

Overview of the Lake Fort Smith 48-inch Water Transmission Line Project

The City is in the process of replacing an existing 27-inch water transmission line that supplies water from Lake Fort Smith to areas south of the Lake Fort Smith water treatment plant. The 27-inch water transmission line is being replaced with a 48-inch water transmission line. The project for the 48-inch water transmission line is planned for five (5) phases over multiple years.

Phase 1 of the project is approximately six miles of 48-inch water transmission line installed from the Lake Fort Smith Water Treatment Plant to near Hwy. 282 and I-49.

Phase 2 of the project is approximately 12 miles of 48-inch water transmission line installed from the end of phase 1 to near Rudy Road and Old Dollard Way.

Phase 3 of the project is approximately 9 miles of 48-inch water transmission line installed from the end of phase 2 to near Gun Club Road/Levee Road near the Hwy 59 crossing of the Arkansas River.

Phase 4 of the project is approximately 2 miles of 48-inch water transmission line installed from the end of phase 3 to H Street in Barling.

Phase 5 of the project is approximately 4 miles of 48-inch water transmission line installed from the end of phase 4 to near Hwy 255 and Massard Road.

Lake Fort Smith Water Transmission Line Phase and Status

Proj.	Project Name	Phase	Project	Project Status
08-07	Lake Fort Smith Water Transmission Line - Phase I and Distribution 08-07	Complete	Water	Complete/In Warranty
16-16	Lake Fort Smith Water Transmission Line - Phase 2 16-16	Design	Water	Active
18-20	Lake Fort Smith Water Transmission Line - Phase 3 18-20	Design	Water	Active
18-21	Lake Fort Smith Water Transmission Line - Phase 4 18-21	Design	Water	Active
19-03	Lake Fort Smith Transmission Line - Phase 5 19-03	Design	Water	Active
19-33	Lake Fort Smith Water Transmission Line - Phase 2 A 19-33		Water	Active
20-03	Lake Fort Smith Water Transmission Line - Phase 2 B 20-03		Water	Active

Phase 1 Complete

Phase 1	Agreement Amount	Actual Cost
Design	\$1,442,991.00	\$1,442,817.73
Construction	\$12,067,940.50	\$11,834,825.78
Const. Observation	\$967,772.00	\$967,771.63
Legal	N/A	\$147,368.87
Property	N/A	\$268,723.89
Other Direct Costs	N/A	\$72,823.40
Total Cost		\$14,734,331.30

Phase 1 began with the design agreement with Mickle Wagner Coleman on March 6, 2012. Then continued with S. J. Louis Construction of Texas, Ltd. being awarded the construction contract on October 6, 2015. S. J. Louis Construction of Texas, Ltd. submitted the final payment request for the period of 9/26/2017 through 12/15/2017 on December 26, 2017. Final payment and project completion was approved by Resolution No. R-16-18 on January 16, 2018.

Burns & McDonnell (B&M) was awarded the design for Phase 2, Phase 3, Phase 4, and Phase 5.

- Phase 2 - awarded to B&M on August 1, 2017 by Resolution No. R-116-17.- for \$2,346,192
- Phase 3 - awarded to B&M on October 2, 2018 by Resolution No. R-145-18 for \$1,756,833
- Phase 4 - awarded to B&M on October 2, 2018 by Resolution No. R-146-18 for \$733,042
- Phase 5 - awarded to B&M on June 4, 2019 by Resolution No. R-99-19 for \$1,032,685

Phases 2 through 5 are all currently in the design phase and no construction has been bid or awarded at this time. Below are the current design cost that IA was able to identify for phases 2 through 5.

LAKE FORT SMITH 48-INCH TRANSMISSION LINE DESIGN PHASES

Project/Phase	Agreement Amount	e-Builder Paid To Date	Munis Paid To Date *
16-16-ED1 Phase 2	\$2,707,866.00	\$2,621,577.52	\$2,612,444.75
18-20-ED1 Phase 3	\$1,756,833.00	\$767,409.48	\$767,409.48
18-21-ED1 Phase 4	\$733,042.00	\$222,303.62	\$222,303.62
19-03-ED1 Phase 5	\$1,032,685.00	\$497,537.89	\$497,537.89

* Design cost from Project Central (may not include all costs prior to 2018)

FSUD estimates the design phases as 20% to 95% as listed below.

Design Phases Percentage Complete

Phase 2 – 95% (Environmental will need rework and the distribution is probably at 90%, distribution easements need a lot of work) Easement Acquisition is on-going. For Access and distribution only. Transmission line easements have been acquired)

Phase 3 – 60% (We were not able to get on to significant portions of the project until about two months ago. All survey and geotech is now complete. Minor changes are being made to the alignment as we deal with acquisition issues) Easement Acquisition is on-going.

Phase 4 – 20% (Topo survey and geotech has been completed. We are unable to proceed until ArDOT determines if we are going to be able to install a pipe on their new bridge)

Phase 5 – 60% (Currently waiting to see if we need to change the alignment due to the medical college.) Easement Acquisition is on-going.

IA requested projections for the design phases completion and construction and FSUD was not able to provide any. Below is information obtained from the Utility Water CIP.

SUMMARY OF WATER CAPITAL IMPROVEMENTS PROJECT - LAKE FORT SMITH 48 INCH TRANSMISSION LINE

Source	Project Title	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
	LFS 48 inch Transmission Line										
2022 CIP	Phase 2 (Design)	\$ 140,000	-	-	-	-	-	-	-	-	-
	LFS 48 inch Transmission Line										
2022 CIP	Phase 3 (Design)	\$1,400,000	-	-	-	-	-	-	-	-	-
	LFS 48 inch Transmission Line										
2022 CIP	Phase 4 (Design)	\$ 570,000	-	-	-	-	-	-	-	-	-
	LFS 48 inch Transmission Line										
2022 CIP	Phase 5 (Design)	\$1,530,000	-	-	-	-	-	-	-	-	-
	LFS 48 inch Transmission Line										
2022 CIP	Phase 2a Construction	-	-	-	\$14,223,000	\$14,223,000	-	-	-	-	-
	LFS 48 inch Transmission Line										
2022 CIP	Phase 2b Construction	-	-	-	\$14,223,000	\$14,223,000	-	-	-	-	-
	LFS 48 inch Transmission Line										
2022 CIP	Phase 5 (Design)	-	-	-	-	-	\$13,604,720	\$13,604,720	-	-	-
	LFS 48 inch Transmission Line										
2022 CIP	Phase 3 (Construction)	-	-	-	-	-	\$20,976,560	\$20,676,560	-	-	-
	LFS 48 inch Transmission Line										
2022 CIP	Phase 4 (Design)	-	-	-	-	-	-	-	\$7,316,760	\$7,316,760	-