

TD-2 Group: Low System Summary

Project Identifier: TD-2 Group

CIP Budget: \$2,000,000

Project Name: TD-2a, 2b, 2c, 2d

Funding Source: Rates

PROJECT DESCRIPTION (TD-2 GROUP): This group of projects includes replacement of transmission and distribution infrastructure within the Low System with appropriately-sized pipe consisting of materials suitable to each area's underground conditions.

NEED OR JUSTIFICATION (TD-2 GROUP): The water main replacement projects are intended to replace small diameter, metallic, aging distribution infrastructure and improve hydraulic efficiency throughout the Low Service Level. The sections identified will provide the greatest benefit in terms of increased hydraulic capacity and replacement of aging infrastructure when they are replaced. Benefits associated with replacement of these areas of the distribution system include:

1. Increased transmission capacity between Wells 1A and 2 and the Low Reservoir;
2. Greater transmission capacity will allow Well No. 1A to operate at higher capacity;
3. Improved fire flow capacity to the historic downtown area;
4. Replacement of aging pipe, valves, and fittings with new infrastructure; and
5. Reduced leakage and potential for breaks.

INDIVIDUAL LOW SYSTEM PROJECTS

Project Identifier: TD-2a (Low Service Level)

CIP Budget: \$429,000

Project Name: 16-inch Replacement Main,
in 8th Avenue

Funding Source: Rates

PROJECT TD-2a DESCRIPTION: This project replaces approximately 1,520 ft. of 8-inch cast iron water main located in 8th Avenue from 24th to 29th Street with 16-inch ductile iron water main. The estimated cost of replacement is estimated at \$429,000 which includes the following markups: 6% sales tax, 15% contractor overhead/profit, 20% construction contingency and 20% engineering and administrative expense.

Project Identifier: TD-2b (Low Service Level)

CIP Budget: \$743,000

Project Name: 16-inch Replacement Main,
in 8th Avenue, 20th, 7th Streets

Funding Source: Rates

PROJECT TD-2b DESCRIPTION: This project replaces approximately 2,350 ft. of 8-inch cast iron water main located in 8th Avenue and 20th, 7th Streets from 20th to 24th Street with 16-inch ductile iron water main. The estimated cost of replacement is estimated at \$743,000 which includes the following markups: 6% sales tax, 15% contractor overhead/profit, 20% construction contingency and 20% engineering and administrative expense.

Project Identifier: TD-2c (Low Service Level)

CIP Budget: \$577,000

Project Name: 16-inch Replacement Main,
in 8th Avenue, 20th, 7th Streets

Funding Source: Rates

PROJECT TD-2c DESCRIPTION: This project replaces approximately 2,210 ft. of 2,4,6,8-inch cast iron and galvanized steel water mains located in 8th Avenue, 20th, and 7th Streets from 20th to 24th Street with 16-inch ductile iron water main. The estimated cost of replacement is estimated at \$577,000 which includes the following markups: 6% sales tax, 15% contractor overhead/profit, 20% construction contingency and 20% engineering and administrative expense.

Project Identifier: TD-2d (Low Service Level)

CIP Budget: \$251,000

Project Name: 16-inch Replacement Main,
in 16th and G Streets from Idaho
to 13th Streets

Funding Source: Rates

PROJECT TD-2d DESCRIPTION: This project replaces approximately 870 ft. of 6-inch cast iron water main located in 16th and G Streets from Idaho to 13th Streets with 16-inch ductile iron water main. The estimated cost of replacement is estimated at \$251,000 which includes the following markups: 6% sales tax, 15% contractor overhead/profit, 20% construction contingency and 20% engineering and administrative expense.