



Gardnerville Ranchos General Improvement District

South District Pipeline Replacement Program Waterline Improvement Projects – Phase 2B

The South District Pipeline Replacement Program (Program) was established to remove and replace water distribution lines with unreliable, brittle material, such as Schedule 40 PVC or asbestos cement pipe, from the southern district of the Gardnerville Ranchos General Improvement District (GID). The existing water system infrastructure that is at the end of its useful life and presently poses a health and human safety risk associated with recurring pipe failures associated with the existing pipe material and age. The existing pipe is also located outside of the Right of Way in several areas and when breaks do occur they are often in areas that are difficult to access for timely and efficient repairs, which leads to higher water loss. PVC pipe breaks can result in loss of system pressure and the need for the Gardnerville Ranchos GID to issue a boil water notice until the repair is accomplished and bacteriological testing can be performed. Projects will rehabilitate the existing water system by replacing the existing Schedule 40 PVC with modern, NSF certified C900 pressure class pipe that will be located within the Right of Way and provide a substantial improvement to the operational efficiency, safety, and conservation of the water system. Phase 1 of this program was designed by Lumos & Associates and constructed by Q&D Construction. The project reached final completion in July 2023 and replaced approximately 12,500 linear feet of 12" Schedule 40 PVC and asbestos cement waterlines and appurtenances. Phase 2A of this program is planned to break ground on July 24, 2023 and includes the replacement of 11,000 linear feet of 4" and 6" waterline and appurtenances.

Next Steps: Phase 2B Waterline Improvements

The Phase 2B Waterline Improvements have been designed by Lumos & Associates and are ready to move into the construction phase with Q&D Construction. The project will replace 20,000 linear feet of 4", 6", and 8" Schedule 40 PVC waterline with 6" and 8" C900 PVC pressure pipe. The replacement also includes new fire hydrants and services. The construction costs for the Phase 2B Waterline Improvements are approximately \$8 million dollars.

This project is being submitted to the Nevada Department of Conservation to seek infrastructure funding from American Rescue Plan Act (ARPA) fund managed by the Natural Resources Nevada Water Conservation and Infrastructure Institute.

For project updates, please use Q&D Construction's project webpage:
<https://qdconstruction.com/grgid/>

PROJECT AT A GLANCE

- Phase 1 of the program was completed in July 2023 at an approximate cost of \$5 million
- Phase 2A will be breaking ground in July 2023 and cost \$5 million dollars
- Phase 2B is anticipated to start construction in October 2023 and cost \$8 million dollars
- Total number of population served from Phase 2B will be ±700 people
- Total length of Schedule 40 PVC or asbestos cement water distribution lines to be replaced in Phase 2B is ±20,000 linear feet
- Promotion of water conservation and quality by reducing waterline leaks and breaks

Future Plans: Future Phasing and Waterline Projects

The next step in the process is to review the remaining areas in need of rehabilitation and determine scopes for future phases. There are approximately 28,000 linear feet of water distribution lines in the southern district that still need replacement.