DRAWN BY: M. JOOS	
CHECKED BY: K. CARLSON	
APPROVED BY: R. CLAY	
DATE: JAN. 2024	UEI PROJ. NO: 23.24301

DWR Date Received : 8/29/24

G 4

1083878 - Ward County Low Head Dams Rehabilitation

Application Details

Funding Opportunity:	1083251-State Fiscal Year 2024-2025 Infrastructure Request
Funding Opportunity Due Date:	Jun 30, 2025 3:00 PM
Program Area:	Funding for Infrastructure in ND - FIND
Status:	Submitted
Stage:	Final Application
Initial Submit Date:	Aug 26, 2024 9:07 AM
Initially Submitted By:	Karli Frohling
Last Submit Date:	Aug 29, 2024 1:57 PM
Last Submitted By:	Karli Frohling

Contact Information

Primary Contact Information

Active User*:	Yes
Type:	External User
Name:	Ms. (Salutation) Karli (First Name) Rae (Middle Name) Frohling (Last Name)
Title:	Water Resources Engineer
Email*:	karli.frohling@hdrinc.com
Address*:	3231 Greensboro Drive, Suite 200
	Bismarck (City) North Dakota (State/Province) 58503 (Postal Code/Zip)
Phone*:	701-226-8500 Ext. Phone ###-###-####
Fax:	###-###-####
Comments:	

Organization Information

Status*: Approved

Name*: Ward County WRD

Organization Type*: County Government

Tax Id: 450279510

Organization Website:

Address*: P.O. Box 5005

Minot North Dakota 58701-____
City State/Province Postal Code/Zip

Phone*: 701-240-5874 Ext.
###-###-####

Fax: ###-###-####

Vendor ID:

PeopleSoft Supplier ID:

Comments:

Location Code:

Infrastructure Funding Request

Infrastructure Funding Request

Project, Program, or Study Name*: Ward County Low Head Dams Rehabilitation

Sponsor(s)*: Ward County Water Resource District

County*: Ward

City*: Minot

Description of Request*: New

If Study, What Type:

If Project/Program, What Type: Flood Control

Jurisdictions/Stakeholders Involved*:

Ward County Water Resource District

Describe the Problem*:

Ward County Water Resource District (WRD) is working to rehabilitation four low head dams along the Mouse River, within Ward County. The dams are Ward County Dam 1, Eastside Estates Dam 1, Eastside Estates Dam 2 and Eastside Estates Dam 3. The low head dams present a safety risk due to the downstream hydraulic roller. The dam design will eliminate the downstream hydraulic roller for each of the four dams, significantly reducing the safety risk.

Provide Project Details, Objectives and Solutions to Address Problem*:

Ward County Water Resource District is seeking 75% cost share from the NDSWC for the construction work for the project.

All four dams have the same proposed structure modifications. Excavation will occur around the existing sheet piles to prepare the surface for rock placement. A base course will be placed and compacted as required for the longevity of the finished dam and minimize settlement. Riprap will be placed against the upstream and downstream sides of the existing sheet piles. Riprap will be placed at a constant 3:1 (horizontal:vertical) on the upstream face. Riprap will be placed at a 4:1 slope on the downstream face, with a concave slope. The purpose of this curvature is to direct flow towards the center of the Mouse River channel, reducing potential bank erosion. The existing sheet pile will be trimmed as needed and a concrete cap will be formed and poured on the top of the sloped riprap. The dam elevation will remain unchanged from existing to proposed design.

For this project,

Choose City, County, Water District or Other*:	Water District
What is the Current Estimated Population?*:	69000

For this project,

What is the Benefited Population?*:	69000
Have Assessment Districts Been Formed?*:	N/A
Have Land or Easements Been Acquired?*:	Yes
Are There Any Properties with Wells, Drain Fields, or Holding Tanks Within the Project Area That Will Benefit from the Project?*:	No
Are There Any Road Improvements Included as Part of the Project?*:	No
Have You Applied For Any Federal Permits?*:	Yes

If Yes or Ongoing, Please Explain (include type/number):

Section 404 permit submitted for all four dams to the United States Army Corps of Engineers on behalf of the Ward County Water Resource District. This permit was required because the Mouse River is a Water of the United States and as such, requires a Section 404 permit under the Clean Water Act.

Have You Been approved for any Federal Permits?:	Ongoing

If Yes or Ongoing, Please Explain (include type/number):

The permit has been submitted and is in the review stage.

Have You Applied for any State Permits?*: Yes

If Yes or Ongoing, Please Explain (include type/number):

The following permits were submitted to the North Dakota Department of Water Resources:
Sovereign Lands permit for all four dams due to work below the ordinary high-water mark on a navigable stream
Water Right Permits for all four dams due to the purpose of the dams being for flood control.
Construction Permit for Eastside Estates Dam 1 and Ward County Dam 1 due to the amount of water they store.
No-Rise Certification for all four dams due to work being within a FEMA-designated floodway.

Have You Been Approved for any State Permits?: Ongoing

If Yes or Ongoing, Please Explain (include type/number):

The permits have been submitted and is in the review stage.

Have You Applied for any Local Permits?*: Yes

If Yes or Ongoing, Please Explain (include type/number):

City of Minot floodplain development permit for all four dams since the work is taking place within a floodplain and all four dams are located within the City's ETA.

Have You Been Approved For Any Local Permits?: Ongoing

If Yes or Ongoing, Please Explain (include type/number):

The permits have been submitted and is in the review stage.

Do You Expect Any Obstacles to Implementation (i.e. Problems with Land Acquisition, Permits, Funding, Local Opposition, Environmental Concerns, etc.)?*: No

Have You Received, or Do You Anticipate Receiving Federal Funding?
(Example: Hazard Mitigation Grant Program)
***:** No

Implementation Timelines

Enter Start Date, Estimated Start Date or Not Applicable.

Study Completion*:	September 2024
Design Completion*:	September 2024
Bid*:	Fall 2024
Construction Start*:	Fall/Winter 2024
Construction Completion*:	Fall 2025

Explain Additional Timeline Issues*:

This project lends itself well to construction activities during winter months.

Consulting Engineer*:	HDR Engineering (Karli Frohling)
Engineer Telephone Number*:	701-557-9725
Engineer Email*:	karli.frohling@hdrinc.com

Certification (Must Be Completed by Project Sponsor)

Submitted by*:	Sarah (First Name) Walker (Last Name) 08/23/2024 (Date)
Address*:	200 72nd St SE Address Line 1 P.O. Box 5005 Address Line 2 Minot (City) North Dakota (State) 58702-5005 (Zip Code)
Telephone Number*:	701-839-6840
Sponsor Email*:	sawalker@wardnd.gov
I Certify That, to the Best of My Knowledge, the Provided Information is True and Accurate, and in Execution of This Project, the Sponsor Will Follow All Applicable Laws and Permitting Requirements. I Further Certify Assurance of Sustainable Operation, Maintenance, and Replacement of The Assets For Which We Are Requesting Cost-Share.*:	Yes
Authorized Individual*:	Sarah (First Name) Walker (Last Name) 08/29/2024 (Date)
Title/Position/Authority*:	Secretary/Treasurer, Ward County Water Resource District

Documentation

Documentation

Project in Extraterritorial Jurisdiction? If Yes, Add Boundary to Project Specific Map.*:	Yes

CLICK HERE **to see examples.**

Project Specific Map Must Include Project Location in State Using an Inset Map and Distance/Direction to Nearest Community ***:**	WardCountyDamsFigure.pdf
Are You Seeking SRF or IRLF Funding?*:	No
Are You Seeking Department of Water Resources Cost-Share?*:	Yes
Are You Seeking Cost-Share for a Main Street Initiative Related Project?:	No

CLICK HERE **for SFN 61801 Delineation of Costs Instructions and Current Version.**

Delineation of Costs SFN 61801:	WardLowHeadDams_sfn_61801_delineation_of_cost_Aug_2024.xlsx
Type of Request:	Construction
Signed Plans and Specifications For Bidding:	August 2024 Ward County Dams 90 Drawings and Specs.pdf
Water Supply Projects?:	No
Rural Flood Control?:	No
Drain Reconstructions?:	No
Flood Recovery Property Acquisition?:	No
Community Flood Control, Rural Flood Control, Bank Stabilization, or Snag & Clear Project With Total Cost of $200,000 or More?:	No
Sovereign Land Permit, if Required:	Ward County Dams - Sovereign Lands Permit Applications.pdf
DWR Construction Permit, if Required:	Ward County Dams - Construction Permit Applications.pdf

Conditional Letter of Map Revision (CLOMR), if Required:

Feasibility/Engineering Study for the Proposed Project: No

Photos of Problem/Issue:

Other Applicable Document(s): Yes

Other Applicable Document: ConstructionCostShareRequest_CoverLetter_082224.pdf

Other Applicable Document:

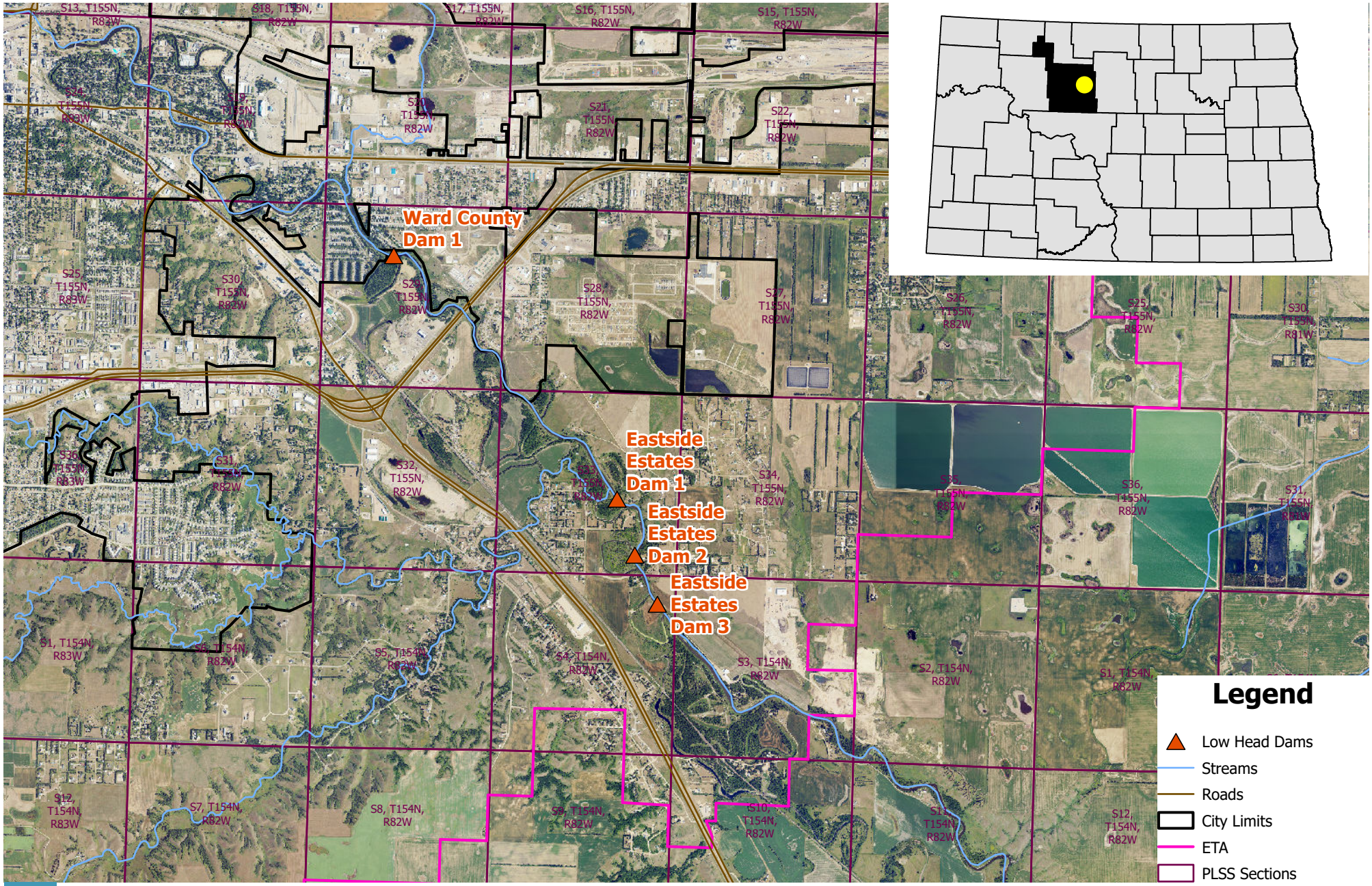
Other Applicable Document:

Sources

Project Funding Sources - Include All Funding Sources for the Project (Should Equal Project Cost)

Source	If Other, Specify Funding Source	Source Status	State Fiscal Year 1 July to June	State Fiscal Year 2 July to June	Beyond Current Biennium	Total Cost	Type	Term	Interest Rate
Department of Water Resources Cost Share Construction		Current Request	$0.00	$1,102,814.00	$0.00	$1,102,814.00	Grant	0.00	0.00
Other	Ward County Water Resource District	Already Approved	$0.00	$367,605.00	$0.00	$367,605.00		0.00	0.00
			$0.00	**$1,470,419.00**	**$0.00**	**$1,470,419.00**			

DWR Date Received : 8/26/24



WARD COUNTY WATER RESOURCE DISTRICT

LOW HEAD DAM REHABILITATION PROJECT

DELINEATION OF COSTS
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES
PLANNING AND EDUCATION
SFN 61801 (7/2024)

DWR Date Received : August 26, 2024

Project:	Ward County Low Head Dams
Sponsor:	Ward County Water Resource District
Contact:	Tom Klein, Chairman
Phone:	701-720-8508
Engineer:	Karli Frohling, HDR Engineering
Phone:	701-557-9725

Total Cost :	$ 1,470,419
Ineligible Cost :	$ -
Eligible Cost :	$ 1,470,419
Local Cost :	$ 367,605

Date: August 26, 2024

Cost-Share $
$ 1,102,814

Preconstruction : $ -
Construction : $ 1,102,814

Project Type:	**Cost-share %**
Dam - Low Head Roller Effect	75%

Item	%	Cost Classification	Quantities	Unit	Unit Price	Total	Cost-Share %	Cost-Share $ *
		Construction Costs						
1	5.1%	Mobilization	1	LS	70,000.00	$ 70,000	75%	$ 52,500
2	0.7%	Bonding	1		9,000.00	$ 9,000	75%	$ 6,750
3	0.7%	Insurance	1		9,000.00	$ 9,000	75%	$ 6,750
4	0.0%		0		-	$ -	75%	$ -
5	5.5%	Contractor QC & Construction Staking	1	LS	75,000.00	$ 75,000	75%	$ 56,250
6	0.0%	Demolition - Existing Fence	400	LF	1.00	$ 400	75%	$ 300
7	4.4%	Demolition - Tree Removal	1	LS	60,000.00	$ 60,000	75%	$ 45,000
8	4.0%	Earthwork	2210	CY	25.00	$ 55,250	75%	$ 41,438
9	5.5%	Excavation Haul	3160	CY	24.00	$ 75,840	75%	$ 56,880
10	0.5%	Silt Fence Supported	2095	LF	3.50	$ 7,333	75%	$ 5,499
11	1.1%	Rolled Erosion Control Blanket Over Bac	3485	SY	4.50	$ 15,683	75%	$ 11,762
12	0.8%	Rolled Separation Fabric Under Backfill	3180	SY	3.50	$ 11,130	75%	$ 8,348
13	5.8%	Water Management - Cofferdam	8	EA	10,000.00	$ 80,000	75%	$ 60,000
14	10.9%	Water Management - Dewatering	1	LS	150,000.00	$ 150,000	75%	$ 112,500
15	7.3%	Site Grading - special site finish	1	LS	100,000.00	$ 100,000	75%	$ 75,000
16	0.3%	Replace fence	400	LF	10.00	$ 4,000	75%	$ 3,000
17	1.2%	Seeding	8	AC	2,000.00	$ 16,000	75%	$ 12,000
18	0.9%	Silt Curtain	600	LF	20.00	$ 12,000	75%	$ 9,000
19	9.0%	Concrete - class general	30	CY	4,100.00	$ 123,000	75%	$ 92,250
20	22.5%	Riprap - NDDOT Grade II	1760	CY	175.00	$ 308,000	75%	$ 231,000
21	4.7%	3" Minus Backing - coarse filter aggregat	1070	CY	60.00	$ 64,200	75%	$ 48,150
22	0.0%		0		-	$ -	75%	$ -
23	0.0%		0		-	$ -	75%	$ -
24	0.0%		0		-	$ -	75%	$ -
25	0.0%		0		-	$ -	75%	$ -
26	0.0%		0		-	$ -	75%	$ -
		Construction Sub-Total				$ 1,245,835	75%	$ 934,376
	10.0%	**Contingency**				$ 124,584	75%	$ 93,438
	93.2%	**Construction Total**				$ 1,370,419	75%	$ 1,027,814
		Preconstruction Costs						
27	0.0%		0		-	$ -	75%	$ -
28	0.0%		0		-	$ -	75%	$ -
29	0.0%		0		-	$ -	75%	$ -
30	0.0%		0		-	$ -	75%	$ -
31	0.0%		0		-	$ -	75%	$ -
	0.0%	**Preconstruction Total**				$ -	75%	$ -
		Construction Engineering Costs						
32	7.3%	Construction Contract Management	1	LS	100,000.00	$ 100,000	75%	$ 75,000
33	0.0%		0		-	$ -	75%	$ -
34	0.0%		0		-	$ -	75%	$ -
35	0.0%		0		-	$ -	75%	$ -
36	0.0%		0		-	$ -	75%	$ -
	6.8%	**Construction Engineering Total**				$ 100,000	75%	$ 75,000
		Other Eligible Costs						
37	0.0%		0		-	$ -	75%	$ -
38	0.0%		0		-	$ -	75%	$ -
39	0.0%		0		-	$ -	75%	$ -
40	0.0%		0		-	$ -	75%	$ -
41	0.0%		0		-	$ -	75%	$ -
	0.0%	**Other Eligible Total**				$ -	75%	$ -
		In-eligible Costs						
42	0.0%		0		-	$ -	0%	$ -
43	0.0%		0		-	$ -	0%	$ -
44	0.0%		0		-	$ -	0%	$ -
45	0.0%		0		-	$ -	0%	$ -
	0.0%	**Other Ineligible Total**				$ -	0%	$ -
	100.0%	**Total**				$ 1,470,419		
		Eligible Total				$ 1,470,419	75%	$ 1,102,814
		Federal or State Funds That Supplant Costs				$ -		
		Eligible Cost Total				$ 1,470,419	75%	$ 1,102,814

* The cost-share estimate is purely for planning and informational purposes only and does not, in any way, guarantee a financial commitment to any degree, from the State Water Commission.

DWR Date Received : 8/29/24

WARD COUNTY 1885

Ward County Water Resource

P.O. Box 5005 • Minot, ND 58702-5005 • 200 72nd St. SE • (701) 839-6840
Fax (701) 838-3801 • E-mail: water.resources@wardnd.com

August 23, 2024

Ms. Andrea Travnicek, Ph.D., Director
North Dakota Department of Water Resources
1200 Memorial Highway
Bismarck ND 58504-5262

RE: Ward County Low Head Dam Safety Modifications– Construction

Dear Ms. Travnicek:

The North Dakota State Water Commission (NDSWC) approved cost-share for the pre-construction activities for the design phase of dam safety modifications to 5 low head dams on the Mouse River near Minot, North Dakota at the October 13, 2022, meeting in the amount of $588,750.00. Design at one of the dams (Burlington Dam 3) has been delayed due to operational, historical, and archaeological issues, but the remaining four dams are at a 90 percent design level and all regulatory permits (Water Rights, Construction, Sovereign Lands, Floodplain Development, Section 404, and No-Rise Certification) are submitted for approval. Construction easements have been secured at all four of the dam sites. Bidding documents will be ready in early fall, 2024 and it is anticipated work can progress with certain aspects of the project during the upcoming winter months to facilitate a final completion of the project in 2025.

The opinion of construction cost for the four dams is included as part of this submittal and the cost-share request is defined within it.

We appreciate the consideration of this request, and the past, present, and future partnership provided by the NDSWC and North Dakota Department of Water Resource staff. If you have any questions, please do not hesitate to contact me at 701-720-8508 or our project engineer Karli Frohling at 701-557-9725.

Sincerely,

Tom Klein

Tom Klein, Chairman
Ward County WRD

CC: Karli Frohling, HDR Engineering
Dennis Reep, HDR Engineering

1083864 - 2025 Water Main Replacement, City of Jamestown

Application Details

Funding Opportunity:	1083251-State Fiscal Year 2024-2025 Infrastructure Request
Funding Opportunity Due Date:	Jun 30, 2025 3:00 PM
Program Area:	Funding for Infrastructure in ND - FIND
Status:	Submitted
Stage:	Final Application
Initial Submit Date:	Aug 23, 2024 1:24 PM
Initially Submitted By:	Sarah Hellekson
Last Submit Date:	
Last Submitted By:	

Contact Information

Primary Contact Information

Active User*:	Yes
Type:	External User
Name:	Salutation: Jason (First Name) Middle Name: Bivens (Last Name)
Title:	
Email*:	jason.bivens@interstateeng.com
Address*:	1903 12th Ave SW
	Jamestown (City) North Dakota (State/Province) 58401 (Postal Code/Zip)
Phone*:	701-252-0234 Ext. (Phone ###-###-####)
Fax:	###-###-####
Comments:	

Organization Information

Status*:	Approved
Name*:	City of Jamestown, ND
Organization Type*:	Municipal Government
Tax Id:	456002099
Organization Website:	https://jamestownnd.gov/
Address*:	102 3rd Ave S.E.

	Jamestown	North Dakota	58401-4205
	City	State/Province	Postal Code/Zip

Phone*: 701-252-5900 Ext.
###-###-####

Fax: 701-252-5903
###-###-####

Vendor ID:

PeopleSoft Supplier ID:

Comments:

Location Code:

Infrastructure Funding Request

Infrastructure Funding Request

Project, Program, or Study Name*: Jamestown - 2025 Water Main Replacement

Sponsor(s)*: City of Jamestown

County*: Stutsman

City*: Jamestown

Description of Request*: New

If Study, What Type:

If Project/Program, What Type: Municipal Water Supply

Jurisdictions/Stakeholders Involved*:

City of Jamestown, ND DEQ, ND DWR

Describe the Problem*:

Existing cast iron water mains and associated infrastructure including valves and hydrants in the City have reached the end of their useful life and have experienced an increasing frequency of leaks and breaks.

The City's existing water distribution system contains over 4,700 users that may be affected by leaks or breaks to the system.

NDDOT is planning to complete major rehabilitation to the I94 west business loop in 2026 & beyond. The proposed project would replace water infrastructure prior to completion of the DOT portion to make the project more efficient.

Provide Project Details, Objectives and Solutions to Address Problem*:

The City has been completing ongoing water main replacement projects for selected portions within the system for several years. Preliminary design and site selection is still being finalized as of August 2024; however the project would be of a similar scope and size as the 2023 Water Main Replacement Project. The I94 West Business Loop in Jamestown is on NDDOT's schedule for 2026 improvements. The proposed Water Main project would be done in connection with the DOT as mentioned in the Problem's section.

Open cut, boring, and pipe bursting are all being considered as options to encourage as many contractors to bid the project and to obtain the most economically feasible option for the City in addition to cutting down on impacts to traffic along I94 West Business Loop.

For this project,

Choose City, County, Water District or Other*: City

What is the Current Estimated Population?*: 15849

For this project,

What is the Benefited Population?*: 15849

Have Assessment Districts Been Formed?*: No

Have Land or Easements Been Acquired?*: N/A

Are There Any Properties with Wells, Drain Fields, or Holding Tanks Within the Project Area That Will Benefit from the Project?*: No

Are There Any Road Improvements Included as Part of the Project?*: Yes

If Yes, Describe the Condition and Last Improvements Made to Any Underground Infrastructure.:

For the proposed project, roads will only be resurfaced where trenching, bore pits, etc. are dug. Underground water mains are originally installed cast iron pipe.

The forthcoming NDDOT project will complete final restoration for portions of the project that would directly affect the I94 West Business Loop.

Have You Applied For Any Federal Permits?*: N/A

If Yes or Ongoing, Please Explain (include type/number):

Have You Applied for any State Permits?*: N/A

If Yes or Ongoing, Please Explain (include type/number):

Have You Applied for any Local Permits?*: N/A

If Yes or Ongoing, Please Explain (include type/number):

Do You Expect Any Obstacles to Implementation (i.e. Problems with Land Acquisition, Permits, Funding, Local Opposition, Environmental Concerns, etc.)?*: No

Have You Received, or Do You Anticipate Receiving Federal Funding?
(Example: Hazard Mitigation Grant Program)
***:** No

Implementation Timelines

Enter Start Date, Estimated Start Date or Not Applicable.

Study Completion*: Fall 2024

Design Completion*: Winter 2024 / 2025

Bid*: Spring 2025

Construction Start*: Summer 2025

Construction Completion*: Fall 2025

Explain Additional Timeline Issues*:

No issues expected for pre-construction / Environmental / Design.

For construction, contractor availability and cost continue to be an issue for these types of projects in Jamestown.

Consulting Engineer*: Interstate Engineering

Engineer Telephone Number*: 701-252-0234

Engineer Email*: jason.bivens@interstateeng.com

Certification (Must Be Completed by Project Sponsor)

Submitted by*:	Sarah Hellekson 08/23/2024 First Name Last Name Date
Address*:	City Hall Address Line 1 102 3rd Ave SE Address Line 2 Jamestown North Dakota 58401-0000 City State Zip Code
Telephone Number*:	701-252-5900
Sponsor Email*:	shellekson@jamestownnd.gov
I Certify That, to the Best of My Knowledge, the Provided Information is True and Accurate, and in Execution of This Project, the Sponsor Will Follow All Applicable Laws and Permitting Requirements. I Further Certify Assurance of Sustainable Operation, Maintenance, and Replacement of The Assets For Which We Are Requesting Cost-Share.*:	Yes
Authorized Individual*:	Sarah Hellekson 08/23/2024 First Name Last Name Date
Title/Position/Authority*:	City Administrator / City Auditor

Documentation

Documentation

Project in Extraterritorial Jurisdiction? If Yes, Add Boundary to Project Specific Map.*:	No
CLICK HERE **to see examples.**	
Project Specific Map Must Include Project Location in State Using an Inset Map and Distance/Direction to Nearest Community *:	Jmst_2025 WM Project_Preliminary.pdf
Are You Seeking SRF or IRLF Funding?*:	No
Are You Seeking Department of Water Resources Cost-Share?*:	Yes
Are You Seeking Cost-Share for a Main Street Initiative Related Project?:	No
Attach Completed Comprehensive Plan:	
CLICK HERE **for SFN 61801 Delineation of Costs Instructions and Current Version.**	
Delineation of Costs SFN 61801:	sfn_61801_delineation_of_cost 19_2024-8.xlsx
Type of Request:	Preconstruction
Water Supply Projects?:	Yes
CLICK HERE **for Life Cycle Cost Analysis Instructions and Current Version, as Shown on Title Tab.**	
Life Cycle Cost Analysis:	life_cycle_cost_analysis_worksheet 15.xlsx
CLICK HERE **for SFN 62417 Basic Asset Inventory Tool and Current Version.**	
Asset Inventory Assessment:	

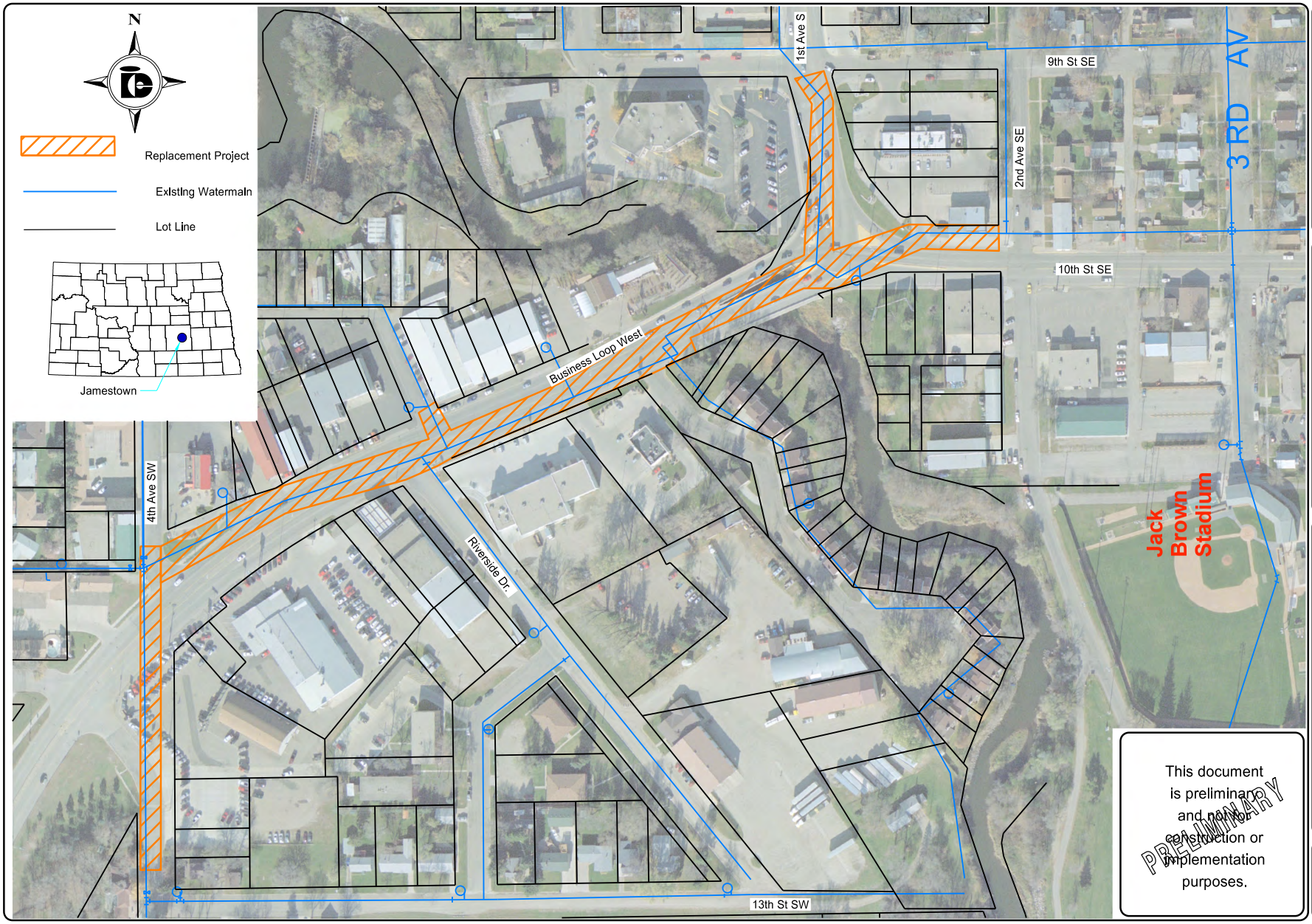
Rural Flood Control?:	No
Drain Reconstructions?:	No
Flood Recovery Property Acquisition?:	No
Community Flood Control, Rural Flood Control, Bank Stabilization, or Snag & Clear Project With Total Cost of $200,000 or More?:	No
Sovereign Land Permit, if Required:	
DWR Construction Permit, if Required:	
Conditional Letter of Map Revision (CLOMR), if Required:	
Feasibility/Engineering Study for the Proposed Project:	No
Photos of Problem/Issue:	
Other Applicable Document(s):	No

Sources

Project Funding Sources - Include All Funding Sources for the Project (Should Equal Project Cost)

Source	If Other, Specify Funding Source	Source Status	State Fiscal Year 1 July to June	State Fiscal Year 2 July to June	Beyond Current Biennium	Total Cost	Type	Term	Interest Rate
Department of Water Resources Cost Share Pre-Construction		Current Request	$168,000.00	$0.00	$0.00	$168,000.00	Grant	0.00	0.00
Drinking Water State Revolving Fund		Future Request	$1,863,000.00	$0.00	$0.00	$1,863,000.00	Loan	20.00	2.00
Department of Water Resources Cost Share Construction		Future Request	$2,626,000.00	$0.00	$0.00	$2,626,000.00	Grant	0.00	0.00
			$4,657,000.00	**$0.00**	**$0.00**	**$4,657,000.00**			

DWR Date Received : 8/23/24



This document is preliminary and not for construction or implementation purposes.

PRELIMINARY

Rev No.	Date	By	Description

Watermain Replacement Projects
City of Jamestown

Scope of Work Map

Drawn By: BA
Checked By:
Surveyed By:
Designed By:
Project No: 24-03-071.04
Date: 08/20/2024

INTERSTATE ENGINEERING
Professionals you need, people you trust.
Offices in North Dakota, Minnesota, Montana and South Dakota

1
Sheet Number

8/20/2024 7:37:30 AM Ben.Aaseth X:\2024\EC\03\EC24-03-071 Jamestown\24-03-071.04 Water\2025 Water Main Project\CADD\Scope Revised for State.dgn

DELINEATION OF COSTS
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES
PLANNING AND EDUCATION
SFN 61801 (7/2024)

DWR Date Received : August 26, 2024

Project:	Water Main Replacement Project - 2025
Sponsor:	City of Jamestown
Contact:	Sarah Hellekson, City Administrator / City Auditor
Phone:	701-252-5900
Engineer:	Travis Dillman, City Engineer
Phone:	701-252-0234

Total Cost :	$ 4,657,098
Ineligible Cost :	$ -
Eligible Cost :	$ 4,657,098
Local Cost :	$ 1,862,839

Date: August 1, 2024

	Cost-Share $
	$ 2,794,259
Preconstruction :	$ 168,000
Construction :	$ 2,626,259

Project Type:	**Cost-share %**
Municipal Water Supply	60%

Item	%	Cost Classification	Quantities	Unit	Unit Price	Total	Cost-Share %	Cost-Share $ *
		Construction Costs						
1	6.4%	Mobilization	1	LS	250,000.00	$ 250,000	60%	$ 150,000
2	0.8%	Bonding	1	LS	32,200.00	$ 32,200	60%	$ 19,320
3	0.8%	Insurance	1	LS	32,200.00	$ 32,200	60%	$ 19,320
4	0.1%	Water Main 4 in	20	LF	150.00	$ 3,000	60%	$ 1,800
5	7.5%	Water Main 6 in	1650	LF	178.00	$ 293,700	60%	$ 176,220
6	6.4%	Water Main 8 in	1210	LF	208.00	$ 251,680	60%	$ 151,008
7	19.3%	Water Main 10 in	2570	LF	295.00	$ 758,150	60%	$ 454,890
8	4.4%	Gate Valve	32	EA	5,400.00	$ 172,800	60%	$ 103,680
9	4.7%	Hydrant	15	EA	12,230.00	$ 183,450	60%	$ 110,070
10	3.7%	Fittings	5000	LBS	29.00	$ 145,000	60%	$ 87,000
11	2.7%	Water Service Line	600	LF	178.00	$ 106,800	60%	$ 64,080
12	1.3%	Connection to Existing Line	15	EA	3,360.00	$ 50,400	60%	$ 30,240
13	0.3%	Meter	1	EA	10,000.00	$ 10,000	60%	$ 6,000
14	0.4%	Pipeline Appurtenances	1	LS	15,000.00	$ 15,000	60%	$ 9,000
15	1.3%	Moving Underground Utilities	1	LS	50,000.00	$ 50,000	60%	$ 30,000
16	2.0%	Dewatering	1	LS	80,000.00	$ 80,000	60%	$ 48,000
17	1.0%	Curb and Gutter	1	LS	40,000.00	$ 40,000	60%	$ 24,000
18	0.4%	Curb Stop	5	EA	3,000.00	$ 15,000	60%	$ 9,000
19	9.7%	Paving	1	LS	380,000.00	$ 380,000	60%	$ 228,000
20	0.5%	Sideway - Remove and Replace	1	LS	20,000.00	$ 20,000	60%	$ 12,000
21	1.3%	Seeding	1	LS	50,000.00	$ 50,000	60%	$ 30,000
22	0.5%	Laboratory	1	LS	20,000.00	$ 20,000	60%	$ 12,000
23	2.5%	Temporary Water Service	1	LS	100,000.00	$ 100,000	60%	$ 60,000
24	3.1%	Boring - Non-Cased	300	LF	400.00	$ 120,000	60%	$ 72,000
25	2.5%	Traffic Control	1	LS	100,000.00	$ 100,000	60%	$ 60,000
26	7.5%	Reconnect Water Service Lines	56	EA	5,300.00	$ 296,800	60%	$ 178,080
		Construction Sub-Total				$ 3,576,180	60%	$ 2,145,708
	10.0%	**Contingency**				$ 357,618	60%	$ 214,571
	84.5%	**Construction Total**				$ 3,933,798	60%	$ 2,360,279
		Preconstruction Costs						
27	0.3%	Preliminary Design	1	LS	10,000.00	$ 10,000	60%	$ 6,000
28	6.4%	Final Design	1	LS	250,000.00	$ 250,000	60%	$ 150,000
29	0.3%	Bidding / Negotiations	1	LS	10,000.00	$ 10,000	60%	$ 6,000
30	0.3%	Geotechnical Investigations	1	LS	10,000.00	$ 10,000	60%	$ 6,000
31	0.0%		0		-	$ -	60%	$ -
	6.0%	**Preconstruction Total**				$ 280,000	60%	$ 168,000
		Construction Engineering Costs						
32	1.3%	Construction Contract Management	1	NA	50,000.00	$ 50,000	60%	$ 30,000
33	10.0%	Project Inspection	1	NA	393,300.00	$ 393,300	60%	$ 235,980
34	0.0%		0		-	$ -	60%	$ -
35	0.0%		0		-	$ -	60%	$ -
36	0.0%		0		-	$ -	60%	$ -
	9.5%	**Construction Engineering Total**				$ 443,300	60%	$ 265,980
		Other Eligible Costs						
37	0.0%		0		-	$ -	60%	$ -
38	0.0%		0		-	$ -	60%	$ -
39	0.0%		0		-	$ -	60%	$ -
40	0.0%		0		-	$ -	60%	$ -
41	0.0%		0		-	$ -	60%	$ -
	0.0%	**Other Eligible Total**				$ -	60%	$ -
		In-eligible Costs						
42	0.0%		0		-	$ -	0%	$ -
43	0.0%		0		-	$ -	0%	$ -
44	0.0%		0		-	$ -	0%	$ -
45	0.0%		0		-	$ -	0%	$ -
	0.0%	**Other Ineligible Total**				$ -	0%	$ -
	100.0%	**Total**				$ 4,657,098		
		Eligible Total				$ 4,657,098	60%	$ 2,794,259
		Federal or State Funds That Supplant Costs				$ -		
		Eligible Cost Total				$ 4,657,098	60%	$ 2,794,259

* The cost-share estimate is purely for planning and informational purposes only and does not, in any way, guarantee a financial commitment to any degree, from the State Water Commission.

Life Cycle Cost Analysis Review

Sponsor: City of Jamestown
Project Title: Water Main Replacement Project - 2025 **Date:** September 3, 2024

Explanation of Alternatives:

Distribution Water Main Replacement (Preferred) - Approximately 12 city blocks (56 service connections) of originally installed cast iron water mains would be replaced with new PVC pipe along with associated appetences (valves, hydrants, service connections, etc.).

No Action - The existing water mains would remain in place. Leaks and breaks would continue to occur and likely increase in frequency causing operation and maintenance costs to increase annually.

Inputs:

New Connections Served	0
Future Connections Served	0
Current Connections Served	5000
Net Connections (New + Current)	5000

Current CIF Balance	
Annual CIF Contribution	
Cash Funding Target (Percentage %) New Assets	
Cash Funding Target (Percentage %) Existing Asets	
Annual CIF Contribution suggested for the Project	

	Distribution Water Main Replacement (Preferred)	No Action		
Construction Cost	$4,659,000	$0		
Annual O & M	$0	$40,000		

Details:

They City has been completing ongoing replacement projects over the past several years due to the existing water lines nearing the end of their useful life. Open cut, boring, and pipe bursting are all being considered as options to encourage as many contractors as possible to bid the project and to obtain the most economically feasible option for the City.

LCCA Model Results:

Scenario Analysis - Present Value Life Cycle Cost Summary

Present Value	Distribution Water Main Replacement (Preferred)	No Action		
Capital Costs	$4,659,000	$0		
O&M	$0	$1,109,000		
Repair, Rehab, Replacement	$340,000	$0		
Salvage Value	$63,000	$0		
Total PVC	**$4,936,000**	**$1,109,000**		
PV Cost Per User	**$987**	**$222**		

Current Water Rate (Cost Per 5000g)		**$36**			
Comparable Water Rate		**$38**			
Net Connections (New + Current)		5,000	5,000		
Cost-Share Percent		60%	60%		
	Local Share	$1,863,600	$0		
	Other Funding	$0	$0		
	Total Local	$1,863,600	$0		
Payment Per User With Cost-Share		**$1.89**	**$0.00**		
	Local Share	$4,659,000	$0		
	Other Funding	$0	$0		
	Total Local	$4,659,000	$0		
Payment Per User Without Cost-Share		**$4.71**	**$0.00**		

Explanation of Results:

The sponsor preferred project is the “Distribution Water Main Replacement” option. The present value cost of the preferred alternative is $4,936,000 and the presented alternative for comparison is “No Action” at a present value cost of $4,936,000. The present value cost per user for the preferred alternative is $987. The monthly user cost of the local share with DWR 60% cost-share participation is $1.89 per month and $4.71without DWR participation.

	Year		Annual Population Growth Rate	Average Annual Population Increase/Decrease
ND Dept. of Commerce	2010	2020		
Population & Trends	15,775	15,750	0.0%	-3

The economic model appears to have functioned properly. The results are deemed to be reliable and repeatable with the inputs provided by the project sponsor.

LCCA Version Version 1.2024.04.18

Water Development Plan: Yes (2023)
Plan Priority: Low

DWR Date Received : 8/26/24
Date Revised: 8/29/24

H 2

1083834 - Mandan 2025 Street Rehabilitation

Application Details

Funding Opportunity:	1083251-State Fiscal Year 2024-2025 Infrastructure Request
Funding Opportunity Due Date:	Jun 30, 2025 3:00 PM
Program Area:	Funding for Infrastructure in ND - FIND
Status:	Under Review
Stage:	Final Application
Initial Submit Date:	Aug 26, 2024 4:48 PM
Initially Submitted By:	Grant Dockter
Last Submit Date:	Aug 29, 2024 1:02 PM
Last Submitted By:	Grant Dockter

Contact Information

Primary Contact Information

Active User*:	Yes
Type:	External User
Name:	Salutation Grant First Name Middle Name Dockter Last Name
Title:	
Email*:	grant.dockter@mooreengineeringinc.com
Address*:	4503 Coleman St - Suite 105
	Bismarck City North Dakota State/Province 58503 Postal Code/Zip
Phone*:	701-425-1842 Ext. Phone ###-###-####
Fax:	###-###-####
Comments:	

Organization Information

Status*:	Approved
Name*:	City of Mandan
Organization Type*:	Political Subdivision
Tax Id:	
Organization Website:	
Address*:	205 2nd Avenue NW

Mandan North Dakota 58554-3125
City State/Province Postal Code/Zip

Phone*: (701) 667-3215 Ext.
###-###-####

Fax: ###-###-####

Vendor ID:

PeopleSoft Supplier ID:

Comments:

DUNS 058261421

Location Code:

Infrastructure Funding Request

Infrastructure Funding Request

Project, Program, or Study Name*: Mandan 2025 Street Rehabilitation

Sponsor(s)*: City of Mandan

County*: Morton

City*: Mandan

Description of Request*: New

If Study, What Type:

If Project/Program, What Type: Municipal Water Supply

Jurisdictions/Stakeholders Involved*:

The project involves the City of Mandan and the residents within the project area.

Describe the Problem*:

The City of Mandan is working to rehabilitate their streets. Many of the streets within the project area have cast iron water mains underneath them. The water main is past its useful life and has had over 20 water main breaks within the last 15 years. The cast iron water main was installed in the 1950's. There is approximately 8,600 ft of cast iron water main in the project area - 7,200 LF of 8" and 1,400 LF of 12". The remaining water main in the project area is PVC and has recently been replaced. The PVC will not be replaced in this project.

Provide Project Details, Objectives and Solutions to Address Problem*:

The project proposes replacing the cast iron water main, services, hydrants, and gate valves and replacing them with updated materials. The project also includes street rehabilitation, ADA ramps, and street lighting. This request is only asking for cost share on water eligible items.

For this project,

Choose City, County, Water District or Other*: City

What is the Current Estimated Population?*: 24586

For this project,

What is the Benefited Population?*: 500

Have Assessment Districts Been Formed?*: Yes

Date Formed: 08/06/2024

Have Land or Easements Been Acquired?*: N/A

Are There Any Properties with Wells, Drain Fields, or Holding Tanks Within the Project Area That Will Benefit from the Project?*: No

Are There Any Road Improvements Included as Part of the Project?*: Yes

If Yes, Describe the Condition and Last Improvements Made to Any Underground Infrastructure.:

The water mains beneath the roadway range from PVC to Cast Iron. The PVC is in good condition and does not need to be replaced. The cast iron is past its useful life and is planned to be replaced as a part of the project.

Have You Applied For Any Federal Permits?*: N/A

Have You Applied for any State Permits?*: N/A

Have You Applied for any Local Permits?*: N/A

Do You Expect Any Obstacles to Implementation (i.e. Problems with Land Acquisition, Permits, Funding, Local Opposition, Environmental Concerns, etc.)?*: No

Have You Received, or Do You Anticipate Receiving Federal Funding?
(Example: Hazard Mitigation Grant Program)
*: No

Implementation Timelines

Enter Start Date, Estimated Start Date or Not Applicable.

Study Completion*: August 2024

Design Completion*: February 2025

Bid*: February 2025

Construction Start*: May 2025

Construction Completion*: November 2026

Explain Additional Timeline Issues*:

NA

Consulting Engineer*: Moore Engineering Inc

Engineer Telephone Number*: 701-425-1842

Engineer Email*: grant.dockter@mooreengineeringinc.com

Certification (Must Be Completed by Project Sponsor)

Submitted by*: Jarek (First Name) Wigness (Last Name) 08/16/2024 (Date)

Address*: 205 2nd Ave NW
Address Line 1

Address Line 2

Mandan (City) North Dakota (State) 58554-0000 (Zip Code)

Telephone Number*: 701-667-3225

Sponsor Email*: jarek.wigness@cityofmandan.com

I Certify That, to the Best of My Knowledge, the Provided Information is True and Accurate, and in Execution of This Project, the Sponsor Will Follow All Applicable Laws and Permitting Requirements. I Further Certify Assurance of Sustainable Operation, Maintenance, and Replacement of The Assets For Which We Are Requesting Cost-Share.*:	Yes
Authorized Individual*:	Jarek (First Name) Wigness (Last Name) 08/16/2024 (Date)
Title/Position/Authority*:	City Engineer

Documentation

Documentation

Project in Extraterritorial Jurisdiction? If Yes, Add Boundary to Project Specific Map.*:	No

CLICK HERE to see examples.

Project Specific Map Must Include Project Location in State Using an Inset Map and Distance/Direction to Nearest Community *:	24080_DWR_ProjectMap_20240815.pdf
Are You Seeking SRF or IRLF Funding?*:	No
Are You Seeking Department of Water Resources Cost-Share?*:	Yes
Are You Seeking Cost-Share for a Main Street Initiative Related Project?:	No

CLICK HERE for SFN 61801 Delineation of Costs Instructions and Current Version.

Delineation of Costs SFN 61801:	SID 238_sfn_61801_delineation_of_cost.xlsx
Type of Request:	Preconstruction
Water Supply Projects?:	Yes

CLICK HERE for Life Cycle Cost Analysis Instructions and Current Version, as Shown on Title Tab.

Life Cycle Cost Analysis:	24080_life_cycle_cost_analysis_worksheet.xlsx

CLICK HERE for SFN 62417 Basic Asset Inventory Tool and Current Version.

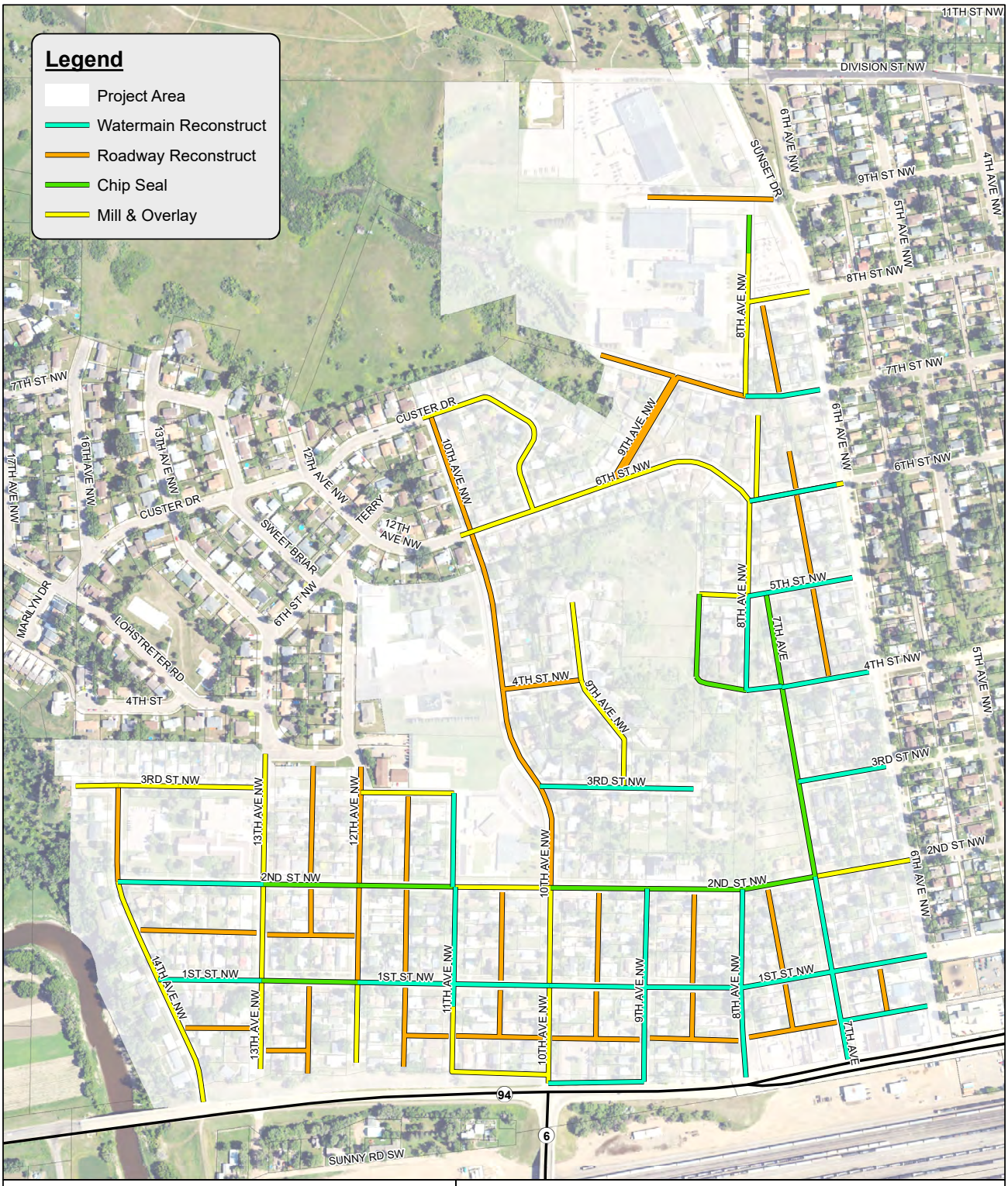
Asset Inventory Assessment:	sfn_62417_basic_asset_inventory_tool_MandanREV1.xlsx
Rural Flood Control?:	No
Drain Reconstructions?:	No
Flood Recovery Property Acquisition?:	No
Community Flood Control, Rural Flood Control, Bank Stabilization, or Snag & Clear Project With Total Cost of $200,000 or More?:	No
Sovereign Land Permit, if Required:	
DWR Construction Permit, if Required:	
Conditional Letter of Map Revision (CLOMR), if Required:	

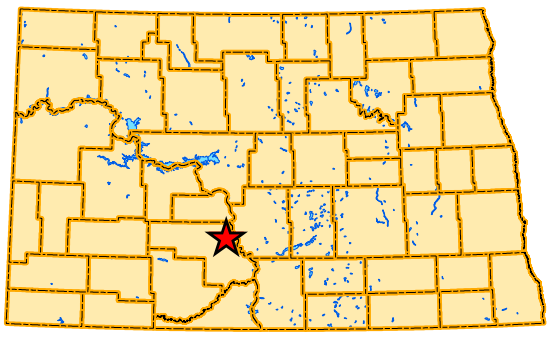
Feasibility/Engineering Study for the Proposed Project:	Yes
Feasibility/Engineering Study Material:	24080_2025 SID PCR Amend 1.pdf
Photos of Problem/Issue:	Area 2B Water Main Breaks.JPG
Other Applicable Document(s):	Yes
Other Applicable Document:	24080_DWR Estimate.pdf
Other Applicable Document:	
Other Applicable Document:	

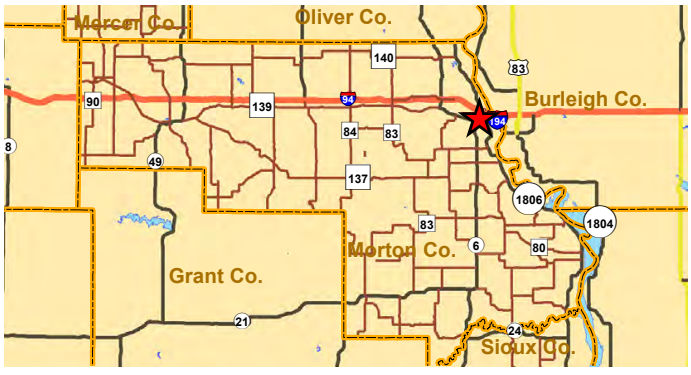
Sources

Project Funding Sources - Include All Funding Sources for the Project (Should Equal Project Cost)

Source	If Other, Specify Funding Source	Source Status	State Fiscal Year 1 July to June	State Fiscal Year 2 July to June	Beyond Current Biennium	Total Cost	Type	Term	Interest Rate
Department of Water Resources Cost Share Pre-Construction		Current Request	$216,974.00	$0.00	$0.00	$216,974.00	Grant	0.00	0.00
Department of Water Resources Cost Share Construction		Future Request	$0.00	$3,914,294.00	$0.00	$3,914,294.00	Grant	0.00	0.00
Other	Local Funds		$0.00	$12,813,732.00	$0.00	$12,813,732.00	Loan	0.00	0.00
			$216,974.00	**$16,728,026.00**	**$0.00**	**$16,945,000.00**			







RECOMMENDED WATER SYSTEM IMPROVEMENTS
MANDAN, NORTH DAKOTA

Created By: KMV Date Created: 12/06/2023 Date Saved: 08/29/24 Date Exported: 08/29/24
Plotted By: kyle.volk Parcel Date: N/A Aerial Image: 2023 County NAIP SIDS Elevation Data: N/A
Horizontal Datum: NAD 1983 StatePlane North Dakota North FIPS 3301 Feet Vertical Datum: NAVD1988
T:\Projects\24000\24080_Midtown\24080_DWR_ProjectMap_20240815_Update.mxd

N W E S

moore engineering, inc.

DELINEATION OF COSTS
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES
PLANNING AND EDUCATION
SFN 61801 (7/2024)

DWR Date Received : August 29, 2024

Project:	2025 Mandan Street Rehabilitation Project
Sponsor:	City of Mandan
Contact:	Jarek Wigness, City Engineer
Phone:	701-667-3210
Engineer:	Grant Dockter, Moore Engineering Inc.
Phone:	701-425-1842

Total Cost :	$ 16,945,000
Ineligible Cost :	$ 10,059,552
Eligible Cost :	$ 6,885,448
Local Cost :	$ 12,813,700

Date: August 29, 2024

	Cost-Share $
	$ 4,131,300
Preconstruction :	$ 216,974
Construction :	$ 3,914,294

Project Type:	**Cost-share %**
Municipal Water Supply	60%

Item	%	Cost Classification	Quantities	Unit	Unit Price	Total	Cost-Share %	Cost-Share $ *
		Construction Costs						
1	0.6%	Testing Allowance, Storm Water Manag	0.35	LS	105,000.00	$ 36,750	60%	$ 22,050
2	2.0%	Mobilization	0.35	LS	350,000.00	$ 122,500	60%	$ 73,500
3	1.0%	Full Depth Reclamation	12000	SY	5.00	$ 60,000	60%	$ 36,000
4	3.2%	Aggregate Base Course Cl 5	4000	TON	50.00	$ 200,000	60%	$ 120,000
5	8.8%	FAA 43 Asphalt Pavement - PG58-34	4000	TON	135.00	$ 540,000	60%	$ 324,000
6	0.5%	Topsoil - 6In	4500	SY	7.00	$ 31,500	60%	$ 18,900
7	0.1%	Hydraulic Mulch	4500	SY	2.00	$ 9,000	60%	$ 5,400
8	0.1%	Seeding Class III	4500	SY	2.00	$ 9,000	60%	$ 5,400
9	1.2%	Subgrade Preparation-Type A-12In	12000	SY	6.00	$ 72,000	60%	$ 43,200
10	1.9%	Geogrid Reinforcement	12000	SY	10.00	$ 120,000	60%	$ 72,000
11	0.4%	Removal of Curb and Gutter	3000	LF	8.00	$ 24,000	60%	$ 14,400
12	1.9%	Concrete Valley Gutter	750	SY	160.00	$ 120,000	60%	$ 72,000
13	2.9%	Curb and Gutter - Type I	3000	LF	60.00	$ 180,000	60%	$ 108,000
14	0.0%	Curb Header - Type I	0	LF	60.00	$ -	60%	$ -
15	2.9%	4" Sidewalk Concrete	2000	SY	90.00	$ 180,000	60%	$ 108,000
16	16.1%	Removal of Concrete Pavement	22000	SY	45.00	$ 990,000	60%	$ 594,000
17	2.8%	Driveway Concrete - 6"	1500	SY	115.00	$ 172,500	60%	$ 103,500
18	2.3%	Connection to Existing Main	27	EA	5,200.00	$ 140,400	60%	$ 84,240
19	16.4%	Water Main - 8"	7200	LF	140.00	$ 1,008,000	60%	$ 604,800
20	3.6%	Water Main - 12"	1400	LF	160.00	$ 224,000	60%	$ 134,400
21	2.7%	Curb Stop & Box - 1"	225	EA	750.00	$ 168,750	60%	$ 101,250
22	4.4%	Water Service Connection - 1"	225	EA	1,200.00	$ 270,000	60%	$ 162,000
23	5.3%	Water Service Line - 1"	6500	LF	50.00	$ 325,000	60%	$ 195,000
24	4.3%	Gate Valve & Box - 6"	53	EA	5,000.00	$ 265,000	60%	$ 159,000
25	4.7%	Hydrant - 6" - Remove & Replace	26	EA	11,200.00	$ 291,200	60%	$ 174,720
26	0.7%	Removal of Gate Valve	53	EA	800.00	$ 42,400	60%	$ 25,440
27	0.0%				-	$ -	60%	$ -
		Construction Sub-Total				$ 5,602,000	60%	$ 3,361,200
	10.0%	**Contingency**				$ 560,200	60%	$ 336,120
	36.4%	**Construction Total**				$ 6,162,200	60%	$ 3,697,320
		Preconstruction Costs						
28	1.5%	Preliminary Design	1	LS	92,500.00	$ 92,500	60%	$ 55,500
29	4.4%	Final Design	1	LS	269,124.00	$ 269,124	60%	$ 161,474
30	0.0%		0		-	$ -	60%	$ -
31	0.0%		0		-	$ -	60%	$ -
32	0.0%		0		-	$ -	60%	$ -
	2.1%	**Preconstruction Total**				$ 361,624	60%	$ 216,974
		Construction Engineering Costs						
33	3.6%	Project Inspection	1	LS	222,000.00	$ 222,000	60%	$ 133,200
34	2.3%	Construction Contract Management	1	LS	139,624.00	$ 139,624	60%	$ 83,774
35	0.0%		0		-	$ -	60%	$ -
36	0.0%		0		-	$ -	60%	$ -
37	0.0%		0		-	$ -	60%	$ -
	2.1%	**Construction Engineering Total**				$ 361,624	60%	$ 216,974
		Other Eligible Costs						
38	0.0%		0		-	$ -	60%	$ -
39	0.0%		0		-	$ -	60%	$ -
40	0.0%		0		-	$ -	60%	$ -
41	0.0%		0		-	$ -	60%	$ -
42	0.0%		0		-	$ -	60%	$ -
	0.0%	**Other Eligible Total**				$ -	60%	$ -
		In-eligible Costs						
43	43.8%	Other Construction	1	LS	7,429,500.00	$ 7,429,500	0%	$ -
44	7.2%	Other Contingincies	1	LS	1,220,052.00	$ 1,220,052	0%	$ -
45	4.1%	Other Preconstruction Engineering	1	LS	690,000.00	$ 690,000	0%	$ -
46	4.1%	Other Construction Engineering	1	LS	690,000.00	$ 690,000	0%	$ -
47	0.2%	Other admin, legal, bonding	1	LS	30,000.00	$ 30,000	0%	$ -
	59.2%	**Other Ineligible Total**				$ 10,059,552	0%	$ -
	99.8%				**Total**	$ 16,945,000		
					Eligible Total	$ 6,885,448	60%	$ 4,131,269

Federal or State Funds That Supplant Costs			
Eligible Cost Total	$ 6,885,448	60%	$ 4,131,269

* The cost-share estimate is purely for planning and informational purposes only and does not, in any way, guarantee a financial commitment to any degree, from the State Water Commission.

Life Cycle Cost Analysis Review

Sponsor: City of Mandan
Project Title: Mandan 2025 Street Rehabilitaiton **Date:** September 3, 2024

Explanation of Alternatives:

Replace Cast Iron Water Main (Preferred) - Replace cast iron water main. The water main is past its useful life and the city has had to repair over 20 water main breaks in the project area over the last 15 years. This alternative includes reconstructing the entire street width (No more than a 10-foot trench width is apportioned for DWR funding per policy.).

Do Nothing - Leave the existing cast iron water main in place and repair breaks as they occur. The city and its residents would incur the costs of all repairs along with the inconvenience and safety hazards of being without water.

Inputs:

New Connections Served	0
Future Connections Served	0
Current Connections Served	225
Net Connections (New + Current)	225

Current CIF Balance	
Annual CIF Contribution	
Cash Funding Target (Percentage %) New Assets	
Cash Funding Target (Percentage %) Existing Asets	
Annual CIF Contribution suggested for the Project	

	Replace Cast Iron Water	Do Nothing		
Construction Cost	$16,943,500	$0		
Annual O & M	$10,000	$60,000		

Details:

LCCA Model Results:

Scenario Analysis - Present Value Life Cycle Cost Summary

Present Value	Replace Cast Iron Water	Do Nothing		
Capital Costs	$16,717,000	$0		
O&M	$257,000	$1,665,000		
Repair, Rehab, Replacement	$0	$0		
Salvage Value	$0	$0		
Total PVC	**$16,974,000**	**$1,665,000**		
PV Cost Per User	**$75,440**	**$7,400**		

Current Water Rate (Cost Per 5000g)		**$51**			
Comparable Water Rate		**$38**			
Net Connections (New + Current)		225	225		
Cost-Share Percent		60%	60%		
	Local Share	$6,686,800	$0		
	Other Funding	$0	$0		
	Total Local	$6,686,800	$0		
Payment Per User With Cost-Share		**$150.34**	**$0.00**		
	Local Share	$16,717,000	$0		
	Other Funding	$0	$0		
	Total Local	$16,717,000	$0		
Payment Per User Without Cost-Share		**$375.86**	**$0.00**		

Explanation of Results:

The sponsor preferred project is the “Replace Cast Iron Water Main” option. The present value cost of the preferred alternative is $16,974,000 and the presented alternative for comparison is “Do Nothing” at a present value cost of $1,665,000. The present value cost per user for the preferred alternative is $75,440. The monthly user cost of the local share with DWR 60% cost-share participation is $150.34 per month and $375.86 without DWR participation.

	Year		Annual Population Growth Rate	Average Annual Population Increase/Decrease
ND Dept. of Commerce	2010	2021		
Population & Trends	24,192	24,447	0.1%	23

The economic model appears to have functioned properly. The results are deemed to be reliable and repeatable with the inputs provided by the project sponsor.

LCCA Version Version 1.2024.04.18

DWR Date Received : 8/26/24

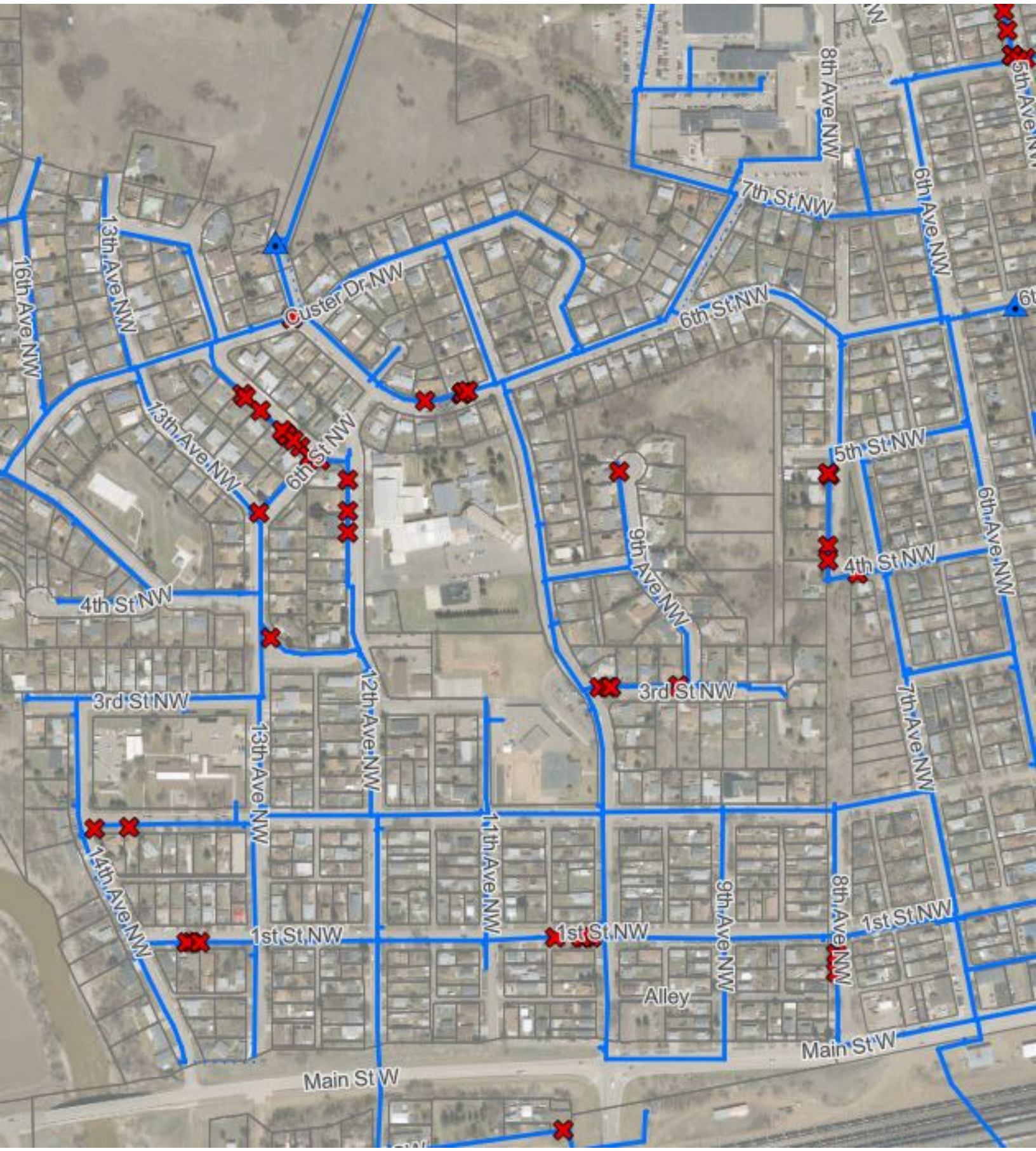
Project #: 24080
Date Created: 6/13/2024

Mandan Street Improvements
Project Area 2B Improvements
Mandan, ND

Engineer's Preliminary Opinion of Cost

	BID ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL	Water Eligible Quantity	Water Eligible Cost
Base Bid - Part A								
1.	12000	Testing Allowance	L SUM	1	$60,000.00	$60,000.00	0.35	$21,000.00
2.	15000	Storm Water Management	L SUM	1	$20,000.00	$20,000.00	0.35	$7,000.00
3.	704.1100	Traffic Control	L SUM	1	$25,000.00	$25,000.00	0.35	$8,750.00
4.	702.0100	Mobilization	L SUM	1	$350,000.00	$350,000.00	0.35	$122,500.00
5.	306.051	Full Depth Reclamation	SY	54,000	$5.00	$270,000.00	12000.00	$60,000.00
6.	302.0120	Aggregate Base Course Cl 5	TON	18,000	$50.00	$900,000.00	4000.00	$200,000.00
7.	430.0043	FAA 43 Asphalt Pavement - PG58-34	TON	17,200	$135.00	$2,322,000.00	4000.00	$540,000.00
8.	430.00001	Patching	SY	8,000	$50.00	$400,000.00	0.00	$0.00
9.	330130.86	Adjust Manhole Castings	EA	90	$1,500.00	$135,000.00	0.00	$0.00
10.	331419	Adjust Gate Valve Box	EA	70	$1,000.00	$70,000.00	0.00	$0.00
11.	411.0105	Milling Pavement Surface - 2"	SY	48,000	$3.00	$144,000.00	0.00	$0.00
12.	420.0405	Seal Coat	SY	110,000	$2.00	$220,000.00	0.00	$0.00
13.	401.0070	Fog Seal	SY	110,000	$1.00	$110,000.00	0.00	$0.00
14.	203.0109	Topsoil - 6In	SY	9,000	$7.00	$63,000.00	4500.00	$31,500.00
15.	253.0200	Hydraulic Mulch	SY	9,000	$2.00	$18,000.00	4500.00	$9,000.00
16.	251.00001	Seeding Class III	SY	9,000	$2.00	$18,000.00	4500.00	$9,000.00
17.	230.00001	Subgrade Preparation-Type A-12In	SY	54,000	$6.00	$324,000.00	12000.00	$72,000.00
18.	1207-4.1	Geogrid Reinforcement	SY	54,000	$10.00	$540,000.00	12000.00	$120,000.00
19.		Tree Trimming	HR	200	$80.00	$16,000.00		
					Part A Subtotal	$6,005,000.00		
Base Bid - Part B								
1.	262.0130	Removal of Curb and Gutter	LF	6,000	$8.00	$48,000.00	3000.00	$24,000.00
2.	748.1030	Concrete Valley Gutter	SY	1,500	$160.00	$240,000.00	750.00	$120,000.00
3.	748.0140	Curb and Gutter - Type I	LF	6,000	$60.00	$360,000.00	3000.00	$180,000.00
4.	748.0500	Curb Header - Type I	LF	1,500	$60.00	$90,000.00	0.00	$0.00
5.	750.0100	4" Sidewalk Concrete	SY	4,500	$90.00	$405,000.00	2000.00	$180,000.00
6.	750.2115	Detectable Warning Panels	SF	1,000	$50.00	$50,000.00	0.00	$0.00
7.	202.0114	Removal of Concrete Pavement	SY	35,000	$45.00	$1,575,000.00	22000.00	$990,000.00
		Driveway Concrete - 6"	SY	2,500	$115.00	$287,500.00	1500.00	$172,500.00
					Part B Subtotal	$3,055,500.00		
Base Bid - Part C								
1.	331413.00	Connection to Existing Main	EA	27	$5,200.00	$140,400.00	27.00	$140,400.00
2.	331413.00	Water Main - 8"	LF	7,200	$140.00	$1,008,000.00	7200.00	$1,008,000.00
3.	331413.00	Water Main - 12"	LF	1,400	$160.00	$224,000.00	1400.00	$224,000.00
4.	331413.00	Curb Stop & Box - 1"	EA	225	$750.00	$168,750.00	225.00	$168,750.00
5.	331413.00	Water Service Connection - 1"	EA	225	$1,200.00	$270,000.00	225.00	$270,000.00
6.	331413.00	Water Service Line - 1"	LF	6,500	$50.00	$325,000.00	6500.00	$325,000.00
7.	331413.00	Gate Valve & Box - 6"	EA	53	$5,000.00	$265,000.00	53.00	$265,000.00
8.	331413.00	Hydrant - 6"	EA	26	$10,000.00	$260,000.00	26.00	$260,000.00
9.	24200.00	Removal of Gate Valve	EA	53	$800.00	$42,400.00	53.00	$42,400.00
10.	24200.00	Removal of Hydrant	EA	26	$1,200.00	$31,200.00	26.00	$31,200.00
					Part C Subtotal	$2,734,750.00		
Base Bid - Part D								
1.	333111.00	Sanitary Sewer Spot Repair	EA	10	$8,000.00	$80,000.00	0.00	$0.00
2.	330130.81	Manhole - Rehabilitate	EA	6	$8,000.00	$48,000.00	0.00	$0.00
					Part D Subtotal	$128,000.00		
Electrical								
1.	Division 26	Type B Street Light Unit	EA	115	$6,500.00	$747,500.00	0.00	$0.00
2.	Division 26	#4 AWG Circuitry	LF	15000	$7.25	$108,750.00	0.00	$0.00
3.	Division 26	Trenching (27" Deep)	LF	12000	$8.00	$96,000.00	0.00	$0.00
4.	Division 26	2" Conduit	LF	5000	$7.20	$36,000.00	0.00	$0.00
5.	Division 26	New Feed Point	EA	6	$20,000.00	$120,000.00	0.00	$0.00
					Electrical Subtotal	$1,108,250.00		
					Construction Subtotal	$13,031,500.00	35%	$5,602,000.00
					Engineering, Legal, Bonding, Contingencies(30%)	$3,913,500.00		$1,283,725.00
					Total Project Cost	$16,945,000.00	**Total Water Eligible**	**$6,885,725.00**
							Request DWR Grant	**$4,131,435.00**

moore engineering, inc.


16th Ave NW
13th Ave NW
Custer Dr NW
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6th Ave NW
6th St NW
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6th St NW
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4th St NW
4th St NW
3rd St NW
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3rd St NW
13th Ave NW
11th Ave NW
7th Ave NW
14th Ave NW
1st St NW
1st St NW
9th Ave NW
8th Ave NW
1st St NW
Alley
Main St W
Main St W

1083345 - Supply Treated Water Transmission Line (SRF)

Application Details

Funding Opportunity:	1083251-State Fiscal Year 2024-2025 Infrastructure Request
Funding Opportunity Due Date:	Jun 30, 2025 3:00 PM
Program Area:	Funding for Infrastructure in ND - FIND
Status:	Under Review
Stage:	Final Application
Initial Submit Date:	Jul 22, 2024 8:44 PM
Initially Submitted By:	Jennifer Skoog
Last Submit Date:	Jul 31, 2024 3:33 PM
Last Submitted By:	Jennifer Skoog

Contact Information

Primary Contact Information

Active User*:	Yes
Type:	External User
Name:	Salutation Jennifer First Name Middle Name Skoog Last Name
Title:	Auditor
Email*:	colfaxcity@rrt.net
Address*:	PO Box 51
	Colfax City North Dakota State/Province 58018 Postal Code/Zip
Phone*:	701-367-4370 Ext. Phone ###-###-####
Fax:	###-###-####
Comments:	

Organization Information

Status*:	Approved
Name*:	City of Colfax
Organization Type*:	Municipal Government
Tax Id:	
Organization Website:	
Address*:	P.O. Box 51

	Colfax North Dakota 58018-0051 City State/Province Postal Code/Zip
Phone*:	701-640-3535 Ext. ###-###-####
Fax:	###-###-####
Vendor ID:	
PeopleSoft Supplier ID:	
Comments:	
Location Code:	

Infrastructure Funding Request

Infrastructure Funding Request

Project, Program, or Study Name*:	Watermain Looping
Sponsor(s)*:	City of Colfax
County*:	Richland
City*:	Colfax
Description of Request*:	New
If Study, What Type:	
If Project/Program, What Type:	Municipal Water Supply

Jurisdictions/Stakeholders Involved*:

City of Colfax

Describe the Problem*:

The main supply line servicing town runs approximately 2,100 LF east from the reservoir to the intersection of Broadway St and 2nd Ave where it ties into the City's treated water system. The tie in location to the City's water system is in located in the southwest portion of the City's water system. Due to the influx of new services, the City has experienced low water pressures. In addition, the system currently has no redundancy, with only one supply line from the reservoir servicing the City.

Provide Project Details, Objectives and Solutions to Address Problem*:

The proposed project would include the construction of a new 3,450 LF water main loop from the reservoir to the north side of Colfax along Richland County Road 1, where it would tie into the north part of the City's water system in the new residential subdivision. This would create redundancy in a system that currently has none, and increase water pressures throughout the north part of Colfax.

For this project,

Choose City, County, Water District or Other*:	City
What is the Current Estimated Population?*:	225

For this project,

What is the Benefited Population?*:	225
Have Assessment Districts Been Formed?*:	No
Have Land or Easements Been Acquired?*:	N/A
Are There Any Properties with Wells, Drain Fields, or Holding Tanks Within the Project Area That Will Benefit from the Project?*:	No

Are There Any Road Improvements Included as Part of the Project?*: No

Have You Applied For Any Federal Permits?*: N/A

If Yes or Ongoing, Please Explain (include type/number):

Have You Applied for any State Permits?*: N/A

If Yes or Ongoing, Please Explain (include type/number):

Have You Applied for any Local Permits?*: Yes

If Yes or Ongoing, Please Explain (include type/number):

Richland County Right of Way Permit, approved
Red River Valley and Western Crossing Permit, ongoing

Have You Been Approved For Any Local Permits?: Yes

If Yes or Ongoing, Please Explain (include type/number):

Richland County Right of Way Permit approved
Red River Valley and Western Crossing Permit, ongoing

Do You Expect Any Obstacles to Implementation (i.e. Problems with Land Acquisition, Permits, Funding, Local Opposition, Environmental Concerns, etc.)?*: No

Have You Received, or Do You Anticipate Receiving Federal Funding?
(Example: Hazard Mitigation Grant Program)
***:** No

Implementation Timelines

Enter Start Date, Estimated Start Date or Not Applicable.

Study Completion*: 12/21/2023

Design Completion*: 5/31/2024

Bid*: 07/15/2024

Construction Start*: 10/21/2024

Construction Completion*: 12/15/2024

Explain Additional Timeline Issues*:

Funding approvals, material acquisition

Consulting Engineer*: Interstate Engineering

Engineer Telephone Number*: 701-642-5521

Engineer Email*: zach.hatting@interstateeng.com

Certification (Must Be Completed by Project Sponsor)

Submitted by*: Jennifer (First Name) Skoog (Last Name) 07/22/2024 (Date)

Address*: PO Box 51
Address Line 1

Address Line 2

	Colfax	North Dakota	58018-____
	City	State	Zip Code

Telephone Number*: 701-367-4370

Sponsor Email*: colfaxcity@rrt.net

I Certify That, to the Best of My Knowledge, the Provided Information is True and Accurate, and in Execution of This Project, the Sponsor Will Follow All Applicable Laws and Permitting Requirements. I Further Certify Assurance of Sustainable Operation, Maintenance, and Replacement of The Assets For Which We Are Requesting Cost-Share.*: Yes

Authorized Individual*:	Jennifer	Skoog	07/18/2024
	First Name	Last Name	Date

Title/Position/Authority*: City Auditor

Documentation

Documentation

Project in Extraterritorial Jurisdiction? If Yes, Add Boundary to Project Specific Map.*: No

CLICK HERE to see examples.

Project Specific Map
Must Include Project Location in State Using an Inset Map and Distance/Direction to Nearest Community
*: 3 - Project Specific Map.pdf

Are You Seeking SRF or IRLF Funding?*: Yes

Engineer's Estimate of Probable Cost
Separate Project Components by Type (Storm Sewer, Sanitary Sewer and Associated Roads, Drinking Water and Associated Roads, and Roads)
: Bid Tab 7-31-24.pdf

Are You Seeking Department of Water Resources Cost-Share?*: Yes

Are You Seeking Cost-Share for a Main Street Initiative Related Project?: No

Attach Completed Comprehensive Plan:

CLICK HERE for SFN 61801 Delineation of Costs Instructions and Current Version.

Delineation of Costs SFN 61801: sfn_61801_delineation_of_cost updated 7-31-24.xlsx

Type of Request: Construction

Signed Plans and Specifications For Bidding: ER2200144.01 Colfax_Water_FINAL PLANS.pdf

Water Supply Projects?: Yes

CLICK HERE for Life Cycle Cost Analysis Instructions and Current Version, as Shown on Title Tab.

Life Cycle Cost Analysis: life_cycle_cost_analysis_worksheet.xlsx

CLICK HERE for SFN 62417 Basic Asset Inventory Tool and Current Version.

Asset Inventory Assessment: sfn_62417_basic_asset_inventory_tool 1.xlsx

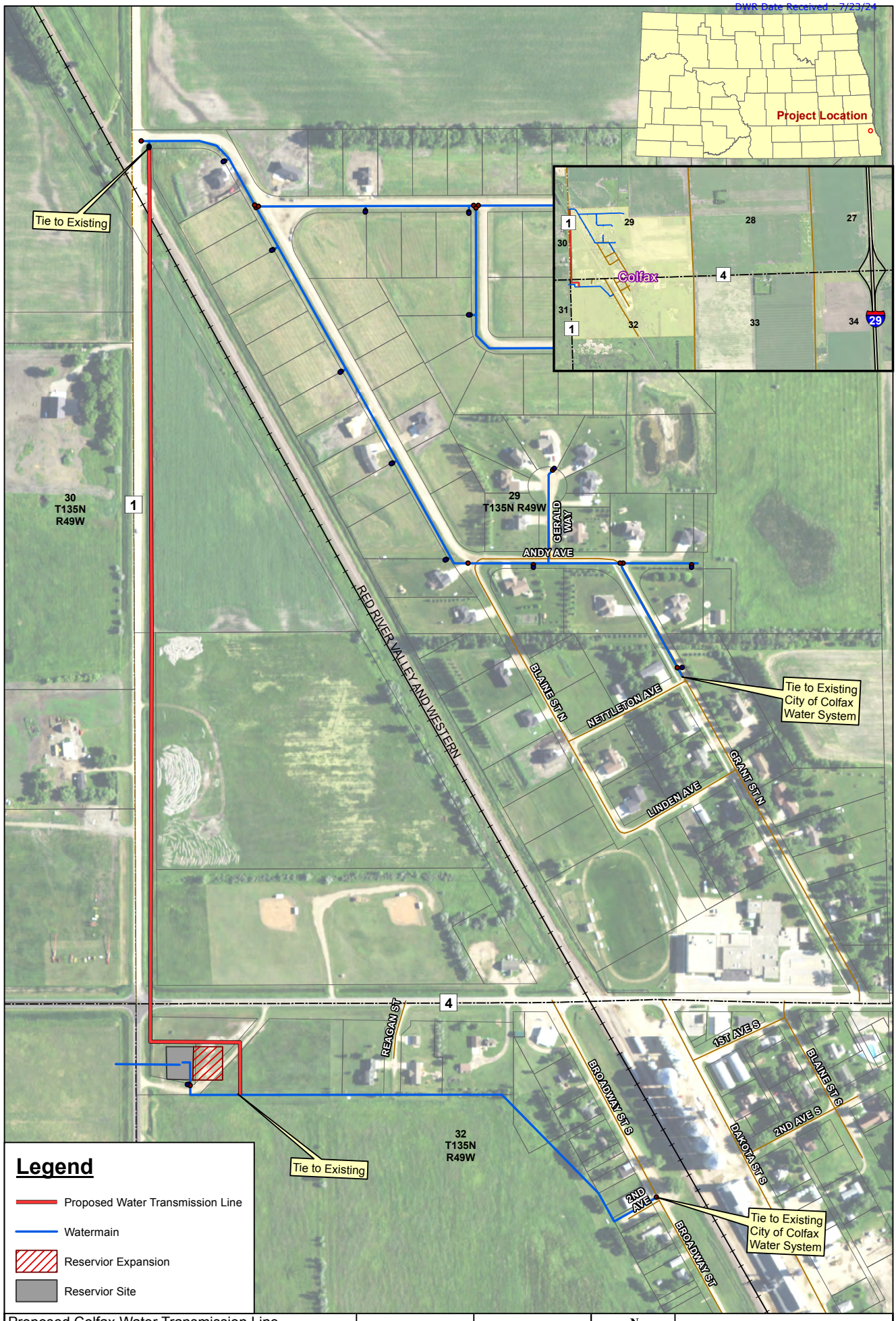
Rural Flood Control?:	No
Drain Reconstructions?:	No
Flood Recovery Property Acquisition?:	No
Community Flood Control, Rural Flood Control, Bank Stabilization, or Snag & Clear Project With Total Cost of $200,000 or More?:	No
Sovereign Land Permit, if Required:	
DWR Construction Permit, if Required:	
Conditional Letter of Map Revision (CLOMR), if Required:	
Feasibility/Engineering Study for the Proposed Project:	Yes
Feasibility/Engineering Study Material:	SIGNED - Facility Plan Report 12-21-23.pdf
Photos of Problem/Issue:	
Other Applicable Document(s):	No

Sources

Project Funding Sources - Include All Funding Sources for the Project (Should Equal Project Cost)

Source	If Other, Specify Funding Source	Source Status	State Fiscal Year 1 July to June	State Fiscal Year 2 July to June	Beyond Current Biennium	Total Cost	Type	Term	Interest Rate
Drinking Water State Revolving Fund		Current Request	$244,840.81	$0.00	$0.00	$244,840.81	Loan	30.00	2.00
Department of Water Resources Cost Share Construction		Current Request	$372,802.00 **$368,813.00**	$0.00	$0.00	$372,802.00	Grant	0.00	0.00
Other	ARPA Funds	Already Approved	$24,032.54	$0.00	$0.00	$24,032.54		0.00	0.00
Other	Municipal Infrastructure Fund (Prairie Dog Fund)	Already Approved	$48,244.65	$0.00	$0.00	$48,244.65		0.00	0.00
			$689,920.00	**$0.00**	**$0.00**	**$689,920.00**			

DWR Date Received : 7/23/24



Proposed Colfax Water Transmission Line
Waterlooping Project
Colfax, ND

User Name: Tyler.Birchem Date Exported: 1/31/2022 1:58:31 PM Date Saved: 1/31/2022 1:54:14 PM
Units: Foot Coordinate System: NAD 1983 2011 StatePlane North Dakota South FIPS 3302 Ftl
Document Path: Q:\2021\W21's\W2100048\CADD\GIS\11x17OverviewMap.mxd

0 75 150 300 Feet
1 inch = 300 feet

N W E S

INTERSTATE ENGINEERING

DELINEATION OF COSTS
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES
PLANNING AND EDUCATION
SFN 61801 (4/2024)

DWR Date Received : July 31, 2024

Project:	Watermain Looping
Sponsor:	City of Colfax
Contact:	Jen Skoog, City Auditor
Phone:	701-367-4370
Engineer:	Zach Hatting, Interstate Engineering
Phone:	701-642-5521

Total Cost :	$ 689,920
Ineligible Cost :	$ 24,033
Eligible Cost :	$ 665,888
Local Cost :	$ 290,387

Date: July 17, 2024

	Cost-Share $
Preconstruction :	$ 30,720
Construction :	$ 368,813

Project Type:	**Cost-share %**
Municipal Water Supply	60%

Item	%	Cost Classification	Quantities	Unit	Unit Price	Total	Cost-Share %	Cost-Share $ *
		Construction Costs						
1	1.8%	Mobilization	1	LS	10,000.00	$ 10,000	60%	$ 6,000
2	0.0%	Bonding	0		-	$ -	60%	$ -
3	1.1%	Insurance	1	LS	6,000.00	$ 6,000	60%	$ 3,600
4	0.0%		0			$ -	60%	$ -
5	2.7%	Connection to Existing Line	3	EA	5,000.00	$ 15,000	60%	$ 9,000
6	23.1%	Boring - Cased	266	LF	475.00	$ 126,350	60%	$ 75,810
7	4.9%	Water Main 6 in	536	LF	50.00	$ 26,800	60%	$ 16,080
8	43.0%	Boring - Poly	3134	LF	75.00	$ 235,050	60%	$ 141,030
9	2.9%	Fittings	700	LBS	23.00	$ 16,100	60%	$ 9,660
10	9.2%	Gate Valve	12	EA	4,200.00	$ 50,400	60%	$ 30,240
11	0.0%		0	EA		$ -	60%	$ -
12	0.4%	Traffic Control	1	LS	2,000.00	$ 2,000	60%	$ 1,200
13	0.2%	Erosion Control	1	LS	1,260.00	$ 1,260	60%	$ 756
14	0.7%	Stripping Soil	50	EA	75.00	$ 3,750	60%	$ 2,250
15	0.7%	Seeding	0.33	AC	12,000.00	$ 3,960	60%	$ 2,376
16	0.0%		0		-	$ -	60%	$ -
17	0.0%		0		-	$ -	60%	$ -
18	0.0%		0		-	$ -	60%	$ -
19	0.0%		0		-	$ -	60%	$ -
20	0.0%		0		-	$ -	60%	$ -
21	0.0%		0		-	$ -	60%	$ -
22	0.0%		0		-	$ -	60%	$ -
23	0.0%		0		-	$ -	60%	$ -
24	0.0%		0		-	$ -	60%	$ -
25	0.0%		0		-	$ -	60%	$ -
26	0.0%		0		-	$ -	60%	$ -
		Construction Sub-Total				$ 496,670	60%	$ 298,002
	10.0%	**Contingency**				$ 49,667	60%	$ 29,800
	79.2%	**Construction Total**				$ 546,337	60%	$ 327,802
		Preconstruction Costs						
27	9.4%	Preliminary Design	1	LS	51,200.00	$ 51,200	60%	$ 30,720
28	0.0%		0		-	$ -	60%	$ -
29	0.0%		0		-	$ -	60%	$ -
30	0.0%		0		-	$ -	60%	$ -
31	0.0%		0		-	$ -	60%	$ -
	7.4%	**Preconstruction Total**				$ 51,200	60%	$ 30,720
		Construction Engineering Costs						
32	13.7%	Project Inspection	1	LS	75,000.00	$ 75,000	60%	$ 45,000
33	0.0%		0		-	$ -	60%	$ -
34	0.0%		0		-	$ -	60%	$ -
35	0.0%		0		-	$ -	60%	$ -
36	0.0%		0		-	$ -	60%	$ -
	10.9%	**Construction Engineering Total**				$ 75,000	60%	$ 45,000
		Other Eligible Costs						
37	0.0%		0		-	$ -	60%	$ -
38	0.0%		0		-	$ -	60%	$ -
39	0.0%		0		-	$ -	60%	$ -
40	0.0%		0		-	$ -	60%	$ -
41	0.0%		0		-	$ -	60%	$ -
	0.0%	**Other Eligible Total**				$ -	60%	$ -
		In-eligible Costs						
42	1.8%	Administrative	1	LS	12,416.75	$ 12,417	0%	$ -
43	0.7%	Legal Expenses	1	LS	4,966.70	$ 4,967	0%	$ -
44	0.0%		0		-	$ -	0%	$ -
45	0.0%		0		-	$ -	0%	$ -
	2.5%	**Other Ineligible Total**				$ 17,383	0%	$ -
	100.0%				**Total**	$ 689,920		
					Eligible Total	$ 672,537	60%	$ 403,522
					Federal ARPA Funds - Balance after applied to Ineligible Costs	$ 6,649		
					Eligible Cost Total	$ 665,888	60%	$ 399,533

* The cost-share estimate is purely for planning and informational purposes only and does not, in any way, guarantee a financial commitment to any degree, from the State Water Commission.

Life Cycle Cost Analysis Review

Sponsor: City of Colfax
Project Title: Watermain Looping **Date:** August 22, 2024

Explanation of Alternatives:

No Action – The system remains in place as it is currently. The system will not have redundancy in case of a watermain break.

Watermain Looping (Preferred) - Construct a watermain loop to increase water pressure and provide system redundancy in the event of a watermain break. The proposed watermain loop would connect to the existing system at the reservoir. It would run north in the Richland County Road 1 right-of-way and connect to the existing water system in the northwest corner of Colfax Meadows 3rd Addition.

Inputs:

New Connections Served	0
Future Connections Served	48
Current Connections Served	109
Net Connections (New + Current)	109

Current CIF Balance	$13,615
Annual CIF Contribution	$500
Cash Funding Target (Percentage %) New Assets	10%
Cash Funding Target (Percentage %) Existing Asets	10%
Annual CIF Contribution suggested for the Project	$1,356

	Take No Action,	Watermain Looping		
Construction Cost	$0	$690,100		
Annual O & M	$35,426	$35,426		

Details:

LCCA Model Results:

Scenario Analysis - Present Value Life Cycle Cost Summary

Present Value	Take No Action,	Watermain Looping		
Capital Costs	$0	$690,000		
O&M	$983,000	$948,000		
Repair, Rehab, Replacement	$0	$153,000		
Salvage Value	$0	$10,000		
Total PVC	**$983,000**	**$1,781,000**		
PV Cost Per User	**$9,018**	**$16,339**		

Current Water Rate (Cost Per 5000g)		**$33**			
Comparable Water Rate		**$49**			
Net Connections (New + Current)		109	109		
Cost-Share Percent		60%	60%		
	Local Share	$0	$276,000		
	Other Funding	$0	$0		
	Total Local	$0	$276,000		
Payment Per User With Cost-Share		**$0.00**	**$12.81**		
	Local Share	$0	$690,000		
	Other Funding	$0	$0		
	Total Local	$0	$690,000		
Payment Per User Without Cost-Share		**$0.00**	**$32.02**		

Explanation of Results:

The sponsor preferred project is the "Watermain Looping" option. The present value cost of the preferred alternative is $1,781,000 and the presented alternative for comparison is "Take No Action" at a present value cost of $983,000. The present value cost per user for the preferred alternative is $9,018. The monthly user cost of the local share with DWR 60% cost-share participation is $12.81 per month and $32.02 without DWR participation.

	Year		Annual Population Growth Rate	Average Annual Population Increase/Decrease
ND Dept. of Commerce	2010	2020		
Population & Trends	121	154	2.7%	3

The economic model appears to have functioned properly. The results are deemed to be reliable and repeatable with the inputs provided by the project sponsor.

LCCA Version Version 1.2024.04.18

1083678 - University Avenue Watermain Replacement

Application Details

Funding Opportunity:	1083251-State Fiscal Year 2024-2025 Infrastructure Request
Funding Opportunity Due Date:	Jun 30, 2025 3:00 PM
Program Area:	Funding for Infrastructure in ND - FIND
Status:	Under Review
Stage:	Final Application
Initial Submit Date:	Jul 19, 2024 2:29 PM
Initially Submitted By:	Veronica Meyer
Last Submit Date:	Aug 13, 2024 11:19 AM
Last Submitted By:	Veronica Meyer

Contact Information

Primary Contact Information

Active User*:	Yes
Type:	External User
Name:	Salutation Veronica (First Name) Middle Name Meyer (Last Name)
Title:	Senior Project Engineer
Email*:	veronica.meyer@minotnd.gov
Address*:	po Box 5006
	Minot (City) North Dakota (State/Province) 58702-5006 (Postal Code/Zip)
Phone*:	701-857-4140 Ext. (Phone ###-###-####)
Fax:	###-###-####
Comments:	

Organization Information

Status*:	Approved
Name*:	City of Minot
Organization Type*:	Municipal Government
Tax Id:	
Organization Website:	
Address*:	1025 31st St. SE

PO Box 5006

Minot North Dakota 58701-____
City State/Province Postal Code/Zip

Phone*: (701) 857-4140 Ext.
###-###-####

Fax: ###-###-####

Vendor ID:

PeopleSoft Supplier ID:

Comments:

Location Code:

Infrastructure Funding Request

Infrastructure Funding Request

Project, Program, or Study Name*: University Avenue Watermain Replacement

Sponsor(s)*: City of Minot

County*: Ward

City*: Minot

Description of Request*: New

If Study, What Type:

If Project/Program, What Type:

Jurisdictions/Stakeholders Involved*:

City of Minot

Describe the Problem*:

The watermain in the University Avenue area of Minot is primarily cast-iron. This area is subject to frequent watermain breaks and water quality issues.

Provide Project Details, Objectives and Solutions to Address Problem*:

This project will replace 5,500 LF of existing cast-iron pipe with larger 8-inch PVC pipe thus reducing breaks and water quality issues.

For this project,

Choose City, County, Water District or Other*: City

What is the Current Estimated Population?*: 51000

For this project,

What is the Benefited Population?*: 300

Have Assessment Districts Been Formed?*: N/A

Have Land or Easements Been Acquired?*: N/A

Are There Any Properties with Wells, Drain Fields, or Holding Tanks Within the Project Area That Will Benefit from the Project?*: No

Are There Any Road Improvements Included as Part of the Project?*: No

Have You Applied For Any Federal Permits?*: No

If Yes or Ongoing, Please Explain (include type/number):

Have You Applied for any State Permits?*: No

If Yes or Ongoing, Please Explain (include type/number):

Have You Applied for any Local Permits?*: No

If Yes or Ongoing, Please Explain (include type/number):

Do You Expect Any Obstacles to Implementation (i.e. Problems with Land Acquisition, Permits, Funding, Local Opposition, Environmental Concerns, etc.)?*: No

Have You Received, or Do You Anticipate Receiving Federal Funding? (Example: Hazard Mitigation Grant Program) ***:** No

Implementation Timelines

Enter Start Date, Estimated Start Date or Not Applicable.

Study Completion*: N/A

Design Completion*: 3/27/24

Bid*: 4/25/24

Construction Start*: 7/2024

Construction Completion*: 10/31/2025

Explain Additional Timeline Issues*:

Construction has started on a replacing a small area of curb stops.

Consulting Engineer*: Houston Engineering, Inc.

Engineer Telephone Number*: 701-857-4140

Engineer Email*: veronica.meyer@minotnd.gov

Certification (Must Be Completed by Project Sponsor)

Submitted by*: Veronica (First Name) Meyer (Last Name) 07/19/2024 (Date)

Address*: PO Box 5006
Address Line 1
Address Line 2
Minot (City) North Dakota (State) 58702-5006 (Zip Code)

Telephone Number*: 701-857-4140

Sponsor Email*: veronica.meyer@minotnd.gov

I Certify That, to the Best of My Knowledge, the Provided Information is True and Accurate, and in Execution of This Project, the Sponsor Will Follow All Applicable Laws and Permitting Requirements. I Further Certify Assurance of Sustainable Operation, Maintenance, and Replacement of The Assets For Which We Are Requesting Cost-Share.*:	Yes
Authorized Individual*:	Veronica Meyer 07/19/2024 First Name Last Name Date
Title/Position/Authority*:	Senior Project Manager

Documentation

Documentation

Project in Extraterritorial Jurisdiction? If Yes, Add Boundary to Project Specific Map.*: CLICK HERE to see examples.	No
Project Specific Map Must Include Project Location in State Using an Inset Map and Distance/Direction to Nearest Community *:	NW Area Phase 2 SWC LOCATION MAP.pdf
Are You Seeking SRF or IRLF Funding?*:	Yes
Engineer's Estimate of Probable Cost Separate Project Components by Type (Storm Sewer, Sanitary Sewer and Associated Roads, Drinking Water and Associated Roads, and Roads) :	University WMR Bid Tab.pdf
Are You Seeking Department of Water Resources Cost-Share?*:	Yes
Are You Seeking Cost-Share for a Main Street Initiative Related Project?:	No
Attach Completed Comprehensive Plan: CLICK HERE for SFN 61801 Delineation of Costs Instructions and Current Version.	
Delineation of Costs SFN 61801:	sfn_61801_delineation_of_cost_construction-rev.xlsx
Type of Request:	Construction
Signed Plans and Specifications For Bidding:	University WMR Combined Bidding Documents.pdf
Water Supply Projects?:	Yes
CLICK HERE for Life Cycle Cost Analysis Instructions and Current Version, as Shown on Title Tab.	
Life Cycle Cost Analysis:	life_cycle_cost_analysis_worksheet_construction_rev.xlsx
CLICK HERE for SFN 62417 Basic Asset Inventory Tool and Current Version.	
Asset Inventory Assessment:	sfn_62417_basic_asset_inventory_tool_1.xlsx
Rural Flood Control?:	No
Drain Reconstructions?:	No
Flood Recovery Property Acquisition?:	No

Community Flood Control, Rural Flood Control, Bank Stabilization, or Snag & Clear Project With Total Cost of $200,000 or More?:	No
Sovereign Land Permit, if Required:	
DWR Construction Permit, if Required:	
Conditional Letter of Map Revision (CLOMR), if Required:	
Feasibility/Engineering Study for the Proposed Project:	No
Photos of Problem/Issue:	
Other Applicable Document(s):	
Other Applicable Document:	
Other Applicable Document:	
Other Applicable Document:	

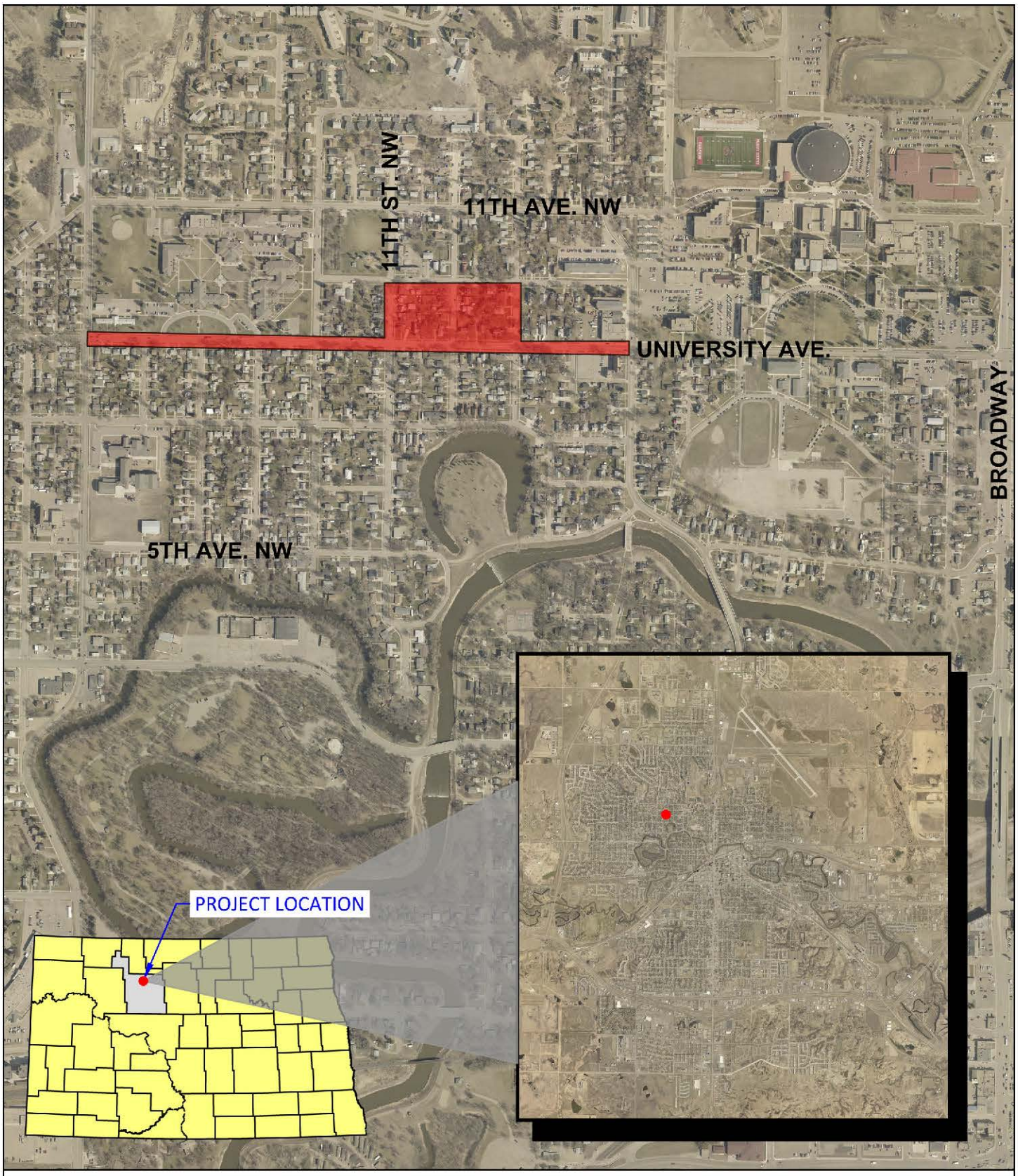
Sources

Project Funding Sources - Include All Funding Sources for the Project (Should Equal Project Cost)

Source	If Other, Specify Funding Source	Source Status	State Fiscal Year 1 July to June	State Fiscal Year 2 July to June	Beyond Current Biennium	Total Cost	Type	Term	Interest Rate
Department of Water Resources Cost Share Construction		Current Request	$0.00	$2,727,270.00	$0.00	$2,727,270.00	Grant	0.00	0.00
Drinking Water State Revolving Fund		Already Approved	$0.00	$2,064,756.00	$0.00	$2,064,756.00	Loan	0.00	0.00
			$0.00	**$4,792,026.00**	**$0.00**	**$4,792,026.00**			

Current request $1,827,757.00

DWR Date Received : 7/19/24



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COST-SHARE APPLICATION

NW MINOT RESIDENTIAL WATERMAIN REPLACEMENT - PHASE 2

DATE DRAWN: 10/02/2023

City of Minot

City of Minot

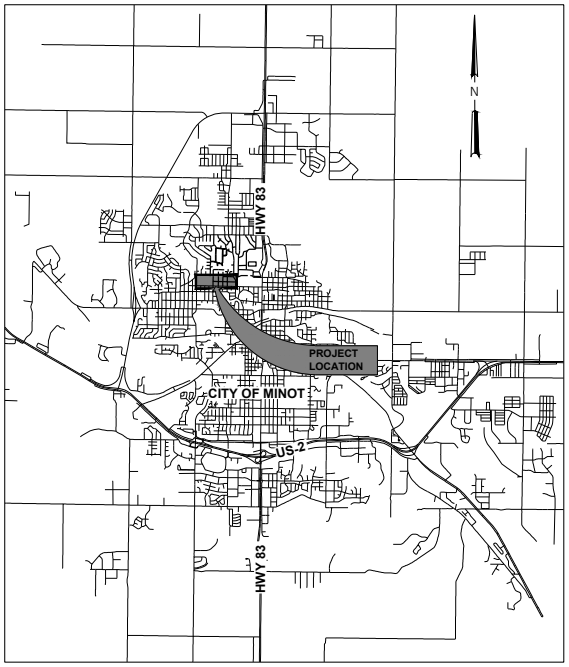
CONSTRUCTION PLANS FOR

UNIVERSITY WATERMAIN REPLACEMENT

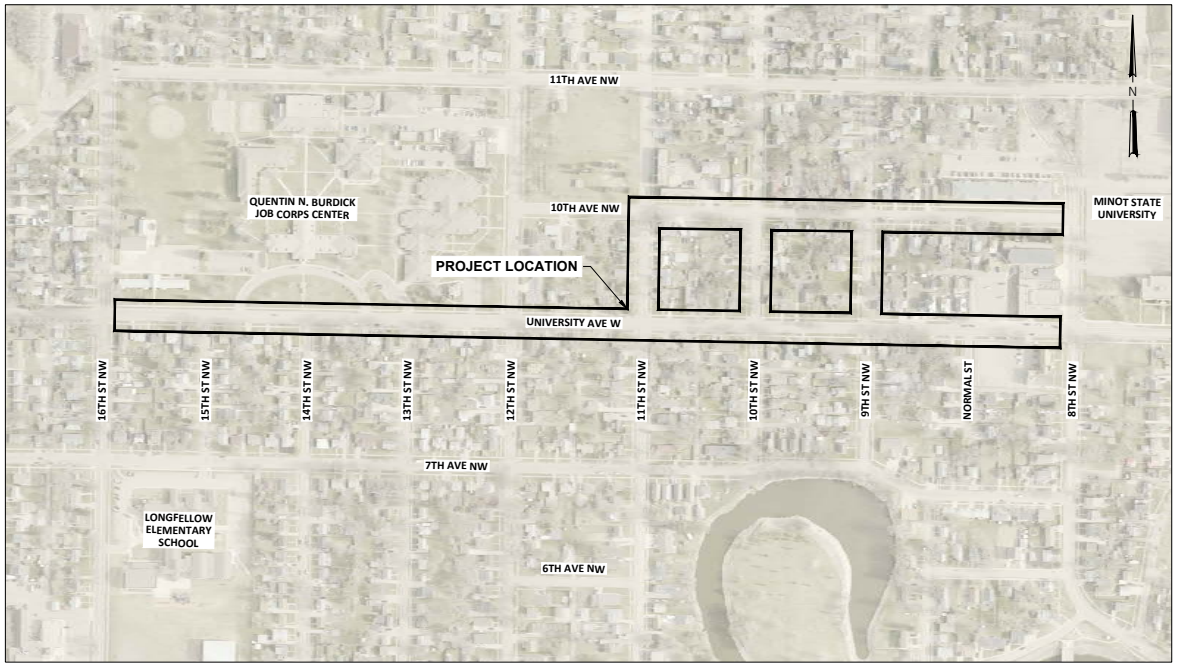
MINOT, NORTH DAKOTA

MARCH 2024

SHEET INDEX:



VICINITY MAP



LOCATION MAP

GOVERNING STANDARDS:

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) . THIS SPECIFICATION INCLUDES THE SHAPES, COLORS, AND FONTS USED IN ROAD MARKINGS AND SIGNS.

CONSTRUCTION SPECIFICATIONS FOR MUNICIPAL PUBLIC WORKS IMPROVEMENTS, ADOPTED BY THE CITY OF MINOT, NORTH DAKOTA, SHALL APPLY UNLESS SUPERCEDED BY THE SPECIFICATIONS AND OTHER CONTRACT PROVISIONS INCLUDED UNDER THIS PROJECT.

SURVEY INFORMATION

HORIZONTAL DATUM: NAD 83
VERTICAL DATUM: NAVD 88
COORDINATE SYSTEM: ND STATE PLANE NORTH ZONE
UNIT OF MEASURE: U.S. SURVEY FOOT

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION, AS-BUILT MAPS AS PROVIDED BY MUNICIPALITIES OR UTILITY COMPANIES, AND/OR EXISTING DRAWINGS. THERE IS NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN INDICATE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. NOR IS THERE A GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY RESULT FROM THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.

HOUSTON engineering, inc.
3900 13 AVE SOUTHEAST
MINOT, ND 58701
P: 701.852.7931
www.houstoneng.com

HEI Project No. 6027-0094
City of Minot Project No. 4816

REGISTERED PROFESSIONAL ENGINEER
JOSEPH A. REITER
PE-27418
DATE 03/27/2024
NORTH DAKOTA

HEI NO. 6027-0094

H:\BIM\6000\6027\6027_0094 University WMR\CAD\Plans\Cover Sheet & Legends.dwg-Cover Sheet-3/26/2024 12:11 PM-(klarson)

DELINEATION OF COSTS
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES
PLANNING AND EDUCATION
SFN 61801 (7/2024)

DWR Date Received : September 04, 2024

Project:	University Avenue Watermain Replacement - Construction
Sponsor:	City of Minot
Contact:	Veronica Meyer, Senior Project Manager
Phone:	701-857-4140
Engineer:	Joseph Reiter, PE, Houston Engineering, Inc.
Phone:	701-852-7931

Total Cost :	$ 4,792,026
Ineligible Cost :	$ 1,564,964
Eligible Cost :	$ 3,227,062
Local Cost :	$ 2,855,789

Date: September 4, 2024

	Cost-Share $
	$ 1,936,237
Preconstruction :	$ 108,480
Construction :	$ 1,827,757

Project Type:	**Cost-share %**
Municipal Water Supply	60%

Item	%	Cost Classification	Quantities	Unit	Unit Price	Total	Cost-Share %	Cost-Share $ *
		Construction Costs						
1	9.8%	Mobilization	1	LS	275,000.00	$ 275,000	60%	$ 165,000
2	0.0%	Bonding	0		-	$ -	60%	$ -
3	0.0%	Insurance	0		-	$ -	60%	$ -
4	1.1%	Traffic Control	1	LS	32,000.00	$ 32,000	60%	$ 19,200
5	0.7%	Erosion Control	1	LS	20,000.00	$ 20,000	60%	$ 12,000
6	1.8%	Gate - Remove	23	EA	2,200.00	$ 50,600	60%	$ 30,360
7	1.0%	Hydrant - Remove	10	EA	2,800.00	$ 28,000	60%	$ 16,800
8	0.1%	Water Main 4 in	14	LF	250.00	$ 3,500	60%	$ 2,100
9	0.7%	Water Main 6 in	142	LF	138.00	$ 19,596	60%	$ 11,758
10	36.0%	Water Main 8 in	5464	LF	184.77	$ 1,009,600	60%	$ 605,760
11	5.1%	Gate Valve	25	EA	5,696.00	$ 142,400	60%	$ 85,440
12	5.1%	Hydrant	10	EA	14,250.00	$ 142,500	60%	$ 85,500
13	1.0%	Water Service Line	204	LF	132.94	$ 27,120	60%	$ 16,272
14	18.9%	Curb Stop	90	EA	5,900.00	$ 531,000	60%	$ 318,600
15	1.4%	Connection to Existing Line	16	EA	2,400.00	$ 38,400	60%	$ 23,040
16	21.1%	Sidewalk - Remove and Replace	1398	SY	424.15	$ 592,962	60%	$ 355,777
17	11.9%	Road Repair	4082	SY	81.73	$ 333,622	60%	$ 200,173
18	0.0%	Work Est through Oct 11	1	LS	(694,424.50)	-$ 694,425	60%	-$ 416,655
19	0.0%		0		-	$ -	60%	$ -
20	0.0%		0		-	$ -	60%	$ -
21	0.0%		0		-	$ -	60%	$ -
22	0.0%		0		-	$ -	60%	$ -
23	0.0%		0		-	$ -	60%	$ -
24	0.0%		0		-	$ -	60%	$ -
25	0.0%		0		-	$ -	60%	$ -
26	0.0%		0		-	$ -	60%	$ -
		Construction Sub-Total				$ 2,551,874	60%	$ 1,531,125
	10.0%	**Contingency**				$ 255,187	60%	$ 153,112
	58.6%	**Construction Total**				$ 2,807,062	60%	$ 1,684,237
		Preconstruction Costs						
27	6.4%	Final Design	1	LS	180,800.00	$ 180,800	60%	$ 108,480
28	0.0%		0		-	$ -	60%	$ -
29	0.0%		0		-	$ -	60%	$ -
30	0.0%		0		-	$ -	60%	$ -
31	0.0%		0		-	$ -	60%	$ -
	3.8%	**Preconstruction Total**				$ 180,800	60%	$ 108,480
		Construction Engineering Costs						
32	3.7%	Construction Contract Management	1	LS	104,800.00	$ 104,800	60%	$ 62,880
33	4.8%	Project Inspection	1	LS	134,400.00	$ 134,400	60%	$ 80,640
34	0.0%		0		-	$ -	60%	$ -
35	0.0%		0		-	$ -	60%	$ -
36	0.0%		0		-	$ -	60%	$ -
	5.0%	**Construction Engineering Total**				$ 239,200	60%	$ 143,520
		Other Eligible Costs						
37	0.0%		0		-	$ -	60%	$ -
38	0.0%		0		-	$ -	60%	$ -
39	0.0%		0		-	$ -	60%	$ -
40	0.0%		0		-	$ -	60%	$ -
41	0.0%		0		-	$ -	60%	$ -
	0.0%	**Other Eligible Total**				$ -	60%	$ -
		In-eligible Costs						
42	4.9%	Other	1	LS	234,575.00	$ 234,575	0%	$ -
43	0.3%	Other Construction Lead Service Lines	60	LF	200.00	$ 12,000	0%	$ -
44	14.5%	Work Est through Oct 11	1	LS	694,424.50	$ 694,425	0%	$ -
45	2.5%	Other Contingency	1	LS	119,853.51	$ 119,854	0%	$ -
46	10.5%	Other Road Construction	6168	SY	81.73	$ 504,111	0%	$ -
	32.7%	**Other Ineligible Total**				$ 1,564,964	0%	$ -
	100.0%	**Total**				$ 4,792,026		
		Eligible Total				$ 3,227,062	60%	$ 1,936,237
		Federal or State Funds That Supplant Costs				$ -		
		Eligible Cost Total				$ 3,227,062	60%	$ 1,936,237

* The cost-share estimate is purely for planning and informational purposes only and does not, in any way, guarantee a financial commitment to any degree, from the State Water Commission.

Life Cycle Cost Analysis Review

Sponsor: City of Minot
Project Title: University Avenue Watermain Replacement **Date:** September 4, 2024

Explanation of Alternatives:

Watermain Replacement (Preferred) - Replace existing cast iron pipe with PVC pipe at selected main locations to reduce breaks and improve water quality.
Do Nothing - Leave the system as is and continue to do spot repairs as needed.

Inputs:

New Connections Served	0
Future Connections Served	0
Current Connections Served	100
Net Connections (New + Current)	100

Current CIF Balance	$5,457,231
Annual CIF Contribution	$18,520,000
Cash Funding Target (Percentage %) New Assets	45%
Cash Funding Target (Percentage %) Existing Asets	0%
Annual CIF Contribution suggested for the Project	**$0**

	Watermain Replacement	Do Nothing		
Construction Cost	$4,417,000	$0		
Annual O & M	$0	$25,000		

Details:

LCCA Model Results:

Scenario Analysis - Present Value Life Cycle Cost Summary

Present Value	Watermain Replacement	Do Nothing		
Capital Costs	$4,417,000	$0		
O&M	$0	$694,000		
Repair, Rehab, Replacement	$597,000	$0		
Salvage Value	$159,000	$0		
Total PVC	**$4,855,000**	**$694,000**		
PV Cost Per User	**$48,550**	**$6,940**		

Current Water Rate (Cost Per 5000g)		**$38**			
Comparable Water Rate		**$37**			
Net Connections (New + Current)		100	100		
Cost-Share Percent		60%	60%		
	Local Share	$1,766,800	$0		
	Other Funding	$0	$0		
	Total Local	$1,766,800	$0		
Payment Per User With Cost-Share		**$89.38**	**$0.00**		
	Local Share	$4,417,000	$0		
	Other Funding	$0	$0		
	Total Local	$4,417,000	$0		
Payment Per User Without Cost-Share		**$223.45**	**$0.00**		

Explanation of Results:

The sponsor preferred project is the “Watermain Replacement” option. The present value cost of the preferred alternative is $4,855,000 and the presented alternative for comparison is “Do Nothing” at a present value cost of $694,000. The present value cost per user for the preferred alternative is $48,550. The monthly user cost of the local share with DWR 60% cost-share participation is $89 per month and $223 without DWR participation based upon 100 direct user connections.

	Year		Annual Population Growth	Average Annual Population
ND Dept. of Commerce	2010	2020	Rate	Increase/Decrease
Population & Trends	40,888	47,428	1.6%	654

The economic model appears to have functioned properly. The results are deemed to be reliable and repeatable with the inputs provided by the project sponsor.

LCCA Version Version 1.2024.04.18

1083398 - Westfield Watermain Replacement

Application Details

Funding Opportunity:	1083251-State Fiscal Year 2024-2025 Infrastructure Request
Funding Opportunity Due Date:	Jun 30, 2025 3:00 PM
Program Area:	Funding for Infrastructure in ND - FIND
Status:	Submitted
Stage:	Final Application
Initial Submit Date:	Jul 18, 2024 3:50 PM
Initially Submitted By:	Veronica Meyer
Last Submit Date:	Aug 13, 2024 1:11 PM
Last Submitted By:	Veronica Meyer

Contact Information

Primary Contact Information

Active User*:	Yes
Type:	External User
Name:	Salutation Veronica (First Name) Middle Name Meyer (Last Name)
Title:	Senior Project Engineer
Email*:	veronica.meyer@minotnd.gov
Address*:	po Box 5006
	Minot (City) North Dakota (State/Province) 58702-5006 (Postal Code/Zip)
Phone*:	701-857-4140 Ext. (Phone ###-###-####)
Fax:	###-###-####
Comments:	

Organization Information

Status*:	Approved
Name*:	City of Minot
Organization Type*:	Municipal Government
Tax Id:	
Organization Website:	
Address*:	1025 31st St. SE

PO Box 5006

Minot North Dakota 58701-____
City State/Province Postal Code/Zip

Phone*: (701) 857-4140 Ext.
###-###-####

Fax: ###-###-####

Vendor ID:

PeopleSoft Supplier ID:

Comments:

Location Code:

Infrastructure Funding Request

Infrastructure Funding Request

Project, Program, or Study Name*: Westfield Watermain Replacement

Sponsor(s)*: City of Minot

County*: Ward

City*: Minot

Description of Request*: New

If Study, What Type:

If Project/Program, What Type:

Jurisdictions/Stakeholders Involved*:

City of Minot

Describe the Problem*:

The watermain in the Westfield Addition area of Minot is primarily cast-iron pipe. This area is subject to frequent watermain breaks and water quality issues.

Provide Project Details, Objectives and Solutions to Address Problem*:

The project will replace 6,400 LF of existing cast-iron pipe with larger 8-inch PVC pipe thus reducing breaks and water quality issues.

For this project,

Choose City, County, Water District or Other*: City

What is the Current Estimated Population?*: 51000

For this project,

What is the Benefited Population?*: 500

Have Assessment Districts Been Formed?*: N/A

Have Land or Easements Been Acquired?*: N/A

Are There Any Properties with Wells, Drain Fields, or Holding Tanks Within the Project Area That Will Benefit from the Project?*: No

Are There Any Road Improvements Included as Part of the Project?*: No

Have You Applied For Any Federal Permits?*: No

If Yes or Ongoing, Please Explain (include type/number):

Have You Applied for any State Permits?*: No

If Yes or Ongoing, Please Explain (include type/number):

Have You Applied for any Local Permits?*: No

If Yes or Ongoing, Please Explain (include type/number):

Do You Expect Any Obstacles to Implementation (i.e. Problems with Land Acquisition, Permits, Funding, Local Opposition, Environmental Concerns, etc.)?*: No

Have You Received, or Do You Anticipate Receiving Federal Funding? (Example: Hazard Mitigation Grant Program) ***:** No

Implementation Timelines

Enter Start Date, Estimated Start Date or Not Applicable.

Study Completion*: N/A

Design Completion*: 3/13/2024

Bid*: 4/9/2024

Construction Start*: 7/2024

Construction Completion*: 10/31/2025

Explain Additional Timeline Issues*:

No additional timeline issues are anticipated.

Consulting Engineer*: Houston Engineering, Inc.

Engineer Telephone Number*: 701-857-4140

Engineer Email*: veronica.meyer@minotnd.gov

Certification (Must Be Completed by Project Sponsor)

Submitted by*: Veronica (First Name) Meyer (Last Name) 07/18/2024 (Date)

Address*: PO Box 5006
Address Line 1
Address Line 2
Minot (City) North Dakota (State) 58702-5006 (Zip Code)

Telephone Number*: 701-857-4140

Sponsor Email*: veronica.meyer@minotnd.gov

I Certify That, to the Best of My Knowledge, the Provided Information is True and Accurate, and in Execution of This Project, the Sponsor Will Follow All Applicable Laws and Permitting Requirements. I Further Certify Assurance of Sustainable Operation, Maintenance, and Replacement of The Assets For Which We Are Requesting Cost-Share.*:	Yes
Authorized Individual*:	Veronica Meyer 07/18/2024 First Name Last Name Date
Title/Position/Authority*:	Senior Project Manager

Documentation

Documentation

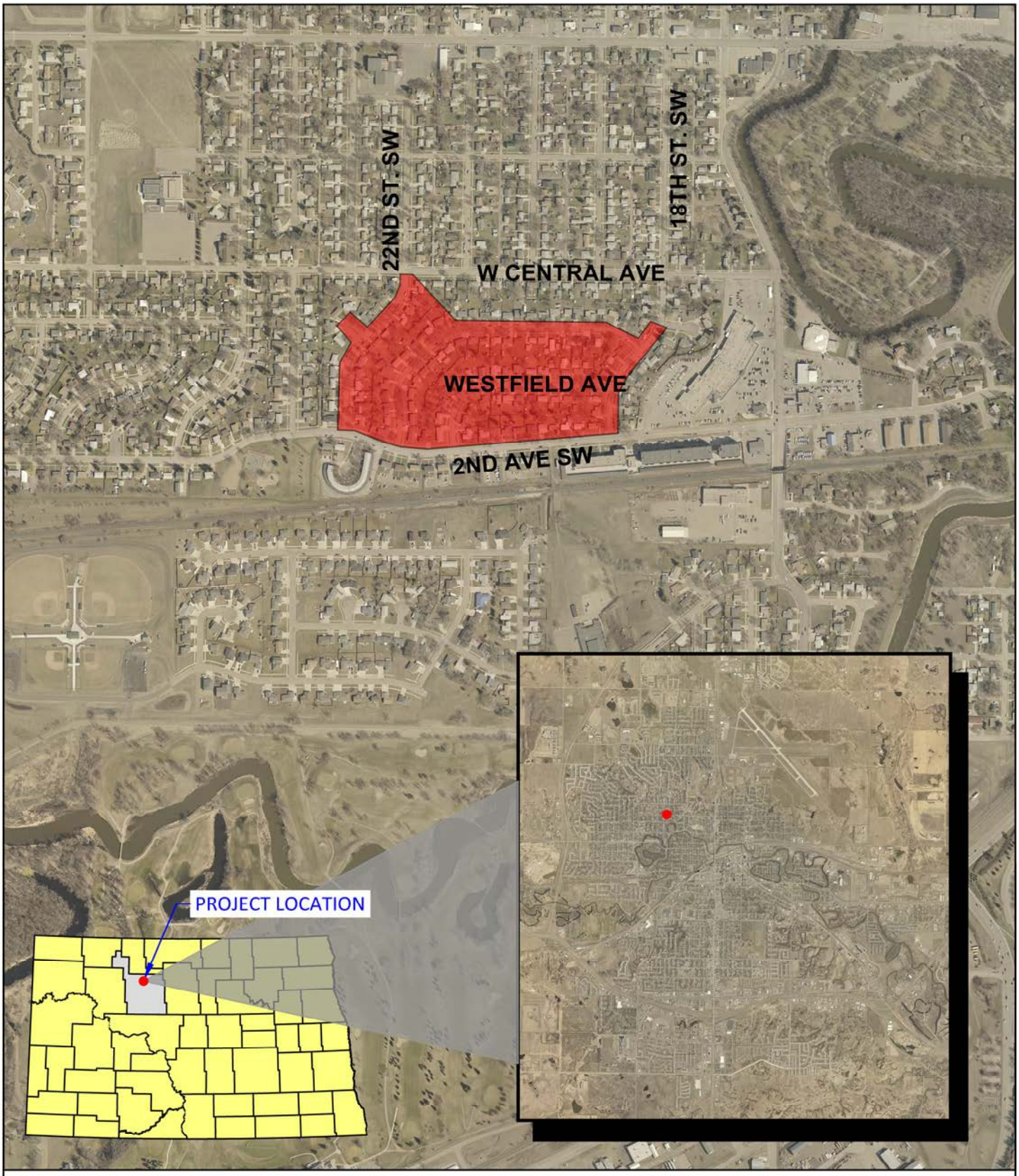
Project in Extraterritorial Jurisdiction? If Yes, Add Boundary to Project Specific Map.*: CLICK HERE to see examples.	No
Project Specific Map Must Include Project Location in State Using an Inset Map and Distance/Direction to Nearest Community *:	Westfield Addition Watermain SWC LOCATION MAP.pdf
Are You Seeking SRF or IRLF Funding?*:	Yes
Engineer's Estimate of Probable Cost Separate Project Components by Type (Storm Sewer, Sanitary Sewer and Associated Roads, Drinking Water and Associated Roads, and Roads) :	Westfield WMR Bid Tab.pdf
Are You Seeking Department of Water Resources Cost-Share?*:	Yes
Are You Seeking Cost-Share for a Main Street Initiative Related Project?:	No
Attach Completed Comprehensive Plan: CLICK HERE for SFN 61801 Delineation of Costs Instructions and Current Version.	
Delineation of Costs SFN 61801:	sfn_61801_delineation_of_cost_construction_rev Westfield.xlsx
Type of Request:	Construction
Signed Plans and Specifications For Bidding:	Westfield WMR Combined Bidding Documents.pdf
Water Supply Projects?:	Yes
CLICK HERE for Life Cycle Cost Analysis Instructions and Current Version, as Shown on Title Tab.	
Life Cycle Cost Analysis:	life_cycle_cost_analysis_worksheet_construction.xlsx
CLICK HERE for SFN 62417 Basic Asset Inventory Tool and Current Version.	
Asset Inventory Assessment:	sfn_62417_basic_asset_inventory_tool_1.xlsx
Rural Flood Control?:	No
Drain Reconstructions?:	No
Flood Recovery Property Acquisition?:	No

Community Flood Control, Rural Flood Control, Bank Stabilization, or Snag & Clear Project With Total Cost of $200,000 or More?:	No
Sovereign Land Permit, if Required:	
DWR Construction Permit, if Required:	
Conditional Letter of Map Revision (CLOMR), if Required:	
Feasibility/Engineering Study for the Proposed Project:	No
Photos of Problem/Issue:	
Other Applicable Document(s):	
Other Applicable Document:	
Other Applicable Document:	
Other Applicable Document:	

Sources

Project Funding Sources - Include All Funding Sources for the Project (Should Equal Project Cost)

Source	If Other, Specify Funding Source	Source Status	State Fiscal Year 1 July to June	State Fiscal Year 2 July to June	Beyond Current Biennium	Total Cost	Type	Term	Interest Rate
Department of Water Resources Cost Share Construction			$0.00	$3,330,906.00	$0.00	$3,330,906.00	Grant	0.00	0.00
				$2,341,417.00 current request					
Drinking Water State Revolving Fund		Already Approved	$0.00	$2,340,290.00	$0.00	$2,340,290.00	Loan	0.00	0.00
			$0.00	**$5,671,196.00**	**$0.00**	**$5,671,196.00**			



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COST-SHARE APPLICATION

WESTFIELD ADDITION MINOT RESIDENTIAL WATERMAIN REPLACEMENT

DATE DRAWN: 10/02/2023

City of Minot

DELINEATION OF COSTS
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES
PLANNING AND EDUCATION
SFN 61801 (7/2024)

DWR Date Received : September 04, 2024

Project:	Westfield Watermain Replacement - Construction
Sponsor:	City of Minot
Contact:	Veronica Meyer, Senior Project Manager
Phone:	701-857-4140
Engineer:	Joseph Reiter, PE, Houston Engineering, Inc.
Phone:	701-852-7931

Total Cost :	$ 5,671,196
Ineligible Cost :	$ 1,588,034
Eligible Cost :	$ 4,083,161
Local Cost :	$ 3,221,299

Date: September 4, 2024

	Cost-Share $
	$ 2,449,897
Preconstruction :	$ 108,480
Construction :	$ 2,341,417

Project Type:	**Cost-share %**
Municipal Water Supply	60%

Item	%	Cost Classification	Quantities	Unit	Unit Price	Total	Cost-Share %	Cost-Share $ *
		Construction Costs						
1	3.8%	Mobilization	1	LS	140,000.00	$ 140,000	60%	$ 84,000
2	0.0%	Bonding	0		-	$ -	60%	$ -
3	0.0%	Insurance	0		-	$ -	60%	$ -
4	0.7%	Traffic Control	1	LS	25,000.00	$ 25,000	60%	$ 15,000
5	0.3%	Erosion Control	1	LS	10,000.00	$ 10,000	60%	$ 6,000
6	0.1%	Gate - Remove	15	EA	175.00	$ 2,625	60%	$ 1,575
7	0.1%	Hydrant - Remove	14	EA	300.00	$ 4,200	60%	$ 2,520
8	1.1%	Water Main 6 in	226	LF	175.00	$ 39,550	60%	$ 23,730
9	42.4%	Water Main 8 in	5979	LF	259.58	$ 1,552,029	60%	$ 931,217
10	4.9%	Gate Valve	20	EA	9,000.00	$ 180,000	60%	$ 108,000
11	5.2%	Hydrant	16	EA	12,000.00	$ 192,000	60%	$ 115,200
12	5.7%	Water Service Line	999	LF	210.45	$ 210,240	60%	$ 126,144
13	23.6%	Curb Stop	145	EA	5,972.10	$ 865,955	60%	$ 519,573
14	2.3%	Connection to Existing Line	14	EA	6,000.00	$ 84,000	60%	$ 50,400
15	19.3%	Sidewalk - Remove and Replace	837	SY	845.75	$ 707,896	60%	$ 424,738
16	12.1%	Road Repair	7437	SY	59.61	$ 443,305	60%	$ 265,983
17	0.0%	Work Est through Oct 11	1	LS	(1,126,652.50)	-$ 1,126,653	60%	-$ 675,992
18	0.0%		0		-	$ -	60%	$ -
19	0.0%		0		-	$ -	60%	$ -
20	0.0%		0		-	$ -	60%	$ -
21	0.0%		0		-	$ -	60%	$ -
22	0.0%		0		-	$ -	60%	$ -
23	0.0%		0		-	$ -	60%	$ -
24	0.0%		0		-	$ -	60%	$ -
25	0.0%		0		-	$ -	60%	$ -
26	0.0%		0		-	$ -	60%	$ -
		Construction Sub-Total				$ 3,330,147	60%	$ 1,998,088
	10.0%	**Contingency**				$ 333,015	60%	$ 199,809
	64.6%	**Construction Total**				$ 3,663,161	60%	$ 2,197,897
		Preconstruction Costs						
27	4.9%	Final Design	1	LS	180,800.00	$ 180,800	60%	$ 108,480
28	0.0%		0		-	$ -	60%	$ -
29	0.0%		0		-	$ -	60%	$ -
30	0.0%		0		-	$ -	60%	$ -
31	0.0%		0		-	$ -	60%	$ -
	3.2%	**Preconstruction Total**				$ 180,800	60%	$ 108,480
		Construction Engineering Costs						
32	2.9%	Construction Contract Management	1	LS	104,800.00	$ 104,800	60%	$ 62,880
33	3.7%	Project Inspection	1	LS	134,400.00	$ 134,400	60%	$ 80,640
34	0.0%		0		-	$ -	60%	$ -
35	0.0%		0		-	$ -	60%	$ -
36	0.0%		0		-	$ -	60%	$ -
	4.2%	**Construction Engineering Total**				$ 239,200	60%	$ 143,520
		Other Eligible Costs						
37	0.0%		0		-	$ -	60%	$ -
38	0.0%		0		-	$ -	60%	$ -
39	0.0%		0		-	$ -	60%	$ -
40	0.0%		0		-	$ -	60%	$ -
41	0.0%		0		-	$ -	60%	$ -
	0.0%	**Other Eligible Total**				$ -	60%	$ -
		In-eligible Costs						
42	2.1%	Other	1	LS	116,685.00	$ 116,685	0%	$ -
43	0.1%	Other Construction Lead Service Lines	60	LF	50.00	$ 3,000	0%	$ -
44	19.9%	Work Est through Oct 11	1	LS	1,126,652.50	$ 1,126,653	0%	$ -
45	2.4%	Other Contingency	1	LS	133,486.00	$ 133,486	0%	$ -
46	3.7%	Other Road Construction	3493	SY	59.61	$ 208,211	0%	$ -
	28.0%	**Other Ineligible Total**				$ 1,588,034	0%	$ -
	100.0%				**Total**	$ 5,671,196		
					Eligible Total	$ 4,083,161	60%	$ 2,449,897
					Federal or State Funds That Supplant Costs	$ -		
					Eligible Cost Total	$ 4,083,161	60%	$ 2,449,897

* The cost-share estimate is purely for planning and informational purposes only and does not, in any way, guarantee a financial commitment to any degree, from the State Water Commission.

Life Cycle Cost Analysis Review

Sponsor: City of Minot
Project Title: Westfield Watermain Replacement **Date:** September 4, 2024

Explanation of Alternatives:

Watermain Replacement (Preferred) - Replace existing cast iron pipe with PVC pipe at selected main locations to reduce breaks and improve water quality.

Do Nothing - Leave the system as is and continue to do spot repairs as needed.

Inputs:

New Connections Served	0
Future Connections Served	0
Current Connections Served	100
Net Connections (New + Current)	100

Current CIF Balance	$5,457,231
Annual CIF Contribution	$18,520,000
Cash Funding Target (Percentage %) New Assets	45%
Cash Funding Target (Percentage %) Existing Asets	0%
Annual CIF Contribution suggested for the Project	**$0**

	Watermain Replacement	Do Nothing		
Construction Cost	$5,194,600	$0		
Annual O & M	$0	$0		

Details:

Do Nothing is reported with no O&M which should require repair funding if "...continue to do spot repairs." is accurate.

LCCA Model Results:

Scenario Analysis - Present Value Life Cycle Cost Summary

Present Value	Watermain Replacement	Do Nothing		
Capital Costs	$5,195,000	$0		
O&M	$0	$0		
Repair, Rehab, Replacement	$1,175,000	$0		
Salvage Value	$315,000	$0		
Total PVC	**$6,055,000**	**$0**		
PV Cost Per User	**$60,550**	**$0**		

Current Water Rate (Cost Per 5000g)		**$38**			
Comparable Water Rate		**$37**			
Net Connections (New + Current)		100	100		
Cost-Share Percent		60%	60%		
	Local Share	$2,078,000	$0		
	Other Funding	$0	$0		
	Total Local	$2,078,000	$0		
Payment Per User With Cost-Share		**$105.12**	**$0.00**		
	Local Share	$5,195,000	$0		
	Other Funding	$0	$0		
	Total Local	$5,195,000	$0		
Payment Per User Without Cost-Share		**$262.81**	**$0.00**		

Explanation of Results:

The sponsor preferred project is the “Waterline Replacement” option. The present value cost of the preferred alternative is $6,055,000 and the presented alternative for comparison is a “Do Nothing” at a present value cost of $0. The present value cost per user for the preferred alternative is $60,550. The monthly user cost of the local share with DWR 60% cost-share participation is $105 per month and $263 without DWR participation based upon 100 direct user connections.

	Year		Annual Population Growth Rate	Average Annual Population Increase/Decrease
ND Dept. of Commerce	2010	2020		
Population & Trends	40,888	47,428	1.6%	654

The economic model appears to have functioned properly. The results are deemed to be reliable and repeatable with the inputs provided by the project sponsor.

LCCA Version Version 1.2024.04.18

1083942 - SEWUD - West WTP Improvements Project - Copy

Application Details

Funding Opportunity:	1083251-State Fiscal Year 2024-2025 Infrastructure Request
Funding Opportunity Due Date:	Jun 30, 2025 3:00 PM
Program Area:	Funding for Infrastructure in ND - FIND
Status:	Under Review
Stage:	Final Application
Initial Submit Date:	Aug 27, 2024 2:57 PM
Initially Submitted By:	Chase Julson
Last Submit Date:	Aug 29, 2024 8:20 AM
Last Submitted By:	Chase Julson

Contact Information

Primary Contact Information

Active User*:	Yes
Type:	External User
Name:	Salutation: Chase (First Name) H (Middle Name) Julson (Last Name)
Title:	Project Engineer
Email*:	chase.julson@ae2s.com
Address*:	7406 17th Street South
	Fargo (City) North Dakota (State/Province) 58104 (Postal Code/Zip)
Phone*:	701-899-4069 Ext. (Phone ###-###-####)
Fax:	###-###-####
Comments:	

Organization Information

Status*:	Approved
Name*:	Southeast Water Users District
Organization Type*:	Political Subdivision
Tax Id:	45-0345414
Organization Website:	https://www.seh2o.com
Address*:	206 Main St

PO Box 10

Mantador North Dakota 58058-0010
City State/Province Postal Code/Zip

Phone*: 701-242-7432 Ext.
###-###-####

Fax: 701-242-7807
###-###-####

Vendor ID:

PeopleSoft Supplier ID:

Comments:

Location Code:

Infrastructure Funding Request

Infrastructure Funding Request

Project, Program, or Study Name*: SEWUD - West WTP Improvements Project

Sponsor(s)*: Southeast Water Users District

County*: Multiple

City*: Mantador

Description of Request*: Updated (previously submitted)

If Study, What Type:

If Project/Program, What Type: Rural Water Supply

Jurisdictions/Stakeholders Involved*:

This project will address pressing concerns about the source water quality and quantity that serves three (3) North Dakota counties (Dickey, LaMoure, and Logan) encompassing approximately 970 rural members, three (3) Hutterite Colonies, three (3) individually served communities including Fredonia, Merricourt, and Nortonville, and nine (9) bulk service communities which include Berlin, Edgeley, Ellendale, Fullerton, Gackle, Guelph, Jud, Kulm, and Monango.

Describe the Problem*:

The SEWUD-West WTP, equipped with a 1,000 gpm Iron and Manganese Filtronics proprietary water filter system installed in 1996, is experiencing a decline in source water quality, is experiencing a lack of available source water, and is experiencing a lack of finished water storage during peak times. The current construction funding request pertains to two of three components of the SEWUD-West Water Treatment Plant (WTP) Improvements Project. More specifically, our current request is for: (1) the SEWUD-West Wellfield Expansion and (2) SEWUD-West WTP Ground Storage Reservoir (GSR) components of this project. The third component, the SEWUD-West WTP Treatment Improvements, is still under design and a request for construction cost-share related to these improvements will be requested at a later State Water Commission meeting. The design for this portion of the project is anticipated to extend into early 2025.

Provide Project Details, Objectives and Solutions to Address Problem*:

The SEWUD-West Wellfield Expansion Project includes the construction of three (3) new additional wells to complement the existing three (3) wells in the wellfield. This expansion will provide SEWUD-West with additional source water capacity, addressing the current concerns surrounding source water availability while ensuring that adequate supply is available for the future WTP Treatment Improvements Project. The SEWUD-West WTP GSR Project includes the construction of a new 500,000 gallon water storage reservoir, which will supplement the existing 500,000 gallon water storage reservoir. The addition of this added storage will help ensure adequate treated water is available for all customers during peak water usage periods. The increased storage capacity will also enhance the SEWUD-West system's resilience during emergencies or maintenance activities, providing a critical buffer to maintain uninterrupted water service for all users.

For this project,

Choose City, County, Water District or Other*: Water District

What is the Current Estimated Population?*: 6492

For this project,

What is the Benefited Population?*: 6492

Have Assessment Districts Been Formed?*: N/A

Have Land or Easements Been Acquired?*: Yes

Are There Any Properties with Wells, Drain Fields, or Holding Tanks Within the Project Area That Will Benefit from the Project?*: No

Are There Any Road Improvements Included as Part of the Project?*: No

Have You Applied For Any Federal Permits?*: No

Have You Applied for any State Permits?*: Ongoing

If Yes or Ongoing, Please Explain (include type/number):

Submitted in 2022 for DWR Water Permit #7264 Request for an additional 500 Ac-Ft that is currently under review; in 2024 SEWUD submitted for DWR Water Permit #7390 Request for an additional 500 Ac-Ft that is currently in processing

Have You Applied for any Local Permits?*: No

Do You Expect Any Obstacles to Implementation (i.e. Problems with Land Acquisition, Permits, Funding, Local Opposition, Environmental Concerns, etc.)?*: No

Have You Received, or Do You Anticipate Receiving Federal Funding?
(Example: Hazard Mitigation Grant Program)
***:** No

Implementation Timelines

Enter Start Date, Estimated Start Date or Not Applicable.

Study Completion*: 10/2023

Design Completion*: 01/2025

Bid*: 02/2025 Sept. 26, 2024

Construction Start*: 04/2025

Construction Completion*: 11/2026

Explain Additional Timeline Issues*:

Design has been completed for the following two (2) projects - SEWUD-West Wellfield Expansion and SEWUD- West WTP Ground Storage Reservoir. Advertisement is slated to begin on August 28, 2024 for both projects with a bid opening currently scheduled for September 26, 2024. The remaining third project SEWUD-West WTP Treatment Improvements is slated to complete design in January 2025 with a bid opening in February 2025.

Consulting Engineer*: Chase Julson

Engineer Telephone Number*: 701-364-9111

Engineer Email*: chase.julson@ae2s.com

Certification (Must Be Completed by Project Sponsor)

Submitted by*: Steve (First Name) Hansen (Last Name) 08/26/2024 (Date)

Address*: PO Box 10
Address Line 1
Address Line 2

	Mantador	North Dakota	58058-0010
	City	State	Zip Code

Telephone Number*:	701-242-7432
Sponsor Email*:	stevehh2o@rrt.net
I Certify That, to the Best of My Knowledge, the Provided Information is True and Accurate, and in Execution of This Project, the Sponsor Will Follow All Applicable Laws and Permitting Requirements. I Further Certify Assurance of Sustainable Operation, Maintenance, and Replacement of The Assets For Which We Are Requesting Cost-Share.*:	Yes

Authorized Individual*:	Steve	Hansen	08/26/2024
	First Name	Last Name	Date

Title/Position/Authority*:	General Manager

Documentation

Documentation

Project in Extraterritorial Jurisdiction? If Yes, Add Boundary to Project Specific Map.*:	No

CLICK HERE **to see examples.**

Project Specific Map Must Include Project Location in State Using an Inset Map and Distance/Direction to Nearest Community *:	Cost Share Maps Final.pdf
Are You Seeking SRF or IRLF Funding?*:	No
Are You Seeking Department of Water Resources Cost-Share?*:	Yes
Are You Seeking Cost-Share for a Main Street Initiative Related Project?:	No

CLICK HERE **for SFN 61801 Delineation of Costs Instructions and Current Version.**

Delineation of Costs SFN 61801:	2024-08 sfn_61801_delineation_of_cost.xlsx
Type of Request:	Construction
Signed Plans and Specifications For Bidding:	SEWUD West Wellfield Expansion P-S_Signed.pdf
Water Supply Projects?:	Yes

CLICK HERE **for Life Cycle Cost Analysis Instructions and Current Version, as Shown on Title Tab.**

Life Cycle Cost Analysis:	2024-08 life_cycle_cost_analysis_worksheet.xlsx

CLICK HERE **for SFN 62417 Basic Asset Inventory Tool and Current Version.**

Asset Inventory Assessment:	2024-08 sfn_62417_basic_asset_inventory_tool.xlsx
Rural Flood Control?:	No
Drain Reconstructions?:	No
Flood Recovery Property Acquisition?:	No

Community Flood Control, Rural Flood Control, Bank Stabilization, or Snag & Clear Project With Total Cost of $200,000 or More?:	No
Sovereign Land Permit, if Required:	
DWR Construction Permit, if Required:	
Conditional Letter of Map Revision (CLOMR), if Required:	
Feasibility/Engineering Study for the Proposed Project:	Yes
Feasibility/Engineering Study Material:	SEWUD West WTP PER_Signed.pdf
Photos of Problem/Issue:	Project Concern Photos.pdf
Other Applicable Document(s):	Yes
Other Applicable Document:	2024-08-Letter of Support_Signed.pdf
Other Applicable Document:	SEWUD West WTP GSR P-S_Signed.pdf
Other Applicable Document:	

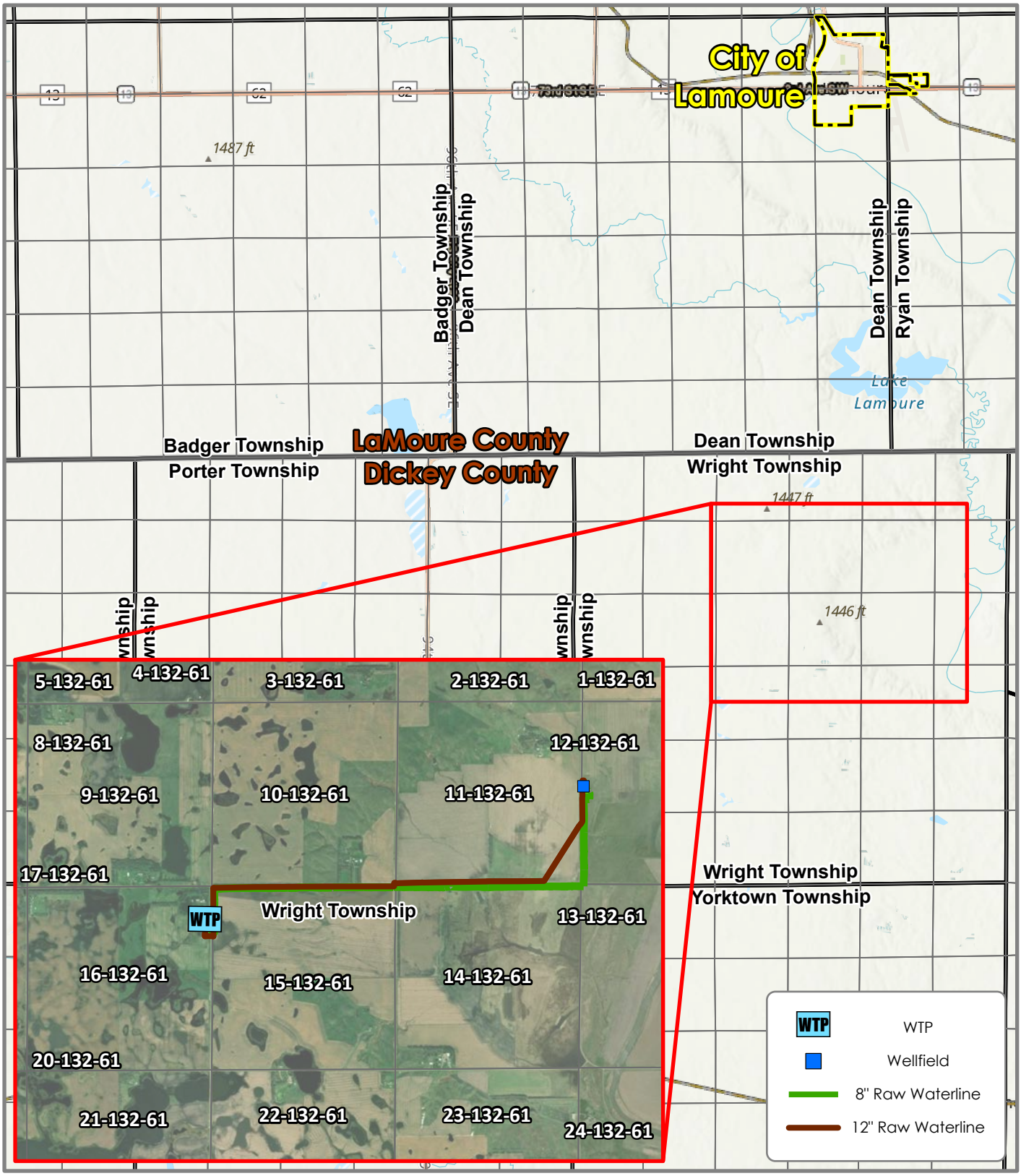
Sources

Project Funding Sources - Include All Funding Sources for the Project (Should Equal Project Cost)

Source	If Other, Specify Funding Source	Source Status	State Fiscal Year 1 July to June	State Fiscal Year 2 July to June	Beyond Current Biennium	Total Cost	Type	Term	Interest Rate
Department of Water Resources Cost Share Pre-Construction	Final Design - Previously Awarded	Already Approved	$97,266.62	$830,003.38	$0.00	$927,270.00	Grant	0.00	0.00
Department of Water Resources Cost Share Construction	This is for the SEWUD-West Wellfield Expansion Project and SEWUD-West WTP GSR Project	Current Request	$0.00	$1,654,484.00	$0.00	$1,654,484.00	Grant	0.00	0.00
Department of Water Resources Cost Share Construction	This is for the SEWUD - West WTP Treatment Improvements Project	Future Request	$0.00	$687,698.00	$12,076,026.00	$12,763,724.00	Grant	0.00	0.00
Drinking Water State Revolving Fund	SRF Application Currently in Process	Already Approved	$0.00	$2,148,500.00	$2,148,500.00	$4,297,000.00	Loan	30.00	2.00
Department of Water Resources Cost Share Pre-Construction	Preliminary Design - Previously Awarded	Already Approved	$150,000.00	$0.00	$0.00	$150,000.00	Grant	0.00	0.00
Other	Cash Reserves	Already Approved	$50,000.00	$0.00	$0.00	$50,000.00		0.00	0.00
			$297,266.62	**$5,320,685.38**	**$14,224,526.00**	**$19,842,478.00**			

DWR Date Received : 8/27/24

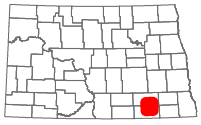
www.ae2s.com | Advanced Engineering and Environmental Services, LLC



Information depicted may include data unverified by AE2S. Any reliance upon such data is at the user's own risk. AE2S does not warrant this map or its features are either spatially or temporally accurate.

Coordinate System: NAD 1983 StatePlane North Dakota South FIPS 3302 Feet Intl | Edited by: jhenne | W:\S\SEWUD\General Services\GIS\SEWUD General Services - Mapping and Analysis.aprx| SEWUD West WTP & Well Site

N



Project Location

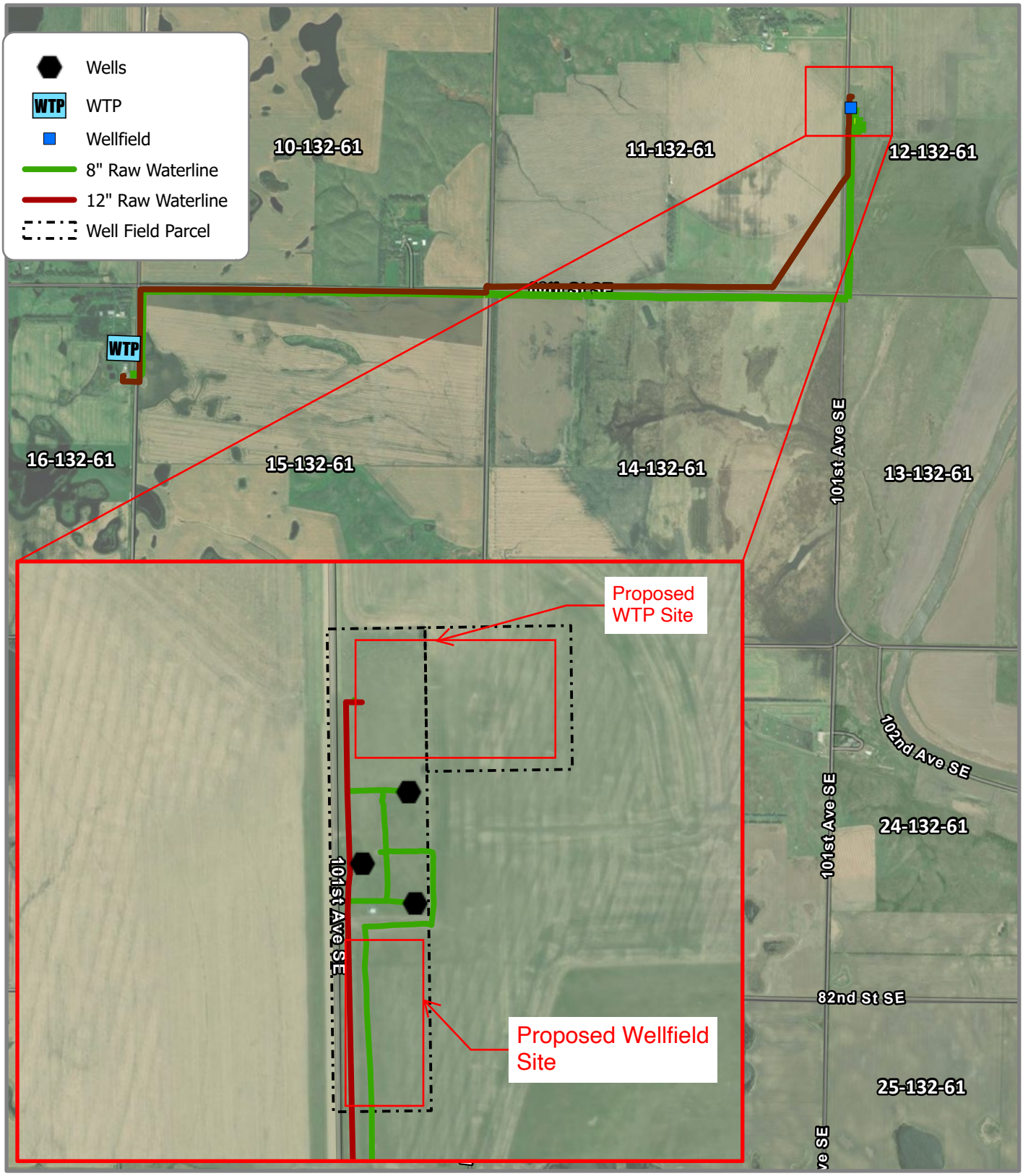
0 1 2 Miles

SEWUD-WEST WTP & WELL SITE

SEWUD
Wright Township | Dickey County, ND

Date: 10/20/2023

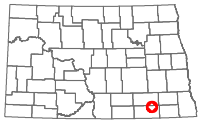
www.ae2s.com | Advanced Engineering and Environmental Services LLC



Information depicted may include data unverified by AE2S. Any reliance upon such data is at the user's own risk. AE2S does not warrant this map or its features are either spatially or temporally accurate.

Coordinate System: NAD 1983 StatePlane North Dakota South FIPS 3302 Feet Intl | Edited by: jhenne | W:\S\SEWUD\General Services\GIS\SEWUD General Services - Mapping and Analysis.aprx| SEWUD-West Existing Wellfield Site

N



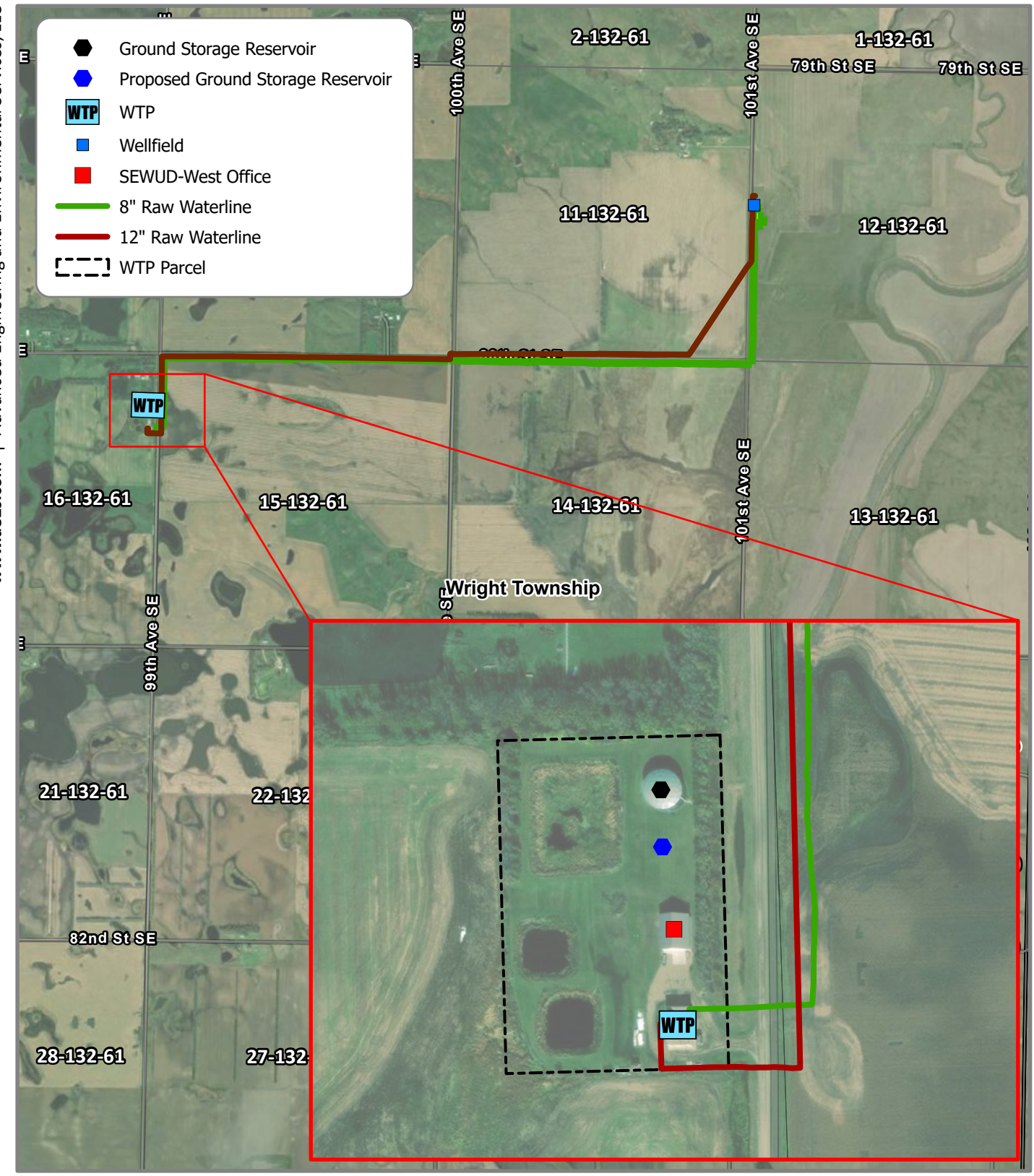
Project Location

0 0.25 0.5 Miles

SEWUD-WEST EXISTING WELLFIELD SITE

SEWUD
Wright Township | Dickey County, ND

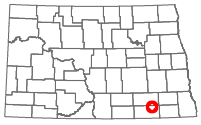
Date: 10/20/2023



Information depicted may include data unverified by AE2S. Any reliance upon such data is at the user's own risk. AE2S does not warrant this map or its features are either spatially or temporally accurate.

Coordinate System: NAD 1983 StatePlane North Dakota South FIPS 3302 Feet Intl | Edited by: jhenne | W:\S\SEWUD\General Services\GIS\SEWUD General Services - Mapping and Analysis.aprx| SEWUD-West WTP Site

N



Project Location

0 0.25 0.5 Miles

SEWUD-WEST WTP SITE

SEWUD
Wright Township | Dickey County, ND

Date: 10/20/2023

www.ae2s.com | Advanced Engineering and Environmental Services, LLC

DELINEATION OF COSTS
NORTH DAKOTA DEPARTMENT OF WATER RESOURCES
PLANNING AND EDUCATION
SFN 61801 (7/2024)

DWR Date Received : August 27, 2024

Project:	SEWUD - West WTP Improvements
Sponsor:	Southeast Water Users District (SEWUD)
Contact:	Steve Hansen, General Manager
Phone:	701-242-7432
Engineer:	Chase Julson, AE2S
Phone:	701-364-9111

Total Cost :	$ 19,842,478
Ineligible Cost :	$ 20,240
Eligible Cost :	$ 19,822,238
Local Cost :	$ 4,975,799

Date: August 23, 2024

	Cost-Share $	
	$ 14,866,679	
Preconstruction :	$ 1,077,270	
Construction :	$ 13,789,409	$1,654,484

Project Type:	**Cost-share %**
Rural Water Supply	75%

Item	%	Cost Classification	Quantities	Unit	Unit Price	Total	Cost-Share %	Cost-Share $ *	
		Construction Costs							
1	0.2%	Mobilization	1	LS	35,000.00	$ 35,000	75%	$ 26,250	
2	0.0%	Bonding		LS	-	$ -	75%	$ -	
3	0.0%	Insurance		LS	-	$ -	75%	$ -	
4	0.1%	Test Pump Production Wells	96	HRS	220.00	$ 21,120	75%	$ 15,840	
5	0.1%	Test Hole Drilling	360	LF	45.00	$ 16,200	75%	$ 12,150	
6	0.1%	Finished Well Drilling	360	LF	70.00	$ 25,200	75%	$ 18,900	
7	0.1%	12-inch PVC Well Casing	270	LF	75.00	$ 20,250	75%	$ 15,188	
8	0.2%	12-inch Stainless Steel Well Screens	90	LF	440.00	$ 39,600	75%	$ 29,700	
9	0.1%	4-inch Filter Pack	120	LF	150.00	$ 18,000	75%	$ 13,500	
10	0.5%	Pitless Unit	3	EA	27,500.00	$ 82,500	75%	$ 61,875	
11	0.2%	Finished Well Development	96	HRS	360.00	$ 34,560	75%	$ 25,920	
12	0.0%	Water Analysis	3	EA	1,800.00	$ 5,400	75%	$ 4,050	
13	8.9%	SEWUD-West WTP Ground Storage Reservoir	1	LS	1,500,000.00	$ 1,500,000	75%	$ 1,125,000	
14	80.2%	SEWUD-West WTP Treatment Improvements - Future Request	1	LS	13,500,000.00	$ 13,500,000	75%	$ 10,125,000	
15	0.0%		0		-	$ -	75%	$ -	
16	0.0%		0		-	$ -	75%	$ -	
17	0.0%		0		-	$ -	75%	$ -	
18	0.0%		0		-	$ -	75%	$ -	
19	0.0%		0		-	$ -	75%	$ -	
20	0.0%		0		-	$ -	75%	$ -	
21	0.0%		0		-	$ -	75%	$ -	
22	0.0%		0		-	$ -	75%	$ -	
23	0.0%		0		-	$ -	75%	$ -	
24	0.0%		0		-	$ -	75%	$ -	
25	0.0%		0		-	$ -	75%	$ -	
26	0.0%		0		-	$ -	75%	$ -	
		Construction Sub-Total			$1,797,830	$ 15,297,830	75%	$ 11,473,373	
	10.0%	**Contingency**			$179,783	$ 1,529,783	75%	$ 1,147,337	
	84.8%	**Construction Total**			$1,977,613	$ 16,827,613	75%	$ 12,620,710	$1,483,210
		Preconstruction Costs							
27	1.2%	Preliminary Design	1	LS	200,000.00	$ 200,000	75%	$ 150,000	
28	6.8%	Final Design	1	LS	1,141,360.00	$ 1,141,360	75%	$ 856,020	
29	0.4%	Bidding / Negotiations	1	LS	75,000.00	$ 75,000	75%	$ 56,250	
30	0.1%	Archeological Study	1	LS	20,000.00	$ 20,000	75%	$ 15,000	
31	0.0%					$ -	75%	$ -	
	7.2%	**Preconstruction Total**				$ 1,436,360	75%	$ 1,077,270	
		Construction Engineering Costs							
32	0.3%	Construction Contract Management - Current Request	1	LS	52,765.00	$ 52,765	75%	$ 39,574	
33	0.8%	Project Inspection - Current Request	1	LS	139,600.00	$ 139,600	75%	$ 104,700	
34	0.2%	I&C System Services - Current Request	1	LS	30,000.00	$ 30,000	75%	$ 22,500	
35	0.0%	Post-Construction / Warranty - Current Request	1	LS	6,000.00	$ 6,000	75%	$ 4,500	
36	3.0%	Construction Contract Management - Future Work	1	LS	499,200.00	$ 499,200	75%	$ 374,400	
37	3.0%	Project Inspection - Future Request	1	LS	496,700.00	$ 496,700	75%	$ 372,525	
38	1.8%	I&C System Services - Future Request	1	LS	299,950.00	$ 299,950	75%	$ 224,963	
38	0.2%	Post-Construction / Warranty - Future Request	1	LS	34,050.00	$ 34,050	75%	$ 25,538	
36	0.0%		0			$ -	75%	$ -	
37	0.0%		0			$ -	75%	$ -	
38	0.0%		0			$ -	75%	$ -	
39	0.0%		0			$ -	75%	$ -	
	7.9%	**Construction Engineering Total**			$228,365	$ 1,558,265	75%	$ 1,168,699	$171,274
		Other Eligible Costs							
40	0.0%		0		-	$ -	75%	$ -	
41	0.0%		0		-	$ -	75%	$ -	
42	0.0%		0		-	$ -	75%	$ -	
43	0.0%		0		-	$ -	75%	$ -	
44	0.0%		0		-	$ -	75%	$ -	
	0.0%	**Other Eligible Total**				$ -	75%	$ -	
		In-eligible Costs							
45	0.1%	Property Acquisitions	1	LS	15,240.00	$ 15,240	0%	$ -	
46	0.0%	Legal Expenses	1	LS	5,000.00	$ 5,000	0%	$ -	
47	0.0%		0		-	$ -	0%	$ -	
48	0.0%		0		-	$ -	0%	$ -	
	0.1%	**Other Ineligible Total**				$ 20,240	0%	$ -	
	100.0%				**Total**	$ 19,842,478			
					Eligible Total	$ 19,822,238	75%	$ 14,866,679	
					Federal or State Funds That Supplant Costs	$ -			
					Eligible Cost Total	$ 19,822,238	75%	$ 14,866,679	

* The cost-share estimate is purely for planning and informational purposes only and does not, in any way, guarantee a financial commitment to any degree, from the State Water Commission.

Life Cycle Cost Analysis Review

Sponsor: Southeast Water Users District (SEWUD)
Project Title: SEWUD - West Water Treatment Plant (WTP) Improvements
Date: August 30, 2024

Explanation of Alternatives:

Do Nothing - This Alternative does not address treatment quantity, quality, backwash water management, or age of existing infrastructure.

Iron and Manganese WTP at Wellfield (Preferred) - Build a new water treatment plant near the existing wellfield site.

Expansion of Existing WTP - Implement a third iron and manganese filtration skid at the existing water treatment plant site and the replacement of the existing WTP skids, all pumps, motors, and electrical processes that have reached useful/design life.

Inputs:

New Connections Served	0
Future Connections Served	0
Current Connections Served	970
Net Connections (New + Current)	970

Current CIF Balance	$864,000
Annual CIF Contribution	$125,000
Cash Funding Target (Percentage %) New Assets	25%
Cash Funding Target (Percentage %) Existing Asets	50%
Annual CIF Contribution suggested for the Project	$167,488

	Do Nothing	Iron and Manganese WTP at Wellfield (Preferred)	Expansion of Existing WTP	
Construction Cost	$0	$19,842,500	$15,761,700	
Annual O & M	$0	$325,000	$500,000	

Details:

Do Nothing - This Alternative does not address treatment quantity, quality, backwash water management, or age of existing infrastructure.

Iron and Manganese WTP at Wellfield (Preferred) - Build a new water treatment plant near the existing wellfield site. This will allow SEWUD to consolidate the treatment facilities and appurtenances to a centralized site and eliminate concerns of detention time in the existing raw water pipeline that has experienced significant iron deposition in the pipeline. This new site will provide ample space to implement additional treatment processes in the future, i.e. reverse osmosis (RO)/nanofiltration (NF) to assist in treating hardness and total dissolved solids (TDS).

Expansion of Existing WTP - This alternative involves the implementation of a third iron and manganese filtration skid at the existing water treatment plant site and the replacement of the existing WTP skids, all pumps, motors, and electrical processes that have reached useful/design life. This alternative will assist in meeting the additional water demand needs that the system has seen. However, this alternative does not allow SEWUD-West to implement future advanced water treatment plant processes and does not address backwash water management concerns.

LCCA Model Results:

Scenario Analysis - Present Value Life Cycle Cost Summary

Present Value	Do Nothing	Iron and Manganese WTP at Wellfield (Preferred)	Expansion of Existing WTP	
Capital Costs	$0	$19,316,000	$15,343,000	
O&M	$0	$8,067,000	$12,412,000	
Repair, Rehab, Replacement	$0	$12,741,000	$11,527,000	
Salvage Value	$0	$1,958,000	$1,069,000	
Total PVC	**$0**	**$38,166,000**	$38,213,000	
PV Cost Per User	**$0**	**$39,346**	**$39,395**	

Current Water Rate (Cost Per 5000g)		**$65**			
Comparable Water Rate		**$76**			
Net Connections (New + Current)		970	970	970	
Cost-Share Percent		75%	75%	75%	
	Local Share	$0	$4,829,000	$3,835,750	
	Other Funding	$0	$0	$0	
	Total Local	$0	$4,829,000	$3,835,750	
Payment Per User With Cost-Share		**$0.00**	**$25.18**	**$20.00**	
	Local Share	$0	$19,316,000	$15,343,000	
	Other Funding	$0	$0	$0	
	Total Local	$0	$19,316,000	$15,343,000	
Payment Per User Without Cost-Share		**$0.00**	**$100.74**	**$80.02**	

Explanation of Results:

The sponsor preferred project is the "Iron and Manganese WTP at Wellfield" option. The present value cost of the preferred alternative is $38,166,000 and the presented alternative for comparison is a "Expansion of Existing WTP" at a present value cost of $38,213,000. The present value cost per user for the preferred alternative is $39,346. The monthly user cost of the local share with DWR 75% cost-share participation is $25.18 per month and $100.47 without DWR participation based upon 970 direct user connections.

The economic model appears to have functioned properly. The results are deemed to be reliable and repeatable with the inputs provided by the project sponsor.

LCCA Version Version 1.2024.04.18

DWR Date Received : 8/27/24

SOUTHEAST
WATER USERS
PO Box 10
MANTADOR, ND 58058
PHONE (701) 242-7432
FAX (701) 242-7807

August 26, 2024

Department of Water Resources
Governor Doug Burgum
Chairman
900 East Boulevard Ave.
Dept 770
Bismarck, ND 58505-0850

Re: Cost-Share Request WebGrants ID 1081876

Dear Governor Burgum and Commission Members:

Southeast Water Users District (SEWUD) is pleased to submit a construction cost-share request through WebGrants for consideration at the upcoming October 10, 2024 State Water Commission meeting. The current construction funding request pertains to two of three components of the SEWUD – West Water Treatment Plant (WTP) Improvements Project. More specifically, our current request is for: (1) the SEWUD – West Wellfield Expansion and (2) SEWUD – West WTP Ground Storage Reservoir (GSR) components of this project. The third component, the SEWUD – West WTP Treatment Improvements, is still under design and a request for construction cost-share related to these improvements will be requested at a later State Water Commission meeting. The design for this portion of the project is anticipated to extend into early 2025.

In December 2023, the Department of Water Resources (DWR) awarded Pre-Construction funds for these projects. Initially, the project components were planned to be incorporated into one single larger project. However, as the design progressed, it became clear that a three-component approach was more appropriate, as each project requires specialized contractor skills and has varying consequences of failure.

The SEWUD – West System provides potable water service to three (3) North Dakota counties (Dickey, LaMoure, and Logan) serving approximately 970 rural members. Additionally, SEWUD-West serves three (3) Hutterite Colonies, three (3) communities on an individual basis (Fredonia, Merricourt, and Nortonville) and nine (9) bulk service communities (Berlin, Edgeley, Ellendale, Fullerton, Gackle, Guelph, Jud, Kulm, and Monango).

The SEWUD – West Wellfield Expansion Project includes the construction of three (3) new additional wells to complement the existing three (3) wells in the wellfield. This expansion will provide SEWUD-West with additional source water capacity, addressing the current concerns

surrounding source water availability while ensuring that adequate supply is available for the future WTP Treatment Improvements Project.

The SEWUD – West WTP GSR Project includes the construction of a new 500,000 gallon water storage reservoir, which will supplement the existing 500,000 gallon water storage reservoir. The addition of this added storage will help ensure adequate treated water is available for all customers during peak water usage periods. The increased storage capacity will also enhance the SEWUD-West system's resilience during emergencies or maintenance activities, providing a critical buffer to maintain uninterrupted water service for all users.

As mentioned previously, the remaining SEWUD – West WTP Treatment Improvements Project component will continue to be designed through 2024/early 2025. A separate cost-share funding request for the construction related to these improvements will be submitted once the design is finalized.

Thank you for considering SEWUD's construction cost-share application. This funding is crucial in supporting the SEWUD - West's regional water system. If you have any questions, please do not hesitate to contact me at (701) 242-7432.

Sincerely,

Southeast Water Users District

Steve Hansen
General Manager

CC: Chase Julson, AE2S

SEWUD-West Filter Media New Media (L) and Media after 3-years of use (R)

SEWUD-West 12-inch Raw Water Supply Line – Iron Build-Up (2017)

SEWUD-West 6-inch Raw Water Supply Line – Iron Build-Up (2019)