

# Memorandum

## City of Lawrence

### Engineering

**TO:** David Cronin, P.E., City Engineer  
**FROM:** Matt Bond, P.E., City Stormwater Engineer  
**Date:** April 11, 2013  
**RE:** Stormwater Utility

The Stormwater Engineering Division was created in 1996 to manage the stormwater utility and to implement other recommendations of the 1996 Stormwater Management Master Plan. Stormwater Utility fees are charged to all landowners based on impervious surfaces on each property. The resulting revenue supports system capital improvements, storm sewer maintenance, review of development and pollution prevention.

The 1996 Stormwater Management Master Plan recommended completion of 41 capital improvement projects, 19 projects have already been constructed. The more recently completed projects are listed below. A brief project description, year completed and final construction cost are listed with each project. The current general obligation bond debt for these projects will be paid in full by the end of 2018.

- **21<sup>st</sup>, Stewart Avenue to Naismith Drive** (2003) - Replaced existing 48" diameter pipe along 21<sup>st</sup> Street with 5.5' x 3' reinforced concrete box (RCB). (\$1,564,580.41)
- **21<sup>st</sup>, Kentucky to Barker Court** (2004) - Replaced existing 51"x30" pipe with a 5.5' x 3' RCB. (\$1,922,019.27)
- **13<sup>th</sup> & Oregon** (2004) - Replaced existing 10'x6'x1190' RCB with 110' wide open channel drainage ditch. (\$2,564,975.20)

**Maple Street Pump Station in North Lawrence** - This project is currently in the design phase with construction set to begin in 2014. It is funded with the infrastructure sales tax revenue. The existing pump station is a converted sanitary sewer lift station and is inadequate for the storm water runoff currently experienced. Replace existing dual 8" diameter lines with a 2-48" diameter lines and corresponding pump. (estimated cost - \$5,000,000)

The projects listed below are possible future projects and each includes a brief description along with their corresponding estimated cost.

- **23<sup>rd</sup> Street & Ousdahl Road** - Replace existing 24"x72" RCB with a 5'x3' RCB. (estimated cost - \$2.5 to 3.0 million)
- **Alabama, 17th to Naismith Drive** - Replace existing storm sewer infrastructure (estimated cost \$4 to 5 million)
- **8th/9th Holiday** - Replace existing storm sewer infrastructure and construction of detention basin (estimated cost \$800,000)
- **Maple Lane, 19th Street to Brook** - Replace existing storm sewer infrastructure (estimated cost \$2.5 to 3 million)

In addition to overseeing the design and construction of new capital improvement projects the Stormwater Utility is responsible for the maintenance of the existing storm water system network within the approximate 34.3 square miles of the City limits. This includes 138 miles of pipe, 110 miles of open channels and streams and approximately 4600 curb/area inlets and junction boxes.