

# Western Area Water Supply Authority

**WATER TOPICS OVERVIEW COMMITTEE**

**Chairman Ronald Sorvaag**

Tuesday, September 12, 2023

**Tami Madsen**

**Executive Director**



# Western Area Water Supply Project

2011 – 2022: 193% increase in rural connections (1673 to 4905)

McKenzie County Water Resource District: 633% growth (200 to 1466)  
 Northwest Rural Water | BDW: 91% growth (1383 to 2639)  
 R&T Water: 789% growth (90 to 800)

Census Data:

Williston and Williams Co: (83% growth)  
 2010 Census: 22,398 – 2020 Census: 40,950  
 McKenzie Co: (131% growth)  
 2010 Census: 6,360 – 2020 Census: 14,704

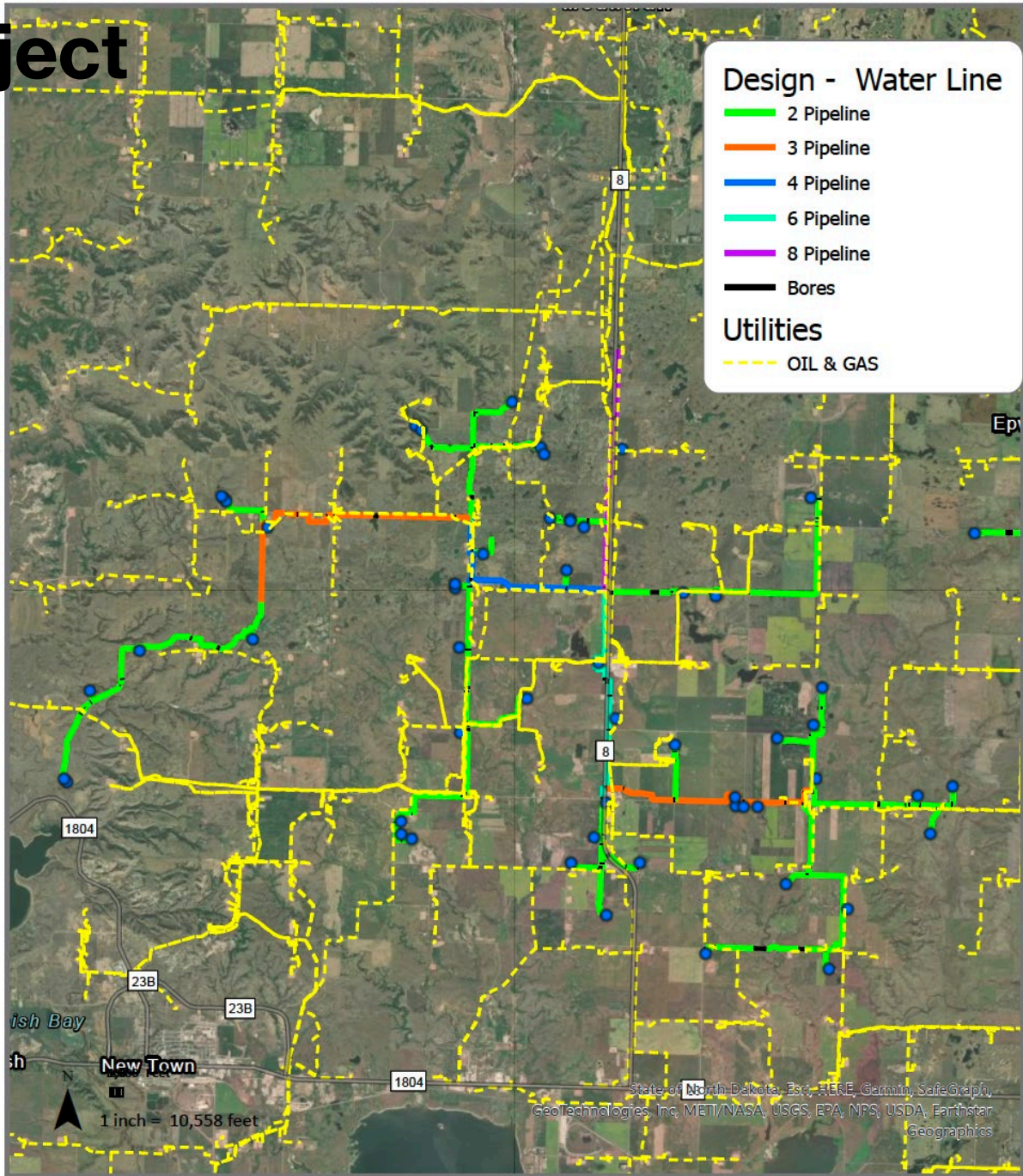
“Bakken Tax”:

WAWs averaged 2.7 crossings per mile or 579 individual crossings for the four projects.  
 On average a 2.0-inch bore costs 2 times greater than a 2.0-inch open cut and a 6.0-inch bore 3 times greater than 6.0-inch open cut.  
 Gas/Oil/Saltwater line is hydrovac'd at an average of \$1,000.00 per line

Davis Bacon wages cause projects to have higher costs.

	March 2020 Rate per Hour	August 2023 Rate per Hour	Percent Increase
Pipelaye	\$10.48	\$37.01	253%
Excavator Operator	\$12.05	\$42.01	248%
Loader Operator	\$16.32	\$50.90	211%
Dozer Operator	\$18.06	\$56.65	213%

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



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# Northwest Rural Water District: BDW Rural Distribution Expansion (8-1)

This rural expansion will look to supply water to the communities of **Lignite, Flaxton, Portal** and the surrounding rural areas in **Burke County**.

Expansion will also serve additional rural users throughout BDW's western service area of **Divide County** by installing new service lines and upgrading capacity of the existing system as needed.

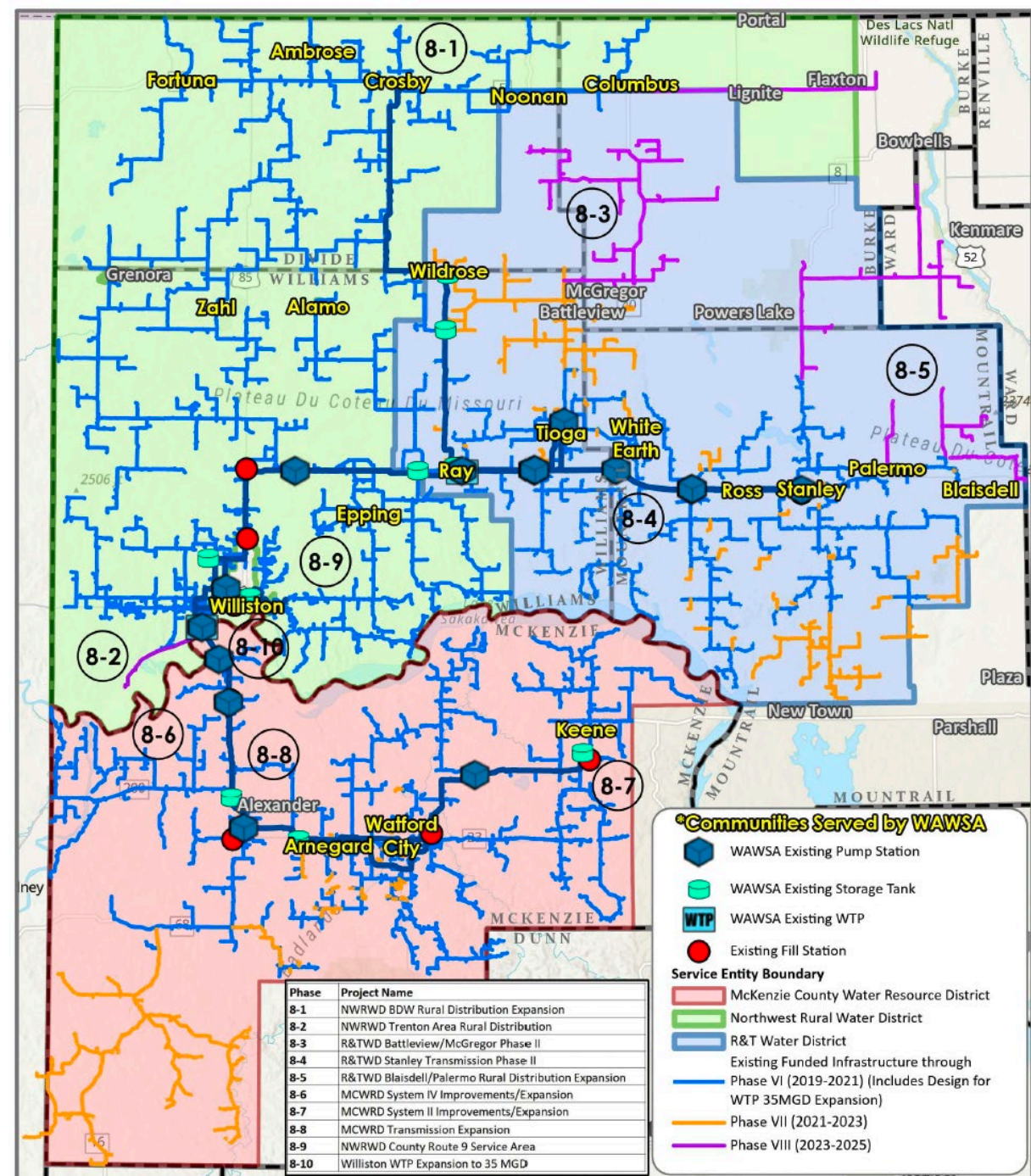
## 2023-2025 Biennium Request:

Total: \$4,400,000

Pre-Construction

Budget State Cost Share \$330,000,

Budgeted Local Cost Share \$110,000



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# Northwest Rural Water District: Trenton Area Rural Distribution Expansion (8-2)

The project would service 40 rural users and a 60-lot single family home development between Hwy 2 and the Missouri River in **southwestern Williams County**.

Potable water service would also be supplied to the industrial businesses of the Marley Crossing Industrial Park as part of this project.

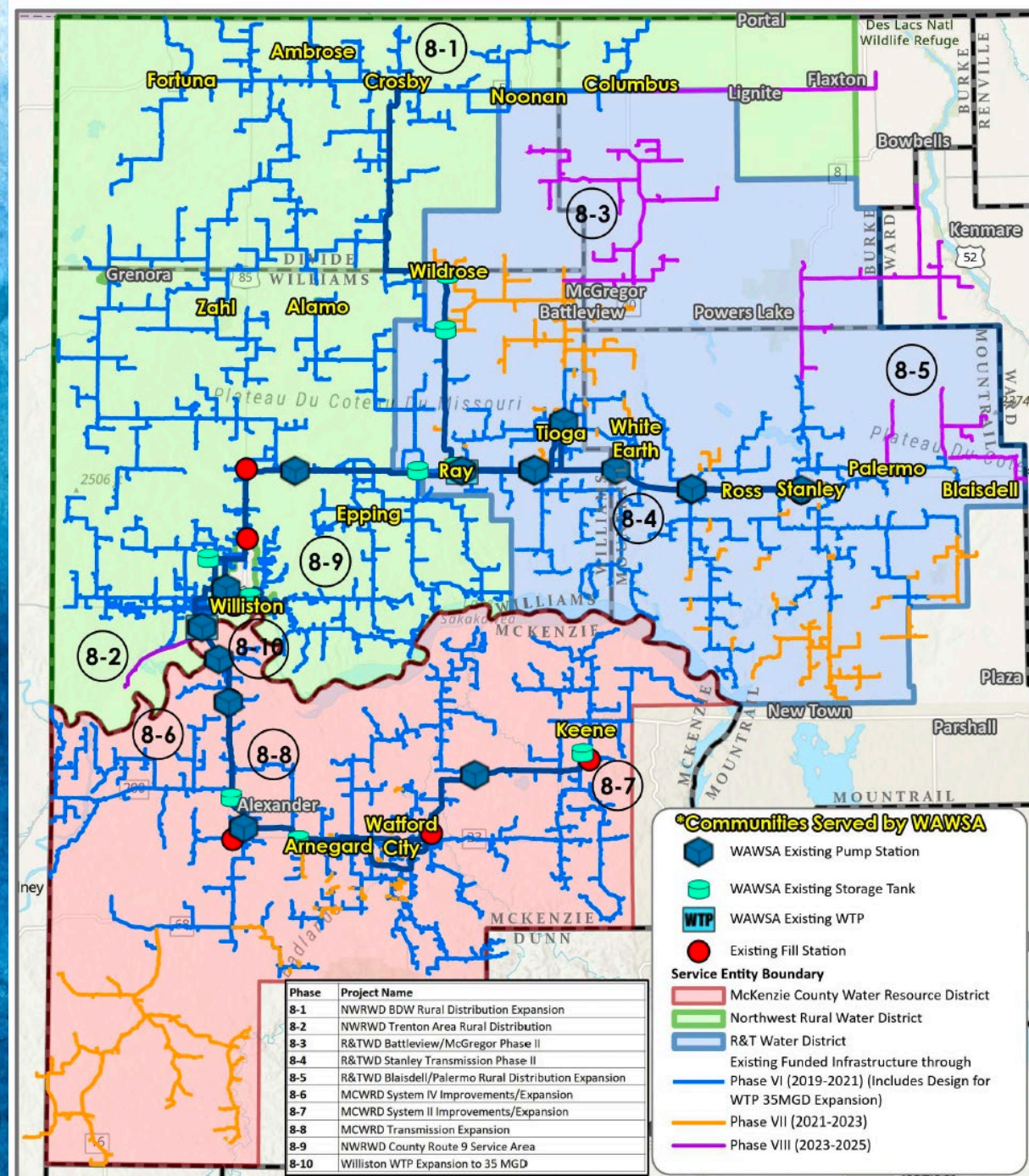
## 2023-2025 Biennium Request:

Total: \$8,300,000

Pre-Construction

Budget State Cost Share \$622,500,

Budgeted Local Cost Share \$207,500



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# Ray & Tioga Water District: Battleview & McGregor Rural Distribution Expansion (8-3)

This rural water expansion will be Phase II of the Battleview and McGregor Distribution Area. Water distribution pipelines ranging in size from 2.0-inch through 6.0-inch will be installed to service rural customers north of **Battleview** and **McGregor** along the Hwy 40 corridor in **southwestern Burke County**.

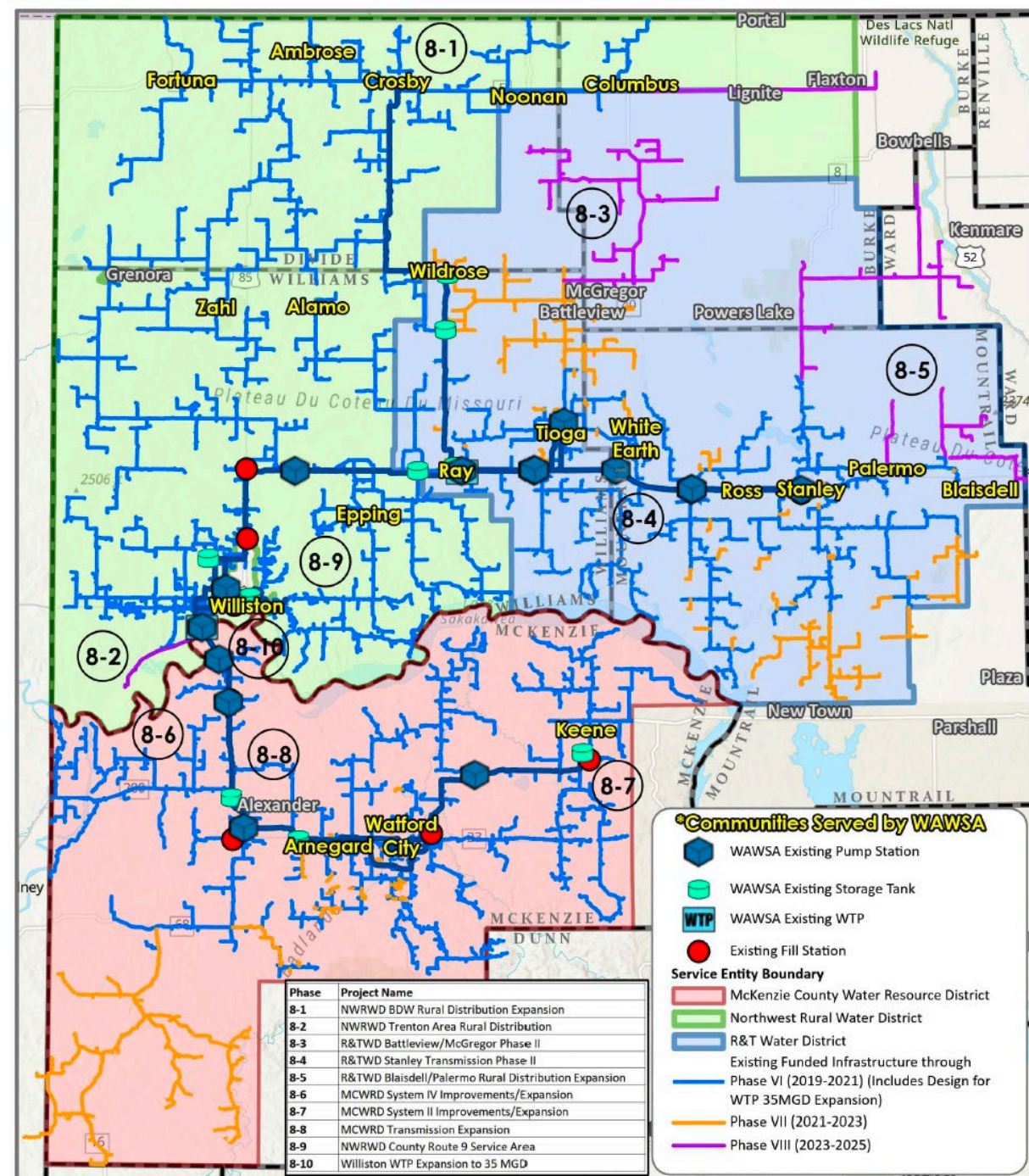
## 2023-2025 Biennium Request:

Total: \$9,350,000

Pre-Construction

Budget State Cost Share \$701,250

Budgeted Local Cost Share \$233,750



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# Ray & Tioga Water District: Stanley Transmission Improvements – Phase II (8-4)

Phase II of the Stanley Transmission Improvements will add approximately 18 miles of 20.0-inch water pipeline between **Tioga** and **Stanley** along Highway 2. The result of the project will increase capacity to the bulk user cities of **Tioga, Ross** and **Stanley** and also provided additional capacity for future rural growth throughout **Mountrail County** and **southern Burke County**.

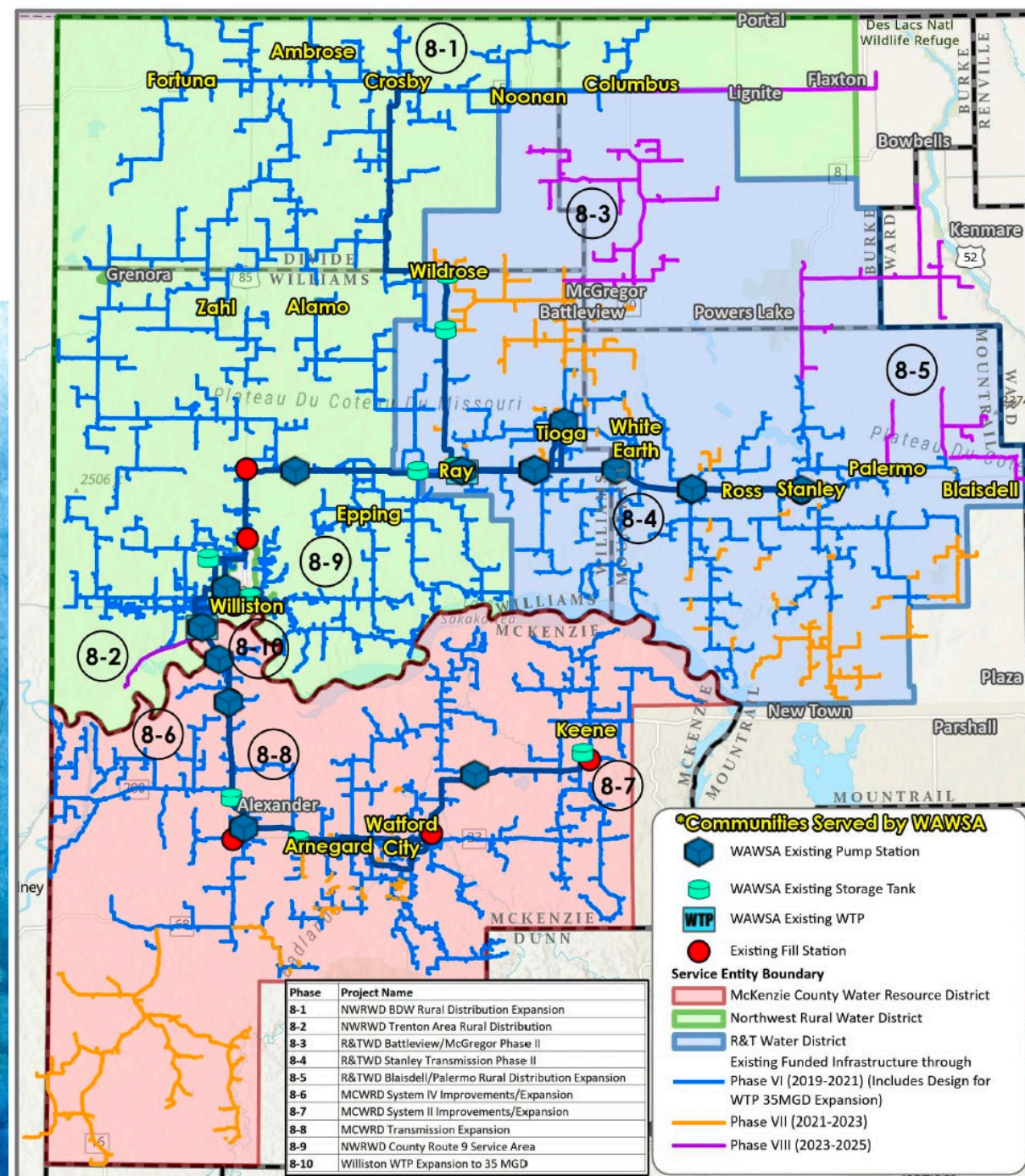
2023-2025 Biennium Request:

Total: \$7,150,000

Construction

Budget State Cost Share \$5,362,500,

Budgeted Local Cost Share \$1,787,500



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# Ray & Tioga Water District: Blaisdell, Palermo & Misc. Rural Distribution System Expansion (8-5)

This rural water service expansion is located in eastern **Mountrail County** north of the Hwy 2 corridor, southeastern **Burke County**, and northwestern **Ward County** along the HWY 8 and 50 corridors. The project will serve new rural customers and expand service to users within the communities of **Palermo** and **Blaisdell**.

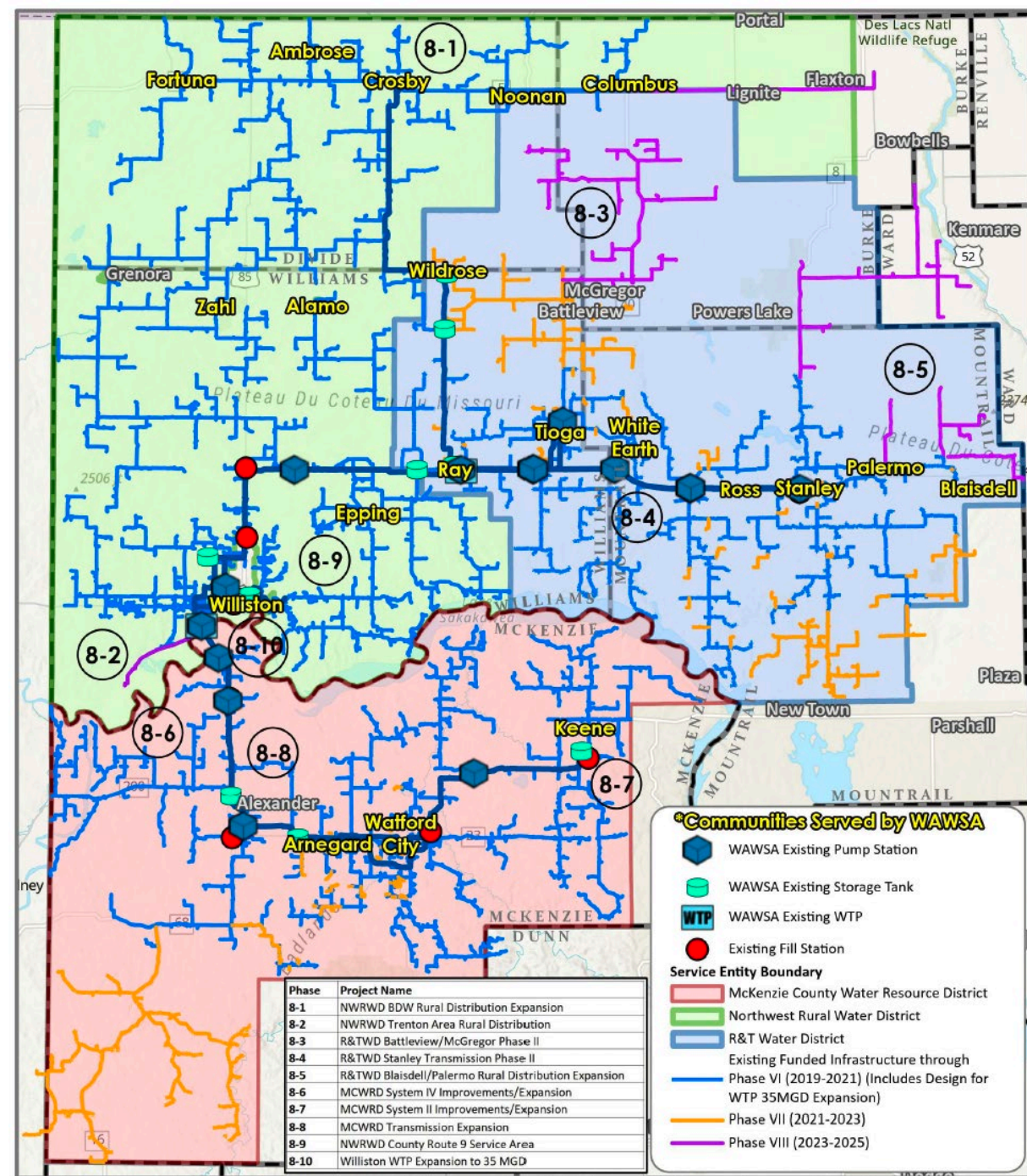
2023-2025 Biennium Request:

Total: \$3,900,000

Pre-Construction

Budget State Cost Share \$292,500,

Budgeted Local Cost Share \$97,500



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# McKenzie County Water Resource District: System IV Improvements and Expansion (8-6)

This rural water service expansion is located in northwestern McKenzie County north of the Hwy 200 corridor. The Project will bring additional capacity to existing users and serve new rural customers throughout this area of McKenzie County.

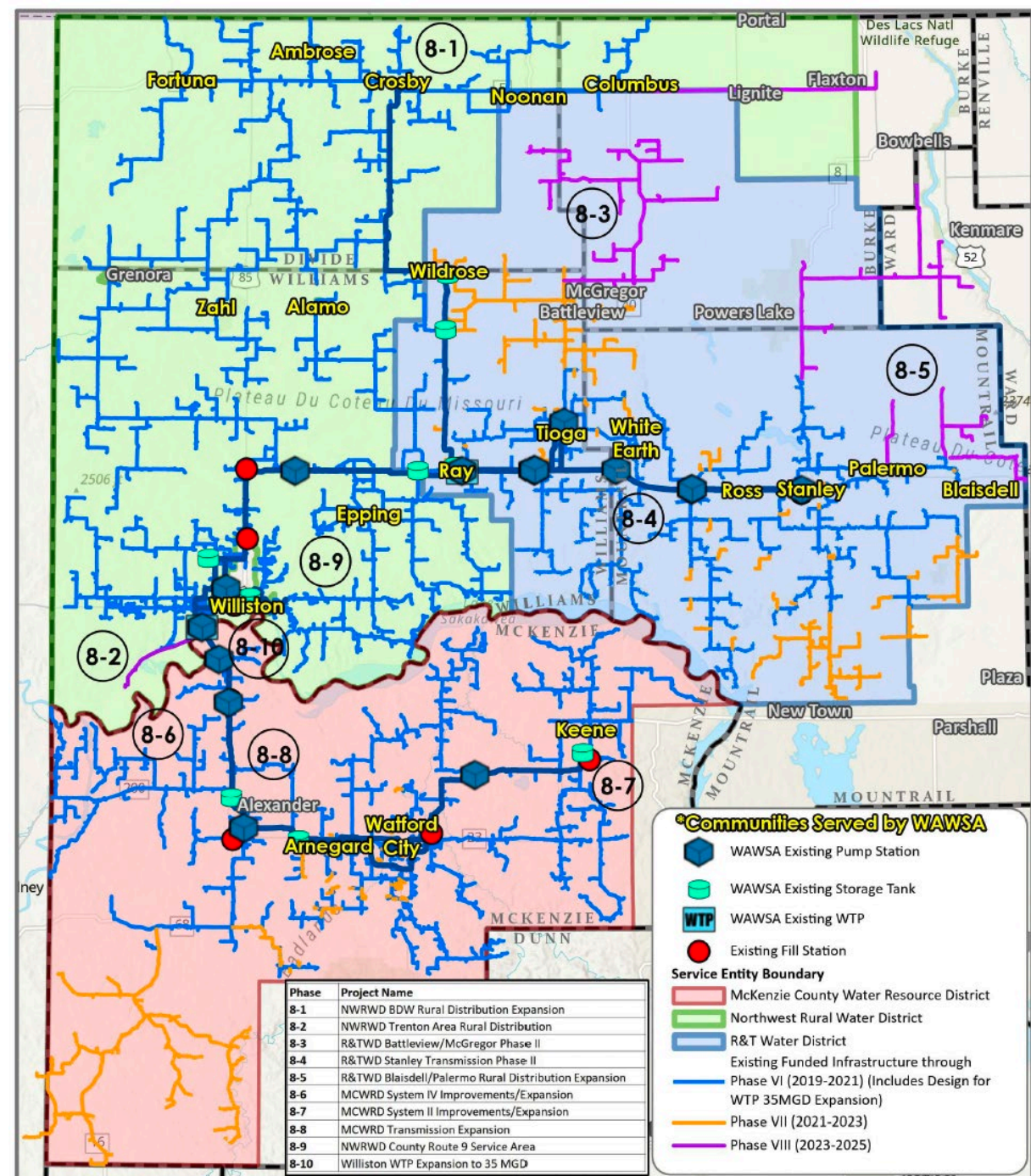
## 2023-2025 Biennium Request:

Total: \$3,300,000

Pre-Construction

Budget State Cost Share \$247,500,

Budgeted Local Cost Share \$82,500



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# McKenzie County Water Resource District: System II Improvements and Expansion Project (8-7)

This rural water service expansion is located in eastern **McKenzie County** along the Hwy 23 corridor. The Project will bring additional capacity to existing users and serve new rural and commercial users throughout the corridor and around the **Johnson's Corner** area in **McKenzie County**.

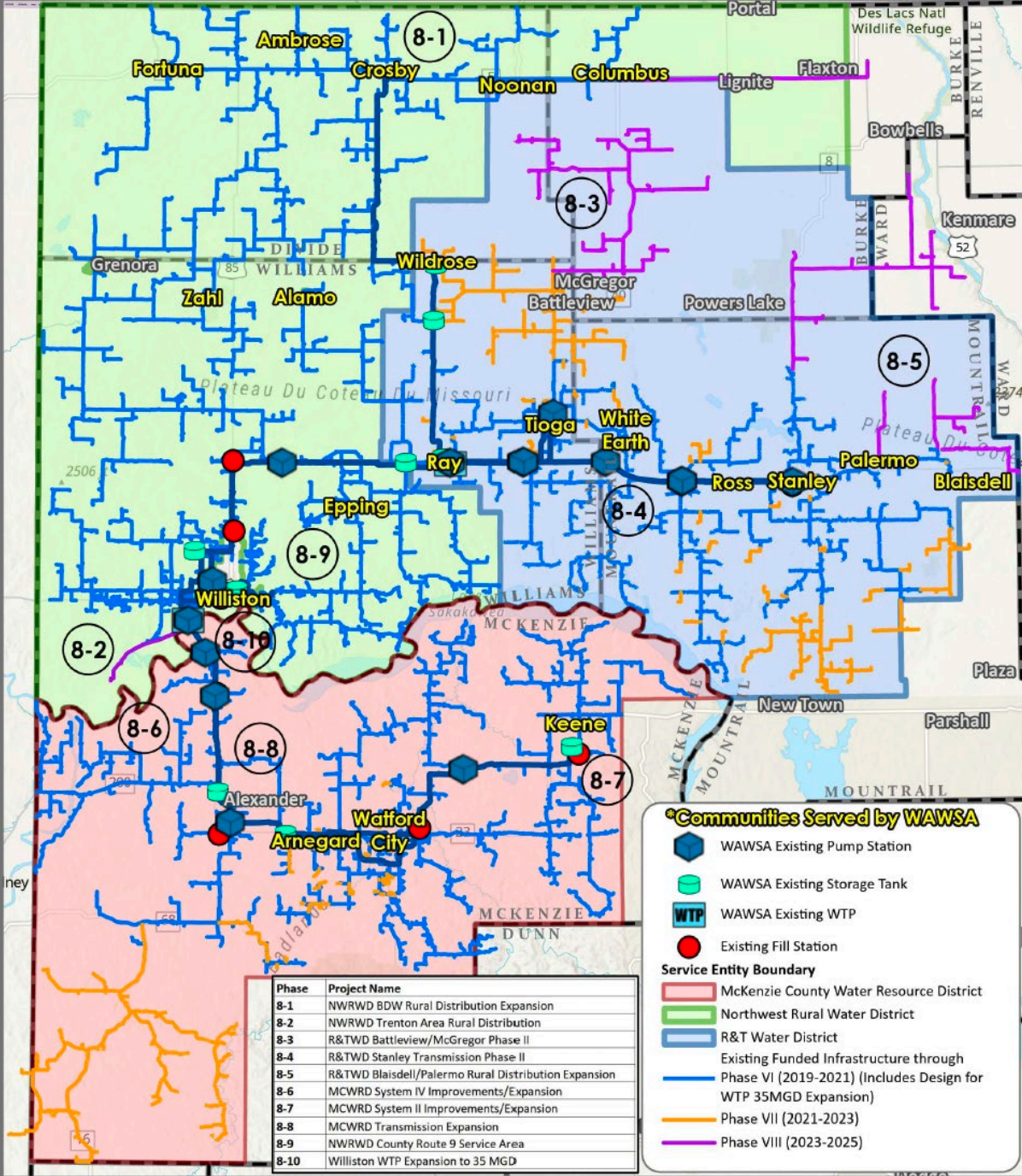
2023-2025 Biennium Request:

Total: \$7,700,000

Pre-Construction | Construction

Budget State Cost Share \$5,775,000,

Budgeted Local Cost Share \$1,925,000



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# McKenzie County Water Resource District: Transmission System Expansion (8-8)

The project consists of preconstruction including study and report, preliminary engineering, final engineering and bidding phases for the expansion of the WAWSA Transmission System through McKenzie County.

The project would entail a study and report of routing options for the transmission main corridor along with siting of pump stations and water reservoirs.

Preliminary engineering would focus on surveying and layout of selected transmission main corridor.

Final design would bring engineering disciplines of civil, structural, electrical, mechanical, and instrumentation and controls together to complete the design and bidding for the expansion of the WAWSA Transmission System Expansion within McKenzie County.

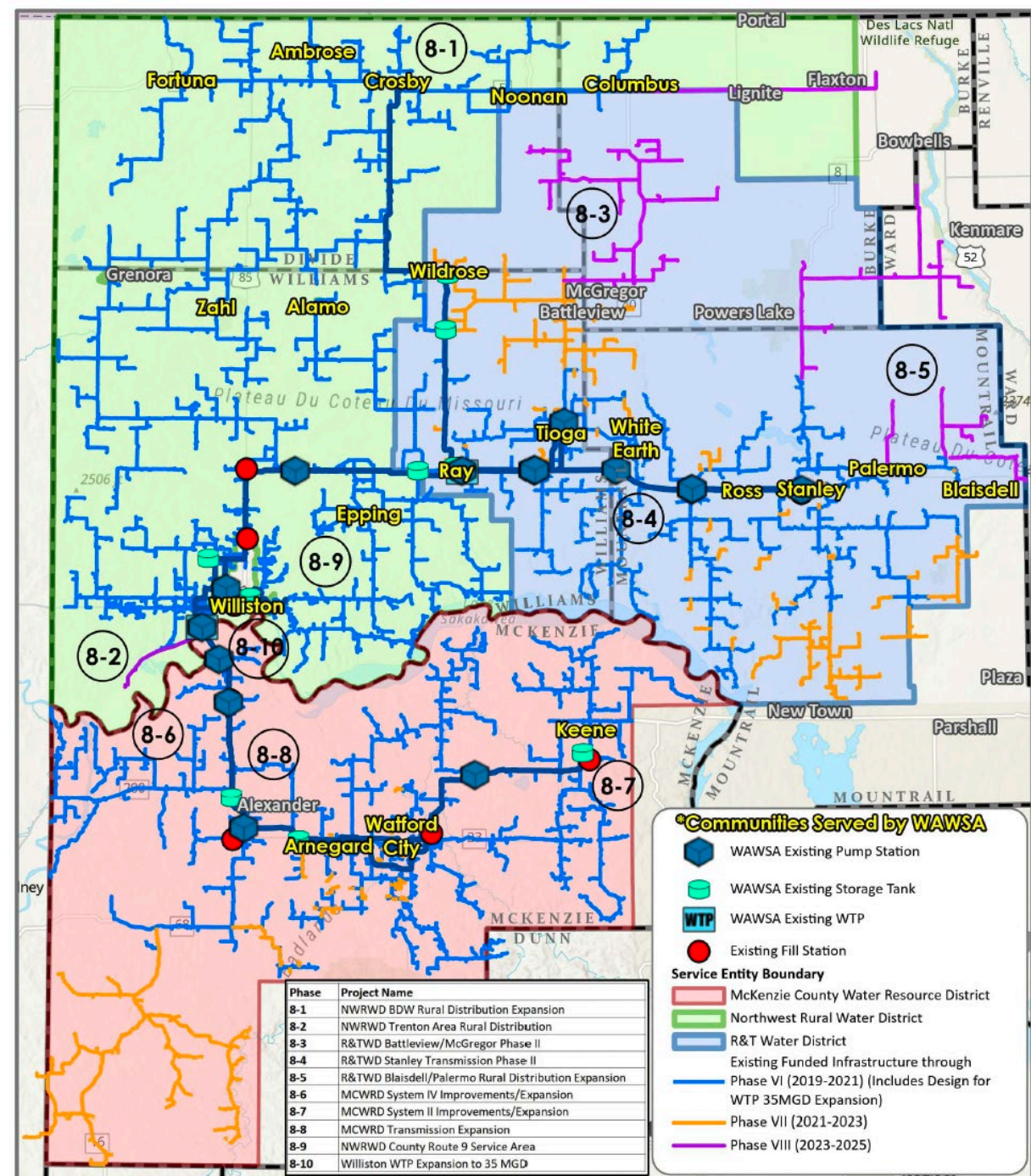
## 2023-2025 Biennium Request:

Total: \$19,300,000

Pre-Construction

Budget State Cost Share \$1,447,500

Budgeted Local Cost Share \$482,500



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# Northwest Rural Water District: County Road 9 Service Area (8-9)

The project will service 115 new rural and commercial customers through the installation of 56 miles of 2.0-inch through 6.0-inch water distribution pipelines east of the City of Williston

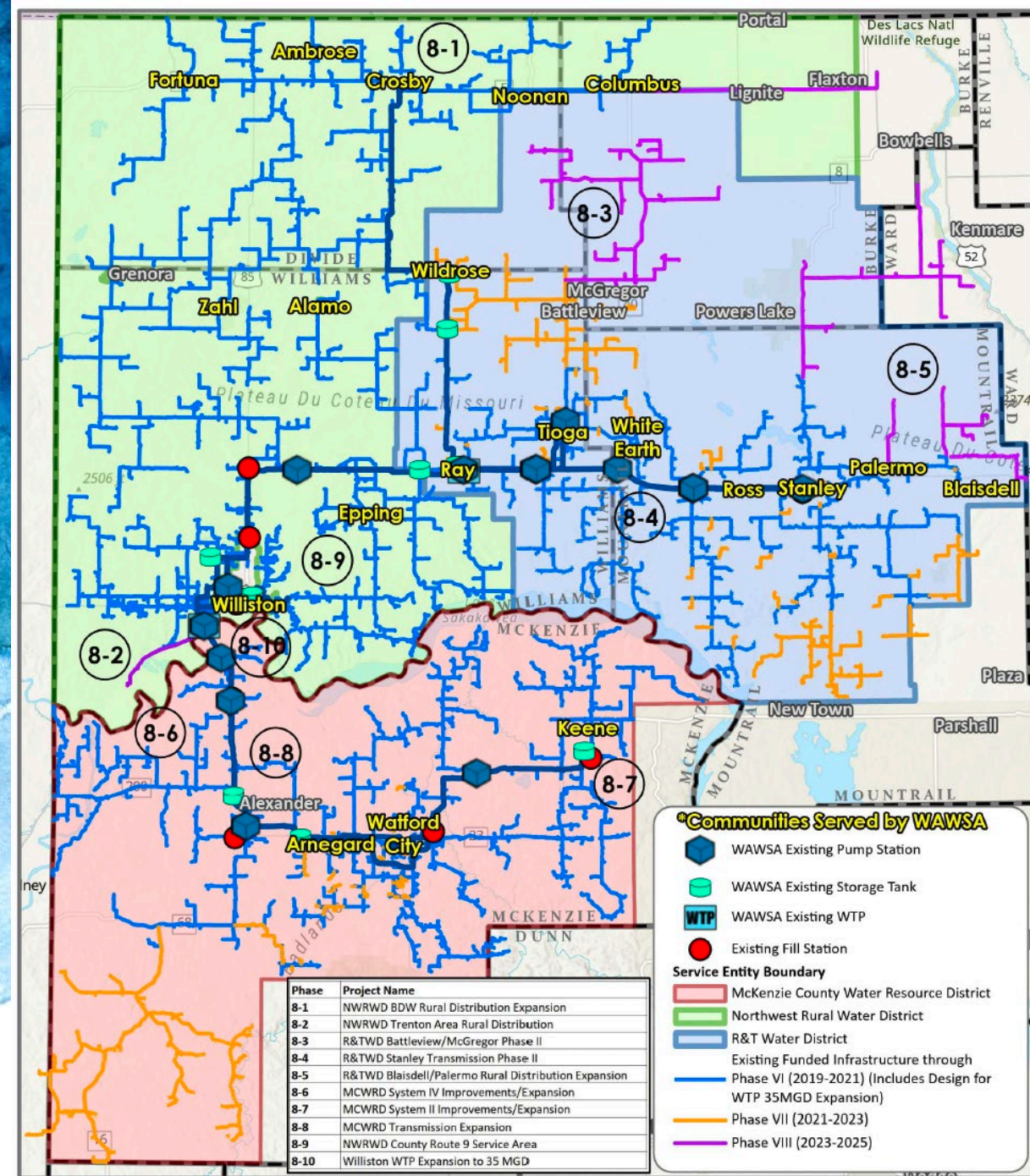
## 2023-2025 Biennium Request:

Total: \$6,400,000

Construction

Budget State Cost Share \$4,320,000,

Budgeted Local Cost Share \$1,440,000



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# Williston Water Treatment Plant: Expansion to 35 MGD (8-10)

The Williston water treatment plant is approaching maximum treatment capacity during summer months. To keep treatment capacity ahead of growing water demands, the expansion of the supply and treatment systems are needed. The design of the expansion is complete. The project would proceed with bidding once construction phase funding is secured. The construction phase may take up to 30 months with up to 6 months needed for system commissioning. Current domestic water demands are projected to exceed existing supply and treatment capacity in the near future.

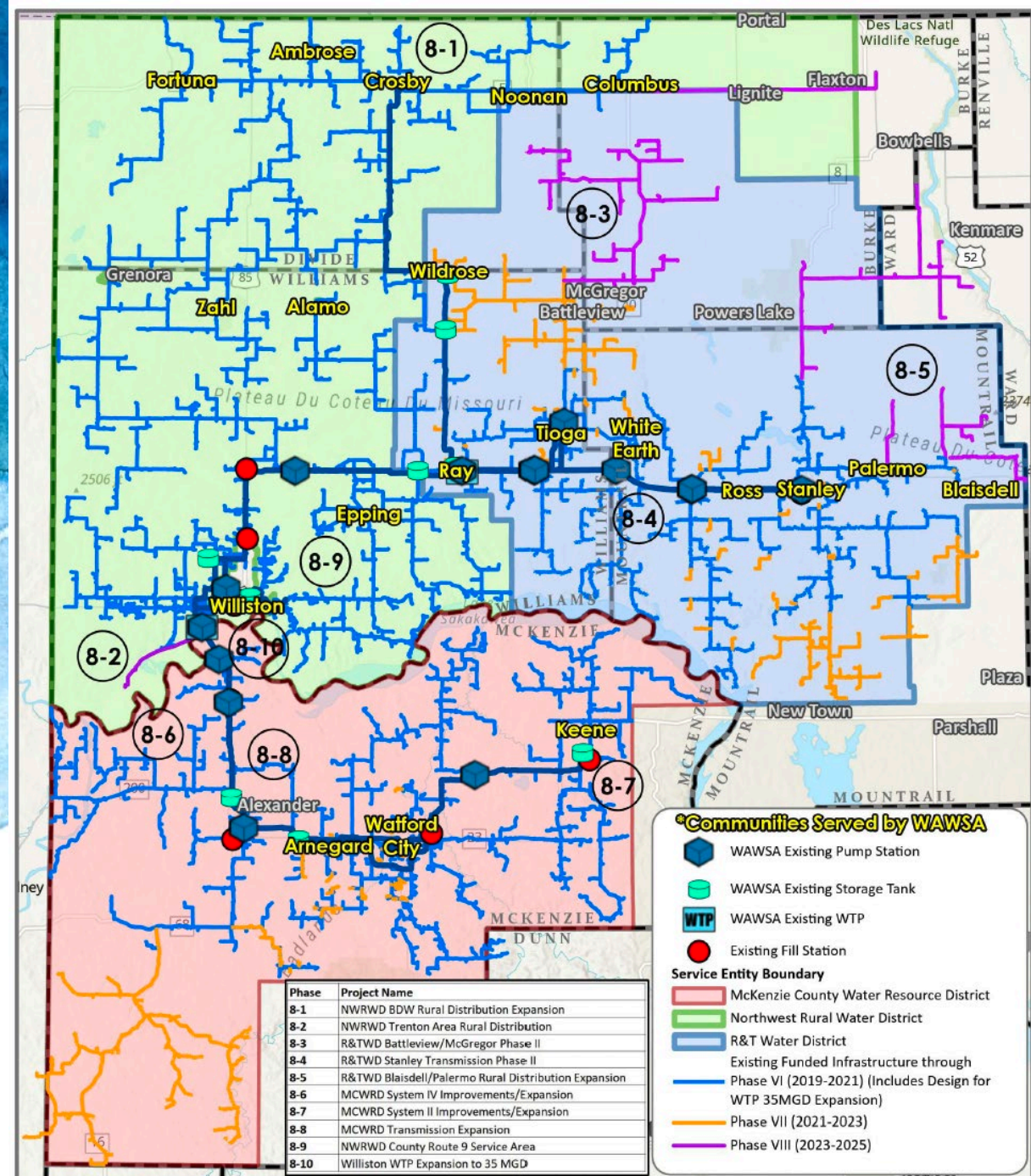
## 2023-2025 Biennium Request:

Total: \$44,850,000

Construction

Budget State Cost Share \$26,910,000

Budgeted Local Cost Share \$17,940,000



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# Industrial Utility

- Industrial water provided by WAWSA contributes supplemental water to private water companies when their supply is insufficient to meet high-rate demand
- WAWSA is unable to complete any frac request independently of any private water supply
- Industrial water requests scheduled into the first quarter of 2024
- These include requests from Hamlin Water, Select Energy Services, Hydra Services, West Dakota Water, and several larger operators
- Finances: With the close of this legislative session, the reformulated budget allows WAWSA to make additional payments to the resources trust fund loans

	2023 Projected	Original 2023 Budget	REVISED 2023 Budget
Bank & Credit Card Charges	1,223	700	1,200
NDIC Full Time Employee	0	75,000	0
Interest Expense			
\$87.75 Million - BND #10	1,484,647	2,700,000	1,484,600
Total Interest Expense	1,484,647	2,700,000	1,484,600
Member Debt Payment			
City of Williston Debt Payments	1,386,563	1,386,600	1,386,600
MCWRD Debt Payments	969,126	903,100	969,100
R & T Debt Payments	558,275	558,300	558,300
Total Member Debt Payment	2,913,963	2,848,000	2,914,000
Principal Payment			
\$87.75M BND Loan #10	1,994,069	2,998,600	1,994,100
Total Principal Payment	1,994,069	2,998,600	1,994,100
Total Expense	10,142,084	11,908,200	10,142,000
Net Ordinary Income	826,818	-2,128,200	826,700
Other Income/Expense			
Other Income			
Contracted Minimum Take Revenue	474,765	50,000	474,800
Finance Charge	3,529	6,000	3,500
SB2196/SB2020 Interest/Note Redemption	6,598,387	0	0
Total Other Income	7,076,682	56,000	478,300
Other Expense			
Capital Project Expenditures	10,485	0	10,500
Total Other Expense	10,485	0	10,500
Net Other Income	7,066,197	56,000	467,800
Net Income	7,893,015	-2,072,200	1,294,500

Capital Reserve Account Additions

164,700





**Tami Madsen, Executive Director**  
**[tami.madsen@wawsp.com](mailto:tami.madsen@wawsp.com)**  
**701-609-0450**



**WESTERN AREA**  
WATER SUPPLY AUTHORITY