



# 2016 CAPITAL IMPROVEMENT PLAN (STREETS)

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- STATE OF THE PAVEMENT SYSTEM**
- RECENTLY COMPLETED PROJECTS**
- CURRENT PROJECTS**
- CAPITAL IMPROVEMENT PLAN - STREETS**
- FUTURE PROJECTS**
- UNFUNDED PROJECTS**



# PAVEMENT SYSTEM STATUS



# FUNCTIONAL CLASSIFICATION SYSTEM

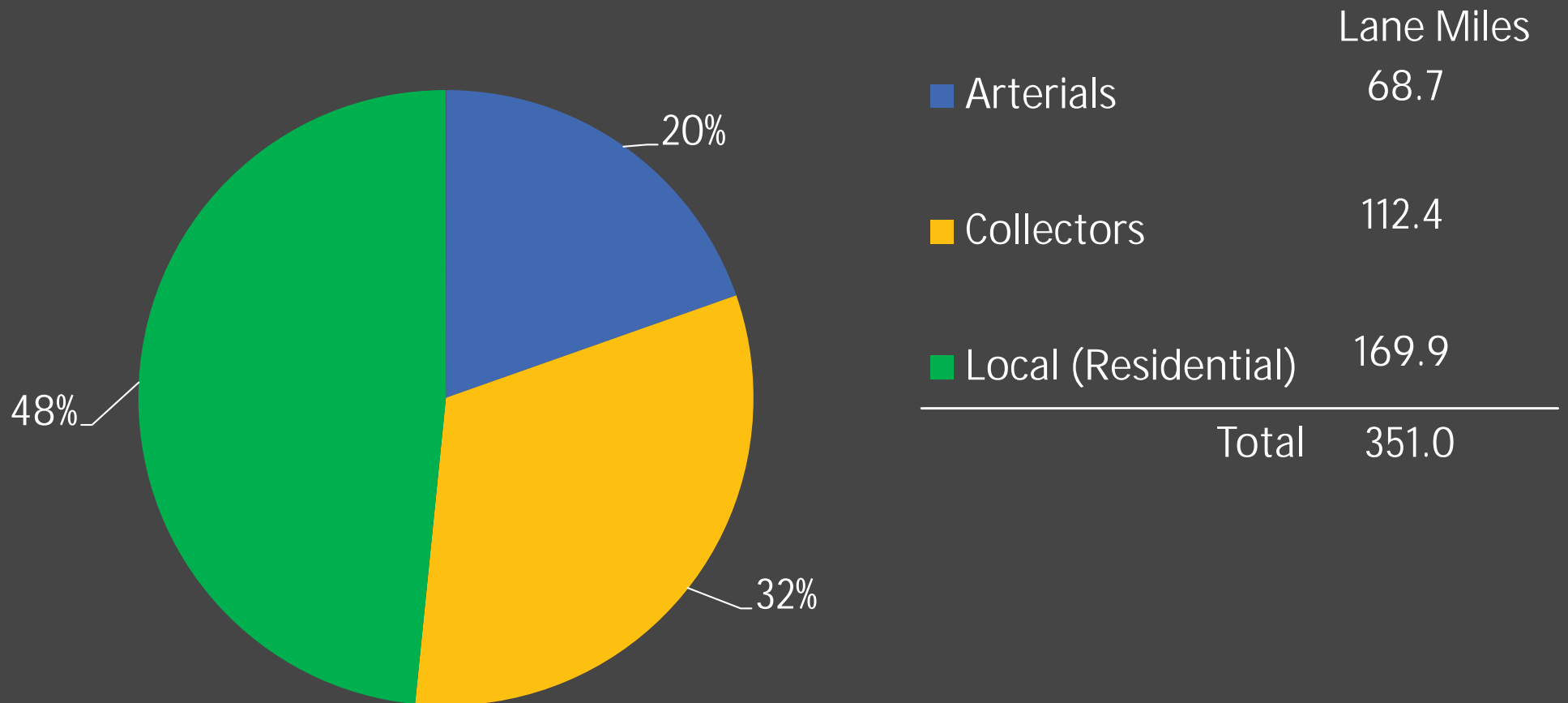
ARTERIALS: Example = Lincoln, Main, Florida, Windsor

COLLECTORS: Example = Goodwin, Washington, Race, Mumford, McHenry

LOCALS(RESIDENTIAL) i.e., Neighborhood Streets:  
Example = Eureka, Oregon, Birch, Burlison

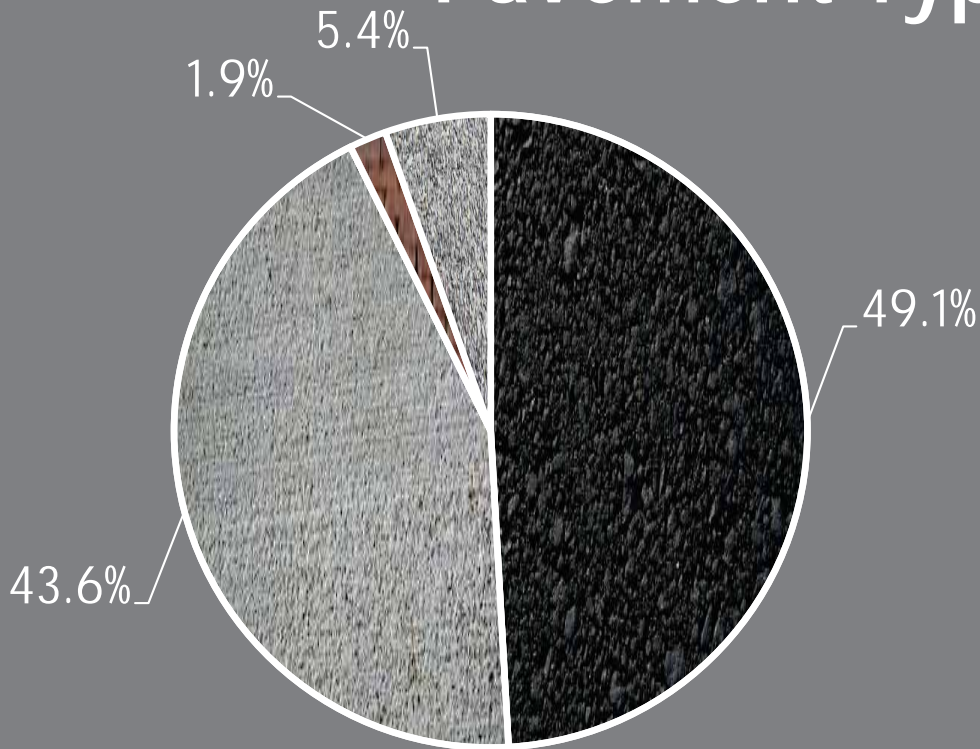


# Functional Classification – Urbana Streets





# Pavement Type



	Lane Miles
■ Asphalt	172.3
□ Concrete	153.1
■ Brick	6.6
■ Other (Seal Coats)	19.0
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Total	351.0



# Urbana Street Rating Guidelines

## Asphalt Pavements (includes sealcoated pavements)

Describes the condition of the street wearing surface, street foundation, and relative efficiency of the street drainage system

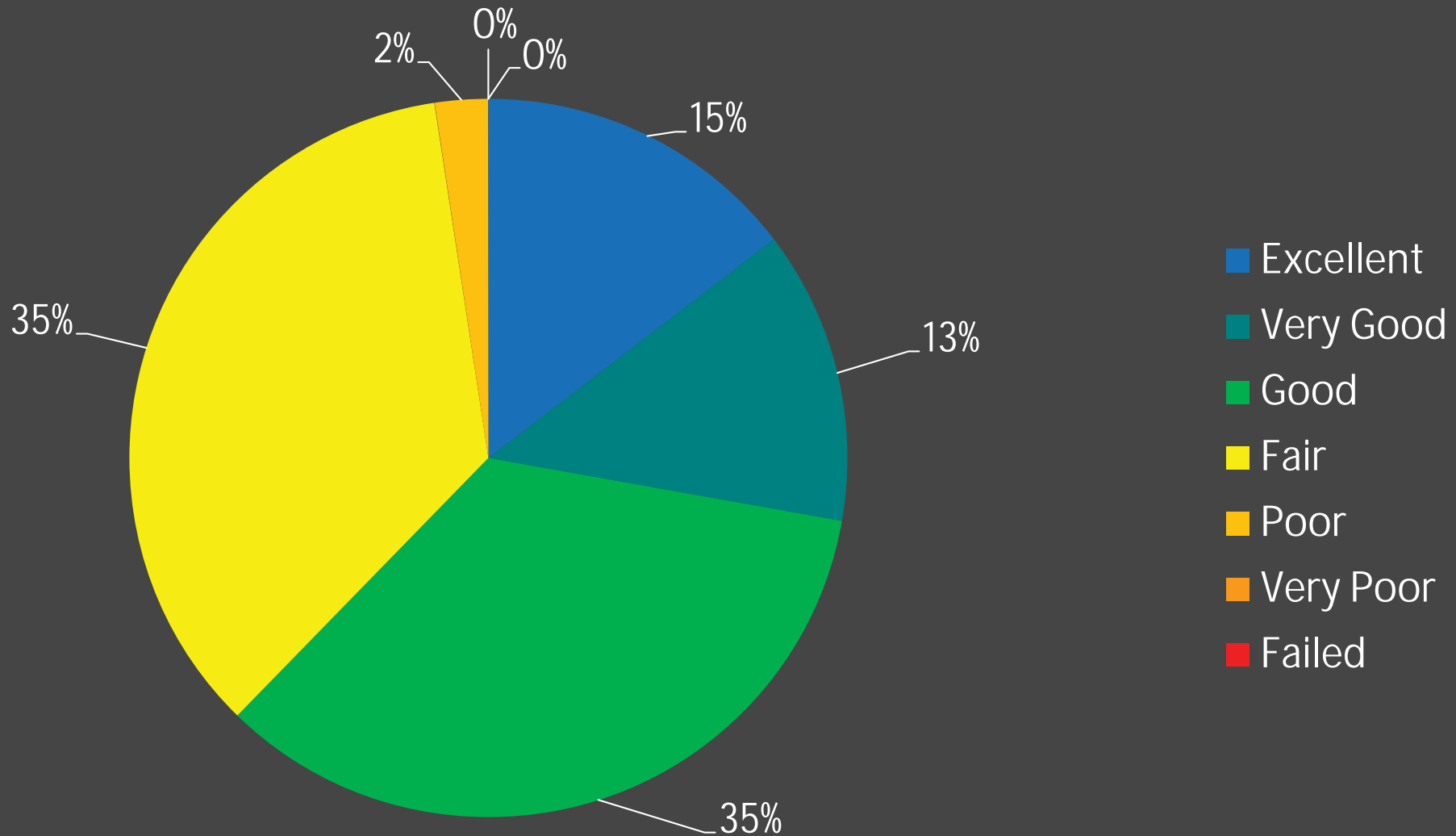
Observe, evaluate and record the rating which best describes the overall condition of each item.

Rating			Comment	Surface			Foundation			Drainage	
				Transverse/Block	Patching/Potholes	Ride Quality	Stability	Fatigue	Rutting	Surface	Curb & Gutter/Ditches
A	9	Excellent	New pavement or recent overlay, streets under construction	None	None	Excellent	Stable	None	None	No surface ponding	Curb & gutter in new condition, ditches in new condition
A-	8	Very Good	Little or no maintenance required, new sealcoat	Light cracking >40' apart	None	Very Smooth	Stable	None	None	No surface ponding	Curb & gutter sheds water very well, no ponding, wide adequate ditches
B	7	Good	Routine crack sealing needed	Light cracking, 10-40' apart	None or very few patches, no potholes	Smooth	Stable	None	None	No surface ponding	Curb & gutter sheds water well, ditches present on majority of section
	6		Routine crack sealing & minor patching needed, preservative treatments (sealcoating)	Light cracking, minor spalling, <10' apart, cracks interconnecting to form block cracking	Minor amounts of patches in good condition, no potholes	Somewhat smooth with isolated bumps & dips	Stable	None	None	Minor localized ponding	Curb & gutter sheds water well, minor localized ponding, ditches may need localized regrading
C	5	Fair	May need minor patching, preservative treatments (sealcoating)	Moderate cracking & spalling, <50% block cracking, continuous widening crack present	Occasional patches in fair condition, no or few potholes	Ride may be uneven	Stable	None	None	Some areas shed water slowly, first signs of drainage related pavement damage	Localized ponding in gutter, localized curb & gutter repair needed, asphalt in gutter in good condition, <50% of ditches need regraded
	4		Pavement near end of practical limits of routine maintenance, a lot of cracking highlighted by crack sealing, new surface may be needed	Moderate cracking & spalling, >50% block cracking	Occasional patches in fair condition, a few potholes	Ride is uneven and bumpy	No or few unstable areas	Signs of alligator cracking, when lanes or are and major cracks	Light rutting <1/2"	Large areas of street slowly shed water, some pavement distress from localized ponding	Large sections of ponding in gutter, large sections of curb & gutter need repaired, asphalt in gutter in fair condition, >50% of ditches need regraded
D	3	Poor	Patching needed, new surface required	Severe cracking & spalling, block cracking is well defined	Frequent patches in fair condition, occasional potholes	Rough Ride	A few unstable areas	<25% alligator cracking, areas stable under traffic loads	Moderate rutting 1/2-1"	Frequent ponding, street is low & holds water in places, drainage related pavement distress evident	Curb & gutter in poor condition, asphalt in gutter in poor condition, significant ditch improvements needed
	2		Base improvements needed, structural overlay required	Severe cracking & spalling, severe block cracking	Frequent patches in poor condition, frequent potholes	Rough & bumpy ride	Occasional unstable areas	25-50% alligator cracking, areas stable under traffic loads	Severe rutting 1-2"	Large areas of street slowly shed water, drainage related pavement distress very evident	Standing water in gutter after rain event, new curb and gutter needed, new ditches required on <50% of section
D-	1	Very Poor	Major rehabilitation or complete replacement needed	Severe cracking & badly eroded, closely spaced cracks of entire surface	Extensive failed patches & potholes	Unacceptable, should slow down	Numerous unstable areas	>50% alligator cracking, areas show movement under traffic loads	Severe rutting >2"	Surface does not shed water	Major improvement in street drainage required, new ditches required on >50% of section
F	0	Failed	Needs total reconstruction	Street has become impassable			Unstable			Complete reconstruction of drainage system needed	

EXAMPLE  
OF RATINGS  
GUIDELINES



# Pavement Surface Condition







## PAVEMENT MANAGEMENT SYSTEM

- **\$100,000 in upcoming fiscal year 16-17**
- **\$50,000 each future fiscal year**
- **Pavement management is a systematic method for routinely collecting, storing, and retrieving the kind of decision-making information needed to make maximum use of limited maintenance (and construction) dollars.**

- As defined by the American Public Works Association



# RECENTLY COMPLETED PROJECTS

# BROADWAY AVENUE RECONSTRUCTION (Stebbins to Oakland)

\$475,000 (CR&I)

\$205,000 (Urbana Park District)



# HIGH CROSS ROAD IMPROVEMENTS (UNIVERSITY AVENUE TO FLORIDA AVENUE EXTENDED)

\$8,000,000 (Illinois Jobs Now)



Washington Avenue



High Cross Road

# CONCRETE PATCHING PROJECT (Bradley – W City Limits to Lincoln) (Beslin – W City Limits to Goodwin) (Goodwin – Eads to Bradley)

\$450,000 (CR&I)





# CURRENT PROJECTS

# OLYMPIAN DRIVE CONSTRUCTION (APOLLO DRIVE TO LINCOLN AVENUE)

(\$12,000,000 (Surface Transportation Program/  
Illinois Commerce Commission /Illinois Jobs Now)



**Expected to open  
In 2017**



Construction  
Summer 2014 – Fall 2016

# WINDSOR ROAD RECONSTRUCTION IMPROVEMENTS

## (PHILO ROAD TO RACE STREET)

\$5,000,000 (Surface Transportation Program/LMFT)

\$4,681,697.11 - to date





# WINDSOR ROAD RECONSTRUCTION IMPROVEMENTS (PHILO ROAD TO RACE STREET)



# LINCOLN AVENUE DESIGN & CONSTRUCTION (Saline Court to Olympian Drive)

\$3,800,000 (Surface Transportation Program/SMFT/County)



Anticipated Construction  
Fall 2016 to Summer 2017

# URBANA MASTER BICYCLE PLAN UPDATE

\$38,000 (CR&I) FY 14-15  
+\$5,000 (CR&I) FY 15-16  
+\$5,000 (CR&I) FY 16-17  

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\$48,000

The Urbana Bikeway Network has:

- 17.1 miles of on-street bicycle facilities and
- 25.9 miles of off-street bicycle facilities



Final Update in 2016

**URBANA BICYCLE MASTER PLAN 2016**

Original (2007)

Rendered (2008)

Implemented (2013)

**DRAFT REPORT**  
FEBRUARY 2016

The complex block contains the title "URBANA BICYCLE MASTER PLAN 2016" in large blue and black letters. To the right is the Urbana Bicycle Plan logo, which is a blue square with a white leaf and a bicycle. Below the title are three photographs of a city street. The first is labeled "Original (2007)", the second "Rendered (2008)", and the third "Implemented (2013)". The street shows the addition of bike lanes and other infrastructure over time. At the bottom left is the Bicycle Friendly Community award logo. At the bottom center are logos for CUUATS, rpc, and the City of Urbana. At the bottom right is the text "DRAFT REPORT FEBRUARY 2016".

# BICYCLE SYSTEM FUNDING

\$55,000 (CR&I) - Annually



# AIRPORT ROAD (Willow Road to Cunningham Avenue)

\$3,000,000 (IDOT--Economic Development Program/TARP/TIF IV)



Anticipated Construction 2016-17

# CONCRETE STREET PATCHING (Florida Avenue, Race Street) \$625,000 (CR&I)

Anticipated Construction  
Summer 2016





# MCCORE

Multimodal Corridor Enhancement Project

Total of all Five Projects = \$41.5 Million



Phase I Study \$500,000 (SMFT)

# MCORE –PROJECT 1 (Green Street—Wright to Busey)



\$1,000,000 (CR&I)  
\$700,000 (SMFT)  
\$300,000 (SWUF)

Anticipated Construction 2016-17



# MUMFORD DR RESURFACING (W of Zuppke to Anderson)

\$250,000 (CR&I/LMFT)



Anticipated Construction 2016

# PAVEMENT PRESERVATION

(Crack Sealing, Restorative Sealing, Seal Coating,  
Chip and Seal and Slurry Seal)

\$500,000 (CR&I/LMFT)



# PAVEMENT PRESERVATION

(Crack Sealing, Restorative Sealing, Seal Coating,  
Chip and Seal and Slurry Seal)

Developing Plans for Neighborhood Asphalt Patch, Seal Coating  
& Sidewalk Ramp Program

- Dr. Ellis Subdivision

(Carver, Romine, Mathews, Beardsley, Eureka, Tremont, Ellis)

Developing Plans for Neighborhood Seal Coating Program

- University Downs & Ennis Ridge Subdivision

(Burlison, Boudreau, Illini Cr, George Huff, Harding, Shuman Cr)



# PAVEMENT PRESERVATION

(Crack Sealing, Restorative Sealing, Seal Coating,  
Chip and Seal and Slurry Seal)

Developing Plans for Collector Street Asphalt Patch & Seal  
Coating Program

- Broadway from Park to Stebbins
- Goodwin from S of Clark to University
- E Main from Dewey to University
- Washington from E of Dodson to Scottswood
- Other Streets





# CAPITAL IMPROVEMENT PLAN - STREETS

# CAPITAL IMPROVEMENT PLAN BACKGROUND

- Planning document for infrastructure
- Research started in 1980s
- First Capital Improvement Plan adopted in 1988
- Adopting Ordinance 8788-R-14
- Covers five-year planning period thru FY20-21

# BUDGETS COVERED IN PLAN

- Sanitary Sewer Benefit Tax (SBT)
- Stormwater Utility Fund (SWUF)
- State Motor Fuel Tax Fund (SMFT)
- Local Motor Fuel Tax Fund (LMFT)
- Capital Replacement and Improvement Fund (CR&I)

# PROJECTS INCLUDED IN PLAN BUT IN OTHER BUDGETS

- Tax Increment Financing District #1 (TIF)
- Tax Increment Financing District #2 (TIF)
- Tax Increment Financing District #3 – EXPIRED
- Tax Increment Financing District #4 (TIF)
- Community Development Block Grant (CDBG)
- Motor Vehicle Parking System (MVPS)



# STATE MOTOR FUEL TAX FUND

- Funded by State Motor Fuel Tax and Special Allotments
- Funds
  - Resurfacing, Reconstruction and new Street Construction
  - Traffic Signals and Bridges

# LOCAL MOTOR FUEL TAX FUND

- Funded by Local Motor Fuel Tax
- Funds
  - Resurfacing and Reconstruction Projects
  - Pavement Preservation and Patching Projects
- Pays Debt Service on Windsor Road Project

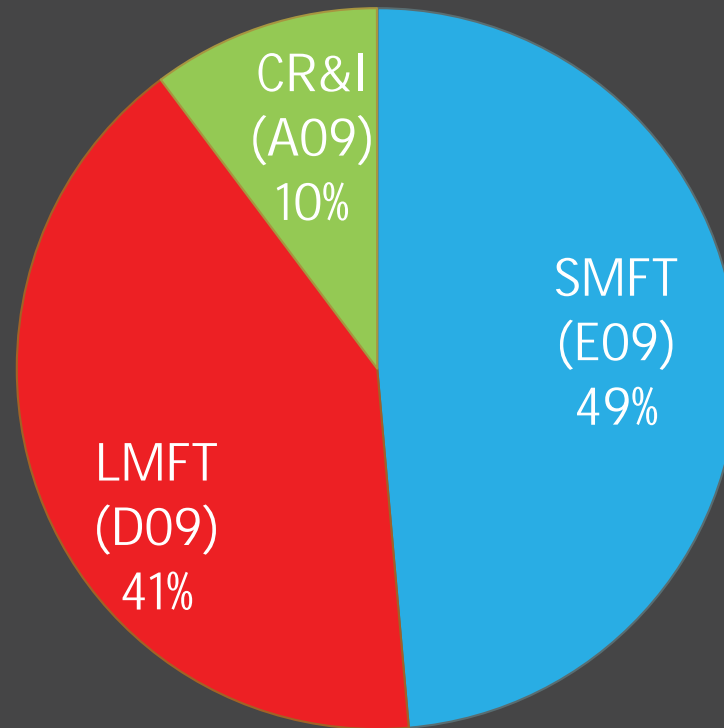
# CAPITAL REPLACEMENT AND IMPROVEMENT FUND

- Funded by
  - General Fund
- Funds
  - Bike Infrastructure and Brick/Concrete Sidewalk Repair and Replacement
  - Limited Pavement Preservation and Patching Projects
  - Street Lighting Projects
  - Community Development Home Transfer and Capital Improvements Supplementary Program

# CHALLENGES

- Aging Infrastructure
- Declining Motor Fuel Taxes
- Rising Construction Costs
- Increased Regulations
- Fiscally Constrained—Must Maintain Positive Cash Balance

# STREET FUNDING



FUND	BUDGET
SMFT (E09)	\$1,068,375
LMFT (D09)	\$905,000
CR&I (A09)	\$225,000
TOTAL	\$2,198,375



# FUTURE PROJECTS

# LINCOLN AVENUE RESURFACING (S of Killarney to current N end)

\$1,900,000 (SMFT)



Anticipated Construction 2017

# VINE STREET RESURFACING (Main to University)

\$400,000 (LMFT)



Anticipated Construction 2017



# LINCOLN AVE RESURFACING (Green to University)

\$920,000 (SMFT)



Anticipated Construction 2018

# SPRINGFIELD AVE RESURFACING (Gregory to Coler)

\$310,000 (SMFT)

Anticipated  
Construction  
2018



# VINE STREET RESURFACING (S of Washington to California)

\$400,000 (SMFT)



Also includes the east and west  
legs of Washington at Vine



Anticipated Construction 2019

# MCORE –PROJECT 5 (Green Street—Busey to Race)

\$1,000,000 (SMFT)

\$100,000 (SWUF)



Anticipated Construction 2019

# FAIRLAWN DR REHAB (Vine to Anderson)

\$500,000 (SMFT)



Anticipated  
Construction  
2019

# LINCOLN AVE RESURFACING (S of Wascher to S of Killarney)

\$1,000,000 (SMFT)

\$200,000 (LMFT)



Anticipated Construction 2020

# DIVISION AVE RECONSTRUCTION (S of Kerr)

\$200,000 (CR&I)

Anticipated  
Construction  
2020



# ANDERSON ST RESURFACING (Colorado to Florida)

\$425,000 (SMFT)



Anticipated  
Construction  
2021



# SPRINGFIELD AVE RESURFACING (Coler to McCullough)

\$750,000 (SMFT)



Anticipated Construction 2021

# TRAFFIC STUDIES

\$30,000 (CR&I) in upcoming fiscal year 16-17



(Lincoln Ave –  
Sunset to Killarney)



(Lincoln Ave –  
Pennsylvania to Nevada)

# TRAFFIC STUDIES

Study to be performed by in-house staff

Vine St at Fairlawn Dr





# UNFUNDED PROJECTS

# UNFUNDED MAJOR STREET PROJECTS

Location	Cost
East Florida Avenue Extension	\$3,300,000
Florida Avenue (Busey to Vine)	\$3,000,000
Washington Street Improvements (Dodson to Pfeffer)	\$2,750,000
Residential Intersection Street Lighting (210 intersections)	\$4,000,000
Airport Road Extension (Willow to Lincoln)	\$5,400,000
Olympian Drive (Lincoln to US Route 45)	\$12,000,000
Lierman Neighborhood Street Lighting	No estimate available

# UNFUNDED STREET RESURFACING PROJECTS – ARTERIALS\*

Location	Cost**
Florida Ave from W City Limits to Busey	\$1,550,000
Vine St from S of Florida to S of Washington	\$1,100,000
Vine St from N of California to Main St	\$625,000
Windsor Rd from W of Lincoln to E of Lincoln	\$1,000,000
Sub Total	\$4,275,000

\*Critical streets rated as fair pavement surface condition are included in list. Streets estimated at <\$500,000 not included in the list.

\*\*Estimated Construction Cost.

# UNFUNDED STREET RECONSTRUCTION PROJECTS - COLLECTORS\*

Location	Cost**
Anderson St from Pennsylvania to Fairlawn	\$425,000
Goodwin from Springfield to S of Clark	\$475,000
Goodwin from S of Clark to University	\$200,000
Sub Total	\$1,100,000

\*Critical streets rated as bottom end of fair pavement surface condition are included in the list.

\*\*Estimated Construction Cost.

# UNFUNDED STREET RESURFACING PROJECTS – COLLECTORS\*

Location	Cost**
Anderson St from Mumford to Colorado	\$375,000
Anthony Dr from Lincoln to E End	\$325,000
Colorado Ave from Vine to Philo	\$875,000
Kenyon from Oak to Killarney	\$400,000
McHenry from Anderson to Philo	\$450,000
Sub Total Forwarded to Next Slide	\$2,425,000

\*Critical streets rated as bottom end of fair pavement surface condition are included in the list. Streets estimated at <\$250,000 not included in the list.

\*\*Estimated Construction Cost.



# UNFUNDED STREET RESURFACING PROJECTS – COLLECTORS\*

Location	Cost**
Forwarded from Previous Slide	\$2,425,000
Pennsylvania from W of Orchard to Race	\$300,000
Pennsylvania from Anderson to Cottage Grove	\$250,000
Vine St from Windsor to N of Holmes	\$525,000
Vine St from Colorado to Florida	\$300,000
Total =	\$3,800,000

\*Critical streets rated as bottom end of fair pavement surface condition are included in the list. Streets estimated at <\$250,000 not included in the list.

\*\*Estimated Construction Cost.

# UNFUNDED PATCHING PROJECTS

Location	Cost*
Race Street from Meadow Drive to N of Windsor	\$1,150,000
Florida Avenue from Vine to Philo	\$450,000
Florida Avenue from Curtiss to Kinch	\$150,000
Fairview Avenue from Goodwin to Orchard	\$200,000
Industrial Circle N of Tatman	\$100,000
Sub Total =	\$2,050,000

\*Estimated Construction Cost.

**QUESTIONS?**