



Water Infrastructure Improvements

Project Introduction and Project Scope

December 22, 2023

Project Introduction:

The Southwest Lincoln County Water PUD (the PUD) completed a Water Master Plan in 2019. This plan summarized the PUD's current water system identifying multiple system deficiencies that need to be addressed over the 20-year planning period.

There are ten locations in the PUD prioritized for upgrade. At these locations, the waterlines are inadequate, vulnerable to seismic events or made of hazardous materials and are generally beyond their typical life cycle. Replacing the waterlines would reduce the possibility of water service interruptions due to breaks in old lines and would also remove the danger that can come with maintaining and operating infrastructure constructed of hazardous asbestos concrete lines.

President Biden signed the Infrastructure Investment and Jobs Act (IIJA), commonly referred to as the Bipartisan Infrastructure Law (BIL) on November 15, 2021. The passing of BIL provides a 5-year opportunity of enhanced funding through the Safe Drinking Water State Revolving Fund (SDWRLF) to address various drinking water infrastructure needs. This funding award is targeted to the 2022 Bipartisan Infrastructure Law General Supplemental Funds.

Project Scope:

Project includes, but is not limited to, final design and replacement of approximately 9,500 – 15,000 feet of waterlines located on 7-8 streets, as identified in the August 2022, Preliminary Engineering Report (PER) prepared by Civil West Engineering. Two Projects were not identified in the PER but were added to the project scope due to unexpected and dramatic pipe ruptures that occurred in August 2023.

1. SW Seabrook Lane Waterline – 1,900-feet; PER Project #2

The purpose of the SW Seabrook Lane Waterline Project is to install a new 12-inch seismic resilient waterline and replace the old existing 8-inch AC pipeline. The new pipeline will be located along Seabrook Lane. Seabrook Lane is located near mile marker 3 along Hwy 101. The project will extend east along Seabrook for over 1,863 feet.

2. SW Wakonda Beach Road Waterline – 2,000-feet PER Project #3

The purpose of this project is to replace an old brittle smaller pipeline with a new seismic resilient larger pipeline to improve pressures and fire flow. The SW Wakonda Beach Waterline Project is located along SW Wakonda Beach Road. The project extends east along SW Wakonda Beach for approximately 1950 feet.

3. SW Tara Lane to SW Forestry Lane – 2,500-feet PER Project #4

The purpose of this project is to replace an old brittle smaller pipeline with a new seismic resilient larger pipeline to improve local and system wide pressures and fire flows. The existing waterline impacted by the new project extends from SW Tara Lane northeast along a private easement to a valve cluster on SW Forestry Lane, then north along the west border of the Forestry Department property, east along the unnamed road/driveway, and finally across Hwy. 101.

7. East Side of HWY 101 from Fernwood Drive North to SW Whitecap Drive – many services line relocated and 1,000-feet of pipeline PER Project #9

The purpose of this project is to discontinue the use of an existing 6-inch AC pipeline and reconnect all service lines and fire hydrants to an existing 10-inch PVC pipeline. The AC pipe is becoming costly to maintain. The project entails the disconnection of existing services from the old AC pipeline to the newer PVC pipeline. The project limits are along the east side of Hwy 101 between SW Whitecap Drive on the north and SW Fernwood Drive on the south.

8. NE Camp One Street Waterline – 1,200-feet PER Project #10

The project entails the replacement of an old, leaking, brittle existing 4" AC pipeline with a larger seismic resilient pipeline to provide fire protection and security. The waterline runs along NE Camp One Street. The project extends east from Highway 101 for 1,275'

9. NE California Street Waterline – 1,000-feet PER Project #11

The project entails the replacement of a 4" brittle AC pipeline with a larger seismic resilient pipeline which will also provide for fire protection. The waterline runs 850' along NE California Street. The project extends east from Highway 101.

10. Dicks Fork transmission from Dick's fork WTP to Wakonda Beach Road – 4,000-feet – Not Included in the PER

The project entails the replacement of the 8" PVC transmission line extending from Dick's Fork Water Treatment Plant, and SW Wakonda Beach Road. The existing pipe does not meet existing construction standards (pipe is too thin, and radius of curvature is far beyond industry standards). In recent months the pipe has begun to fail in multiple locations. This project will replace 3,472 feet of transmission main. The waterline alignment is along a paved and gravel roadway within county road right of way.

11. Wakonda Beach Road – 11,000-feet - Not Included in the PER

The project entails the replacement of the 8" PVC transmission line extending along Wakonda Beach Road from Highway 101 to SW Kathleen Street. The existing pipe does not meet existing construction standards (pipe is too thin, and radius of curvature is far beyond industry standards). In recent months the pipe has begun to fail in multiple locations. This project will replace the 10,452 feet of transmission main. The waterline alignment is along a paved and gravel roadway within street right of way.

For more information, please send an email to avogl@swlcwpud.org.