



# BOONE COUNTY ROAD & BRIDGE ANNUAL REPORT

A cooperative effort between the Engineering Division of Resource Management and Road & Bridge

Fiscal Year 2018





# **Mission**

To provide a safe and modern transportation network constructed and maintained in a fiscally sound and environmentally responsible manner that is effectively coordinated with city, state and federal agencies.

# LETTER FROM THE CHIEF ENGINEER

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Dear Boone County Commissioners and Boone County Residents,

The Boone County Resource Management – Engineering Division is pleased to present our Annual Report which highlights major activities and accomplishments for fiscal year 2018. Our mission is to maintain and improve the County's 770+ mile road network and associated drainage structures. Statistics show that our data-driven decision making for all programs, and our proactive approach with pavement preservation and rehabilitation efforts are the core reasons for our success.

The dedication of our employees and their ability to communicate and coordinate with each other and with the Road and Bridge employees is the key to our accomplishments. Together, we will continue to provide a safe, modern, and well-maintained transportation system while serving the citizens of Boone County with excellence and integrity.

Thank you for the continued support and the opportunity to serve.

Respectfully,

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Jeff McCann, P.E.

# **Fiscal Year 2018 Expenses**

# REQUIREMENT #1

Report the money expended for construction, maintenance and repair of such highways, roads, bridges and culverts during the preceding year.



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# FY2018 EXPENSES

# **Road & Bridge Expenditure**

# **Yearly Comparison**







#### Expenditures by Function-Budget Basis – Road & Bridge Fund (Major Fund)

		2010		2011		2012		2013		2014
	_	Actual		Actual		Actual		Actual		Actual
Maintenance	\$	6,929,618	\$	6,976,416	\$	6,897,453	\$	8,423,002	\$	7,316,481
Pavement Preservation		1,824,051		1,943,146		2,118,274		2,225,936		3,287,483
Design & Construction		2,216,907		2,853,850		6,959,901		2,280,728		2,232,145
Stormwater Administration		141,808		129,239		39,768		32,078		42,957
Replacement Revenue		1,772,552		-						-
Revenue Sharing		550,000		100		0				1.70
Rebates to Special Districts		268,124		62,475		-				-
Administrative Services		250,000		350,000		309,500		241,755		241,755
Insurance Activity		18,960		8,228		8,821		12,904		30,590
Facility Repair & Replacement		50,000		50,000		50,000		50,000		50,000
Property Tax Distribution		-		203,302		206,055		218,667		224,663
Sales Tax Distribution		-		2,118,578		2,279,397		2,354,854		2,464,895
CART/MV Distribution to Road District		-		39,366		78,613		79,381		83,799
Other		-	_	(62,829)	_	(192,615)	-	4,247	-	(473,324)
Tota	al \$	14,022,020	\$	14,671,771	\$	18,755,167	\$	15,923,552	\$	15,501,444
		2015		2016		2017		2018		2019
		Actual		Actual		Actual		Estimated		Budget
Maintenance	\$	8,025,593	\$	7,136,781	\$	7,095,987	\$	6,939,834	\$	7,112,285
Infrastructure Preservation/Rehab		4,161,622		3,488,468		5,171,587		4,255,684		8,326,000
Design & Construction		1,147,802		1,122,565		1,037,361		2,615,451		1,194,938
Stormwater Administration		85,783		115,563		117,043		121,261		126,430
Replacement Revenue		-		-		-		-		_
Revenue Sharing		-		-		-		-		-
Rebates to Special Districts		-		-		-		-		-
Administrative Services		241,755		329,163		405,000		538,000		630,000
Insurance Activity		2,753		10,870		8,647		16,472		20,000
Facility Repair & Replacement		50,000		50,000		50,000		150,000		150,000
Property Tax Distribution		249,839		247,149		258,052		265,000		280,000
Sales Tax Distribution		2.694.854		2,680,370		2,739,268		2,733,265		2,891,000
CART/MV Distribution to Road District		87,359		87,494		89,271		85,274		86,750
Other		517,760	_	13,246		6,487		139,970		159,635
Tota	ul \$	17,265,120	\$	15,281,669	\$	16,978,703	\$	17,860,211	\$	20,977,038



Maintaining & preserving current infrastructure \$11,195,518 NNUAL REPORT

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# FY2018 EXPENSES

Design & Construction Program Expenses

Road &

Bridge

Major

**Expenses** 



# FY2018 EXPENSES

# **Road & Bridge Activity Expenditures**

Boone County Road and Bridge department maintains 466.8 miles of gravel roads. To do so, we have divided Boone County into 8 Motor Grader Districts, each district having its own full-time motor grader and tandem axle dump truck to grade and apply rock to our roads. Actively maintaining proper crown on a gravel road facilitates drainage of water from the surface of the road to the ditches, which helps to prevent potholes. However, a gravel road also requires that a certain amount of moisture be present in the surface layer. When moisture mixes with the fine particles in the road surface, they act as a "cement" of sorts that keeps the larger aggregate bound in place. Dry conditions allow the surface particles to leave the road as dust, which can lead to washboarding and the loss of large surface aggregate to the side of the road.



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Year	Blading	Rock Application
2014	\$974,629.83	\$1,545,352.58
2015	\$744,467.29	\$2,099,121.66
2016	\$947,507.01	\$1,697,805.67
2017	\$730,578.36,	\$1,493,614.65
2018	\$863,478.00	\$1,532,433.00

Boone County Road and Bridge is proud of the snow and ice control procedures and practices we have developed over the last several years. Every October, our snow and ice committee meets to discuss any changes to snow routes, update our snow route maps, and then have our crews drive each of their routes to refresh themselves, or to introduce the route to new employees. During a snow event, crews are divided into day and night shifts so we can provide continuous service.

Boone County Engineers and Road & Bridge staff must keep up a high level of education and awareness of new techniques and technologies to provide the best network possible While treating roads our drivers apply 200lbs of salt per lane mile to all of our paved roads, and motor graders stir up gravel road surfaces to provide additional traction.





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# PAVEMENT PRESERVATION

# PROJECT INFORMATION SHEET

# Asphalt Overlay

# Project Location:

Various roads within Boone County: 8.9 total centerline miles

# Project Overview:

Preventative maintenance typically applying 2" of new asphalt mix to roads showing moderate distress

# Project Explanation:

Asphalt Overlays are performed on roads that exhibit some moderate distresses and smoothness irregularities, but otherwise are in good condition.

# **PROJECT INFORMATION SHEET**

# **Onyx Surface Seal**

Project Location: Various roads within Boone County: 36.7 total centerline miles

# Project Overview:

Preventative maintenance applying an asphalt based sealant

# Project Explanation:

Surface Seals are performed on roads in excellent condition.

#### **Pavement Preservation**

Is the systematic process of applying the

- Right Treatment to the
- Right Road at the
- Right Time



Utilization of methodical and consistent asphalt pavement preservation techniques has ensured over 95% of Boone County maintained asphalt roads are in acceptable or better condition.

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# PAVEMENT PRESERVATION

# PROJECT INFORMATION SHEET

# **Preservation Chip Seal**

# Project Location:

Various roads within Boone County: 6.5 total centerline miles

# Project Overview:

Preventative maintenance applying a combination of rock chips and an asphalt emulsion oil to recently overlayed or constructed roads

# **Project Explanation:**

Preservation Chip Seals are performed on roads in excellent condition - typically within 2-3 years of being constructed or receiving an asphalt overlay. The heavy application of asphalt emulsion oil that is applied as part of a chip seal creates a very robust barrier between the pavement and the environment, limiting the deteriorating effects of sunlight and moisture to the road. The chips used in this process (Iron Mountain Trap Rock) are a very hard, durable rock which provides a wearing surface and traction to the road.

Maintenance of the roads does not stop at just the surface. Additional parts of maintenance include ditches, signs, guardrail, curbs, inlets, pavement marking and brush or vegetation control.

Treatment Cost Comparison							
Total Cost	Centerline Miles	Cost per Mile					
\$313,331.79	52.1	\$6014.05*					
\$1,233,507.85	8.9	\$138,586.39					
\$533,831.68	36.7	\$14,545.82					
\$151,975.10**	6.5	\$23,380.78					
	Treatment Cost           Total Cost           \$313,331.79           \$1,233,507.85           \$533,831.68           \$151,975.10**	Treatment Cost Comparison           Total Cost         Centerline Miles           \$313,331.79         52.1           \$1,233,507.85         8.9           \$533,831.68         36.7           \$151,975.10**         6.5					

\* This number needs to be added to each of the others to calculate the cost of prep work plus contract work for each mile treated

\*\* This number is artificially low as Boone County supplied some of our own trap rock stored from previous years sweepings

# ASPHALT REHABILITATION& MISCELLANEOUS TASKS



# **Asphalt Rehabilitation**

In late summer of 2017, when planning began for the FY2018 budget, no projects met the criteria for development of an Asphalt Rehabilitation project. Armed with that knowledge Resource Management Engineering prepared a work plan that included additional spending on Concrete and Bridge projects that met requirements in those classifications. The Boone County Commission accepted our recommendation to redistribute funds typically used for Asphalt Rehabilitation to Concrete Rehabilitation and Bridge Rehabilitation projects.



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# **Road & Bridge Miscellaneous Tasks**

In addition to the pavement repairs, gravel road upkeep, and other activities directly related to road and bridge maintenance, Boone County Road and Bridge performs activities that, although necessary to complete normal work, generally go undetected. Such activities include equipment maintenance (that does not involve repairs), facility maintenance, equipment hauling, training, trash removal and a few more tasks that assist in keeping us operating at our optimal efficiency.



Roads with an Asphalt Driving Surface currently make up 26.41% of the total Boone County Road Network

# CONCRETE REHABILITATION

# **Concrete Pavement Management**

The management of concrete roads is much different than asphalt roads. Concrete roads tend to stay in good condition for a long time, then fail very quickly. Due to the properties of the material, the idea of low-cost, preventative maintenance treatments is not applicable. In prior years Boone County's management of its concrete roads focused on the systematic replacement of failed panels through either targeted panel replacements (individual panels in many locations) or rehab projects (numerous panels concentrated in a single area). Rehab projects consist of the removal of existing concrete pavement and replacement with full depth asphalt pavement. Conversion from concrete to asphalt allows those road segments to be included in our asphalt pavement preservation program. In 2018, a small number of targeted

panel replacements were done. Those repairs combined with our Lake of the Woods Rehab project resulted in approximately 3300 concrete panels being converted to asphalt.

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Over the last few years, Boone County personnel noticed several of our concrete streets were not performing as expected and were showing accelerated, premature material deterioration. In 2017, Boone County began a new process designed to slow deterioration and prolong the life of those streets. The new procedure involved milling off the top 2" of concrete and replacing it with an asphalt wearing surface to act as a water repellant cap for the remaining concrete. The life of the asphalt cap is extended by treatments included in our asphalt pavement preservation program. Concrete streets in several subdivisions were treated using this method in 2017 and 2018.







# CONCRETE REHABILITATION

# 2018 Concrete Rehab-Lake of the Woods Subdivision

# **PROJECT INFORMATION SHEET**

# STREET REHAB 2018-LAKE OF THE WOODS SUBDIVISION

### **Project Location:**

Lake of the Woods Subdivision-Rocky Mountain Ave., Crater Lake Dr., Glacier Dr., & Yosemite Ave.

### Project Overview:

Conduct spot remove and replace repairs of the existing concrete curb and gutter. Remove existing concrete pavement and underlying subgrade soil. Install geotextile fabric, granular base rock, and full depth asphalt pavement.

#### **Project Explanation:**

Individual concrete pavement panels are inspected bi-annually. The percentage of panels labeled as "Damaged" and "Remove & Replace" exceeded established thresholds in which it is more effective to reconstruct the entire roadway section than replace individual panels.



Approximately 800 concrete panels were removed and replaced with full depth asphalt as part of this project

# DRAINAGE STRUCTURES



In this report the term Drainage Structure is used to describe:

- Any bridge regardless of length
   Single or Multi barrel culverts
- 3) Box culverts

# DRAINAGE STRUCTURES

# **PROJECT INFORMATION SHEET**

# Mount Zion Church Road Bridge Replacement

### Project Location:

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On Mount Zion Church Road between Hague Road and Hecht Road.

### Project Overview:

Construction of a 67 foot long, concrete deck on steel girder, span bridge.

### Project Explanation:

Replaces deficient, multi-barrel culvert structure to provide better flow characteristicts and catch less debris.



Mount Zion Church Bridge replacement construction cost \$321,422.93



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# DRAINAGE STRUCTURES

# **PROJECT INFORMATION SHEET**

# Rangeline Road Bridge Replacement

# Project Location:

On Rangeline Road between Ben Williams Road and Route AB.

# Project Overview:

Construction of a 52 foot long, concrete deck on steel girder, span bridge.

## Project Explanation:

Replaces deficient, multi-barrel culvert structure to provide better flow characteristicts and catch less debris.



Rangeline Road Bridge replacement construction cost \$316,446.64



# DRAINAGE STRUCTURES

# PROJECT INFORMATION SHEET

# Red Rock Road Bridge Replacement

### Project Location:

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On Red Rock Road between Lewis Lane and Silver Fork Hill Road.

### Project Overview:

Construction of a 72 foot long, concrete deck on steel girder, span bridge.

# **Project Explanation:**

Replaces deficient, multi-barrel culvert structure to provide better flow characteristicts and catch less debris.



Red Rock Road Bridge replacement construction cost \$368,582.76



# DRAINAGE STRUCTURES

# Road & Bridge Maintenance on Drainage Structures



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To preserve and enhance drainage for Boone County roads, Boone County Road and Bridge regularly cleans and re-shapes roadside ditches, installs new culverts, and replaces failed culverts.

In 2018, Road and Bridge performed maintenance work, ie: removal of debris, deck sealing etc. on 18 structures. The performance of these tasks cost \$8,866.76 and consumed 246.5 labor hours.

In addition to work on bridges many culverts were installed or replaced at a cost of \$533,045.15.



Keil Road Culvert replacement

Resource Management Engineering and Road & Bridge staff work together providing technical support for each other

# **Fiscal Year 2019 Plan**

# REQUIREMENT #2

Submit a plan for construction, reconstruction, maintenance and repair of existing established public highways, roads, bridges, and culverts proposed to be undertaken and completed during the current



# FY 2019 WORK PLAN

# ROAD & BRIDGE REVENUE YEARLY COMPARISON

#### Revenues by Source - Road & Bridge Fund (Major Fund)

			2010 Actual		2011 Actual		2012 Actual		2013 Adual		2014 Actual
Property Tax		\$	1,223,426	\$	1,293,422	\$	1,338,822	\$	1,360,971	\$	1,435,135
Sales Tax			11,568,348		12,148,480		12,605,385		13,149,084		13,754,107
Motor Vehicle Sales Tax			363,759		375,538		413,881		428,153		478,831
County Aid road Tax			1,197,202		1,161,133		1,165,665		1,161,598		1,161,598
Intergovernmental			138,952		173,793		668,990		71,398		76,153
Charges for Services			316,859		284,230		1,054,408		78,538		341,568
Interest & Other	5	_	60,917	-	\$3,348	_	16,583	-	20,117	_	99,792
	Total	\$	14,869,463	\$	15,519,944	5	17,263,734	\$	16,269,859	5	17,347,184
			2015		2016		2017		2018		2019
Property Tax		\$	1,449,860	5	1,542,304	\$	1,542,304	-	1,571,078	\$	1,610,500
Sales Tax			14,047,239		14,377,817		14,377,817		14,327,400		14,379,000
Motor Vehicle Sales Tax			478,831		478,831		478,831		535,000		525,000
County Aid road Tax			1,161,598		1,161,598		1,161,598		1,188,000		1,188,000
Intergovernmental			299,510		225,602		225,602		1,603,749		84,370
Charges for Services			129,040		34,170		34,170		33,555		36,405
Interest & Other	2.	_	99,198	_	174,186	_	174,186	_	264,112	_	252,330
	Total	\$	17,665,276	\$	17,994,508	\$	17,994,508	\$	19,522,894	\$	18,075,605





2019 Estimated Revenue is down \$1.5 million dollars compared to 2018 because of a Federal Grant for work at Route Z & Enterprise Dr



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# ROAD & BRIDGE REVENUE BY SOURCE

Where The Money Comes From - Total Revenues





Where The Money Comes From							
Sales Tax	\$	14,379,000					
Property Tax		1,610,500					
Motor Vehicle Sales Tax		525,000					
Charges for Services		36,405					
Interest & Other		252,330					
County Aid Road Tax		1,188,000					
Intergovernmental		84,370					
Total Revenues	\$	18,075,605					
Other Financing Sources		64,905					
Fund Balance Used for Operations		6,336,528					
Total Financing Sources	\$	24,477,038					

**#1** source of money for road and bridge repair & improvement?

Sales Tax \$14,379,000 79.6% of total Road & Bridge Revenue.

#2 source of money for road and bridge repair & improvement?

Property Tax \$1,610,500 8.9% of total Road & Bridge Revenue.

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# FY 2019 WORK PLAN

# PROJECTS IN DEVELOPMENT

# Asphalt Rehabilitation Projects

There are currently no asphalt rehabilitation projects under consideration

Boone County collects data about the condition of our Infrastructure network; and uses that data combined with available funds to establish an efficient, cost effective work plan.

Some, but not all, of the

factors considered when establishing the project list are:

- Date & type of previous treatments
- Actual & anticipated traffic counts
- Visual inspections

# **Capital Improvement Projects**

There are currently no capital improvement projects under consideration

## **Concrete Rehabilitation Projects**

Currently there are no individual panel replacements planned

This project is currently out for bid and proposed to be constructed in 2019

El Chaparral Subdivision

## **Drainage Structure Projects**

These projects will soon be out for bid and proposed to be constructed in 2019

St Charles Road East Bridge #BR3170016

Dripping Springs Road Bridge #BR0420020

These projects are in the preliminary design, final design or right of way acquisition phase and proposed to be built in future construction years.

New Haven Road Bridge #BR3430024

Bass Lane Drainage Culvert

## Pavement Preservation Projects

These projects are currently under design and proposed to be constructed in 2019

108,000 sq yds of Asphalt Overlay

123,000 sq yds of Preservation Chip Seal

560,000 sq yds of Surface Sealing



# 2019 HIGHLIGHT PROJECT

# El Chaparral Rehab-2019

The existing concrete streets of the El Chaparral subdivision have been in various states of disrepair for many years. Boone County maintenance crews have tried to keep an acceptable level of service for just as many years by removing and replacing damaged and failed panels. In 1999, a project was bid and constructed to remove and replace large sections of the existing concrete streets. However, through bi-annual inspections of the concrete panels and mapping those panels in a Geographic Information System (GIS), it was found that 40% of the panels are still considered "damaged" and 12% are in need of replacement. Percentages of this scale indicate doing spot repairs alone will not improve the overall condition of the road and therefore may not be the best use of resources.

The decision was made that El Chaparral would be a good candidate for a rehab project. A rehab project means the existing driving pavement is completely removed and replaced (curbs are left in place or spot repaired). Also, the new pavement will be asphalt instead of concrete. Once construction is complete, the asphalt pavement will be maintained through the County's Asphalt Pavement Preservation Program. This program deploys scheduled, minor and less expensive treatments to keep the pavement aging curve stretched out and avoid costly rehab projects as long as possible.

Traditionally, the County has dedicated funds for an annual rehab project of roughly 10,000 square yards of pavement or \$1 million. The El Chaparral project is approximately 53,000 square yards. Using traditional funding levels and methods, construction in El Chaparral would have been 4-6 separate projects taking 4-6 years. Affecting the residents for that length of time, as well as the possibility of different contractors, and fluctuating prices for material and labor quickly became problematic. County staff requested additional funding, so El Chaparral could be bid under one project. The goal of one project is to hopefully realize an economy of scale, but also provide a more consistent final product in far less time.

El Chaparral Subdivision has approximately 53,000 square yards of concrete scheduled for replacement. This 13% of our total concrete road inventory.





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# FY 2019 WORK PLAN

2019 D&C PROGRAM BUDGET







2019 ROAD AND BRIDGE MAJOR SUPPLIES BUDGET

#### FΥ 2019 WORK PLAN

Activities

# **Road & Bridge Maintenance Work Plan**

Gravel Road Maintenance	19648
Pavement Repair	5600
Pavement Preparation	5600
Drainage and Culvert Improvements	8800
Tree Trimming	4240
Brush Cutting and Mowing	6316
Bridge Maintenance	2000
Projects	3000
Signs	1750
MgCl Projects	1100
Equipment Transport	600
Snow and Ice	9050
Facility and Equipment Maintenance	4078
Chip and Seal Preparation	2800
Chip and Seal Application	2400
Total Hours:	76982

2019 Maintenance Work Plan Hour Summary



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In the last 5 years The Road & Bridge and Engineering departments have replaced over 75 culverts that have a diameter of 4 feet or arger





Pavement Repair

Total Hours

Pavement Preparation

- Drainage and Culvert Improvements
- Tree Trimming
- Brush Cutting and Mowing
- Bridge Maintenance
- Projects
- Signs
- MgCl Projects
- Equipment Transport
- Snow and Ice
- Facility and Equipment Maintenance
- Chip and Seal Preparation
- Chip and Seal Application

# **Fiscal Year 2018 Condition**

# REQUIREMENT #3

Report the general condition of all established public highways, roads, bridges and culverts in the county.





The following charts are based on information stored in Cartegraph, our database program. These values represent only non-retired roads that are currently maintained by Boone County. Roads that are partially owned by the County, but not maintained by the County, are not considered in these values. The categories are also based on surface type values; the only exception is Preservation Chip Seal, which is considered the same as an Asphalt surface and therefore combined with the Asphalt category in these stats.

	Surface Type	Total Miles	Percent of Total Road Network	Change in Total Miles from 2017		
770.5 Miles of Road	Asphalt	203.5	26.41%	5.4		
	Concrete	26.5	3.44%	-2.8		
128 Bridges	Limestone Chip Seal	73.7	9.57%	-2.8		
	Gravel	466.8	60.58%	-0.3		
	Total	770.5	100.00%	-0.5		
ille						

\*\*Total miles of County Maintained road changes due to acceptance of new roads built by someone other than Boone County, annexations, change of surface type (asphalt over concrete roads), error corrections, and our new maintenance agreement with the City of Columbia for roads that are accessed by both County and City properties.

3400 Culverts



# **Total Miles of Road Maintained by Boone County**

In 2018 Boone County and the City of Columbia established a shared maintenance agreement to efficiently manage the care of 27 miles of roads and bridges along the edge of the city limits.





CONDITION OF BOONE COUNTY MAINTAINED ROADS, BRIDGES & CULVERTS 2018

# **Asphalt Surface Ratings 2018**



Records pertaining to Asphalt roads are identified by segment, from one specific point to another. Information used to assign scores for each asphalt road segment is obtained using several different methods. Boone County uses 1) visual inspection of a segment, 2) work performed on a segment and 3) weighted averages for normal use of a segment. These assessments are entered in Cartegraph where they are combined to generate the grade or condition of each segment based on established curves. The following values are used for the classes:

#### **OCI = Overall Condition Index Excellent** = any value 85 and above

Acceptable = any value between 55 and 85 Failed = anything less than 55



Asphalt Road Rating Comparison 2012-2018



Over 95% of Boone County maintained asphalt roads have been rated acceptable or better for several years



# **Concrete Panel Ratings 2018**

Concrete roads are a rigid or non-flexible pavement, so they cannot be evaluated using the same criteria used for asphalt roads. Concrete roads are inspected by each individual panel. The ratings in these graphs are based on the panels in each category and not in road miles.

Excellent = panel has no damage Acceptable = panel has minor damage Failed = panel needs to be replaced







As part of Boone County's maintenance program, all concrete and asphalt roads are inspected and rated every 2-3 years to monitor changes in road conditions.

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# CONDITION OF BOONE COUNTY MAINTAINED ROADS, BRIDGES & CULVERTS

# **Concrete Roads**



# Where are the concrete roads going?

Boone County's paved road inventory consists of both asphalt roads and concrete roads. In 2016, 2017, and 2018 there were 30.3, 29.3, and 26.5 miles of concrete roads respectively in Boone County's inventory. Why the loss of this length of concrete roads over the years? The answer has to do with how roads are classified as either asphalt or concrete, and what work has been performed on them.

Roads are categorized as either asphalt or concrete based on which material is at the surface. That means a road that was originally built full depth with concrete, but currently has an asphalt surface on it would be considered an asphalt road.

In 2017, approximately 2.3 miles of concrete roads had their top 2" of concrete milled off and replaced with an asphalt wearing surface. This was done to mitigate premature material deterioration that had been observed in those roads. Following the projects, those 2.3 miles of concrete road would then be cataloged as asphalt.

Furthermore, in the last few years rehabilitation projects were performed in neighborhoods with severely deteriorated concrete roads. The concrete pavement in these neighborhoods was completely removed and replaced with full depth asphalt pavement.

In both cases, the concrete roads that were topped with an asphalt wearing surface, and roads rehabilitated with full depth asphalt pavements are now classified as asphalt roads. These roads are now part of Boone County's pavement preservation program and receive ongoing preventative maintenance with the rest of the asphalt roads in the County's inventory.



Staff perform multi-day traffic counts on several hundred roads each year to monitor changes in traffic patterns, which could affect road conditions.

# **Developing Successful Projects**

People often wonder why there is such a great length of time between identifying a project and the final completion date. Many factors must be considered, and issues resolved, to achieve a successful outcome. Coordination must happen with stakeholders from property owners, who might be asked to donate right of way, to utility companies, that might need to move their infrastructure; but a final plan can not be designed until everyone is willing to participate. A good budget estimate will depend on a viable construction plan and then we must be sure we have the necessary resources. These are a few of the reasons you will see many projects listed for multiple years. A typical project time line would look something like this:

- Data shows project should be considered
- Preliminary design (helps determine what right of way or utility movement is needed)
- Discussions with property owners & utility companies
- Final design & cost estimate development
- Budget request
- Bid & construct project





# **Limestone Chip Seal Roads 2018**







Many types of structures are referred to as bridges, however only those that meet the minimum size requirement of at least 20 feet in length are inspected by MoDOT. The ratings and figures provided on the next pages are based on material obtained from the MoDOT inspections and only refer to bridges inspected by MoDOT. State inspections are performed every other year with the most recent inspections completed in 2017.

From the MoDOT inspections the Deck Condition, Substructure Condition, and Superstructure Condition are rolled into an average value based on a 0–100 scale. Cartegraph generates the bridge rating value and the standards listed below are used for the rankings:

Failed is an OCI less than 50

OCI = Overall Condition Index

**Excellent** is an OCI of 75 and above **Acceptable** is an OCI between 50 and 75

115 of 128 or 90% of Boone County maintained bridges are rated Acceptable or Excellent

The following charts are based on information stored in Cartegraph, our database program. These values are for only non-retired bridges that are currently maintained by Boone County. Not all of the structures coded as bridges are inspected by MoDOT due to size requirements. The structures NOT inspected by MoDOT are therefore separated out in the subsequent statistics.





# **Bridge Ratings Comparison 2012-2018**





Boone County's longest bridge spans 263' and is on Burr Oak Road

# **Fiscal Year 2018**

# A D D I T I O N A L D U T I E S

- ◊ Road & Bridge
  - ♦ Surveying
  - ♦ Right of Way
  - ◊ Stormwater
- ◊ Sales Tax Distribution



# ROAD & BRIDGE ADDITIONAL DUTIES

# **Citizen Requests**

Boone County Road and Bridge is happy to take work requests from county residents every day. Each call is recorded in Cartegraph OMS, which automatically sends the request information to the necessary superintendent for evaluation and task assignment. Work resulting from a request is generally separate from our regularly scheduled work plan, so it may take at least a few days for a request to be completed.

Boone County residents who submit a work request now have the option of being notified via email when their request has been recorded and when it has been completed. Callers who would like these notifications need only provide a valid email address.

2018

County residents are also able to submit work requests through our website. The request page asks that users provide the type, location, and a short description of the issue as well as contact information. Users have the option of plotting the location of the issue on a provided map.



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95% of the 826 Citizen Requests received in 2018 have been closed

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# A D D I T I O N A L R E S P O N S I B I L I T I E S S U R V E Y I N G

# Assistance to the Public



- Responded to the many requests that Boone County receives from property owners, Title Companies, Realtors, other Governmental Agencies, Surveyors and Engineers regarding existing road rights-ofway.
- PROPERTY BOUNDARY SURVEY



- Began the process for placing permanent monuments in the position of selected corners of the Public Land Survey System (Section and ¼ Section Corners) as part of the Missouri Department of Agriculture County Surveyor Co-op Program. "The mission of the Land Survey Program is to develop and provide information required for the accurate and economical location of property boundaries in Missouri. The program is responsible for Cadastral and Geodetic Surveys as well as making survey documents available to surveyors and the public. The land corners established through surveying are the basis for the location of all property in Missouri. Properly monumented, they are a dependable, consistent, accurate source of information for settling property boundary disputes and other boundary related questions." (from the State of Missouri, Department of Agriculture website)
- Responded to two inquiries for NID's (Neighborhood Improvement District). None, to date, have applied for County assistance.
- Represented Boone County Road & Bridge at concept reviews held by the Boone County Planning Department for review of proposed developments.

# Assistance to County Staff

- Assembled topographic data for the preparation of plans for projects.
- Assisted right-of way personnel by staking easements (both temporary and permanent) for reviewing
  proposed plans and assisting them when meeting and negotiating with property owners on proposed
  projects.
- The mission of the Land Survey Program is to develop and provide information required for the accurate and economical location of property boundaries in Missouri.
- Assisted Planning & Building Inspections Department with complete reviews of all plats of proposed Subdivisions and Administrative Surveys, submitting comments and suggestions to the Planning Department, and notifying the surveyors of those comments and suggestions. Additionally, all descriptions for granting easements for public roadways and utilities, required when preparing Administrative Surveys, were reviewed.
- Completed the property boundary survey of the entire Boone County Fairgrounds property, totaling more than 189 acres; creating three parcels, including a small family cemetery.
- Assisted Road and Bridge personnel by providing a variety of surveying services and right-of-way and easement information as necessary.


In addition to the preservation and improvement of Boone County roads and bridges, another task shared by Resource Management Engineering Division and Road and Bridge is the maintenance of Boone County Right of Way. The County's priority is to ensure proper site distance and drainage on County roadways. A few of the tools employed in the upkeep of Boone County Right of Ways are:

Mowing and brush clearing is scheduled on a regular basis to assist road maintenance by allowing roads to dry quicker; and to assist with road safety by improving site distance.

**Right of Way Permits** are issued when excavation takes place in a Boone County owned or maintained Right of Way. Excavation in this context is defined as work that results in the alteration or damage of the road surface, drainage ditches, curbs and gutters, or other drainage structures, traffic control devices or county maintained pedestrian walkways within the road right of way. Excavation also includes actions which physically undermine the structural integrity of the road base or road drainage or traffic control devices or pedestrian walkways within the right of way. 76 Right of Way permits were issued and inspected in 2018.

**Driveway Permits** are issued for new or upgraded driveways that are connected to a County maintained road. Some types of upgrades that require a permit are: converting an existing gravel driveway to a paved surface, resurfacing an existing driveway, installing a larger culvert, and widening a driveway. 93 Driveway permits were issued and inspected in 2018.

Adopt-A-Road: the purpose of the Adopt-A-Road program is to promote citizen involvement and participation in improving our environment and preserving the natural beauty of Boone County roadways. Volunteers help maintain attractive roadsides by



In 2018 there were over 300 bags of trash and recyclables collected along 32 miles of roadway by over 200 citizens.

Road Name	Organization Name
Rangeline Road	OTSCON, Inc.
Creasy Springs Road	Momma T's Family
Dodd Road	Dodd Road Beautification
St Charles Road	Wettershaw Manor
Nebo Cemetery Road	Friends of Hugh Hodler
Crump & Martin Lanes	Ashland FFA
David Allen Road	David Allen Road Neighborhood
Easley River Road	Missouri River Relief
Gans Road	The Horses of Gans
Gillespie Bridge Road	Friends of Gillespie Bridge Road
Glendale Drive	Two Mile Prairie Neighbors
Grace Lane	Miller Morrow Family
Judy School Road	Two Mile Prairie Neighbors
Mauller Road	Friends of Mauller Road
Old Highway 63 South	Ashland United Methodist Church
Old Plank Road	The River Folk of Cooper's Landing
Rock Quarry Road	Range Free Bakery & Cafe
McQuitty Lane	Hootie Hill Farms
Olden Road	To Honor Roscoe & Lureta Olden (by Brenda & Mark Rowland)
Rowland Road	To Honor Newt & Beulah Rowland (by Brenda & Mark Rowland)

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# ADDITIONAL RESPONSIBILITIES STORMWATER

# **Boone County Stormwater Mission Statement**

Establish stormwater management requirements and controls to enhance and protect water quality, reduce stormwater pollutant runoff, and protect and safeguard the general health, safety, and welfare of the public residing in watersheds within Boone County.

# What is stormwater?



Stormwater is any water coming from precipitation. It may be rain, water from snowmelt, or water that runs off streets, parking lots, lawns, and other surfaces. Stormwater drains into natural or manmade drainage systems, such as ditches and storm sewer inlets. Neither the natural, nor the manmade drainage ways connect to the wastewater treatment plant; instead, the water is discharged directly to our streams and rivers.

# What is Boone County doing to address stormwater

Boone County is jointly permitted with the City of Columbia and University of Missouri in accordance with the Stormwater Phase II Final Rule requirements specified in section 4.1.4 of the site-specific permit MO-0136557 for discharges from small regulated Municipal Separate Storm Sewer Systems (MS4s), as well as per state regulation 10 CSR 20-6.200 and federal regulations 40 CFR Parts 9 and 122. To fulfill its permit requirements, Boone County has implemented six (6) Minimum Control Measures (MCM), which are expected to help significantly reduce pollutants into receiving waterbodies. These MCM's are public education and outreach, public involvement, illicit discharge detection and elimination, construction site stormwater runoff control, post-construction stormwater management in new development and redevelopment, and pollution prevention/good housekeeping for municipal operations. Following is a summary of 2018 activities Boone County Stormwater participated in relevant to the Minimum Control Measures.

# **1-Public Education and Participation**

### • Our Lady of Lourdes 6th Grade

Boone County Stormwater offered a week-long presentation on watershed practices and citizen responsibility.

### Contractor Lunch & Learn Series

Approximately 16 contractors and engineers attended our February lunch and learn series. Sessions covered county and state permitting regulations, Boone County's stream buffer ordinance, the effect of sediment on waterways, and Boone County right-of-way standards and grading practices.

### Bonne Femme Watershed Project Presentation

The Stormwater Educator and Stormwater Coordinator gave a presentation about the Bonne Femme Watershed Project to the Ashland Optimist Club. Approximately 20 members were present.

## 4 - Rock Bridge Memorial State Park School Program

The Urban Hydrologist assisted the park naturalist with four school programs in the park.

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# ADDITIONAL RESPONSIBILITIES STORMWATER

# **1-Public Education and Participation Continued**

# Missouri River Days

Boone County Stormwater assisted Missouri River Relief in taking 4<sup>th</sup> graders from Columbia Public Schools on the Missouri River. Approximately 450 students and educators attended.

# Bonne Femme Land Management Workshop

Twenty-four property owners within the Greater Bonne Femme Watershed attended this all-day workshop to learn about water quality, pollinators/native plants, invasive species removal, forestry, how to attract wildlife, agriculture best management practices and erosion reduction, residential best management practices, and waste water systems.

# Annual Right-of-Way & Utility Meeting

Boone County Stormwater presented a review of the land disturbance permitting process. Topics covered were the Boone County stormwater and stream buffer ordinances as they relate to utilities and linear construction activities. This program had representatives from 12 participating utility organizations.

# Centralia R-VI Sixth Grade

Boone County Stormwater presented a week-long exhibition on watershed practices and citizen responsibility. This program served 125 sixth grade students.

# Stewardship on the Missouri River

Boone County Stormwater participated in an all-day activity on the Missouri River, assisting Missouri River Relief with a field day for Job Corps participants. The stream table was the highlight of Boone County Stormwater's booth. Approximately 75 Job Corps participants attended.

# Columbia Earth Day Festival

Boone County Stormwater presented an interactive participation activity using the Boone County stream table at the annual Earth Day celebration and was featured on ECO Avenue along with other educational activities for the community demonstrating the effects of watershed erosion, pollution, and civic responsibility. A second booth featured ongoing projects in Hinkson Creek and the Greater Bonne Femme Watershed. Approximately 400 festival-goers visited our booths.

# Rock Bridge Memorial State Park Summer Program – Camp Armory

Boone County Stormwater led a stream education activity at Rock Bridge Memorial State Park for children from Camp Armory. Approximately 40 children attended.

## • Lunch in the Park

Boone County Stormwater played interactive environmental games with approximately 20 children enrolled in the lunch in the park program.

## Boone Electric Annual Meeting

Boone County Stormwater provided an informational booth on the county's stormwater program and provided interactive activities for the attendees and their children. Approximately 250 people visited our booth.



A single gram of pet waste contains an average of 23 million fecal coliform bacteria.



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# ADDITIONAL RESPONSIBILITIES STORMWATER

# **1-Public Education and Participation Continued**

# Rock Bridge Memorial State Park Water Festival

Boone County Stormwater participated in the fourth annual Water Festival at Rock Bridge Memorial State Park. This program served approximately 150 adults and children.

## Upper Hinkson Creek Land Management Workshop

Thirty-two property owners within the Upper Hinkson Creek Watershed attended this three-hour workshop to share methods and ideas for managing the watershed.

# Guest Speaker - Drip Irrigation Workshop

The Stormwater Coordinator gave an overview of the Stream Buffer and Stormwater Ordinances, as they relate to waste water system placement at the City of Columbia/Boone County Health Department's Drip Irrigation Workshop.

## Guest Speaker – MDNR Audit for City of Columbia Presentation

The Stormwater Coordinator gave a presentation to City of Columbia personnel getting ready for an MS4 inspection by Missouri Department of Natural Resources about what happened during the County's MS4 inspection in 2017.

## Guest Speaker – Panel Discussion at MU

The Urban Hydrologist participated in a panel discussion for University of Missouri students about what to expect in the job market for a water resources career. Approximately 12 students attended the discussion.

# **2-Public Involvement Opportunities**

- ♦ KFRU Bonne Femme Watershed Project Discussions-2
- Centralia FFA Presentation
- Rock Bridge Renew Clean Up Events-2
- Rock Bridge Memorial State Park Water Quality Monitoring Events-2
- County wide Household Hazardous Waste Collection Event

# **3-Training Opportunities for County Staff**

- Webinars
- GoToWebinar National Stormwater Calculator for Managing Runoff Using Green Infrastructure: Addition of a Cost Module and a Mobile Web App
- Watershed Academy Webcast Using the Surface Water Toolkit
- National 303(d) TMDL Webinar Series: Chloride TMDLs



Over 36 billion tons of soil is lost world-wide every year, making sediment the #1 Pollutant in our rivers and streams.







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# ADDITIONAL RESPONSIBILITIES STORMWATER

# **3-Training Opportunities for County Staff Contin-**

Webinars

2018

- GoToWebinar National Stormwater Calculator for Managing Runoff Using Green Infrastructure: Addition of a Cost Module and a Mobile Web App
- ◊ Watershed Academy Webcast Using the Surface Water Toolkit
- National 303(d) TMDL Webinar Series: Chloride TMDLs
- CWP Webcast: Improving Stormwater BMP Treatment with Performance Enhancing Devices and Amendments
- O GoToWebinar New Report: The Role of Water Stress in Instability and Conflict
- O GoToWebinar Conventional Treatment Options for Harmful Algal Blooms
  - GoToWebinar Use of Microbial Source Tracking Tools in Waterborne Disease Outbreak Response
- GoToWebinar Groundwater Discharges and Clean Water Act Compliance
- GoToWebinar Tracking Sources of Bacteria in the "Off" Season
- GoToWebinar Per- and Polyfluoroalkyl Substances

### Boone County Wellness Fair

Boone County Stormwater presented an interactive participation activity using the Boone County Enviroscape to demonstrate the effects of watershed erosion, pollution, and civic responsibility. Those who signed up received a shower timer to help assist them in monitoring their water usage. Approximately 100 employees/family members attended

## Mid-MO Soil Health Seminar

The Stormwater Coordinator and Urban Hydrologist attended this two-day seminar in Boonville to learn about cover crops and grazing techniques to improve water quality.

## Boone County Stormwater Inspector Training

Boone County Stormwater provided refresher training to nine staff members on ordinance enforcement, inspection procedures, and best management installation and maintenance requirements.

### MWEA

Stormwater staff attended MWEA in September to learn about stormwater practices and stormwater related topics currently in use throughout the state.

## REGFORM

Stormwater staff attended Missouri REGFORM in September to learn about EPA stormwater rulings and other stormwater related topics.







Leaves count for 75% of solid waste in streams each fall.

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# A D D I T I O N A L **RESPONSIBILITIES STORMWATER**

# **3-Training Opportunities for County Staff Contin-**

## **AWRA Conference**

The Boone County Urban Hydrologist attended the American Water Resources Association Conference in Baltimore, MD. This weeklong conference featured presentations about various aspects of water quality assessment and management, new sampling techniques, and the availability of funds for projects that may be relevant in the future.

# **4-Develop/Distribute Educational Materials**

- Boone County Stormwater Website: www.showmeboone.com/stormwater/
- Bonne Femme Watershed Website: www.cavewatershed.org/
- Hinkson Creek Collaborative Adaptive Management Website:

www.helpthehinkson.org/CollaborativeAdaptiveManagement.htm

- Stormwater Newsletter
- Bonne Femme Watershed Brochure
- Hinkson Creek riparian corridor brochure

# 5-Monitoring and Assessments

### Lakes of Missouri Volunteer Program (LMVP) Sampling ٠

The LMVP started in 1992 as an effort to get citizens involved in lake water quality monitoring. The goals of the LMVP are:

Determine the current water quality based on productivity of Missouri's lakes,

Monitor for changes in water quality over time,

Educate the public about the lake ecology and water quality issues.

Staff at Boone County continued sampling at Stephens Lake, Tri City Lake, and Lick Creek Lake this season. Staff collected six (6) samples between June and September. By participating in this effort, Boone County receives free sampling equipment and information on the status of the lakes in Boone County. For more information, visit www.LMVP.org.

### **Boone County Stormwater Stream Team** ٠

The Boone County Stormwater Team actively participates in the Missouri Stream Teams program. In 2018, our team monitored water quality on Bonne Femme Creek, Turkey Creek, Little Bonne Femme Creek, the Devil's Icebox Spring Branch, Silver Fork Creek, Cedar Creek, Hinkson Creek, and Lick Fork, Normally, streams are monitored for nutrients four times per year, and macroinvertebrate sampling is conducted twice per year. In 2018, drought conditions modified the normal sampling schedule as stream flows were extremely low much of the year. The Stream Team data become part of the larger dataset managed by the Missouri Stream Teams program.







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A D D I T I O N A L **RESPONSIBILITIES STORMWATER** 





Ice on Little Bonne Femme Creek at Woodie Proctor Road, February 14,

# 5-Monitoring and Assessments Continued

### Hinkson Creek Collaborative Adaptive Management

The goal of the collaborative adaptive management process is to improve water quality in Hinkson Creek by using a science-based approach guided by a local stakeholder committee. It will assess the entire stream system, including the creek and other parts of the watershed. Improving the ecosystem should help support the return of the biological community to a fully functioning level as well as addressing other pollutants that may be contributing to water quality issues.

Stakeholders - The Stakeholder group met four (4) times.

Action Team - The Action Team met ten (10) times.

Science Team - The Science Team met nine (9) times.

Riparian Subcommittee - The Riparian Subcommittee of the Stakeholder group met five (5) times.

Habitat Assessment - Physical Assessment is 100% complete

Forum Nature Area Level Spreader - Construction is 100% complete.

Monitoring: Soil water sensors are monitored weekly starting January 4, 2016. Boone County moved our climate station to the site and are receiving continuous data.

### Combined Flow & Suspended Sediment Study - Ongoing

Fine Sediment Mapping - the Urban Hydrologist participated in a fine sediment mapping survey in Hinkson Creek during the summer of 2018. Collection of preliminary data was completed. Data analysis is pending.

### **Bonne Femme Watershed Project**

The Bonne Femme Watershed Project is the revitalization and continuation of several projects from the past that sought to protect and conserve water quality in the Little Bonne Femme and Bonne Femme Watersheds in Boone County, In 2018, Boone County received a Chapter 319 subgrant award from the Environmental Protection Agency, through Missouri Department of Natural Resources to develop a 9element watershed management plan for the Greater Bonne Femme Watershed. The grant period began August 1, 2018 and will run through July 31, 2020.

Technical Advisory Committee - The committee met eight (8) times.

### Monitoring

Gauging Stations - Stations were set up at Turkey Creek and Hwy 63 S, Bonne Femme Creek at Nashville Church Rd, and Little Bonne Femme Creek at Woodie Proctor Rd. These stations continue to provide stage and temperature information.

Quarterly stormwater sampling at ten (10) locations in the watershed

E. coli testing is ongoing

Cooperative Stream Investigation Project - This project was completed in 2018. A final report from the Missouri Department of Natural Resources Coordinator on the project is expected in 2019.



Stormwater runoff is not treated before it enters our waterways.



# ADDITIONAL RESPONSIBILITIES STORMWATER

# **6-MS4 Compliance**

STORMWATER PROGRAM COMPLIANCE								
	Stormwater Prevention Plans Reviewed	Pre- Application Meetings Held	Land Disturbance Permits Issued	Stormwater Discharge Permits Issued	Pre-con Meetings Held	Site Inspections Conducted	Notice of Violation Issued	
2011	19	21	15	4	9	45	3	
2012	17	4	17	4	5	47	0	
2013	15	13	32	10	7	49	4	
2014	15	4	24	6	6	28	2	
2015	9	6	24	8	4	85	2	
2016	14	10	44	14	12	184	11	
2017	8	6	26	12	4	196	9	
2018	11	12	39	19	7	231	12	

# Joint MS4 Coordination Meetings

Stormwater staff from Boone County, City of Columbia, and MU meets each month to coordinate and work on stormwater activities. This year the committee met nine (9) times.

16 times more stormwater runoff is produced by a one acre parking lot than by a one acre meadow.





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# ADDITIONAL RESPONSIBILITIES SALES TAX DISTRIBUTION

# **Sales Tax Distribution**

In June of 1993 Boone County Residents voted to "rollback" or decrease the amount of property tax assessed and collected on both Personal Property (cars, trucks, machinery etc.) and Real Estate (homes, land, etc.) and to institute a Sales Tax dedicated specifically to Road and Bridge activities. A provision of the rollback stated that the County of Boone would share some of the revenue collected from the Sales Tax with the Incorporated Municipalities within Boone County. The following pages are the reports received by Boone County detailing what each entity used their portion of the Sales Tax funds for.



Entity	Rate	Amount
STATE	0.0300	\$1.01
BOONE COUNTY	0.2346	\$7.92
COLUMBIA SCHOOL	6.1425	\$207.37
COLUMBIA	0.4100	\$13.84
COL BC LIBRARY	0.3091	\$10.44
COMMON ROAD	0.0500	\$1.69
TOTAL TAX	7.1762	\$242.27

**Real Estate** 

Personal Property

Entity	Rate	Amount
STATE	0.0300	\$1.16
BOONE COUNTY	0.2346	\$9.09
COLUMBIA SCHOOL	6.1425	\$238.02
COLUMBIA	0.4100	\$15.89
COL BC LIBRARY	0.3091	\$11.98
COMMON ROAD	0.0500	\$1.94
TOTAL TAX	7.1762	\$278.08

In 2018 Boone County shared \$1,452,842 with incorporated entities in Boone County. These funds are generated from the dedicated Road & Bridge Sales Tax, and are amounts that are higher than the old property tax would have been.

# CITY OF ASHLAND

**ROAD & BRIDGE ANNUAL SUMMARY REPORT** 

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity:

**REPORT** 

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City of Ashland

Reporting on Calendar Year:

2018

Narrative for use of funds received

2018

The Boone County Road and Bridge fund provided the City of Ashland with \$156,299.84 in calendar year 2018. This is a \$933.01 increase over calendar year 2017. The entire amount received was dedicated to residential streets for curb repair, base layer repairs, pavement grinding and replacement with new, asphalt overlays. The Street superintendent selected residential streets in the poorest condition for the upgrades. The Board of Aldermen approved the list of proposed improvements. Work began in July 2018 with final curb upgrades completed in September/Ocotber.

Narrative on overall condition of roads and bridges within reporting municipality:

Residential street conditions have improved from poor to good over recent years with the aid of the cooperative agreement with Boone County. Growth continues to add surface miles resulting in increased wear and tear to our transportation system. Large truck traffic is now common place. Currently, There are no bridges maintained by the City of Ashland.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions \_

Maple Drive - 2 inch overlay with edge milling - \$6,923.60

Martha Crump - 2 inch overlay with edge milling - \$54, 770.80

Meadowmere View - 2 inch overlay with full width milling - \$41,307.5

Parkview - 2 inch overlay with full width milling - \$4,947.50

Circle Drive - 2 inch overlay with full width milling - \$4,935.00

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# CITY OF ASHLAND

Meadow Lane - 2 inch overlay with full width milling - \$7,922.50

Curb and Gutter work on Martha Crump Drive and Trotter Lane - \$39,336.35

Mobilization of Equipment - \$2,490.18

2018

### ROAD & BRIDGE ANNUAL SUMMARY REPORT Page 2

### \_Summary

The completed projects in Ashland exceeded the funding assistance received from Boone County in 2018. The final bill for these roadway improvements totaled \$162,633.43. Ashland covered the amount that exceeded the funds received with income collected from our local transportation tax.

Clearly, without shared funds from Boone County, Ashland's annual street repair activity would be scaled down, considerably. This cooperative agreement allows Ashland to complete timely, major, road repairs but also reserves local tax money for routine maintenance of the remaining street surfaces. City residents annually see their tax dollars at work on a larger scale and realize street disrepair is a priority of its' local and County government.

The City of Ashland looks forward to continued cooperation between our City and the County of Boone to provide expected services to our tax payers.

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# TOTAL \_\$162,633.43\_

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I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge; certify that the information provided above is true, complete and accurate.

um Woaltord	12/31/2018
Signature	Date
City Administrator Title	
Lyn Woolford	5733971309
Printed Name	Day Time Phone number
Complete this report and send to Boone County Resource Management, Attn: Walnut Room 315, Columbia, MO 65201; by December 15 <sup>th</sup> .	Kelle Westcott, 801 East



### **ROAD & BRIDGE ANNUAL SUMMARY REPORT**

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity: City of Centralia

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Reporting on Calendar Year: 2018

Narrative for use of funds received The funds received went toward the annual overlay of streets which is detailed below, as well as the operation of the Street Department. In addition to road maintenance, we completed a much needed curb and gutter, asphalt overlay project in a subdivision. Unusually colder weather in the fall has delayed the asphalt overlay in the subdivision, but it is still expected to be finished before the end of our current fiscal year, March 31, 2019. We are also in the process of building a new road, partially funded with a CDBG grant, that is anticipated to help with economic development in the future on the north side of Centralia. The funds from the CDBG grant budgeted in FY19 have not been received and will be budgeted in FY20 for the Randolph Road project.

Narrative on overall condition of roads and bridges within reporting municipality:

The City of Centralia conducts an annual review of the 34.08 miles of streets under our control and scores their condition on a scale of 1-10, where 10 is a functionally new road. The results were:

Miles of Road:	Condition:	
7.5	10	
6.5	7-9	
12.75	4-6	
7.33	1-3	
7.33	1-5	

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions \_Project descriptions for summer 2018 are attached. The asphalt overlay scheduled for Mayes Meadow and Meadowlark lane was not completed in fall of 2018 as planned due to weather conditions. This project will be carried over to Spring 2019, as well as completing an overlay of the intersection at Jefferson Street and Lakeview Street.



### **ROAD & BRIDGE ANNUAL SUMMARY REPORT**

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# TOTAL

I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge; certify that the information provided above is true, complete and accurate.

Alathin fussel	01/24/2019
Signature	Date
City Administrator	
Title	
Heather Russell	573-682-2139
Printed Name	Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15<sup>th</sup>.

# CITY OF CENTRALIA

# PUBLIC WORKS - HIGHWAYS AND STREETS

2018

		CALENDAR	CALENDAR	FY2019	FY2018	FY2018
ACCOUNT NUMBER	ACCOUNT TITLE	2018	2017	Budgeted	Audited	Budgeted
01_02_01_01_001	SALARIES & WAGES	7 914	7.667	7.967	8.012	10.000
01-03-01-01-001	OVERTIME WAGES	995	1 252	1 430	1 308	865
01-03-01-01-002		5 814	5,479	5.170	5,475	7.950
01-03-01-01-010	PRINTING PUBLICATION	371	159	200	113	200
01-03-01-01-110	DUES/MEMBER/SUBS/TUITION	0.1	1.182	50	0	50
01-03-01-01-142	PROF SERV ARCHT ENG	49.506	_,	126.920	-	
01-03-01-01-150		1.020		1.300	1.205	1.300
01-03-01-01-150	MAINT AGREEMENTS LEASE	996		1.100	1.333	1.100
01-03-01-01-180	MFALS LODGING TRAVEL			100	0	100
01-03-01-01-201	OFFICE SUP. FURNITURE				0	0
01-03-01-01-210	OPERATING SUPPLIES	321	563	300	563	300
01-03-01-01-490	EQUIPMENT USE CHARGE	6,519	6,905	6,000	6,784	6,000
01-03-01-01-503	DATA PROCESSING EQUIP	,	764	ļ	764	0
	SUBTOTAL	73,457	23,969	150,537	25,556	27,865
STREET MAINTENANCE						
01-03-01-02-001	SALARIES AND WAGES	17,487	26,485	30,344	25,778	19,800
01-03-01-02-002	OVERTIME WAGES	1,632	3,320	3,097	2,899	1,780
01-03-01-02-010	ACCRUED EMPLOYEE BENEFITS	11,310	16,372	18,506	15,717	15,900
01-03-01-02-110	PRINTING, PUBLICATIONS, AD	58	151	150	151	150
01-03-01-02-132	UTILITIES-NATURAL GAS, PR	353	354	450	353	450
01-03-01-02-150	CONTRACT LABOR	5,301	1,159	1,200	1,159	1,200
01-03-01-02-160	REPAIR SERVICE	19	108	300	108	300
01-03-01-02-170	MAINT.AGREEMENTS, LEASES			300	0	300
01-03-01-02-190	INSURANCE				0	0
01-03-01-02-210	OPERATING SUPPLIES	28,802	32,493	3 17,500	39,749	17,500
01-03-01-02-220	TOOLS/SMALL EQUIPMENT	257	1,306	5 200	381	200
01-03-01-02-450	EQUIPMENT RENTAL	114		1,000		1,000
01-03-01-02-490	EQUIPMENT USE CHARGES	26,145	21,843	8 18,000	20,380	1,800
	SUBTOTAL	. 91,477	103,591	91,047	106,675	60,380



# ANN<mark>UAL REP</mark>ORT

# CITY OF CENTRALIA

# PUBLIC WORKS - HIGHWAYS AND STREETS

2018

		CALENDAR	CALENDAR	FY2019	FY2018	FY2018
ACCOUNT NUMBER	ACCOUNT TITLE	2018	2017	Budgeted	Audited	Budgeted
ALLEY MAINTENANCE						
01-03-01-03-001	SALARIES AND WAGES	1,844	377	362	641	0
01-03-01-03-002	OVERTIME WAGES	359				
01-03-01-03-010	ACCRUED EMPLOYEE BENEFITS	865	154	164	349	0
01-03-01-03-210	OPERATING SUPPLIES	3,408		1,000		1,000
01-03-01-03-450	EQUIPMENT RENTAL		160		160	0
01-03-01-03-490	EQUIPMENT USE CHARGES	2,506	2,634	1,500	2,585	2,000
	SUBTOTAL	8,982	3,324	3,026	3,734	3,000
SIDEWALK & PARKING LO	T MAINTENANCE					
01.02.01.04.001	SALARIES & WAGES	555	499	1.200	290	1.200
01-03-01-04-001	OVERTIME WAGES	357		150		150
01-03-01-04-010	ACCRUED EMPLOYEE BENEFITS	350	355	728	183	728
01-03-01-04-110	PRINTING. ADV. PUBLICATIO		62		62	0
01-03-01-04-142	PROF.SERV.ARTCH.ENG.SURV		519	12,000	519	0
01-03-01-04-150	CONTRACT LABOR		1,500	7,500	0	10,000
01-03-01-04-160	REPAIR SERVICE			100		100
01-03-01-04-210	OPERATING SUPPLIES	2,082	1,271	7,500	37	10,000
01-03-01-04-220	TOOLS/SMALL EQUIPMENT					
01-03-01-04-490	EQUIPMENT USE CHARGES	1,210	1,293	2,600	1,244	2,600
01-03-01-04-590	SRTS SIDEWALK CONSTRUCTION					
	SUBTOTAL	4,553	5,499	31,778	2,335	24,778
STREET RUILDING & GROU	INDS					
01.03.01.05.001	SALARIES AND WAGES	2,722	3.331	3,475	3,270	3,475
01-03-01-05-002	OVERTIME WAGES	-,		185		185
01-03-01-05-010	ACCRUED EMPLOYEE BNENFITS	1,982	2,253	2,750	2,131	2,750
01-03-01-05-132	UTILITIES-NATURAL GAS. PR	1,552	1,126	1,900	1,356	1,900
01-03-01-05-133	UTILITIES, TELEPHONE, FAX	1,241	1,017	550	1,124	550
01-03-01-05-150	CONTRACT LABOR	3,247	938	400	1,082	400
01-03-01-05-160	REPAIR SERVICES		50			
01-03-01-05-170	MAINT AGREEMENTS & LEASES			163		163
01-03-01-05-190	INSURANCE	1,208	1,208	1,100	1,208	1,100

# CITY OF CENTRALIA

# PUBLIC WORKS - HIGHWAYS AND STREETS

2018

		CALENDAR	CALENDAR	FY2019	FY2018	FY2018
ACCOUNT NUMBER	ACCOUNT TITLE	2018	2017	Budgeted	Audited	Budgeted
01-03-01-05-201	OFFICE SUPP FURNITURE/EQU		41	100		100
01-03-01-05-210	OPERATING SUPPLIES	1,435	2,248	1,500	2,213	1,500
01-03-01-05-220	TOOLS/SMALL EQUIPMENT	351	410	300	351	300
01-03-01-05-490	EQUIPMENT USE CHARGES			200		200
01-03-01-05-510	BUILDING IMPROVEMENTS			1,500		1,500
	SUBTOTA	13,739	12,623	14,123	12,737	14,123
SNOW & ICE REMOVAL						
01-03-01-06-001	SALARIES AND WAGES	3,870	2,568	3,800	3,228	3,800
01-03-01-06-002	OVERTIME WAGES	2,824	1,355	1,800	2,705	1,800
01-03-01-06-010	ACCRUED EMPLOYEE BENEFITS	3,912	1,863	3,875	2,873	3,875
01-03-01-06-160	REPAIR SERVICE			200		200
01-03-01-06-210	OPERATING SUPPLIES	11,619	10,799	10,000	2,909	10,000
01-03-01-06-490	EQUIPMENT USE CHARGES	7,477	9,751	7,000	10,312	7,000
	SUBTOTA	29,702	26,335	26,675	22,027	26,675
STREET & SIGN MAINTENA	INCE					
01-03-01-07-001	SALARIES AND WAGES	4,137	7,034	2,755	4,663	2,755
01-03-01-07-002	OVERTIME WAGES	232	200	30	200	30
01-03-01-07-010	ACCRUED EMPLOYEE BENEFITS	3,323	5,234	2,015	4,151	2,015
01-03-01-07-150	CONTRACT LABOR		527	150	527	150
01-03-01-07-160	REPAIR SERVICE				6,038	5,000
01-03-01-07-210	OPERATING SUPPLIES	3,739	8,581	5,000		
01-03-01-07-220	TOOLS/SMALL EQUIPMENT					
01-03-01-07-490	EQUIPMENT USE CHARGES	384	392	1,400	469	1,400
	SUBTOTA	L 11,815	21,968	11,350	16,049	11,350
STORM DRAINANGE						
01-03-01-08-001	SALARIES AND WAGES	24,822	12,435		14,362	0
01-03-01-08-002	OVERTIME WAGES	241	309		309	615
01-03-01-08-010	ACCRUED EMPLOYEE BENEFITS	18,496	11,199	615	11,966	12,550
01-03-01-08-142	PROF.SERV.ARCH.ENG. & SUR	8,523	392	12,550	392	12,000
01-03-01-08-150	CONTRACT LABOR	1,298	155	12,000	1,453	1,000



Page 3 of 4

# CITY OF CENTRALIA

# PUBLIC WORKS - HIGHWAYS AND STREETS

2018

		CALENDAR		CALENI	DAR	FY2	019	FY20	)18	FY20	018
ACCOUNT NUMBER	ACCOUNT TITLE	2018		2017		Bud	geted	Audi	ited	Bud	geted
01-03-01-08-170	MAINT AGREEMENTS & LEASES						1,000				
01-03-01-08-210	OPERATING SUPPLIES		16,975		5,261		20,000		10,912		20,000
01-03-01-08-220	TOOLS/SMALL EQUIPMENT				87		100				100
01-03-01-08-450	RENTAL						4,000				4,000
01-03-01-08-490	EQUIPMENT USE CHARGES		2,716		3,615		6,000		3,227		6,000
01-03-01-08-509	MISCELLANEOUS CAPITAL						8,000				8,000
01-03-01-08-901	MISCELLANEOUS										
	SUBTOTAL		73,070		33,453		64,265		42,622		64,265
BRUSH & TREE CONTROL											
01-03-01-09-001	SALARIES AND WAGES		4,216		1,880		3,050		1,907		3,050
01-03-01-09-002	OVERTIME WAGES		433				2,230				
01-03-01-09-010	ACCRUED EMPLOYEE BENEFIT		2,841		1,069		3,850				
01-03-01-09-160	REPAIR SERVICE						50				
01-03-01-09-170	MAINT AGREEMENTS & LEASES										
01-03-01-09-210	OPERATING SUPPLIES		91		1,499		800				
01-03-01-09-490	EQUIPMENT USE CHARGE		621		924		1,300	_			
	SUBTOTAL		8,203		5,373		11,280		1,907		3,050
	TOTAL	\$	314,998	\$	236,135	\$	404,081	\$	233,641	\$	235,486
CAPITAL SUMMARY									222.636		256 524
02-03-01-01-509	CAPITAL EXPENDITURES		203,214	-	210,752	-	789,000	-	333,076		256,521
	TOTAL ALL EXPENDITURES	\$ 518,	212.11	Ş 4	46,886.81	Ş	1,193,081.00	Ş	566,716.60	Ş	492,007.00
REVENUES											
02-03-01-41-520	TRANSPORTATION SALES TAX		205,428		214,995		215,000		21,395		210,000
02-03-01-43-300	CDBG GRANT REVENUE		0		0		200,000		0		0
02-03-01-43-650	COUNTY GRANT REVENUE		77,979		78,701		79,000		78,701		79,140
01-00-00-43-620	COUNTY ROAD & BRIDGE		66,121		64,408		65,000		64,408		64,000
	TOTAL ALL REVENUES	\$ 349,	528.06	\$ 3	358,103.44	\$	559,000.00	\$	164,502.98	\$	353,140.00

Page 4 of 4

# CITY OF CENTRALIA

STREET PAVING - Summer 2018 RECOMMENDED PRIORITY LIST Estimated Price for Street Improvements

2018

Estimated cost of asphalt =

75.000 /TON

Street	Segment	Width	Length	Depth in inches	Estimated Tons of Asphalt	Estimated Price	Actual Price per ton	Total		
Allen (RR tracks	Singleton)	47	484	2	346.98	26,023	71	60,667		
Allen St	Singleton-#203	47	376	2	269.55	20,216.43			L	This period is complete
Allen St	#203-Barnes	39	386	15	172.21	12,916.11				inte projou la compose.
Allen St	Barnes-Bruton	21	471	2	150.87	11,315.11			_	
1 Mayes Meadow		24	1138	15	312.44	23,433.30		24,701		The curb and gutter, and milling of this project
1 Meadowlark		27	193	15	59.61	4,470.95			~	is complete. The asphalt overlay has not
MM Curb & gutt	er					30,000.00		102,562	_	been done.
3 Sunrise Circle		18	845	15	174.00	13,049.96		20,223		This project is complete.
Lakeview/Jeffers	on Intersection	-				18,525.00		:		This project is dependent on weather, but was approved for FY19
					Cost Totals	\$ 159,950		\$ 208,153		





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# CENTRALIA SPECIAL ROAD DISTRICT

### **ROAD & BRIDGE ANNUAL SUMMARY REPORT**

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity: Centralia Special Road District of Boone County Mo.

Reporting on Calendar Year: 2018

Narrative for use of funds received

Routine maintenance of roadways within the District including hauling gravel and blading of unpaved roads, replacing road pipes, cutting brush and mowing right of way as needed. Also did overlay projects on Jay Jay from the bridge to Highway 124 and Ball Road.

Narrative on overall condition of roads and bridges within reporting municipality:

The overall condition of the gravel roads in the district are considered to be in average or better condition.

The condition of the blacktop roads is average to good with about 15% of the blacktops needing to be overlayed.

The bridges are in average condition considering their age.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions

- 1. Hauled \$38,980.82 of rock on non-paved roads.
- 2. Replaced \$1,280.00 of road culverts.

3. Overlayed Jay Jay from the bridge to Highway 124 and all of Ball Road at a cost of \$145,086.19.

4. Had double yellow centerline applied to slightly over 11 miles of blacktop roads for \$9,347.20.

5. Repaired area of March Road next to the railroad tracks that had disintegrated for \$10,070.00.



ROAD & BRIDGE ANNUAL SUMMARY REPORT Page 2

TOTAL \$204,764.21

I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge; certify that the information provided above is true, complete and accurate.

Unthony net Signature (

12/29/2018 Date

Title: Treasurer

Anthony Kendrick Printed Name \_\_\_\_573-881-2169 Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15<sup>th</sup>.

# CITY OF COLUMBIA

### **ROAD & BRIDGE ANNUAL SUMMARY REPORT**

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity: City of Columbia Public Works

2018

Reporting on Calendar Year: 2018

**REPORT** 

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Narrative for use of funds received To construct roundabouts at the intersections of Nifong and Sinclair, Nifong and Old Mill Creek, and Parker and Vandiver Dr.

Narrative on overall condition of roads and bridges within reporting municipality:

Nifong/Old Mill Creek - We plans to start construct summer of 2019 and finish up by the end of fall 2019.

Nifong/Sinclair - We plan to construct Spring/Summer of 2020 and have it finished by the time school starts back up in the fall of 2020. Vandiver and Parker is about 50% complete. The winter weather that came early this year is hampering progress but we are hoping to be able to open Vandiver back up to traffic in Mid December...with some luck both legs of Parker will open at that time as well. Sidewalks and lighting will follow..

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions \_Sinclair-Old Mill Creek-Nifong Intersections: Construciton of a roundabout at the intersection of Nifong and Sinclair and at the intersection of Nifong and Old Mill Creek. \$2,500,000 Parker and Vandiver Roundabout:Construction of a roundabout at the intersection of Vandiver Drive and Parker Street. \$382,500 \_\_\_\_\_



### ROAD & BRIDGE ANNUAL SUMMARY REPORT Page 2

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### TOTAL \_\$2,882,500

I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge; certify that the information provided above is true, complete and accurate.

Dawn Ettoma	11/30/18
Signature	Date
Financial Analyst	
Title	
Dawn Ettleman	_573-441-

6610

2018

# CITY OF COLUMBIA

City of Columbia County Road Tax Rebate -00503 Cash Balances

Can balance	Sept 30 2010	Sept 30 2011	Sept 30 2012	Sept 30 2013	Sept 30 2014	Sept 30 2015	Sept 30 2016	Sept 30 2017	Sept 30 2018
Cash Balance Forward	265,902.58	431,429.52		1,569,924.31	1,810,343.41	406,396.32	427,395.55	61,405.99	1,194,278.00
Receipts: County Road Tax Rebate from Boone County Investment Income	1,649,274.62 29,677.32	1,657,714.81 14,463.90	1,874,958.65	1,915,419.10	1,996,052.91	2,063,125.23	2,269,974.44	2,250,372.01	2,310,158.46
Total Receipts	1,678,951.94	1,672,178.71	1,874,958.65	1,915,419.10	1,996,052.91	2,063,125.23	2,697,369.99	2,311,778.00	3,504,436.46
Disbursements: Transfer to Fund 440 (Capital Projects): C00128 Maguire Blvd C00241 Mexico Gravel Rd C0049 Scont Blvd C00320 Rolling Hills Road C00319 Scont - Avavter to MKT PH II C00274 Scont-Vavter to KK III C00618 Fairview/Chapel Hill Int 00631 Old Mill Ck/Vavater Int Im C00634 Forum & Green Meadows Int C00643 Sinfong-Prov to Forum 4 Ln C00644 Sinclair-Old Mill Ck-Nifg C00645 Vandivec & Parker Round-AB Transfer to Fund 110 (General Fund)	(1.400,000.00)	(1,400,000,00) (590,183,23) (113,425,00)	1,369,965.66 (1,675,000.00)	(311,686.00) (1,363,314.00)	(3,400,000.00)	(2,042,126.00)	(828.464.00) (100,000.00) (110,000.00) (1,180,000.00) (350,000.00) (67,500.00)	(75,000.00) (500,000.00) (116,500.00) (75,000.00) (351,000.00)	(2,500,000.00) (382,500.00)
Total Disbursements	(1,513,425.00)	(2,103,608.23)	(305,034.34)	(1,675,000.00)	(3,400,000.00)	(2,042,126.00)	(2,635,964.00)	(1,117,500.00)	(2,882,500.00)
Cash Balance @ Year End	431,429.52		1,569,924.31	1,810,343,41	406,396.32	427,395.55	61,405,99	1,194,278.00	621,936.46



# CITY OF HALLSVILLE

### **ROAD & BRIDGE ANNUAL SUMMARY REPORT**

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity: City of Hallsville

**REPORT** 

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Reporting on Calendar Year: July 1, 2017 - June 30, 2018

Narrative for use of funds received Grant funding was used for an alleyway project, Audee Court repair and a lease payment on a

2018

2017 F550 snow plow truck.

Narrative on overall condition of roads and bridges within reporting municipality:

The streets, both asphalt and concrete curb and gutter are in good condition. Overlay and crack repair was completed in 2015.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions

The City spent \$37,854.75 from the City's General Fund for general street upkeep and repairs. Carry over from

fiscal year 2016/2017 was \$83,485.37 with an additional \$45,023.26 grant funding received in 2017. Projects funded from the grant for the fiscal

year 2017/2018 included \$74,558.71 on the alleyway improvement project that was engineered during the 2014/2015 fiscal year, \$1,709.26 for

additional alleyways and street pothole repair and state highway ditch upkeep, \$7,059.80 for concrete street repair on Audee Court, and \$39,899.84

for the first of two lease purchase payments for a 2017 F550 snow plow truck.



### ROAD & BRIDGE ANNUAL SUMMARY REPORT Page 2

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TOTAL	
\$123,227.61 from Road Grant funds and \$37,854.75 from General Fu	inds
I declare that I have examined this report including accompanying sche	dules and statements and to the
hast of my knowledge: contify that the information provided above is true	accomplete and accurate
best of my knowledge, certify that the mormation provided above is the	e, complete and accurate.
Knute Tide? Mala	11/9/2018
Signature	Date
	Date
City Administrator	
Ony Administrator	
Kenyetta Ridgway-Sample	573-696-3885
Drinted Name	Dev Time Diversity
Printed Name	Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15<sup>th</sup>.

# TOWN OF HARRISBURG

### **ROAD & BRIDGE ANNUAL SUMMARY REPORT**

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity: Town of Harrisburg
Benerting on Colondar Vear
2017
Narrative for use of funds received 2013, 2014, 2015, 2016, and 2017 Street Project funds are being retained in separate accounts to accumulate for a large
Narrative on overall condition of roads and bridges within reporting municipality: Awarded bid to repair cracke/potholed on
craigview. Also waiting on completion of
Timbereake subdivision to pave Hughs Rd.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions (\$12,839.36 awarded) -saved in a roject treet finds accumulate project Se  $\mathbf{x}$ \$13.917 Project awarded 2011 accumulate nunrded Provo 101 Saved ld ccumulat 0 



### ROAD & BRIDGE ANNUAL SUMMARY REPORT Page 2

2010 Street Project (\$13,386.73 awarded) - saued accumulate funds \$13,450.21 awarded Prajact ( Saved 11 accumulate finds lon toOPC OIT-Street. ma 0 Ð 0 000 )al 7.89 a 10 TOTAL \$6,009.89 I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge; certify that the information provided above is true, complete and accurate. Ne 12/15/18 Signature Date Offico Title Wilhite Kathi 874 0138 5B. Printed Name Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15<sup>th</sup>.

# VILLAGE OF HARTSBURG

### **ROAD & BRIDGE ANNUAL SUMMARY REPORT**

For use by all Entities (Application, Formula, and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2001 by Boone County Commission).

**Reporting Entity:** 

**REPORT** 

N N U A L

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Village of Hartsburg

2018

**Reporting on Calendar Year:** 

2018

Narrative for use of funds received:

Maintenance and repair of roads, bridges, and thoroughfares throughout the greater Hartsburg Community, Southern Boone County.

Narrative on overall condition of roads and bridges within reporting municipality:

Primarily two lane with easement parking and or linked by private drives through said easement. Roads and bridges handle local residential transportation, and commercial farm equipment. Conditions are good. Some areas would benefit from additional tree removal routine county maintenance and county mowing. Streets within the city limit are maintained by the Village of Hartsburg.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges, and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions:

Cleaning of Drainage Ditch (Coonies Hauling)	\$ <u>3620.00</u>
Replacement of failing concrete on drainage ditch	\$ <u>950.00</u>
Sealing of street cracks (Frech Paving)	\$ <u>2500.00</u>
Materials for Repairing Street Cracks (Capital Quarries)	\$ <u>123.19</u>
Pruning of limbs and brush (Korte Tree Removal)	\$ <u>1425.00</u>

# VILLAGE OF HARTSBURG

### **ROAD & BRIDGE ANNUAL SUMMARY REPORT**

For use by all Entities (Application, Formula, and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2001 by Boone County Commission).

Total: \$<u>8618.19</u>

I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge: certify that the information provided above is true, complete, and accurate.

Signature:

Date: 1/1/19

2

Title: Village Clerk

Printed Name: Sarah J. Eber

Day Time Phone Number: <u>660.349.8881</u>

Complete this report and send to Boone County Resource Management

Attn: Kelle Westcott

8001 East Walnut Room 315

Columbia Missouri 65201

**Due December 15** 



### ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity: TOWN OF MCBAINE, MO,

Reporting on Calendar Year:

Narrative for use of funds received Dhere was no need for repairs

2018

Narrative on overall condition of roads and bridges within reporting municipality:

Atreets are still in good condition.

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions no repairs or new 2018 rojects .



# ROAD & BRIDGE ANNUAL SUMMARY REPORT

Page 2

-	
	CONTRACTOR DE LA CONTRACT

TOTAL -0-

I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge; certify that the information provided above is true, complete and accurate.

1-26-2019 marvin Sapp 8-1 Signature Date Title Board of Inusteen Ch uman SAPP MARVIN 573/446-4573 E. Printed Name Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15<sup>th</sup>.

# VILLAGE OF PIERPONT 2018

### **ROAD & BRIDGE ANNUAL SUMMARY REPORT**

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity: Village of Pierpont

Reporting on Calendar Year: 2018

Narrative for use of funds received no projects this reporting year

Narrative on overall condition of roads and bridges within reporting municipality:

good

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions \_No projects this year



### ROAD & BRIDGE ANNUAL SUMMARY REPORT Page 2

-	
TOTAL	
_0.00	
I declare that I have examined this report, including accompanying sche	edules and statements, and to the
best of my knowledge; certify that the information provided above is true	e, complete and accurate.
ABBA	12/8/2018
Signature	Date
Chairman of the Board Village of Pierpont	
Title	
Ronald I. Skiles	573,000,1212

Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15<sup>th</sup>.



### ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity: City of Rocheport

Reporting on Calendar Year: 2018

Narrative for use of funds received

Narrative on overall condition of roads and bridges within reporting municipality:

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Streets in Rocheport are in fair condition

,

Allocation and Expenditure of Funds Received listed by project, with a project description. Include only direct design and construction costs pertaining to roads, bridges and storm water; indirect and other administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions \_Improvements to Second Street between Pike and Ward Streets, including widening, overlay, addition of curbs and storm drainage improvements. Construction of paved approaches at two alley entrances

Drainage improvements at the city park including extension of a drainage culvert, regrading, and addition of rock ditch liner protection. Seal cracks and overlay with 2" of asphalt on Columbia Street.



### ROAD & BRIDGE ANNUAL SUMMARY REPORT Page 2

### TOTAL \_\$87,129.77

I declare that I have examined this report, including accompanying schedules and statements, and to the best of my knowledge; certify that the information provided above is true, complete and accurate.

Sheelas Sertens Ned	1-8-19
Signature / //	Date
City	,
clerk	,
Title	
Shirley Jenkins-	
Old	5736983245
Printed Name	Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15<sup>th</sup>.

I


#### ROAD & BRIDGE ANNUAL SUMMARY REPORT

For use by all Entities (Application, Formula and Centralia Special Road District) to provide annual information in accordance with the Cooperative Agreement entered into with Boone County, Missouri (Commission Orders 459-2011 through 471-2011 approved on November 15, 2011, by the Boone County Commission).

Reporting Entity:	ity of Sturgeon
Reporting on Cale	ndar Year: 7 - 2018
Narrative for use o	of funds received Sip and Seal Project
Narrative on over	all condition of roads and bridges within reporting municipality: with continuous improvement
Allocation and Include only direct and other	Expenditure of Funds Received listed by project, with a project description ect design and construction costs pertaining to roads, bridges and storm wate a administrative costs are not allowable. Attach extra pages as necessary.

Projects with descriptions, Seal 46 blocks, some on see attached sheets



### ROAD & BRIDGE ANNUAL SUMMARY REPORT

Page 2

TOTAL	
I declare that I have examined this report, including	g accompanying schedules and statements and to the
best of my knowledge; certify that the information	provided above is true, complete and accurate.
0.	
John I. Minagarit	11/2/1.0
Signature	
	Date
Title Maintenance &	1714
- Dupon Dupon	intendent
John J Giagorial	
Printed Name	<u> </u>
	Day Time Phone number

Complete this report and send to Boone County Resource Management, Attn: Kelle Westcott, 801 East Walnut Room 315, Columbia, MO 65201; by December 15<sup>th</sup>.



# City of Sturgeon

P.O. Box 387/303 E. Station Dr. Sturgeon, MO 65284 (P) 573-687-3321/(F) 573-687-3474

North Side:

Yards Price

N. Rochford- E Stone to de	adend	391	1,200.37
N. Rochford- E Francis to a	leadend	379	1,163.53
N. Ruby- E Franceis to Pro	ctor	1378	4,230.46
N. Ogden- E Proctor to E S	tone	1112	3,413.84
N. Rollins- to Audrain to R	ochford	2578	7,914.46
E. Harris- N Rollins to deal	lend	864	2,652.48
E. Smith- N Rollins to N. I	licks	635	1949.45
N. Hicks - E Harris to E W	'all	1228	3,769.96
N. Rochford – E Smith to I	Deadend	532	1,633.24
N. Roachford- E Wall to E	Smith	1044	3,3205
E. Wall – N Ogden to City	Limits	4142	12,715.94
N. Ruby- E. Stone to E. We	ıll	2058	6, <i>318.06</i>
E. and W. Smith – N. Roch	ford to I	N. Fairgi	rounds
		1659	5,093.13
Main Street – both sides		1378	4,230.46
		19,378	<i>59,490.46</i>
-	+13	,258.58	+ 40,702.06
	=32,	636.00	= 100,192.52



## CITY OF STURGEON

ANNUAL REPORT

2018

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South Side:	Yards	Price
E. Davis-S. Rollins to S. Wentz	2652	8,141.64
W. Davis - S. Wentz to S. Turner	1244	3,819.08
W. Davis-S Turner to deadend	<i>489</i>	1,501.23
E. and W. Patton - S. Hicks to S.	Walker	
59	953	18,275.71
S. Walker- W. Patton to W. Cana	da 2040	6,262.80
S. Wentz-W Davis to W. Patton	880	2,701.60
Total for the South Side =	13,258	40.702.06

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Village of Huntsdale





## **Department Information**

#### VISION STATEMENT:

ALL CITIZENS OF BOONE COUNTY BENEFIT FROM A SAFE, MODERN AND WELL MAINTAINED TRANSPORTATION SYSTEM WHICH RESULTS IN A HIGH LEVEL OF TRUST AND CONFIDENCE PLACED IN BOONE COUNTY ROAD AND BRIDGE & BOONE COUNTY RESOURCE MANAGEMENT-ENGINERING DIVISION.

**Boone County Resource Management** 

801 East Walnut, Room 315

#### Columbia, MO 65201

Phone: 573-886-4480

Fax: 573-886-4340

E-mail: resmgt@boonecountymo.org

#### **Responsibilities**

- Contracted Construction Projects
- Contracted Pavement Preservation Applications
- Infrastructure Inspection

#### Boone County Road & Bridge

5551 S Tom Bass Road

#### Columbia, MO 65201

Phone: 573-449-8515

Fax: 573-875-1602

E-mail: PublicWorks@boonecountymo.org

#### Responsibilities

- Routine Maintenance: Bridge Deck Sealing, Vegetation Control, Crack Sealing & Snow Removal
- Culvert Clean Out & Replacement
- Gravel Road Maintenance



For information on projects, road closures and other activities look for us on the internet & facebook:

https://www.showmeboone.com/resource-management

https://www.showmeboone.com/road-bridge

www.facebook.com/pages/Boone-County-Missouri-Public-Works