

S-24 Sewer System Pipeline Major Repairs

Category: Sewer
Department: Utilities

Status: Ongoing
Location: Throughout Sewer Utility's Service area

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2015 Budget	FY 2016 Budget	FY 2017 Budget	FY 2018 Budget	FY 2019 Budget	FY 2020 Budget	FY 2021 Budget
30,762,785	17,946,785	1,232,000	1,836,000	1,873,000	1,911,000	1,949,000	1,988,000	2,027,000

Description and Scope

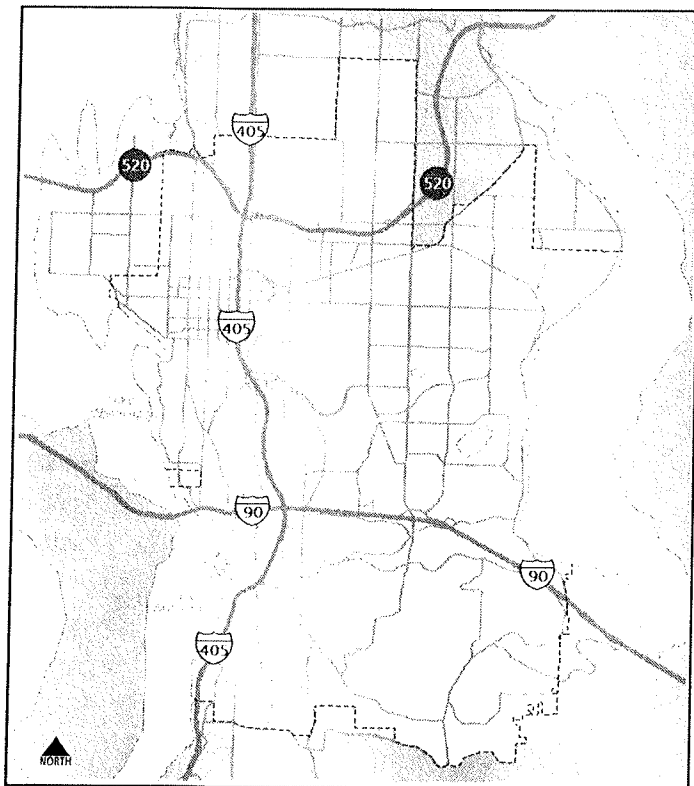
This program funds major repairs sewer pipes where that is a cost-effective solution to extend the pipe's service life. Most defects are identified from the Utility's infrastructure condition assessment (video) program. Pipes are prioritized for repair based on risk of failure (likelihood and consequence), failure history, and to coordinate with other construction such as planned street overlays, which reduces restoration costs.

Rationale

Bellevue's 650+ miles of sewer mains and the stubs that carry wastewater from homes and businesses to the mains are rapidly deteriorating. Most are 35-60 years old, and more than halfway through their expected functional life. As pipes age, cracks become wider and joints between pipes loosen, increasing the likelihood of blockages that cause sewer backups. Repairing these defects reduces pipeline failures, reduces the risk of blockages or collapse that could result in property damage, and reduces the amount of ground water entering the sewer system which in turn reduces the risk of exceeding the system capacity and overflowing sewage into surface waters. In many cases, localized 'spot' repairs are the most cost effective choice and assure maximum total pipe life. Video observations and condition data indicates whether full pipe replacement or relining would be more cost effective.

Environmental Impacts

Point repairs to sewer pipes generally disrupt only a small area, and have minimal environmental impacts. The repair may prevent sewage from escaping the piped system, preventing environmental pollution. The environmental impacts and the State Environmental Protection Act (SEPA) requirements will be determined for each replacement segment, but they are generally SEPA exempt.

Operating Budget Impacts**Project Map****Schedule of Activities**

Project Activities	From - To	Amount
Project Costs	1990 - 2021	30,762,785

Total Budgetary Cost Estimate: 30,762,785

Means of Financing

Funding Source	Amount
Judgements/Settlements	84,000
Miscellaneous Revenue	1,537,000
Utility Rates/Fees	29,141,785

Total Programmed Funding: 30,762,785

Future Funding Requirements:

Comments