

Regional Treatment System Located Under 4th Street NE

PROJECT BACKGROUND

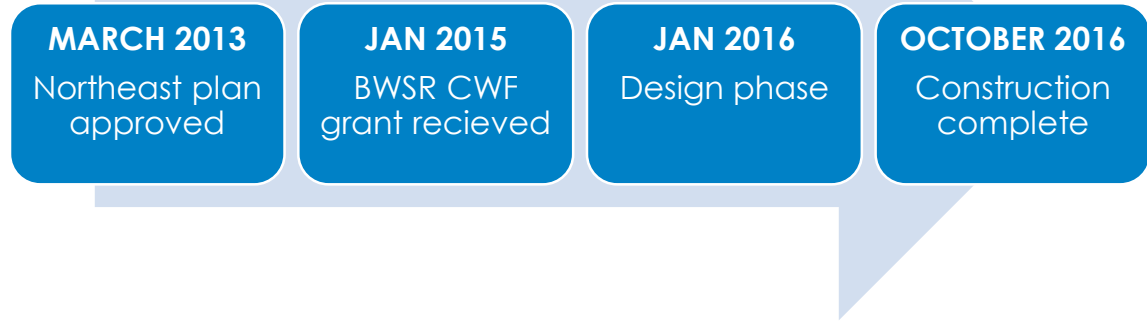
The City partnered with the Benton Soil and Water Conservation District (SWCD) to install a regional underground stormwater treatment system using a Clean Water Legacy grant through the Board of Water and Soil Resources. The system was installed under 4th Street NE. The system consists of three (3) rows of 11' diameter corrugated metal pipe with several baffles and weirs to strategically trap sediment. The system acts like an underground wet detention pond maintaining a four (4) foot ponding depth in the pipe to allow solids to settle. The system treats 45 acres of stormwater runoff from the Lincoln Avenue NE area that previously discharged directly to the Mississippi River.

PROJECT SUMMARY

- Construction cost: \$430,000.
- Grant Funded Cost Portion: \$413,000
- Coordinated project with Benton SWCD.



PROJECT LAYOUT



SUSTAINABILITY BENEFITS – Project added 368,000 gallons of stormwater storage.

Estimated Annual Pollution Reduction

19.7 pounds of phosphorus

10,200 pounds of sediment

14.5 million gallons of water treated