

# Facility Plan

Wyoming State Revolving Fund

## SCWD Transmission Line Replacement

### Squaw Creek Water District

6600 Squaw Creek Road, PO Box 7692, Jackson, WY, 83002



President: Chip Marvin

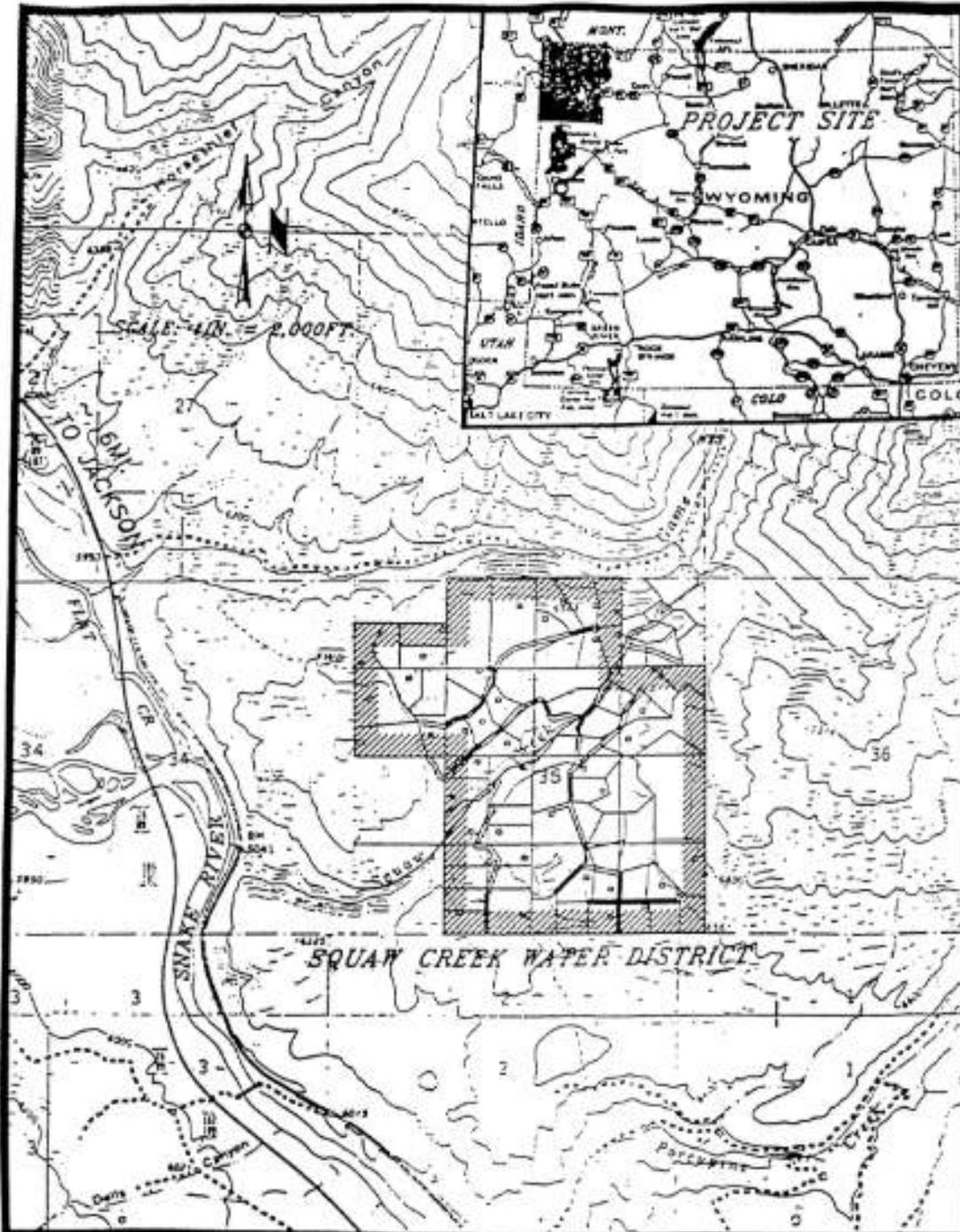
Board Members: Kevin Meagher, Bob Foster, Natty Hagood, Wes Gardner

# Squaw Creek Water District Facility Plan

## Wyoming State Revolving Fund Grant Application

August 4, 2025

General Location Map



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### Water District Area and Development

Squaw Creek Water District [SCWD] is bounded between two water drainages flowing out the Bridger Teton Nation Forest [Game Creek and Porcupine Creek]. The water district is situated East of the Snake River/US Hwy. 89 and between Hoback Junction and Jackson, Wyoming. The service area encompasses: Section 35, Township 40 North, Range 116 West in Teton County. The first permit to construct was issued by the Wyoming Department of Environmental Quality on September 10, 1982 [permit 82-383R]. The first water system consisted of spring water collected from Squaw Creek drainage and pumped up to [2] storage tanks [10,000 gallons/ea]. A Level-II water study was commissioned in 1994 by the Wyoming Water Development Commission. In 1997 water wells in the Game Creek drainage were connected to the system with 30,000 gallons more storage tank capacity. In 2014 phases 2 & 3 of the Level-II water study was commissioned by the Wyoming Water Development Commission. In 2016 Game Creek wells and the Spring Collection systems were rehabilitated and 30,000-gallon mid-level storage tank was installed.

### Squaw Creek Water District Shareholders

The district provides drinking water to 78 shareholders on 82-lots, encompassing 544-acres. The [2] water wells located in the Game Creek drainage are at 6,150' and pump water to the [4] upper storage tanks at 6,700' of elevation. The shareholders are in 7 different subdivisions throughout the upper Game Creek plateau. The shareholders are made up of mostly full-time residents of Teton County connected via a gravel roadway system.

### Project Description

History: In February of 2024 the primary water supply main started leaking. The leak was visibly identified by the lack of snow cover outside the original water well vault. The water district contracted the only available contractor from Big Piney to vacuum out the soils around the leak. The original 3" galvanized primary main water supply pipe was cracked open on a straight-line pipe. The galvanized pipe showed sever signs of corrosion due to diminished zinc protection due to years of buried use in a wet/spring location.

Drawings: 1978 SCWD drawings reference a 3" and 4" PVC primary water supply main from the booster pump house to the upper storage tanks. 1981 SCWD drawings reference this water supply main to be 4". The 1991 SCWD drawings reference this primary water supply main to be " 3" PR ", defined as polypropylene random copolymer piping.

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Project: FY26 approved budget allocates monies to pot-hole primary main water main easements to determine the extent of the 3” galvanized piping. That extent of the galvanized pipe will be documented and covered. The Board would then contract with an engineering design company to create contract documents to replace that galvanized water main with high density polyethylene pipe.

### **Shareholders Water Usage:**

SCWD Board contracted a new SCADA control system in December of 2024. The new control system can now accurately track and memorize equipment run time and the water operator continues to monitor the primary flow meter.

#### Shareholders usage;

- 15,994 gpd yearly Average daily usage
- 10,061 gpd Winter/Spring daily usage
- 30,332 gpd Summer daily usage

#### Well Pump Run Times;

- Single well run-time is 33% per day in the Winter
- Single well run-time is 75% per day in the Summer

#### Booster Pump Run Times;

- 10% per day in the Winter
- 29% per day in the Summer

### **Water System Overview:**

Distribution System: SCWD starts with [2] water wells in the Game Creek drainage. The water is pumped up to the Mid-Level storage tank [30,000 gallons]. The Mid-Level tank gravity feeds to the Booster Pump House. The [2] Booster pumps push the water up to the Upper Storage Tanks [50,000 gallons].

SCADA Control System: The system is split into [2] control zones. The first control zone is the Upper Storage Tanks and the Booster pumps. The tank float switches cycle the Booster pumps as required to meet the adjustable set points. The Booster pumps are rotated after each cycle. The second control zone is the Mid-Level storage tank and [2] Water Wells. The Mid-Level float

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switches call one or two well pumps to run, depending on the water level settings and time. The controls are remotely operated via cell phone dialers and black fiber optic cabling. There are high/low water alarms, with run time, hours run data trending graphs and tables. The main PLC controller is located in the Booster Pump House.

### **Primary Water Main Liabilities:**

The primary main can be broken into [2] separate zone, similar to the SCADA control system.

Zone-1 = Water wells to Mid-Level storage tanks to Booster Pump House [4" PVC]

Zone-2 = Booster Pump House to the Upper storage tanks [3" or 4" galvanized and or poly]

Each primary main zone is made up of a single water line. If anything happens to either primary water supply mains the water district will be unable to provide potable, safe water to the shareholders. Polypropylene random copolymer and high-density polyethylene water lines have proven to be highly reliable and long lasting. Polypropylene lines make up the majority of the system.

The liability of each zone is the Single primary water main. Zone-2's primary water main is of the Greatest Concern due to the February 2024 discovery of leaking 3" corroded galvanized pipe. Another water main break can easily cause another EPA Emergency Administration Order as the district encountered in July 2024 with positive E-Coli and Bacteria tests.

### **Primary Water Main Replacement:**

Zone-2 galvanized water line has to be replaced soon judging by the state of wear and corrosion of the 3" galvanized water line that was repaired in February 2024. The length of the buried 3" galvanized water line is unknown. The Board has hired [2] separate contractors to trace the water line including ground penetrating radar. These contractors been unable to trace the galvanized water line due to other buried infrastructure in the area. The Board will hire a contractor to pot-hole the Zone-2 primary water line in the Summer/Fall 2025 to determine the length of the buried galvanized pipe. Once the buried length of the galvanized pipe is determined the Board will hire an engineering firm to design the construction documents to replace the Zone-2 galvanized piping system from the Booster Pump House to the buried poly water line or the Upper Storage Tanks as required. The scope and breath of the replacement project is unknown at this time. The estimated cost is based on worst case scenario of replacing all of Zone-2 primary supply main piping system.

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### Water District Budgets, Rates and Taxes:

The SCWD yearly fiscal budget is made up of monthly base rates, water usage rates and yearly taxes. As all of Wyoming as seen the skyrocketing prices and Teton County has seen the largest increase. Below is a summary of the fiscal budgets revenues and expenditures;

#### FY2020 Budget

\$74,041.00	Revenue (\$38.50/mo Base Rate, \$350.00 /yr Taxes)
\$62,706.00	Expenditures

#### FY2021 Budget

\$76,836.00	Revenue (\$38.50/mo Base Rate, \$400.00/yr Taxes)
\$67,788.00	Expenditures

#### FY2022 Budget

\$105,620.00	Revenue (\$38.50/mo Base Rate, \$750.00/yr Taxes)
\$78,598.00	Expenditures

#### FY2023 Budget

\$132,252.00	Revenue (\$49.00/mo Base Rate, \$1,500.00/yr Taxes)
\$198,559.00	Expenditures

#### FY2024 Budget

\$186,220.00	Revenue (\$49.00/mo Base Rate, \$1,500.00/yr Taxes)
\$194,522.00	Expenditures

#### FY2025 Budget

\$182,908.00	Revenue (\$100.00/mo Base Rate, \$2,2550.00/yr Taxes)
\$98,087.00	Expenditures

#### FY2026 Budget

\$294,292.00	Revenue (\$100.00/mo Base Rate, \$2,250.00/yr Taxes)
\$229,676.00	Expenditures

The monthly base rate and the yearly taxes were increase to allow the water district to fund large repairs, such as the Zone-2 primary galvanized water main replacement. Even with the large increase in the shareholders monthly base rate and yearly taxes the district still needs financial help from the State to provide safe potable drinking water.

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### Zone-2 Primary Galvanized Water Main Replacement Estimate

<u>Description</u>	<u>Qty</u>	<u>Qty/ea</u>	<u>Cost</u>
Engineering Design	1	\$28,500	\$28,500
DEQ Permitting and Bid Management	1	\$22,500	\$22,500
3" HDPE trenched water line	3,700	\$30	\$111,000
3" HDPE bored water line under Spring & Road	300	\$100	\$30,000
48" Vaults and Valving	3	\$8,500	\$25,500
Replacing existing water meter vault piping	1	\$12,500	\$12,500
Replacing existing Booster Pump House piping	1	\$25,000	<u>\$25,000</u>
		Sub-Total =	\$255,000
Miscellaneous Force Account (20%)			\$51,000
Project Management, Labor Review, Buy America (7.5%)			<u>\$22,950</u>
		<b>Project Budget =</b>	<b>\$328,950</b>

### Loan Information for Galvanized Main Replacement Project

<u>Construction Costs</u>	<u>50% SRF Forgiveness</u>	<u>Loan Amount</u>	<u>Intrest</u>	<u>20-yr Monthly Payment</u>	<u>Monthly Individual Shareholder Liability</u>	<u>Current Monthly Rate</u>
\$328,950	\$164,475	\$164,475	2.0%	\$832.05	\$10.15	\$100.00

○ DWSRF:

Category	% of Total Cost	Cost (\$)
Planning		
Treatment		
Transmission & Distribution	100%	\$328,950.00
Source		
Storage		
Purchase of Existing Infrastructure		
Restructure of Existing Debt		
Land Acquisition		
Other (specify)		
Total		

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### **Environmental Considerations:**

Proposed Zone-2 primary water main construction would be located in previously disturbed water infrastructure easements. Water mains would be bored underneath existing spring area. This spring area was rehabilitated in 2016 based on the Level-II water study results. This spring is no longer physically tied to the SCWD and is not in operation due to adequate supply from water wells and is not a preferred water source. All excavation will use soil erosion, sediment and dust control methods. Utilizing underground boring and trench construction techniques will minimize ground disturbances.

### **Operation and Maintenance:**

SCWD contracts an independent water service company to maintain, service and test its water systems. The Board oversees and recommends large repairs in corroboration with the water service company. The proposed Zone-2 water main replacement project would not interfere with the normal day-to-day operation, maintenance and testing of the water system. The district's water contractor and the contracted project manager will confirm the successful contractor follows all water quality inspections and tests per the DEQ permit prior final connection. Operation of the system will be shut down for one day increments for flushing and connections per the DEQ permit. The storage tanks provide enough potable water for the shareholders daily usage. Maintenance will be reduced by replacing the galvanized water main with longer life polyethylene and stainless-steel fittings.

### **Project Summary:**

The Zone-2 primary galvanized water main replacement from the Booster Pump House to the Upper Storage Tanks is a large project for this small Wyoming community. The February 2024 galvanized water main leak and the July 2025 EPA Emergency Administrative Order has charged the SCWD Board to push forward large preventative maintenance items. The Board has tripled the monthly base rate and yearly taxes in just a few years to financially prepare for this project. Zone-2 primary galvanized water main replacement project will ensure the water district can continue to provide safe, potable water to its shareholders. SCWD requests funding from the State Revolving Fund to help support their Wyoming residents. The proposed request is to

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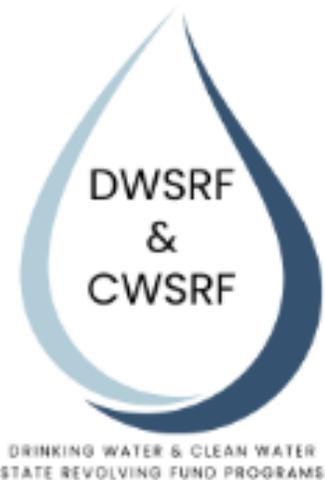
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replace the entire Zone-2 primary water main, if necessary. Once the full distance of the galvanized main is determined that will determine the scope of work. The Board is optimistic the galvanized water main length is minimal and can be replaced for much less, but are prepared to fully replace the Zone-2 water main.



# Wyoming Drinking Water State Revolving Fund

Wyoming Office of State Lands and Investments  
Herschler Building Suite W103  
122 W 25th Street  
Cheyenne, WY 82002



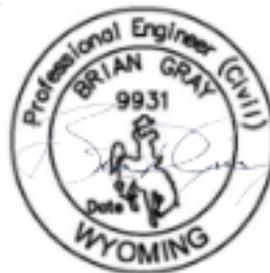
## Useful Life Certification

Project: SCWD Transmission Line Replacement

Community: Squaw Creek Water District

In accordance with Section 1452(f)(1) of the Safe Drinking Water Act, as amended by America's Water Infrastructure Act of 2018:

I hereby state that this project will result in infrastructure with a **minimum useful life of 30 years** as determined in accordance with generally accepted engineering principles and practices within this state and taking into account both the specific climatic and other environmental conditions of the infrastructure's site as well as the infrastructure's full, anticipated design use.



*Professional Engineer's Signature & Official Seal*

01/22/2026

*Date*



SCWD Booster Pump House



3" galvanized pipe in  
Booster Pump House  
Vault



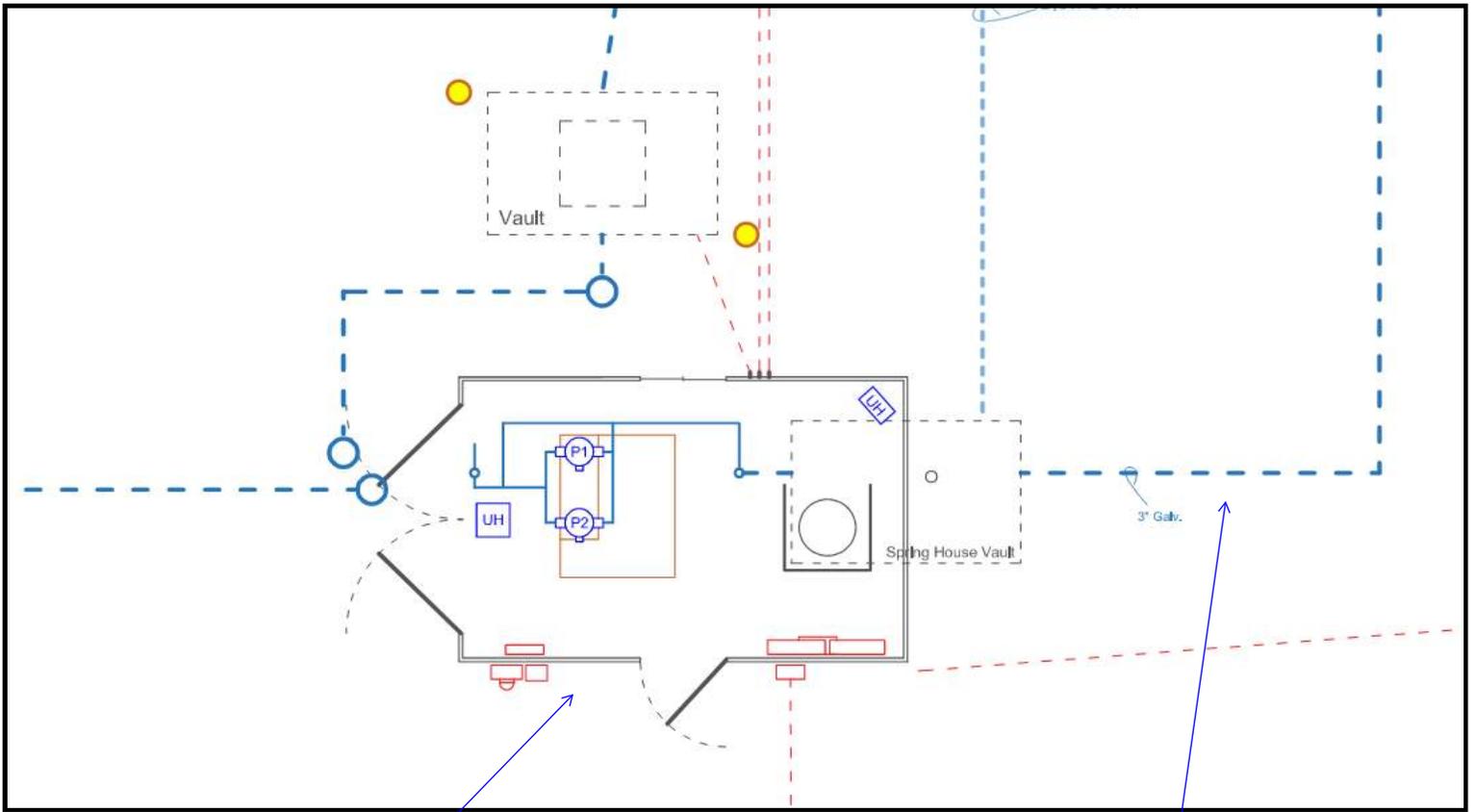


February 2024  
Zone-2 Primary 3"  
Galvanized Pipe Main  
Leak



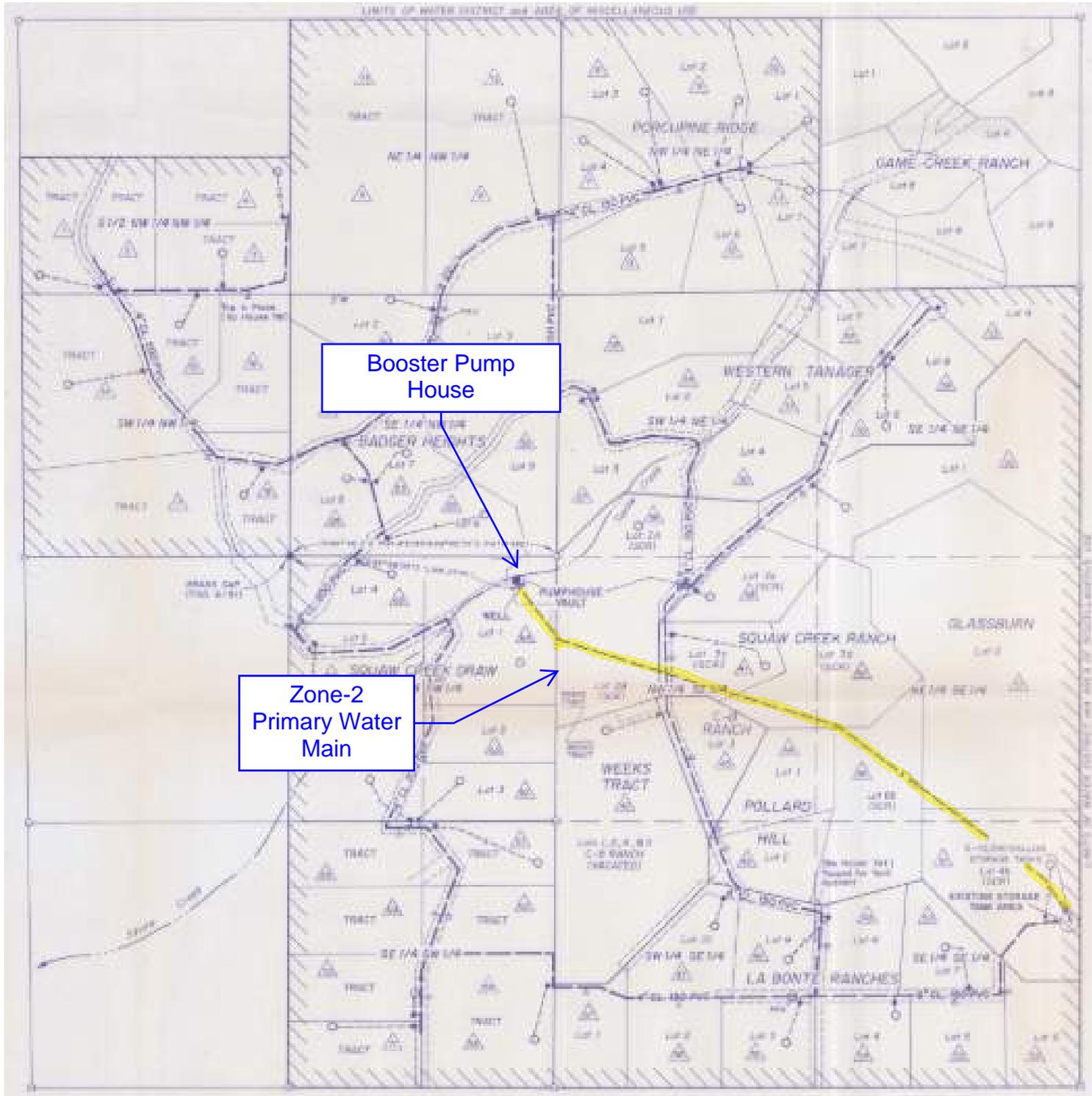
3" Galvanized Pipe  
Repair





Booster Pump House

Location of 3" Galvanized Main Leak



Booster Pump House

Zone-2 Primary Water Main