

**DRAFT Recommended Projects**

2017 *thru* 2021

**Department** Public Works - Stormwater

**City of Lawrence, Kansas**

**Contact** PW Director

<b>Project #</b>	<b>PW17S1CIP</b>
<b>Project Name</b>	<b>Storm Sewer Video Inspection Unit</b>

**Type** Equipment

**Useful Life** 10years

**Category** Storm Sewer/Drainage

**Department Priority** 2 Very Important

**Priority** 3 Important

**Unfunded**

**Status** Active

**Total Project Cost:** \$150,000

<b>Description</b>

<b>Justification</b>

<b>Expenditures</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Equip/Vehicles/Furnishings	150,000					150,000
<b>Total</b>	<b>150,000</b>					<b>150,000</b>

<b>Funding Sources</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Stormwater Fund	150,000					150,000
<b>Total</b>	<b>150,000</b>					<b>150,000</b>

<b>Budget Impact/Other</b>

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**Department** Public Works - Stormwater

**City of Lawrence, Kansas**

**Contact** PW Director

<b>Project #</b>	<b>PW17S2CIP</b>
<b>Project Name</b>	<b>13th Brook Drainage Improvement Improvements</b>

**Type** Improvement

**Useful Life** 50 years

**Category** Storm Sewer/Drainage

**Department Priority** 3 Important

**Priority** 4 Less Important

**Unfunded**

**Status** Active

**Total Project Cost:** \$250,000

<b>Description</b>
Install open span structure to improve overall drainage. This project would be designed and constructed by in house staff.

<b>Justification</b>
Work to improve drainage in drainage basin, eliminate street and property flooding

<b>Expenditures</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Construction/Maintenance	250,000					250,000
<b>Total</b>	<b>250,000</b>					<b>250,000</b>

<b>Funding Sources</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Stormwater Fund	250,000					250,000
<b>Total</b>	<b>250,000</b>					<b>250,000</b>

<b>Budget Impact/Other</b>
Will decrease annual maintenance cost caused by several high water events each year.

# DRAFT Recommended Projects

2017 *thru* 2021

**Department** Public Works - Stormwater

## City of Lawrence, Kansas

**Contact**

**Project #** PW17S3CIP  
**Project Name** Storm Water Culvert Lining

**Type** Maintenance

**Useful Life** 30 years

**Category** Unassigned

**Priority** 3 Important

**Status** Active

**Department Priority** 2 Very Important

**Unfunded**

**Total Project Cost:** \$1,250,000

**Description**  
 Rehabilitate failing storm water culverts by rehabilitation without doing dig and replace. Projects would be completed by in house forces and contract maintenance projects

**Justification**  
 With over 150 miles of underground storm water drainage pipes and culverts with many miles under arterials and collector routes this provides an option to be proactive in the maintenance of the system and provide for a method to rehabilitate without long term street closures and traffic disruptions. Currently we are only reactive after a failure.

<b>Expenditures</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Construction/Maintenance	250,000	250,000	250,000	250,000	250,000	1,250,000
<b>Total</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>1,250,000</b>

<b>Funding Sources</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Stormwater Fund	250,000	250,000	250,000	250,000	250,000	1,250,000
<b>Total</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>1,250,000</b>

**Budget Impact/Other**  
 In place rehabilitation and repair can provide a savings of 20% over the cost of dig and replace. By being proactive we can eliminate we can reduce the need for more costly replacement.

# DRAFT Recommended Projects

2017 *thru* 2021

## City of Lawrence, Kansas

**Department** Public Works - Stormwater

**Contact** PW Director

**Type** Improvement

**Useful Life** 50 years

**Category** Storm Sewer/Drainage

**Priority** 1 Critical

**Status** Active

**Project #** PW18S1CIP  
**Project Name** Naismith Drainage Channel

**Department Priority** 2 Very Important

**Unfunded**

**Total Project Cost:** \$2,500,000

**Description**  
 Repair or replace concrete drainage channel, inflow drainage pipes, and CMP portion of structure under 23rd St.

**Justification**  
 Drainage channel is deteriorated and undermined causing water to flow under channel creating voids under channel and structure under 23rd St. Inflow pipes along Naismith are experiencing section loss allowing undermining of the channel and possibly Naismith Dr.

<b>Expenditures</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Construction/Maintenance		2,500,000				2,500,000
<b>Total</b>		2,500,000				2,500,000

<b>Funding Sources</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Stormwater Fund		2,500,000				2,500,000
<b>Total</b>		2,500,000				2,500,000

**Budget Impact/Other**

**DRAFT Recommended Projects**

2017 *thru* 2021

**Department** Public Works - Stormwater

**City of Lawrence, Kansas**

**Contact** PW Director

<b>Project #</b>	<b>PW18S2CIP</b>
<b>Project Name</b>	<b>23rd &amp; Ousdahl</b>

**Type** Improvement

**Useful Life** 50 years

**Category** Storm Sewer/Drainage

**Priority** 2 Very Important

**Status** Active

**Department Priority** 1 Critical

**Unfunded**

**Total Project Cost:** \$2,400,000

<b>Description</b>
Reconstruction of intersection and storm sewer improvements from north of 23rd & Ousdahl to the Naismith Valley Channel.

<b>Justification</b>
23rd Street experiences frequent flooding and during flood events is public safety concern.

<b>Expenditures</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Construction/Maintenance		2,400,000				2,400,000
<b>Total</b>		2,400,000				2,400,000

<b>Funding Sources</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Stormwater Fund		2,400,000				2,400,000
<b>Total</b>		2,400,000				2,400,000

<b>Budget Impact/Other</b>

**DRAFT Recommended Projects**

2017 *thru* 2021

**Department** Public Works - Stormwater

**City of Lawrence, Kansas**

**Contact** PW Director

<b>Project #</b>	<b>PW19S1CIP</b>
<b>Project Name</b>	<b>17th and Alabama Drainage Improvement</b>

**Type** Improvement

**Useful Life** 30 years

**Category** Storm Sewer/Drainage

**Priority** 1 Critical

**Status** Active

**Department Priority** 2 Very Important

**Unfunded**

**Total Project Cost: \$2,500,000**

<b>Description</b>
Consolidate drainage eliminate street flooding

<b>Justification</b>
In moderate rain events creates street and property flooding

<b>Expenditures</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Planning/Design			100,000			100,000
Construction/Maintenance			2,400,000			2,400,000
<b>Total</b>			<b>2,500,000</b>			<b>2,500,000</b>

<b>Funding Sources</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Stormwater Fund			2,500,000			2,500,000
<b>Total</b>			<b>2,500,000</b>			<b>2,500,000</b>

<b>Budget Impact/Other</b>

**DRAFT Recommended Projects**

2017 *thru* 2021

**Department** Public Works - Stormwater

**City of Lawrence, Kansas**

**Contact** PW Director

<b>Project #</b>	<b>PW20S1CIP</b>
<b>Project Name</b>	<b>Concrete Channel W of Arrowhead Princeton to Peter</b>

**Type** Maintenance

**Useful Life** 30 years

**Category** Storm Sewer/Drainage

**Department Priority** 3 Important

**Priority** 3 Important

**Unfunded**

**Status** Active

**Total Project Cost: \$1,000,000**

<b>Description</b>
Concrete Channel is failing slopes and base of channel are undermined with voids, concrete panels are broken and dislodged creating standing water issues.

<b>Justification</b>
remove old channel and install permeable channel to control heavy water flows and encourage vegetation growth in stream way.

<b>Expenditures</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Construction/Maintenance				1,000,000		1,000,000
<b>Total</b>				1,000,000		1,000,000

<b>Funding Sources</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Stormwater Fund				1,000,000		1,000,000
<b>Total</b>				1,000,000		1,000,000

<b>Budget Impact/Other</b>

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## City of Lawrence, Kansas

**Department** Public Works - Stormwater

**Contact** PW Director

**Type** Improvement

**Useful Life** 30 years

**Category** Storm Sewer/Drainage

**Priority** 2 Very Important

**Status** Active

**Total Project Cost:** \$2,000,000

**Project #** PW21S1CIP  
**Project Name** 19th St Maple Ln to Brook

**Department Priority** 2 Very Important

**Unfunded**

**Description**

Drainage improvements to eliminate street and property flooding

**Justification**

Included in the Storm water master plan as project number 34.

<b>Expenditures</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Construction/Maintenance					2,000,000	2,000,000
<b>Total</b>					2,000,000	2,000,000

<b>Funding Sources</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Stormwater Fund					2,000,000	2,000,000
<b>Total</b>					2,000,000	2,000,000

**Budget Impact/Other**