

# Capital

Improvement Plan

**Wentzville** Missouri®  
*The Crossroads of the Nation*



# 2021-2025

# Table of Contents

## INTRODUCTION

Letter from the City Administrator.....3

Capital Improvement Plan 2021-2025..... 4

Revenue Sources.....5

Citywide Capital Improvement Plan Summary.....6

## CAPITAL IMPROVEMENT PLAN

Administration..... 8

Economic Development.....11

Information Technology.....14

Community Development..... 20

Law Enforcement.....23

Parks and Recreation.....36

Public Works.....73

Transportation.....97

Water..... 127

Wastewater..... 147





# Introduction

TO THE MAYOR AND BOARD OF ALDERMEN:

I am pleased to transmit to you the proposed 2021-2025 Capital Improvement Plan (CIP).

This proposed five-year plan is a well thought out planning document that balances projected revenues with capital expenditures to help meet the community's growing needs. After review, modification and adoption by the Board, staff utilizes this finalized document as authorization for a project to move forward for planning purposes. After approval of the CIP, funding for individual projects will be allocated through the budget approval process. Most all projects submitted in the CIP were reviewed by the Board of Aldermen in the Fund Planners during Strategic Goal Setting meetings.

The City remains dedicated to the long-range planning of capital improvements. Most new projects or equipment will appear in the fifth year of the plan. However, to adapt to current conditions or changing circumstances limited items may be introduced before the fifth year while others may move forward or backward from previous plans.

Over the last year, the Board of Aldermen has given staff clear direction on a number of key themes. The CIP addresses your strategic direction and priorities. In addition to meeting the capital needs of the City for the next five years, the CIP accomplishes the following:

- Identifies projects to improve transportation infrastructure
- Leverages funds from other entities
- Maintains a commitment to revitalizing Downtown
- Develops a strategy to construct new facilities
- Funds the continued maintenance and enhancement of aging infrastructure

The proposed plan calls for the expenditure of \$141,820,751 over a five-year time frame and includes funding mechanisms for each item.

Please accept this Capital Improvement Plan for adoption. The CIP has been carefully developed and involved the participation and insightful thinking of all departments. The plan allows the City to proactively anticipate its future needs while retaining the flexibility to adjust to current conditions as necessary.

Sincerely,

A handwritten signature in black ink, appearing to read "Douglas Lee". The signature is fluid and cursive, with a large initial "D" and a long, sweeping underline.

Douglas Lee  
City Administrator



# CAPITAL IMPROVEMENT PLAN

## 2021-2025

---

### Capital Plan

---

A Five-Year Capital Improvement Plan allows the City to proactively plan its future capital needs well in advance, yet allow flexibility for changing needs. The first year reflects the capital projects included in the 2021 fiscal year budget. The remaining four years represent a schedule and estimate of future capital projects that may be funded based on revenue projections. Capital expenditures are listed by year and have been moved or adjusted to remain in balance. There will be further adjustments as the plan is updated with current information annually.

The **Fund** identifies the particular fund that will be used to pay for each project and the **Department** identifies responsibility. **Outside Funding Sources** identifies expected or estimated funds from grants or bonds. **Project Description and Justification** provides a description of each project (location, scope of work, etc.) and attempts to explain exactly why the particular project is needed. Justifications generally involve an effort to conserve funds now or in the future, enhance efficiency, provide a superior and high-quality public service, ensure greater employee or public safety, and/or replace, improve or expand public infrastructure.

### Capital Improvements

---

Capital improvements are physical improvements to public infrastructure in and throughout the City, and include the construction of streets, stormwater systems, bridges, parks, recreational facilities, structural renovations, and numerous other projects that involve physical improvements in and throughout the community.

### Financing Methods

---

As stated, the means of funding for each project is specified herein; the Governmental Fund to be used to complete the physical improvement. Within this Five-Year Capital Improvement Plan, a total of \$141,820,751 is recommended for capital spending. A breakdown of this \$142 million by department indicates that the Transportation Fund will bear the largest burden of this Five-Year Capital Plan, followed by the Wentzville Community Center in the Park Fund and design and construction of the Wastewater Reclamation Center expansion. Of the total \$142 million in total five-year capital spending, \$35 million (or 25%) is estimated to be reimbursed by outside funding sources. The City will continue to pursue outside funding to finance (or defray) significant capital costs.

### Annual Expenditure Trend

---

Approximately \$142 million in capital projects are anticipated over the five-year period 2021-2025. For this five-year period, the largest single year of capital outlay will be fiscal year 2021 followed by fiscal year 2023. 2021 projects include the Wentzville Community Center, Wentzville Parkway South, design for David Hoekel Parkway Phase 2D and the Reclamation Center and Bio-Solids Building Expansion. The fiscal year 2023 includes multiple road projects including Peine Road Safety Improvements, David Hoekel Parkway Phase 2D construction, Highway Z Widening and intersection improvements, coating the interior and exterior of water tower #4, and the East Lift Station replacement. The other variances year-to-year are due to waterline extension and replacement projects and a number of large transportation projects which includes yearly street and sidewalk maintenance and enhancements committed to downtown.

# REVENUE SOURCES

---

## **General Fund**

---

General Fund capital expenditures are all funded from the Capital Improvements Fund.

## **Transportation Fund**

---

Transportation Fund revenues are largely sales tax driven. The annual growth rate is consistent with current trends, yet grant funding was added in where appropriate. The variable nature of grant funding renders any visual trend of Transportation Fund revenues difficult to perceive. Transportation equipment is also funded by the Capital Improvements Fund allowing more Transportation funds to be allocated for major road projects. The Transportation Fund will be closely monitored in the out years as construction starts on David Hoekel Parkway, as this will be the largest road project ever taken on by the City.

## **Capital Improvements Fund**

---

Capital Improvements Fund revenues are used to make lease payments for bond issues and to purchase capital equipment. These are revenues transferred to other funds and budgeted accordingly. The Capital Fund purchases all the capital equipment used in the General, Transportation, Parks and Recreation, Water and Wastewater funds providing a consistent approach.

## **Water and Wastewater Enterprise Funds**

---

Water and Wastewater Fund revenues were estimated upon community growth rates, as these revenues are largely driven by commercial and residential utility billings. Given that the City tracks its building permits (a proxy for new accounts), this revenue generally mirrors projected growth.

## **Parks and Recreation Funds**

---

Park Fund equipment purchases are funded by the Capital Fund. This change provides a consistent approach to the funding of capital equipment in the General Fund and Special Revenue Fund.

## **Debt Financing**

---

Fund debt financing is for projects that cannot be funded without a new revenue source. Possible funding sources for these projects will include General Obligation Bonds for large projects. Revenue Bonds such as the State Revolving Fund could be used for utility projects. Leasehold Revenue Bonds can be used for park development since there is now a Parks sales tax, which will provide a means to repay these types of bonds. In November 2019, the City issued \$36,925,000 of Certificates of Participation, Series 2019. The proceeds were used to pay the costs of acquiring, constructing, furnishing and equipping a new City-owned and operated Wentzville Community Center, park and infrastructure. Use of \$27,911,909 of those proceeds is planned for 2021.



# CITYWIDE CAPITAL IMPROVEMENT PLAN SUMMARY

PROJECT						
Department	2021	2022	2023	2024	2025	Five Year Total
Administration	-	-	-	-	-	-
Economic Development	-	-	-	-	-	-
Information Technology	-	-	-	-	-	-
Community Development	-	-	-	-	-	-
Law Enforcement	62,338	62,338	62,338	62,338	62,338	311,690
Parks	28,320,409	414,912	607,713	435,550	695,425	30,474,009
Public Works	665,000	535,260	525,000	9,578,000	857,000	12,160,260
Transportation	10,529,872	18,864,549	21,498,204	7,129,957	6,760,000	64,782,582
Water	820,500	575,000	1,280,500	625,000	5,080,800	8,381,800
Wastewater	7,381,800	1,079,800	1,794,300	3,594,820	2,513,800	16,364,520
<b>TOTAL</b>	47,779,919	21,531,859	25,768,055	21,425,665	15,969,363	132,474,861

EQUIPMENT						
Department	2021	2022	2023	2024	2025	Five Year Total
Administration	75,000	20,000	-	-	-	95,000
Economic Development	-	-	-	-	30,000	30,000
Information Technology	235,000	50,000	30,000	-	85,000	400,000
Community Development	81,300	-	26,000	-	27,000	134,300
Law Enforcement	1,002,938	829,638	857,638	894,638	870,638	4,455,490
Parks	323,450	213,150	309,850	302,500	336,450	1,485,400
Public Works	304,500	93,500	301,000	228,000	300,000	1,227,000
Transportation	133,000	48,500	255,000	100,000	30,000	566,500
Water	108,200	99,000	34,000	40,000	94,000	375,200
Wastewater	45,000	240,000	145,000	-	147,000	577,000
<b>TOTAL</b>	2,308,388	1,593,788	1,958,488	1,565,138	1,920,088	9,345,890

# CITYWIDE CAPITAL IMPROVEMENT PLAN SUMMARY

TOTAL PROJECTS AND EQUIPMENT						
	2021	2022	2023	2024	2025	Five Year Total
<b>TOTAL</b>	50,088,307	23,125,647	27,726,543	22,990,803	17,889,451	141,820,751

FUNDING SUMMARY						
Source	2021	2022	2023	2024	2025	Five Year Total
Capital Fund	2,935,726	2,191,386	2,545,826	2,205,476	2,839,426	12,717,840
Stormwater Maintenance Reserve	100,000	-	-	-	-	100,000
Park Fund	408,500	414,912	392,870	405,550	695,425	2,317,257
Wentzville Bend Bond Proceeds	27,911,909	-	-	-	-	27,911,909
Dierbergs Contribution/Land Agreement	-	-	64,843	-	-	64,843
Recreation Trails Program Grant	-	-	150,000	-	-	150,000
Community Access Program Grant	-	-	-	30,000	-	30,000
Transportation Fund	5,493,840	7,218,910	7,901,474	4,622,496	4,110,000	29,346,720
St. Charles County	2,167,538	11,227,712	7,105,089	893,983	-	21,394,322
MoDOT	367,876	155,000	3,477,124	-	250,000	4,250,000
STP Funding	271,789	100,000	2,030,733	1,117,478	2,400,000	5,920,000
East-West Gateway TAP	-	-	-	496,000	-	496,000
CMAQ through EWGCOCG	2,228,829	162,927	983,784	-	-	3,375,540
Water Fund	820,500	575,000	1,280,500	625,000	5,080,800	8,381,800
Wastewater Fund	7,381,800	1,079,800	1,794,300	3,594,820	2,513,800	16,364,520
Unallocated Funding	-	-	-	9,000,000	-	9,000,000
<b>TOTAL</b>	50,088,307	23,125,647	27,726,543	22,990,803	17,889,451	141,820,751



**Administration**

# ADMINISTRATION

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Administration	Wayfinding Signage	75,000	-	-	-	-	75,000
Administration	Citywide Mobile App	-	20,000	-	-	-	20,000
TOTAL		75,000	20,000	-	-	-	95,000

FUNDING SOURCE						
	2021	2022	2023	2024	2025	Five Year Total
Capital Fund	75,000	20,000	-	-	-	95,000
TOTAL	75,000	20,000	-	-	-	95,000



# WAYFINDING SIGNAGE SYSTEM

**Fund:** Capital

**Department:** Administration

**Project Cost:** \$75,000 | **Outside Funding:** \$-0- | **City Cost:** \$75,000

**Description and Justification:** Funding used to complete a wayfinding signage system to guide people through the City.

**Anticipated Benefit to the City:** Increased awareness of City facilities including parks, Historic Downtown and more.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$75,000	\$75,000	-	-	-	-

# CITYWIDE MOBILE APP

**Fund:** Capital

**Department:** Administration

**Project Cost:** \$20,000 | **Outside Funding:** \$-0- | **City Cost:** \$20,000

**Description and Justification:** Funding used to develop a customized, citywide mobile app to enhance engagement with Wentzville residents.

**Anticipated Benefit to the City:** This app will be designed to keep residents informed about upcoming events, meeting dates, changes to City services (collection schedule, holidays, delays), urgent notice alerts (boil advisories, snow emergencies), and more.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$20,000	-	\$20,000	-	-	-

A thick yellow diagonal line starts from the bottom right corner and extends upwards and to the left, crossing the blue bar.

**Economic Development**

# ECONOMIC DEVELOPMENT

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Economic Dev.	Compact SUV	-	-	-	-	30,000	30,000
TOTAL		-	-	-	-	30,000	30,000

FUNDING SOURCE							
		2021	2022	2023	2024	2025	Five Year Total
Capital Fund		-	-	-	-	30,000	30,000
TOTAL		-	-	-	-	30,000	30,000



# VEHICLES

**Fund:** Capital

**Department:** Economic Development

**Description and Justification:** Replacement of vehicle due to age, mileage and ongoing maintenance costs. Replacement will improve reliability and safety, and will reduce the likelihood of repairs exceeding the vehicle's value.

**Anticipated Benefit:** The replacement vehicle is capable of carrying out all necessary duties, but at a reduced initial purchase price and will lower annual operating costs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$30,000	-	-	-	-	\$30,000

A thick yellow horizontal bar spans the bottom of the page. A thin yellow diagonal line starts from the right edge of the bar and extends upwards and to the right, crossing the white background.

# Information Technology

# INFORMATION TECHNOLOGY

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Information Technology	Employee Time and Attendance System	125,000	-	-	-	-	125,000
Court	Content Manager	50,000	-	-	-	-	50,000
Parks	Extend GGL Fiber Network to Ice Arena	40,000	-	-	-	-	40,000
Administration	Copier	20,000	-	-	-	-	20,000
Parks	Extend GGL Fiber Network to Progress Park	-	25,000	-	-	-	25,000
Police	Police Voice Recording System	-	25,000	-	-	-	25,000
Information Technology	Mid-Size SUV	-	-	30,000	-	-	30,000
Finance	Incode Version 10	-	-	-	-	85,000	85,000
TOTAL		235,000	50,000	30,000	-	85,000	400,000

FUNDING SOURCE							
	2021	2022	2023	2024	2025	Five Year Total	
Capital Fund	235,000	50,000	30,000	-	85,000	400,000	
TOTAL	235,000	50,000	30,000	-	85,000	400,000	

# EMPLOYEE TIME AND ATTENDANCE SYSTEM

**Fund:** Capital

**Department:** Information Technology

**Project Cost:** \$125,000 | **Outside Funding:** \$-0- | **City Cost:** \$125,000

**Description:** The City has utilized the current time and attendance system for more than ten years and lacks the features needed for remote office workers and in the field work crews.

**Justification:** Newer time and attendance systems will provide efficient features for all City employees and help reduce some manual work processes.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$125,000	\$125,000	-	-	-	-

# CONTENT MANAGER

**Fund:** Capital

**Department:** Information Technology – Court

**Project Cost:** \$50,000 | **Outside Funding:** \$-0- | **City Cost:** \$50,000

**Description:** Paperless system for the Court to operate without paper files and to save on physical storage. This content manager system, offered through Tyler Technologies or Show-Me Courts, would include third party hardware, software, services and signature pads.

**Justification:** This system will eliminate the need for storage containers and offices and comply with State standards.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$50,000	\$50,000	-	-	-	-

# EXTEND GGL FIBER NETWORK TO ICE ARENA

**Fund:** Capital

**Department:** Information Technology – Ice Arena

**Project Cost:** \$40,000 | **Outside Funding:** \$-0- | **City Cost:** \$40,000

**Description:** Building a fiber network to the nearest Gateway Green Light (GGL) stoplight or vault location from the Ice Arena would mean the City would only incur startup cost with no monthly recurring expenditures. The demands to run a POS system, recreation management software, a video surveillance system, and provide free Wi-Fi to visitors extend past the capabilities of a standard copper-based broadband internet.

**Justification:** Buildout and monthly recurring cost to extend the City's Metro-E fiber network provided through CenturyLink would prove to be too expensive over the next decade.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$40,000	\$40,000	-	-	-	-

# COPIER

**Fund:** Capital

**Department:** Administration

**Project Cost:** \$20,000 | **Outside Funding:** \$-0- | **City Cost:** \$20,000

**Description:** With the move to the new City Hall, the copier is utilized by other departments causing more printing, copying and scanning. The new copier will replace the current copier that will be 10-years old. The projected annual maintenance cost is \$5,000.

**Justification:** Newer copiers produce better quality prints and faster service when making copies and scanning. With the branding that is in place, the current copier is incapable of producing the correct colors, causing outgoing mail and products to lack a quality image.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$20,000	\$20,000	-	-	-	-



# EXTEND GGL FIBER NETWORK TO PROGRESS PARK

**Fund:** Capital

**Department:** Information Technology – Progress Park

**Project Cost:** \$25,000 | **Outside Funding:** \$-0- | **City Cost:** \$25,000

**Description:** Building a fiber network to the nearest Gateway Green Light (GGL) stoplight or vault location from Progress Park would mean the City would only incur startup cost with no monthly recurring expenditures.

**Justification:** The Parks Department pays \$650 monthly for limited Metro-E fiber bandwidth which the City could see a return on investment in three years.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$25,000	-	\$25,000	-	-	-

# POLICE VOICE RECORDING SYSTEM

**Fund:** Capital

**Department:** Information Technology – Police

**Project Cost:** \$25,000 | **Outside Funding:** \$-0- | **City Cost:** \$25,000

**Description:** The voice recording system records non-emergency calls, 9-1-1 calls, and all radio traffic for the Police Department. The current system was installed in Spring 2015 and is starting to reach the end of life expectancy.

**Justification:** Replacing this hardware will avoid costly disruptions and help maintain a lower cost of ownership for the City.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$25,000	-	\$25,000	-	-	-

# MID-SIZE SUV

**Fund:** Capital

**Department:** Information Technology

**Project Cost:** \$30,000 | **Outside Funding:** \$-0- | **City Cost:** \$30,000

**Description:** The Information Technology Department has two assigned vehicles. One of the two is a 2008 Impala that was previously utilized by the Police Department and has more than 130,000 miles. It is recommended to replace this vehicle with a new SUV that better fits the needs of the department to safely transport IT equipment while also resulting in a safer, more reliable vehicle with lower maintenance and operational costs.

**Justification:** Reduced operating and maintenance costs and improved efficiency for the IT Department.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$30,000	-	-	\$30,000	-	-

# INCODE VERSION 10 UPGRADE

**Fund:** Capital

**Department:** Information Technology - Finance

**Project Cost:** \$85,000 | **Outside Funding:** \$-0- | **City Cost:** \$85,000

**Description:** The City currently operates on Incode Version 9 and will eventually need to upgrade to Version 10 as Version 9 will no longer be supported. Upon implementation, annual maintenance costs will remain including online utility and court payment support and server hosting .

**Justification:** Incode provides an integrated software solution to manage data efficiently and securely while keeping the City in compliance and providing a compatible platform for multiple departments' needs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$85,000	-	-	-	-	\$85,000

**Community Development**

# COMMUNITY DEVELOPMENT

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Building Inspection	Compact SUV	56,000	-	-	-	-	56,000
Building Inspection	1/2-Ton 4x4 Pickup Truck	25,300	-	26,000	-	27,000	78,300
TOTAL		81,300	-	26,000	-	27,000	134,300

FUNDING SOURCE						
	2021	2022	2023	2024	2025	Five Year Total
Capital Fund	81,300	-	26,000	-	27,000	134,300
TOTAL	81,300	-	26,000	-	27,000	134,300

# VEHICLES

**Fund:** Capital

**Department:** Community Development – Building Inspection

**Location:** Building Inspection

**Description:** Purchase of replacement vehicles.

**Justification:** Replacement of vehicles due to age, mileage and ongoing maintenance costs. Replacement will improve reliability and safety, and will reduce the likelihood of repairs exceeding the vehicles' value.

**Anticipated Benefit:** The replacement vehicles are capable of carrying out all necessary duties, but at a reduced initial purchase price and will lower annual operating costs.

COMPACT SUV					
FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$56,000	\$56,000	-	-	-	-

½-TON 4x4 PICKUP TRUCK					
FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$78,300	\$25,300	-	\$26,000	-	\$27,000

**Law Enforcement**



# LAW ENFORCEMENT

PROJECT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Law Enforcement	Guaranteed Energy Savings Debt Service	62,338	62,338	62,338	62,338	62,338	311,690
<b>TOTAL</b>		62,338	62,338	62,338	62,338	62,338	311,690

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Law Enforcement	Firearms Simulator and Equipment	125,000	-	-	-	-	125,000
Law Enforcement	Handgun Replacements with Addition of RMR Sights	110,000	-	-	-	-	110,000
Law Enforcement	Evidence Room Storage/Shelving	5,300	-	-	-	-	5,300
Law Enforcement	Canine	-	45,000	-	-	-	45,000
Law Enforcement	Long Gun Replacement	-	-	51,000	-	-	51,000
Law Enforcement	Drone and Sensors (2)	-	-	-	66,000	-	66,000
Law Enforcement	Copier	-	-	-	-	20,000	20,000
Law Enforcement	911 Maintenance	63,259	63,259	63,259	63,259	63,259	316,295
Law Enforcement	Axon Flex Taser Program	128,379	128,379	128,379	128,379	128,379	641,895
Law Enforcement	Emergency Warning Siren	43,000	43,000	43,000	43,000	43,000	215,000
Law Enforcement	Patrol Vehicles and Equipment/Set-up	500,000	520,000	540,000	560,000	580,000	2,700,000
Law Enforcement	Motorcycle and Equipment/Set-Up (less trade-in)	28,000	30,000	32,000	34,000	36,000	160,000
<b>TOTAL</b>		1,002,938	829,638	857,638	894,638	870,638	4,455,490

# LAW ENFORCEMENT

TOTAL PROJECTS AND EQUIPMENT						
	2021	2022	2023	2024	2025	Five Year Total
TOTAL	1,065,276	891,976	919,976	956,976	932,976	4,767,180

FUNDING SOURCE						
	2021	2022	2023	2024	2025	Five Year Total
Capital Fund	1,065,276	891,976	919,976	956,976	932,976	4,767,180
TOTAL	1,065,276	891,976	919,976	956,976	932,976	4,767,180

# GUARANTEED ENERGY SAVINGS DEBT SERVICE

**Fund:** Capital  
**Department:** Law Enforcement  
**Location:** 1019 Schroeder Creek Boulevard

**Project Cost:** \$311,690    |    **Outside Funding:** \$-0-    |    **City Cost:** \$311,690

**Description and Justification:** In order to assist public entities with capital planning and long-term building infrastructure improvements, the Missouri State Legislature passed legislation in 1997 on guaranteed energy cost savings contracts. These contracts can apply to any “governmental unit” meaning a state government agency, department, institution, college, university, all local political subdivisions such as counties, municipalities and public school districts, as well as special purpose districts. Guaranteed energy cost savings contracts provide an alternative procurement method that allows for municipalities to comprehensively address aging building infrastructure needs while reducing energy and operating costs, by leveraging annual guaranteed energy savings to assist with cash-flow financing the project. This procurement method minimizes the overall risk the City as the selected Energy Provider, Trane, will provide an annual shortfall check if actual savings from the project are less than the annual program cost as agreed upon contractually and required by statute. Typical improvements include HVAC replacement/upgrades/modifications, installation of building controls, lighting efficiency enhancements and tightening of the overall building envelope (roof, windows, doors, insulation). In history, the City has not replaced HVAC equipment on a revolving replacement schedule and rarely includes these large expenditures in the Five Year CIP. This program allows for a structured equipment replacement plan and allows for annual appropriations at a set amount.

**Anticipated Benefit:** Guaranteed energy cost savings contracts create an opportunity for municipalities to reduce annual energy and operating costs, while also providing a costs savings guarantee from the provider. Annual guaranteed energy savings for this project are project at \$23,479, increasing each year, and are due to building efficiency updates, new LED lighting, hi efficiency HVAC and building automation controls. Annual maintenance agreement /guarantee administrative costs are around \$15,000 - \$17,000 annually and renewable every five years.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$311,690	\$62,338	\$62,338	\$62,338	\$62,338	\$62,338

# FIREARMS SIMULATOR

**Fund:** Capital

**Department:** Law Enforcement

**Project Cost:** \$125,000    |    **Outside Funding:** \$-0-    |    **City Cost:** \$125,000

**Description and Justification:** The life expectancy of the Police Department's current firearms training simulator is approximately 8 to 10 years. The Police Department is requesting to upgrade to the next level simulator, the FATS 300 immersive virtual training system. The opportunities for enhanced training like this meet a standard in law enforcement in teaching officers de-escalation techniques and prepares them to meet and overcome deadly force situations.

**Anticipated Benefit:** Better trained and prepared officers while significantly reducing liability to the City.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$125,000	\$125,000	-	-	-	-

# HANDGUN REPLACEMENTS WITH ADDITION OF RMR SIGHTS

**Fund:** Capital

**Department:** Law Enforcement

**Project Cost:** \$110,000    |    **Outside Funding:** \$-0-    |    **City Cost:** \$110,000

**Description and Justification:** Replacement of Glock MOS FS G-17, Trijicon suppressor height sights, RMR mounting kits, LED sights and holsters.

**Anticipated Benefit:** Single sight for rapid target acquisition as opposed to traditional sighting via front and rear sight. Optic is an assist for officers with corrected vision issues. The handguns and sights also reduce liability for the City as it should increase overall marksmanship.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$110,000	\$110,000	-	-	-	-

# EVIDENCE ROOM STORAGE/SHELVING

**Fund:** Capital

**Department:** Law Enforcement

**Project Cost:** \$5,300    |    **Outside Funding:** \$-0-    |    **City Cost:** \$5,300

**Description and Justification:** The evidence room is running out of storage space. This shelving unit will add additional storage to the existing unit.

**Anticipated Benefit:** The addition of the storage unit will allow for more storage of evidence and keeping the City from redesigning a new system, which would be an even greater cost.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$5,300	\$5,300	-	-	-	-



# CANINE

**Fund:** Capital

**Department:** Law Enforcement

**Project Cost:** \$45,000    |    **Outside Funding:** \$-0-    |    **City Cost:** \$45,000

**Description and Justification:** The Police Department is requesting the addition of a canine, Enzo. Enzo has been in service since 2015 and the project service life of a police canine is seven to eight years depending on the animal's health and overall fitness. Additional purchases related to the canine include a replacement vehicle and associated equipment such as the purchase of and installation of a kennel.

**Anticipated Benefit:** A replacement canine allows the Police Department to maintain and advance the canine program. The canine program has been very successful in locating drugs and suspects in Wentzville, thus making the City a safer place to live. There is an additional benefit of community outreach projects that the canine and handler participate in.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$45,000	-	\$45,000	-	-	-

# LONG GUN REPLACEMENT

**Fund:** Capital

**Department:** Law Enforcement

**Project Cost:** \$51,000    |    **Outside Funding:** \$-0-    |    **City Cost:** \$51,000

**Description and Justification:** The Police Department's weapons have a life expectancy and suffer wear from use during training and daily use by police officers. While the weapons are cared for and maintained, replacement should be planned for. This request includes the transition of 20 shotguns and 33 rifles as well as four lethal shotguns.

**Anticipated Benefit:** Better equipped officers will provide a safer City for the citizens.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$51,000	-	-	\$51,000	-	-

# DRONES AND SENSORS

**Fund:** Capital

**Department:** Law Enforcement

**Project Cost:** \$66,000    |    **Outside Funding:** \$-0-    |    **City Cost:** \$66,000

**Description and Justification:** Replacement of two existing drones and sensors.

**Anticipated Benefit:** Replacement of equipment to maintain the functionality and efficiency of the drone program.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$66,000	-	-	-	\$66,000	-

# COPIER

**Fund:** Capital

**Department:** Law Enforcement

**Project Cost:** \$20,000    |    **Outside Funding:** \$-0-    |    **City Cost:** \$20,000

**Description and Justification:** Replacement of a 14-year old copier that the Records Department utilizes.

**Anticipated Benefit:** Newer copiers produce better quality prints and faster service when making copies and scanning while providing for citizens and staff.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$20,000	-	-	-	-	\$20,000

# 911 MAINTENANCE

**Fund:** Capital

**Department:** Law Enforcement

**Project Cost:** \$316,295    |    **Outside Funding:** \$-0-    |    **City Cost:** \$316,295

**Description:** Annual maintenance contract for the Next Generation Enhanced 911 system.

**Justification:** Annual maintenance for the seven-year contract agreement of the Next Generation Enhanced 911 system.

**Anticipated Benefit:** Greater ability for 911 services to the citizens of our community. This includes GPS mapping, texting and photo submission to the 911 centers.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$316,295	\$63,259	\$63,259	\$63,259	\$63,259	\$63,259

# AXON FLEX TASER PROGRAM

**Fund:** Capital

**Department:** Law Enforcement

**Location:** 1019 Schroeder Creek Blvd.

**Project Cost:** \$641,895    |    **Outside Funding:** \$-0-    |    **City Cost:** \$641,895

**Description and Justification:** Taser assurance/replacement program and the purchase of a TAP program for the Taser Axon Flex camera system including the cost of evidence.com to store unlimited data and manage the recordings from the cameras as well as the cameras and associated hardware. The TAP program ensures availability of hardware and software updates at no additional costs during the contract period. The program continues to replace equipment that is out of warranty, as replacement parts are unavailable. The bundle of these two contracts offers the ability to have short range and long range cartridges, improved probe ballistics, training cartridges for each officer, unlimited batteries, all the associated hardware for charging the batteries for the weapons and a virtual reality training program that emphasizes de-escalation.

**Anticipated Benefit:** Health and safety and the TAP program allows the Police Department to keep current with the rapidly changing advances in technology associated with this equipment to minimizes the impacts on the budget should this system require unexpected purchases.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$641,895	\$128,379	\$128,379	\$128,379	\$128,379	\$128,379

# EMERGENCY WARNING SIRENS

**Fund:** Capital

**Department:** Law Enforcement

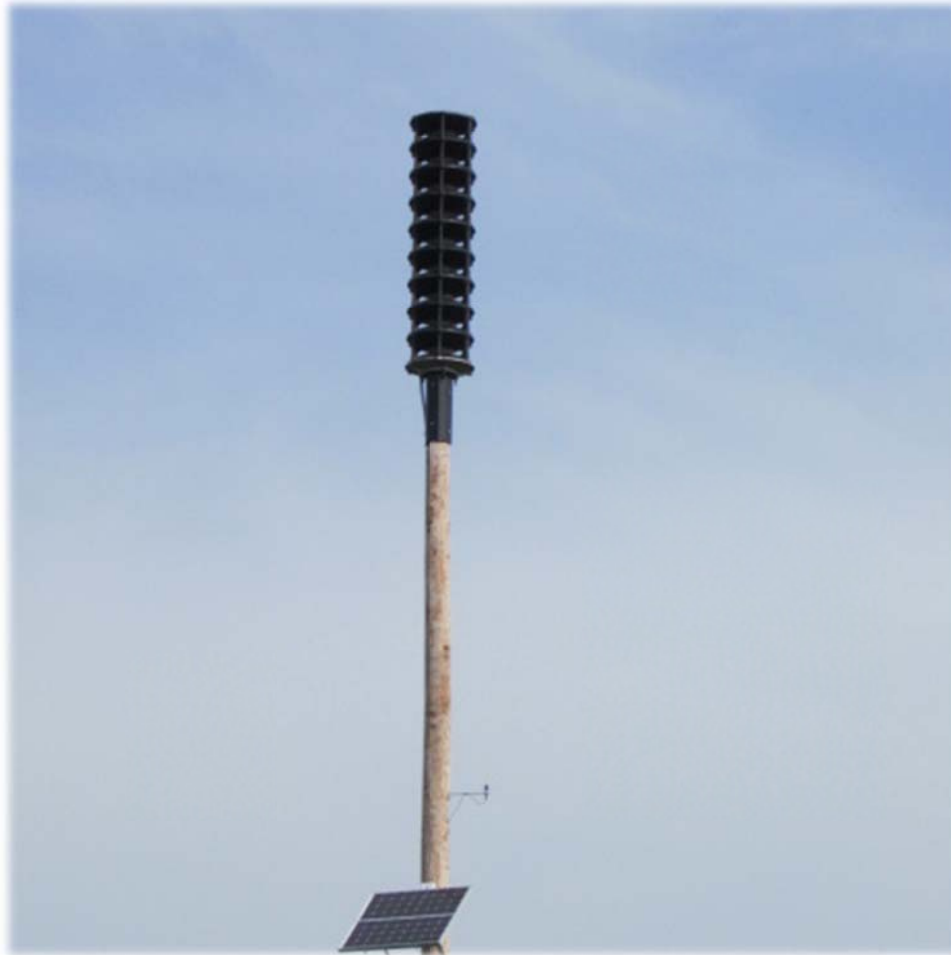
**Location:** 1019 Schroeder Creek Blvd.

**Project Cost:** \$215,000 | **Outside Funding:** \$-0- | **City Cost:** \$215,000

**Description:** The City will purchase and install emergency weather warning sirens to serve an expanding geographic population, as well as replacing those due to age.

**Justification:** City expansion and/or aging sirens.

**Anticipated Benefit:** Safety and liability.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$215,000	\$43,000	\$43,000	\$43,000	\$43,000	\$43,000

# PATROL VEHICLES AND EQUIPMENT/SET-UP

**Fund:** Capital

**Department:** Law Enforcement

**Location:** 1019 Schroeder Creek Blvd.

**Description and Justification:** With the growth of the department, the increased demands on the department as evidenced by the dramatic increase of calls for service, there is a need to increase the number of vehicles in the fleet. The department budgeted to increase the fleet replacements from five to nine along with the associated equipment to outfit them. The breakdown of the purchase will be eight four-wheel drive pursuit rated SUVs and one non-pursuit rated sedan.

**Anticipated Benefit:** Reduced liability, less maintenance and repair costs and safety of officers and residents. In addition, a well working fleet of police vehicles including four-wheel drive vehicles allows officers to respond to calls for services and to conduct proactive policing in all types of weather.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$2,700,000	\$500,000	\$520,000	\$540,000	\$560,000	\$580,000

MOTORCYCLE					
FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$160,000	\$26,000	\$28,000	\$30,000	\$32,000	\$34,000



A thick yellow diagonal line starts from the bottom right corner and extends upwards and to the left, crossing the blue footer bar.

**Parks and Recreation**



# PARKS & RECREATION

PROJECT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Administration	Wentzville Community Center	27,911,909	-	-	-	-	27,911,909
Ice Arena	Black Rink Rehabilitation	204,000	-	-	-	-	204,000
Maintenance	Public Park Facility Improvements	79,500	77,000	78,000	78,000	78,000	390,500
Maintenance	Maintenance Shed Build Out – Phase II	125,000	25,000	25,000	25,000	25,000	225,000
Maintenance	Preventative Maintenance Asphalt Parking Lots and Trails	-	97,674	62,888	54,525	49,500	264,587
Maintenance	Public Park Outdoor Improvements	-	81,488	83,025	83,025	83,025	330,563
Maintenance	Baseball Field Improvements	-	43,750	-	-	-	43,750
Maintenance	Heartland Park Trail Extension	-	-	358,800	-	-	358,800
Maintenance	Progress Park Playground Resurfacing	-	-	-	83,750	-	83,750
Maintenance	Lighted Aeration Fountain at Heartland Park	-	-	-	61,250	-	61,250
Maintenance	Fishing Dock at Heartland Park	-	-	-	50,000	-	50,000
Maintenance	Synthetic Surfacing at Heartland Park Fields 1 and 2	-	-	-	-	363,000	363,000
Maintenance	Canoe/Kayak Launch	-	-	-	-	96,900	96,900
<b>Parks &amp; Recreation Funded Equipment:</b>							
Ice Arena	Ice Resurfacers	-	90,000	-	-	-	90,000
<b>TOTAL</b>		28,320,409	414,912	607,713	435,550	695,425	30,474,009



# PARKS & RECREATION

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
<b>Capital Funded Projects:</b>							
Ice Arena	Ice Arena Debt Service	100,000	100,000	100,000	100,000	100,000	500,000
Maintenance	ADA Sidewalk Replacement	25,000	-	25,000	-	25,000	75,000
Horticulture & For	1-Ton 4x4 Pickup Trucks	100,300	-	-	-	-	100,300
Maintenance	14' Dual Pivot Hooklift Attachment	57,000	-	-	-	-	57,000
Recreation	AWD Crossover	25,150	-	-	-	50,300	75,450
Horticulture & For	Compact Mini Skid Loader	-	35,000	-	-	-	35,000
Administration	4-Door Passenger Car	-	25,650	-	-	-	25,650
Horticulture & For	Articulating Slope Mower	-	25,000	-	-	-	25,000
Horticulture & For.	Utility Vehicle	-	11,000	-	-	-	11,000
Parks	3/4-Ton 4x4 Pickup Trucks	-	-	30,150	-	-	30,150
Recreation	1/2-Ton 4x4 Extended Cab Pickup Truck	-	-	27,150	-	-	27,150
Horticulture & For	Deep Tine Aerator	-	-	18,000	-	-	18,000
Maintenance	LED Informational Sign	-	-	17,000	-	-	17,000
Horticulture & For	Sprayer	-	-	15,000	-	-	15,000
Horticulture & For	60" Zero Turn Mower	-	-	10,500	-	-	10,500
Horticulture & For	16' Equipment Trailer	-	-	8,050	-	-	8,050
Horticulture & For	72" Zero Turn Mowers	-	-	24,000	12,000	-	36,000
Horticulture & For	Z-Trac Midmount Mower	-	-	18,500	18,500	-	37,000
Maintenance	Mini-Excavator	-	-	-	65,000	-	65,000
Horticulture & For	Skidloader	-	-	-	65,000	-	65,000
Horticulture & For	ProGator Utility Vehicle	-	-	-	25,000	-	25,000
Maintenance	One-Ton Pickup Truck w/Extended Cab	-	-	-	-	58,150	58,150
Horticulture & For	Utility Tractor	-	-	-	-	30,000	30,000

# PARKS & RECREATION

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Horticulture & For	Air Compressor	-	-	-	-	28,000	28,000
Horticulture & For	Turf Sprayer	-	-	-	-	15,000	15,000
Horticulture & For	Bunker Rake/Groomer	-	-	-	-	13,000	13,000
Recreation	Holiday Lights Display	16,000	16,500	16,500	17,000	17,000	83,000
<b>TOTAL</b>		323,450	213,150	309,850	302,500	336,450	1,485,400

TOTAL PROJECTS AND EQUIPMENT						
	2021	2022	2023	2024	2025	Five Year Total
TOTAL	28,643,859	628,062	917,563	738,050	1,031,875	31,959,409

FUNDING SOURCE						
	2021	2022	2023	2024	2025	Five Year Total
Capital Fund	323,450	213,150	309,850	302,500	336,450	1,485,400
Park Fund	408,500	414,912	392,870	405,550	695,425	2,317,257
Wentzville Bend Bond Proceeds	27,911,909	-	-	-	-	27,911,909
Dierbergs Contribution/Land Agreement from 2005	-	-	64,843	-	-	64,843
Recreation Trails Program Grant	-	-	150,000	-	-	150,000
Community Access Program Grant	-	-	-	30,000	-	30,000
TOTAL	28,643,859	628,062	917,563	738,050	1,031,875	31,959,409

# WENTZVILLE COMMUNITY CENTER

**Fund:** Parks & Recreation

**Department:** Administration

**Location:** Wentzville Bend

**Project Cost:** \$40,000,000 | **Outside Funding:** \$36,825,000 | **City Cost:** \$3,175,000

Land Acquisition - \$7,342,893

Grading, Utility Mains and Road Costs - \$1,597,552

Building and Site Costs - \$31,059,555

Wentzville Bend Bond Proceeds - \$36,925,000

Transfer from General Fund Future Road Improvements Assigned Fund Balance - \$1,750,000

**Description and Justification:** Funds will be utilized to construct a new multigenerational recreation facility to accommodate community recreation opportunities for all age groups and interests. The program recommendations were driven by the information gathered during the market analysis, including the 2016 Park and Recreation Master Plan, demographic profile of the community, statistical data from the NSGA, stakeholder input and competitive analysis of other recreation facilities in the area. The project recommendations reflect the most pressing needs in the community. Based on the market analysis, program assessment and budgetary considerations the following program summary was developed. The recommendation was for a facility around 85,198SF including the following components: gymnasium, group fitness areas, weight/cardio area, multipurpose rooms, aquatic areas, senior activity area, and various spaces accommodating children's play. The sizes of the individual components will be validated and refined by an architect should the City of Wentzville decide to move forward with building a Community Recreation Center.

**Anticipated Benefit to the City:** The proposed facility will become part of an approximately 60-acre-mixed-use development along Wentzville Parkway. The mixed-use development, known as “The Bend,” will extend along the Parkway from the new City Hall to William Dierberg Drive. In addition to the City’s multigenerational recreation facility, the project will include park and green spaces, new retail, pedestrian trails and some residential development. This transformative project will be funded through sales taxes from the new retail space and an additional one-cent sales tax along a portion of Wentzville Parkway. Utilization of an additional one-cent sales tax ensures that the project can move forward immediately, while not requiring the use of any City-issued bonds or reserve funds. The funds generated by the tax will go toward construction and operational costs for the facility.



## FUNDING SCHEDULE

Total \$40,000,000	PRIOR	2021	2022	2023	2024	2025
	\$12,088,091	\$27,911,909	-	-	-	-
Bond Proceeds	\$8,913,091	\$27,911,909	-	-	-	-
Transfer from Assigned	\$1,750,000	-	-	-	-	-

# BLACK RINK REHABILITATION

**Fund:** Parks & Recreation

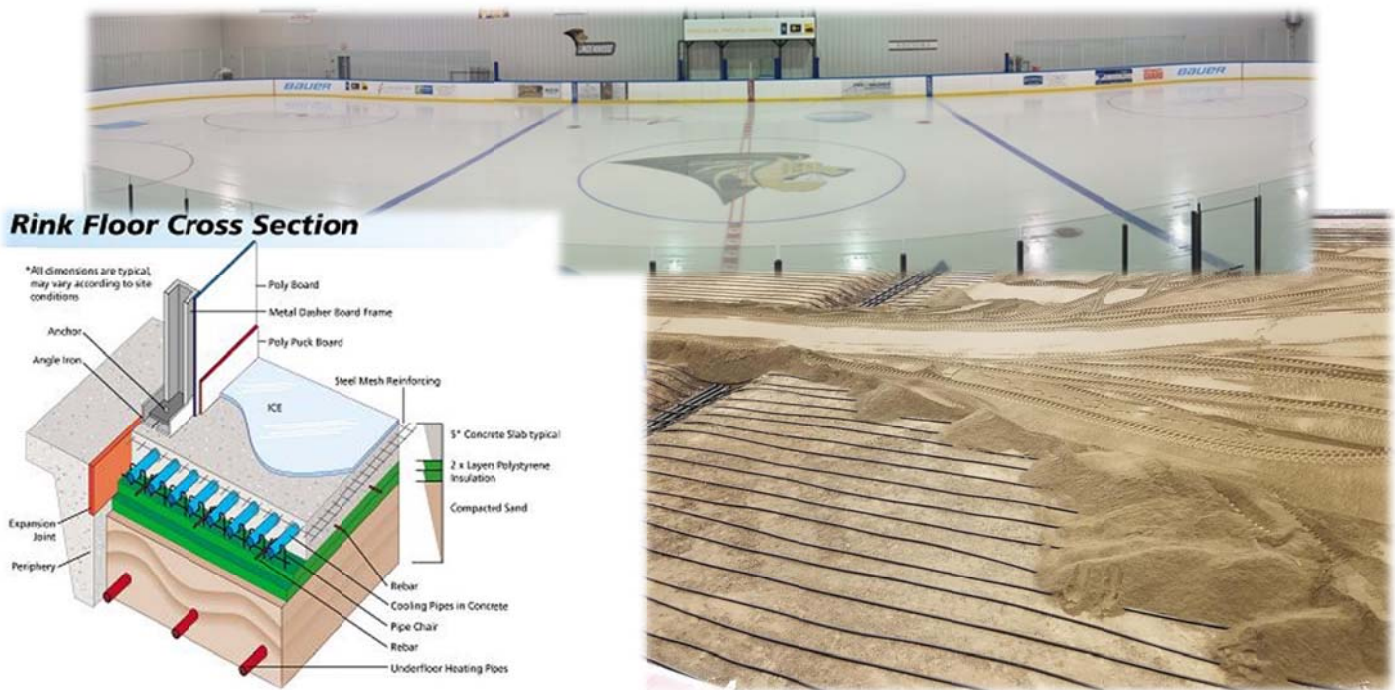
**Department:** Ice Arena

**Location:** Ice Arena

**Project Cost:** \$204,000 | **Outside Funding:** \$-0- | **City Cost:** \$204,000

**Description and Justification:** This is a placeholder amount to address the issues related to the warming loop on the Ice Arena's Black Rink. At the point of completing the Capital Improvement Plan, it is still unclear what the best solution is for addressing this issue but it is clear there is an issue. Ultimately, this project is intended to repair the warming loop portion of the ice rink refrigeration system that keeps the ice frozen. The warming loop system is a series of subsurface tubes placed approximately 24-30 inches below the surface of the ice that circulates warmer brine to prevent permafrost from developing. This system is a critical system and important to the maintenance and upkeep of the building.

**Anticipated Benefit to the City:** With the purchase of the Ice Arena, staff will be working to complete a significant amount of deferred maintenance. This system has been deactivated for nearly two years and getting this system back online will ensure that the building and its structural integrity is not impacted.



## FUNDING SCHEDULE

Total	2021	2022	2023	2024	2025
\$204,000	\$204,000	-	-	-	-

# PUBLIC PARK FACILITY IMPROVEMENTS

**Fund:** Parks & Recreation

**Department:** Maintenance

**Location:** Citywide

**Project Cost:** \$390,500 | **Outside Funding:** \$-0- | **City Cost:** \$390,500

**Description:** Funds used to:

1. Repair or replace unscheduled mechanical failures such as air conditioners, furnaces, boilers, etc.
2. Repair or replace unanticipated infrastructure deficiencies or structural failures such as roof leaks, electrical, storm/sanitary sewer, plumbing, etc.
3. Perform needed construction/renovation projects in a timely fashion.
4. Improve overall efficiency of an operation or facility.
5. Replace equipment that has been lost to theft or unexpected malfunction and replacement/repair.
6. Add, replace or enhance security measures at any of the indoor facilities.

Identified projects include:

**2021:** Replace a tread mill (2 of 5) @ PPRC (\$7,500); Fitness Equipment Replacement(2 of 8) @ PPRC (\$4,000); Arena Locker Room 3&4 (\$19,000); Fit Floor @ PP (\$11,000); Renovate Outdoor Restrooms at PP @ (\$8,000); Emergency Contingency (\$20,000)

**2022:** Replace a treadmill (3 pf 5) @ PPRC (\$7,500); Fitness Equipment Replacement (3 of 8) @ PPRC (\$4,000); Replacement LG Windows (\$4,000); Exterior doors @ PPRC (\$2,500); Ice Arena Locker Room 5&6 (\$19,000); Party Room Partition (\$15,000); Ice Arena Tuck Pointing (\$5,000); Emergency Contingency (\$20,000)

**Justification:** These project funds are exclusively to be used for work related to enclosed building structures. There are a number of smaller projects that get submitted every year that if completed when the issue begins rather than waiting until the problem reaches a critical stage will result in future cost savings. The problem is that these types of projects are always dropped during the budget process to focus resources on issues that have already reached the critical phase and the department never has an opportunity to catch up. It is proposed that system be developed to address these issues while they are still in their “infancy.”

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$390,500	\$79,500	\$77,000	\$78,000	\$78,000	\$78,000

# MAINTENANCE SHED BUILD OUT – PHASE II

**Fund:** Parks & Recreation

**Department:** Maintenance

**Location:** Peruque Valley Park

**Project Cost:** \$125,000 | **Outside Funding:** \$-0- | **City Cost:** \$125,000

**Description and Justification:** With these funds, staff plans to continue finishing the inside of the Peruque Valley Park maintenance shed. Only the shell of the building was built in 2018. The build out includes everything from plumbing, electrical, flooring, walls, drywall and HVAC of the offices and restrooms of the building so that staff can start working out of the building. The first phase of the buildout (staff areas – offices, restrooms, breakroom and associated HVAC is anticipated to be completed in 2019. Phase II of this project the completion of a portion of the shop area including all concrete, plumbing, electrical and building materials for a secured chemical storage bay, tool crib, and equipment maintenance area. Phase III of the project will include the concrete, plumbing, electrical, and guard rail for the balance of the shop area. Phase IV is the lighting, overhead fans and radiant heat system for the shop area. Phase V is effectively a catch all project to wrap up any unfinished part of the interior buildout, install exterior walkways, building security features, patron parking, and a covered wash bay.

**Anticipated Benefit to the City:** Staff is self-performing this work and these costs are material only expenses and, therefore, the City is saving approximately 60-75% of the cost of having a contractor perform this work. Currently, staff has to drive back and forth with tools and equipment to Progress Park and Peruque Valley Park. With the completion of the maintenance shed, the number of trips between the two parks will be reduced, which will result in a reduction of fuel consumption for the department and the City.

FUNDING SCHEDULE – BUILD OUT					
Total	2021	2022	2023	2024	2025
\$125,000	\$125,000	-	-	-	-

In 2021, the Capital Fund will transfer \$100,000 from reserves to the Park Fund to fund a portion of the build out. Beginning in 2022, the \$100,000 from the reserve will be fully restored and paid back by the Park fund by 2025 in which transfers of \$25,000 will be completed annually.

FUNDING SCHEDULE – PAY BACK TO CAPITAL FUND					
Total	2021	2022	2023	2024	2025
\$100,000	-	\$25,000	\$25,000	\$25,000	\$25,000



# PREVENTATIVE MAINTENANCE PROGRAM FOR ASPHALT PARKING LOTS AND TRAILS

**Fund:** Parks & Recreation

**Department:** Maintenance

**Location:** Citywide

**Project Cost:** \$264,587 | **Outside Funding:** \$-0- | **City Cost:** \$264,587

**Description and Justification:** Funds used to implement a preventative maintenance and repair program for asphalt parking lots and trails within the Parks system. The funds would also be used to add or replace asphalt in places where needed such as short connections, turn radii, additional parking, erosion points, or park entrances. Current projects under consideration are:

- **2022:** Overlay and make full depth repair to bad spots in the access road and East parking lot at the Ice Arena
- **2023:** Crack Seal and Top Coat Asphalt Trail in Rotary Park
- **Pending Projects:**
  - Full depth repair bad spots and overlay the West parking lot at the Ice Arena (to be coordinated w road extension)
  - Crack Seal and Top Coat, perhaps some spot repairs to the base are needed as well as a complete overlay for the big Lot in Memorial Park
  - Spot repairs at Rotary Park from Fire House to Bleachers and add additional shoulder to improve turn radius at lower loop
  - Replace pervious asphalt at Heartland Park
  - Connection from South parking area to ballfields at Memorial Park
  - Install new trail in missing section of PVP near Peruque Creek

The overall condition of the asphalted areas in the City Park System is rated at fair but there is an increasing need to catch up on the maintenance side. With the increasingly difficult budget challenges that we are facing, it is recommended that a review of the current service levels and the related revenues is completed to establish a baseline for establishing a long term maintenance program of asphalt surfaces consist with what is being done on City streets. There are also some areas where it should be considered to add a short connection or a few extra parking spaces and these funds would allow it. There are also some areas in the park system where short connections or a few extra parking spaces it should be considered to add a short connection or a few extra parking spaces meet ADA or maintenance standards and these funds would allow it.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$264,587	-	\$97,674	\$62,888	\$54,525	\$49,500

# PUBLIC PARK OUTDOOR IMPROVEMENTS

**Fund:** Parks & Recreation

**Department:** Maintenance

**Location:** Citywide

**Project Cost:** \$330,563 | **Outside Funding:** \$-0- | **City Cost:** \$330,563

**Description and Justification:** Funds will be used to address unanticipated structural deficiencies or failures to outdoor or non-enclosed building related infrastructure (pavilions included in this category) such as:

1. Make unscheduled repairs to individual pieces of playground equipment and, eventually, to install new amenities.
2. Repair, replace or enhance faulty or defective infrastructure such as irrigation systems, aeration fountains, boardwalks, lighting or plumbing systems, etc.
3. Repair or replace structural deficiencies in outdoor infrastructure such as foot bridges, signs, stairs, drinking fountains, backstops, outfield fences, batting cages, scoreboards, pavilions, etc.
4. Perform needed construction/renovation projects in a timely fashion.
5. Improve overall efficiency of an operation or facility or enhance outdoor facilities with adding small improvements

Projects that are currently under consideration for this funding source are:

**2022:** entrance sign at Heartland Park (\$18,000); new play features at Rotary Park playground (\$8,000); slide at Memorial Park (\$8,000); complete safety fences at Heartland Park 3&4 (\$13,000); irrigation entry beds at Heartland Park (\$7,500); extend retaining wall at Peruque Valley Park lake (\$25,000).

**2023:** additional safety surface tiles at Rotary Park playground (\$25,000); entrance sign at WAP (\$21,000); entrance sign at Peruque Valley Park (\$35,000)

**2024:** slid exterior color and interior seals/coating at Progress Park (\$10,000); entrance sign at Progress Park (\$18,000), irrigation/seed at WAP (\$23,000); dumpster enclosure at Ice Arena (\$24,000)

**Anticipated Benefit to the City:** There are a number of smaller projects that get submitted every year that if completed when the issue begins rather than wait until the problem reaches a critical stage will result in future cost savings. The problem is that these types of projects are always dropped during the budget process to focus resources on issues that have already reached the critical phase and we never have an opportunity to catch up. It is proposed that a system be developed to address these issues while they are still in their "infancy".

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$330,563	-	\$81,488	\$83,025	\$83,025	\$83,025



# BASEBALL FIELD IMPROVEMENTS

**Fund:** Parks & Recreation

**Department:** Progress Park

**Project Cost:** \$43,750 | **Outside Funding:** \$-0- | **City Cost:** \$43,750

**Description:** Funds will be used to address drainage and backstop/fence issues at Progress Park Baseball Diamond including:

1. Add soil amendments and laser grade the baseball infield (\$10,000)
2. Repair backstop and install new fence on dugouts (\$15,000)
3. Correct drainage issue caused by water sheet flowing from sidewalks (\$4,000)

**Justification:** Progress Park field needs to be raised and laser graded, so that we can decrease rainouts and reduce the amount of time that is spent preparing the field after a rain event. This field is used by the City for various youth baseball and adult softball programs. The field has had a significant amount of deferred maintenance and it has reached point where this lack of attention is adversely impacting staff's ability to complete routine tasks in a timely fashion. The longer this work is deferred the more costly the repairs will be in the future.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$43,750	-	\$43,750	-	-	-

# HEARTLAND PARK TRAIL EXTENSION

**Fund:** Parks & Recreation  
**Department:** Maintenance  
**Location:**Heartland Park

**Project Cost:** \$358,800 | **Outside Funding:** \$214,843 | **City Cost:** \$143,957  
Dierberg's Contribution/Land Agreement from 2005 - \$64,843  
Recreation Trails Program Grant - \$150,000

**Description and Justification:** This funding would be used to design, plan, phase and implement improvements to the City's Hike and Bike Trail System in accordance with the City's Trail Master Plan. Projects specifically identified for this funding include:

1. Match funds for recreation trails program, land water conservation fund and transportation enhancement grant programs.
2. Design an additional loop to internal trail system Heartland Park extending south across the tributaries and along the lake to Schroeder Creek Blvd.
3. Fund land acquisition for a trailhead at the southeast corner of the park.
4. Incorporate uniform trail signage along the sections of existing trails.

**Anticipated Benefit to the City:** Feedback received from residents during the last Park Master Planning Process indicated that 60% (highest number for this category) of the respondents were "Very Supportive" and another 30% were "Somewhat Supportive" of Maintaining/Repairing our existing Parks, Shelters, Facilities, etc. Only 3% were "Not Supportive" and 8% "Don't Know". When asked what "Actions the Respondents would be most willing to support with their tax dollars", 34% of the respondents placed Maintenance of Existing Park, Shelters and Facilities as their 1st, 2nd or 3rd Choice - again, the highest total in this category.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$358,800	-	-	\$358,800	-	-
Dierberg's	-	-	\$64,843	-	-
Grant	-	-	\$150,000	-	-

# PROGRESS PARK PLAYGROUND RESURFACING

**Fund:** Parks & Recreation  
**Department:** Maintenance  
**Location:** Progress Park

**Project Cost:** \$83,750 | **Outside Funding:** \$-0- | **City Cost:** \$83,750

**Description and Justification:** The Progress Park playground safety surface is nearing the end of its life expectancy and will need to be replaced. The playground surfacing is deteriorating which jeopardizes its ability to absorb falls/impacts as it did when it was new and there are gaps related to contraction around the edges which limit the surfaces ability to comply with ADA accessibility guidelines. The total square footage of the playground surfacing that will need to be replaced is 5,250 sq. ft. and cost per sq. ft. is around \$15 per sq. ft.

**Anticipated Benefit to the City:** The benefit to making this improvement is that it will ensure user safety and it may prevent any future claims that could arise from injuries or ADA compliance issues. The playground surfacing was designed to prevent injuries that occur from falls on playgrounds. It is the responsibility of the owner to ensure that all playground safety surfaces/playgrounds are kept to NPSI standards. All playground surfacing must also be compliant with ADA standards for accessibility across all surfacing. As seen from the pictures, the surfacing is deteriorating and may be a hazard if not addressed soon.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$83,750	-	-	-	\$83,750	-

# LIGHTED AERATION FOUNTAIN

**Fund:** Parks & Recreation

**Department:** Maintenance

**Location:** Heartland Park

**Project Cost:** \$61,250 | **Outside Funding:** \$15,000 | **City Cost:** \$46,250  
Community Access Program Grant through Missouri Department of Conservation -  
\$15,000

**Description and Justification:** Funds will be used to design, purchase and install lighted water fountains in the lake/pond at Heartland Park. This project may be eligible for CAP grant funds through the Missouri Department of Conservation.

Fishing and water aeration was never addressed in the design or construction of Heartland Park. This lack of planning has led to a few small fish kill events over the years since this park was built. These events are attributed to algae blooms that occur during times of high water temperatures and lack of water circulation. Staff is proposing to address the causes by adding artificial circulation and ensure proper aeration of the lake. This is essential to ensure the water does not become stagnant in hot summer months. Additionally, the preventative maintenance for the lake will also require treating the lake with a variety of chemicals and some of these chemicals require adequate oxygen prevent algae growth and prevent fish kills.

Staff is proposing to install one large floating fountain capable of creating a 50' tall by 30' wide spray with lights and two smaller fountains with lights. This will likely create a unique landmark being highly visible at night for drivers on Schroeder Creek Blvd. and William Dierberg Drive.

**Anticipated Benefit to the City:** The introduction of a floating fountain accomplishes a number of positive outcomes. First, it provides an interesting water feature that will be quite impressive and may be an attraction to visitors. Additionally, it assists with the overall water quality by aiding in the aeration process which helps with the chemical treatment process necessary with this type of lake. It also creates an agitation process which speeds up the decay process in the sludge layers of a lake/pond.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$61,250	-	-	-	\$61,250	-
CAP Grant	-	-	-	\$15,000	-



# FISHING DOCK

**Fund:** Parks & Recreation

**Department:** Maintenance

**Location:** Heartland Park

**Project Cost:** \$50,000 | **Outside Funding:** \$15,000 | **City Cost:** \$35,000  
Community Access Program Grant through Missouri Department of Conservation -  
\$15,000

**Description and Justification:** Funds will be used to design, purchase and install a floating fishing dock system at Heartland Park Lake. This project is eligible for CAP grant funding through the Missouri Department of Conservation.

Stocked lakes obviously attract larger numbers of fishing enthusiasts and Heartland Lake is no exception. The Missouri Department of Conservation has been stocking Heartland Lake since 2015 as part of the Community Assistance Program and the lake has a healthy fish population. As part of constructing the park, the lake's shoreline was largely seeded with a native mix of plants as they have gotten established obstruct access to the lake and make fishing somewhat challenging. City staff does not mow the water's edge as is done in Rotary Park because there is an increased emphasis on preventing the establishment of a permanent population of Canadian Geese. The geese once established are difficult to get rid of. The geese tend to populate bodies of water that have gentle sloping shorelines, open fields of vision, and a nearby food source. A well maintained vegetative buffer will prevent the establishment of a resident population of geese but also conflicts with those wishing to use the lake as a recreational fishing amenity.

Staff is proposing to purchase and install a floating dock/pier with a 40' long by 6' wide runway which leads to a 12'x32' platform with railings.

**Anticipated Benefit to the City:** Installing a floating dock allows the anglers to access the water better and it provides another structure to aid the growth and health of the fish population. The City is also able to maintain the current vegetative buffer and prevents the introduction of goose excrement to the ballfields and walkways located in the park.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$50,000	-	-	-	\$50,000	-
CAP Grant	-	-	-	\$15,000	-

# SYNTHETIC SURFACING – FIELDS 1 AND 2

**Fund:** Parks & Recreation  
**Department:** Maintenance  
**Location:** Heartland Park

**Project Cost:** \$363,000 | **Outside Funding:** \$-0- | **City Cost:** \$363,000

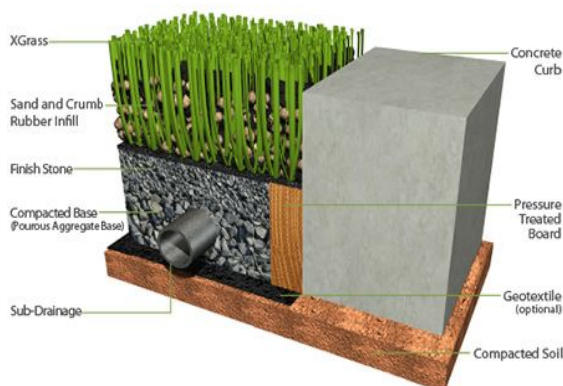
**Description and Justification:** Funds will be used to remove and replace synthetic surfacing on Fields #1 (2024) and #2 (2026) at Heartland Park. These surfaces were installed in 2014 and are approaching the end of their product life cycle.

Because these synthetic surfaces are still somewhat new to the market and the preventative maintenance that they receive is different from one organization to the next, it is unclear how often this surfacing should be replaced. Staff has been told by manufacturers that organizations should consider replacement every 8-10 year and staff placed/scheduled the replacement in year 10 and the other at year 12.

Staff has being diligent in the administering the preventative maintenance program for the surfacing on these fields. The hope is that by implementing the maintenance program as set by the manufacturer, the product lifecycle may be extended. Staff will continue to monitor the condition of the surfaces and, if it possible will push this project off as long as possible.

**Anticipated Benefit to the City:** The City initially purchased and installed a mid-level turf which incorporates a deeper layer of crumb rubber and, therefore, has a better cushioning factor. While this decision was made to ensure a greater level of safety for the users, it is also possible that this may lead to a longer lifecycle.

SYNTHETIC TURF FOR ATHLETIC FIELDS



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$363,000	-	-	-	-	\$363,000

# CANOE/KAYAK LAUNCH

**Fund:** Parks & Recreation

**Department:** Maintenance

**Location:** North of the Water Treatment Plant on the Big Creek

**Project Cost:** \$96,900 | **Outside Funding:** \$-0- | **City Cost:** \$96,900

**Description and Justification:** Funds will be used to design and construct a canoe/kayak launch on the Big Creek north of the Water Treatment Plant on land owned by the City. The plan would be to:

- Incorporate vehicle access to the launch site consisting of a gravel road with “fencing” along the road to prevent vehicles from leaving the road and causing damage to the crops in that area.
- Design a small parking facility for up to six vehicles with trailers, again, the preliminary concept would be a gravel parking area with space to turn around.
- Incorporate the appropriate launch facility to allow users to safely transport their canoe/kayak from the parking area to the water’s edge.
- Ensure power is provided at the parking area to provide some safety lighting and security measures should they be needed.
- Incorporate appropriate safety measures to ensure vehicles cannot access the creek.
- Incorporate signage to provide safety and wayfinding information.
- If necessary, incorporate shoreline reinforcement measures to prevent high water events, erosion, or wear and tear by users from impacting the shoreline.
- Consider as part of the design the potential for expanded services such as rental/returns.
- Consider and design for ADA accommodations now or at some point in the future.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$96,900	-	-	-	-	\$96,900

# ICE RESURFACER

**Fund:** Parks & Recreation

**Department:** Ice Arena

**Project Cost:** \$90,000 | **Outside Funding:** \$-0- | **City Cost:** \$90,000

**Description:** Funds will be used to replace the current one or both of the Ice Resurfacers at the Wentzville Ice Arena. These units are a 1998 and 1999 Olympia 2000 Ice Resurfacer. Both of the resurfacers are 20+ years old and well beyond their normal life expectancy.

Staff will evaluate whether or not there is an option to purchase a used unit from a professional hockey organization which, typically, rotate their resurfacers annually. If so, the cost of a used unit is about half of the cost of a new one. The life expectancy of ice resurfacers is 8-10 years.

**Justification:** This is a straight forward vehicle replacement scheduled to avoid escalating maintenance costs.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$90,000	-	\$90,000	-	-	-



# ICE ARENA DEBT SERVICE

**Fund:** Capital

**Department:** Ice Arena

**Project Cost:** \$2,000,000 | **Outside Funding:** \$-0- | **City Cost:** \$2,000,000

**Description and Justification:** Representatives of Lindenwood University reached out to City staff in April 2018 to share that the University was going to be moving its hockey teams from the ice arena in Wentzville to a new location in Maryland Heights and, as part of this transition, they would be considering putting the Wentzville Ice Arena up for sale at some point in 2018. Because of the University's educational mission, they also expressed a strong interest in seeing the facility remain as a recreational amenity within Wentzville and they conveyed their commitment to wanting to maintain a significant and improved presence within the Wentzville community.

City staff performed a preliminary assessment of the financial viability of purchasing the ice arena and performed certain initial due diligence, including obtaining certain engineering inspections of the facility and property. Major components that were inspected by Cochran Engineering or its subcontractors included: HVAC, mechanical, electrical, plumbing, ice system, structural, site, equipment, the ice arena refrigeration systems, and the ice resurfacing equipment. The sale price of the facility was \$2,000,000.

Lindenwood University agreed to finance the purchase, interest free, for twenty (20) years.

**Anticipated Benefit to the City:** The Ice Arena provides an opportunity for a wide variety of additional programs and recreation opportunities.

FUNDING SCHEDULE							
Total	PRIOR	2021	2022	2023	2024	2025	FUTURE
\$2,000,000	\$200,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,300,000

# ADA SIDEWALK REPLACEMENT/IMPROVEMENTS

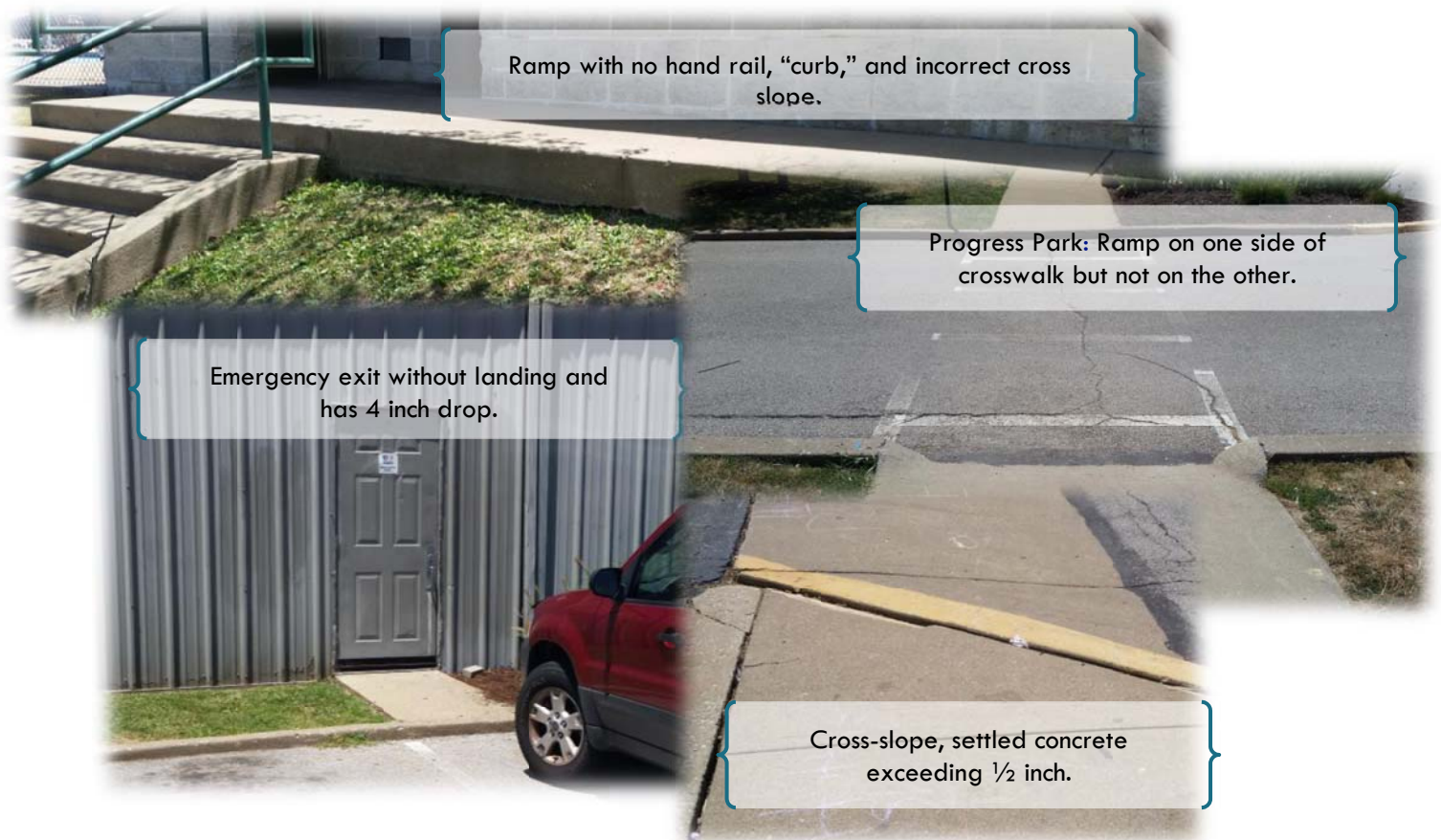
**Fund:** Capital

**Department:** Maintenance

**Project Cost:** \$75,000 | **Outside Funding:** \$-0- | **City Cost:** \$75,000  
Capital Fund - \$75,000

**Description:** Replace cracked, heaved or otherwise damaged sidewalks within the park system or around public facilities. Occasionally, funds are used to install new ADA ramps or new sections of sidewalk on public rights of way to make connections to either the trail system or in heavily traveled areas.

**Justification:** Funding source for replacing sidewalks that are not ADA-compliant or to add new sidewalks in areas that we need to in order to be compliant with those standards.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$75,000	\$25,000	-	\$25,000	-	\$25,000

# 1-TON 4X4 TRUCKS

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$100,300 | **Outside Funding:** \$-0- | **City Cost:** \$100,300

**Description and Justification:** In the Park Operations Division, the funds will be used to purchase a replacement truck for the Horticulture & Forestry Unit. The truck is replacing outgoing truck #807 which is 2005 Chevy 2500HD truck - 3/4-Ton 4X4 pickup with an extended cab and snow plow package. The unit is currently used in a variety of roles and is used to pull equipment trailers, haul bulk material and meet general transportation needs. The current vehicle is equipped with the snow plow package (controls/hookups) and the replacement vehicle will be outfitted similarly to the outgoing unit.

In the Park Operations Division, the funds will be used to purchase a replacement truck for the Horticulture & Forestry Unit. The truck is replacing outgoing truck #808 which is 2005 Chevy 2500HD truck - 3/4-Ton 4X4 pickup with an extended cab and snow plow package. The unit is also used in a variety of roles and is commonly used to pull equipment trailers, haul bulk material and meet general transportation needs. The current vehicle is equipped with the snow plow package (controls/hookups). The replacement vehicle will be a 1-Ton 4X4 truck equipped with a landscaping bed and hoist.

The anticipated life cycle of a new unit in this category is expected to be 10 years or 100,000 miles. Snow plow and salt spreaders will not be included with the purchase of any of these vehicles and, if needed, will be the responsibility of the Street Department's Budget.

**Horticulture & Forestry:** Truck #807 is currently 14-years old and has 81,059 miles on it.

**Horticulture & Forestry:** Truck #808 is currently 14-years old and has 72,915 miles on it.

1-TON 4X4 PICKUP TRUCK WITH STANDARD CAB/BED/SNOW PACKAGE					
FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$48,150	\$48,150	-	-	-	-

1-TON 4X4 CREW CAB PICKUP TRUCK WITH STANDARD CAB/LS BED/HOIST					
FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$52,150	\$52,150	-	-	-	-

# 14' DUAL PIVOT HOOK LIFT ATTACHMENT

**Fund:** Capital

**Department:** Maintenance

**Project Cost:** \$57,000 | **Outside Funding:** \$-0- | **City Cost:** \$57,000

**Description:** Funds will be used to purchase a 14' dual pivot hook lift attachment for truck 813.

**Justification:** Hook lifts are an easy way to increase utilization of a truck chassis. Hook lifts incorporate quick change bodies that convert a single truck to multiple uses. Bodies can be quickly switched or left at a jobsite and can be dumped at more than 50". Bodies being proposed as part of this purchase include two roll off bodies, a dump body and a chipper body. This attachment allows for greater versatility of the current fleet and could reduce the number of single purpose vehicles in the fleet.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$57,000	\$57,000	-	-	-	-

# AWD CROSSOVER

**Fund:** Capital

**Department:** Recreation

**Project Cost:** \$75,450 | **Outside Funding:** \$-0- | **City Cost:** \$75,450

**Description:** Funds will be used to replace a 2009 Chevy Tahoe 4X4 SUV with 103,008 miles on it. This vehicle was transferred from the Police Department in 2018.

This vehicle is used in daily Recreation Division for hauling materials, supplies and equipment to and from job sites.

The anticipated life cycle of a new unit is expected to be 10 years or 100,000 miles. Because this vehicle was kept in the fleet after its expected lifespan, replacement will be scheduled for three years in 2021.

**Justification:** This is a straight forward vehicle replacement scheduled to avoid escalating maintenance costs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$75,450	\$25,150	-	-	-	\$50,300

# COMPACT MINI SKID LOADER

**Fund:** Capital  
**Department:** Horticulture & Forrestry

**Project Cost:** \$35,000 | **Outside Funding:** \$-0- | **City Cost:** \$35,000

**Description and Justification:** Funds will be used to purchase a Boxer 532DX compact mini skid loader with trailer and attachments for the Horticulture & Forestry Division. This is a mobile and versatile piece of equipment that can be used in all seasons. It is smaller than most equipment that the department currently has so it is ideal for those little jobs that require lots of labor. The department currently rents this type of equipment when needed but one can readily see that over a few years they could own one for what they have invested in renting one. The equipment can more efficiently do the labor intensive work like moving dirt/mulch, trenching, tilling, snow removal, etc. Again, it is capable of working in tighter areas than the larger equipment will. Additionally, a wide variety of attachments can be purchased to increase the functionality of the equipment. The anticipated life cycle for a unit like this in park setting is expected to be around 12-14 years or 3,000 hours.

**Justification:** This unit will allow the department to avoid escalating rental costs and allow labor intensive work to be completed more efficiently.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$35,000	-	\$35,000	-	-	-

## 4-DOOR PASSENGER CAR

**Fund:** Capital

**Department:** Administration

**Project Cost:** \$25,650 | **Outside Funding:** \$-0- | **City Cost:** \$25,650

**Description:** The funds will be used to replace a 2011 Chevy Impala. This vehicle is used daily by staff in the Park Administration Division for picking up daily deposits from Progress Park, Splash Station, and Peruque Valley Park. The vehicle is also used by various other staff in the Parks and Recreation Department for running errands or conducting various other businesses in the area. The anticipated life cycle of a new unit is expected to be 10 years or 100,000 miles.

**Justification:** This vehicle was transferred from the Police Department in 2019 to ensure that certain administrative staff was no longer needing to utilize their personal vehicles for conducting City business. Because this vehicle was kept in the fleet after its expected lifespan, the replacement has been rescheduled earlier within the five-year program.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$25,650	-	\$25,650	-	-	-

## ARTICULATING SLOPE MOWER

**Fund:** Capital

**Department:** Horticulture & Forrestry

**Project Cost:** \$25,000 | **Outside Funding:** \$-0- | **City Cost:** \$25,000

**Description and Justification:** Funds will be used to replace a 2016Stiener 440 articulating slope mower under a scheduled replacement program. With the addition of Splash Station, Heartland Park and Peruque Park, the City has added a substantial amount of area where staff has to be able to mow slopes of twenty-five degrees or more. Currently Splash Station and Heartland have slopes that are 30 degrees and it takes a specialty mower to mow over 22 degrees.

**Anticipated Benefit to the City:** This is a replacement unit and staff is proposing to replace it with a similar piece of equipment. Staff has not experienced any adverse conditions or safety issue since adding this system to the fleet and this equipment has proven to be very diverse in how it can be used.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$25,000	-	\$25,000	-	-	-



# UTILITY VEHICLE

**Fund:** Capital

**Department:** Horticulture & Forrestry

**Project Cost:** \$11,000 | **Outside Funding:** \$-0- | **City Cost:** \$11,000

**Description:** Funds will be used to purchase a utility vehicle comparable to a John Deere HPX Gator utility vehicle as part of a scheduled replacement program. The HPX Gator is the mid-level “standard” unit with a 32HP/4-cycle engine, 4X4 drive train, 1,500lb towing capacity and 800lb payload capacity. The HPX gators are used on a daily basis by Park Operations staff in a variety of roles from trash cleanup, general transportation and hauling materials/tools around the jobsite.

**Justification:** These utility vehicles will replace machines that have exceeded its expected useful life that is in need of replacement to avoid escalating maintenance costs and parts that are increasingly hard to obtain due to the age of the unit.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$11,000	-	\$11,000	-	-	-

# 3/4-TON 4X4 PICKUP TRUCK

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$30,150 | **Outside Funding:** \$-0- | **City Cost:** \$30,150

**Description and Justification:** In the Park Operations Division, the funds will be used to purchase a replacement truck for the Horticulture & Forestry Unit. The truck is replacing outgoing truck #802 which is 2003 Chevy 2500HD Truck - 3/4-Ton 4X4 pickup with an extended cab and snow package. This vehicle is currently sixteen (16) years old and has 49,805 miles on it. The unit is currently used in a variety of roles in the department including being used to pull equipment trailers, haul materials/supplies to/from jobsites and to handle general transportation needs. The replacement vehicle will be outfitted as a 3/4-Ton 4x4 pickup truck with a standard cab. The anticipated life cycle of a new unit in this category is expected to be 10 years or 100,000 miles. Snow plow and salt spreaders will not be included with the purchase of any of these vehicles and, if needed, will be the responsibility of the Street department’s budget.

3/4-TON 4X4 PICKUP TRUCK WITH STANDARD CAB					
FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$30,150	-	-	\$30,150	-	-

# 1/2-TON 4X4 EXTENDED CAB PICKUP TRUCK

**Fund:** Capital

**Department:** Recreation

**Project Cost:** \$27,150 | **Outside Funding:** \$-0- | **City Cost:** \$27,150

**Description:** Funds will be used to replace a 2006 Chevy Colorado pickup with and extended cab. This vehicle was transferred from Public Works in 2018 and has 55,528 miles on it. This vehicle is used in daily Recreation Division for hauling materials, supplies and equipment to and from various parks. A pickup truck is necessary for hauling concession items and sport-related equipment throughout the year. The anticipated life cycle of a new unit is expected to be 10 years or 100,000 miles. Because this vehicle was kept in the fleet after its expected lifespan, replacement will be scheduled within the five year plan.

**Justification:** This is a straight forward vehicle replacement scheduled to avoid escalating maintenance costs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$27,150	-	-	\$27,150	-	-

# DEEP TINE AERATOR

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$18,000 | **Outside Funding:** \$-0- | **City Cost:** \$18,000

**Description and Justification:** ProCore SR54 deep tine 10.75" aerator to be used on athletic fields for deep de-compaction.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$18,000	-	-	\$18,000	-	-



# LED INFORMATIONAL SIGN

**Fund:** Capital

**Department:** Maintenance

**Project Cost:** \$17,000 | **Outside Funding:** \$-0- | **City Cost:** \$17,000

**Description and Justification:** Funds will be utilized to purchase two mobile LED informational signs for the Park and Recreation Department. The unit currently in use was passed down from the Street Division and needs 10 of the 24 display panels replaced along with new batteries. The Department inherited two of these informational signs and was able to salvage one working sign by using parts from the other. As this sign continues to age so does the technology and replacement parts are becoming more costly. Over time it is going to be more cost effective to replace the older signs and convert to the newer LED technology. The estimated cost is in line with a recent purchase of a new sign made by the Street Division.

**Anticipated Benefit:** The sign will be used for marketing and information sharing purposes to notify residents of upcoming programs/events taking place as well as a means for communicating road closures when they are going to occur.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$17,000	-	-	\$17,000	-	-

# SPRAYER

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$15,000 | **Outside Funding:** \$-0- | **City Cost:** \$15,000

**Description and Justification:** This L.T. Rich Z-Max sprayer will be used for applying liquid and granular fertilization, spraying pre- and post-emergent chemical applications and performing aeration and slit seeding in small areas. This equipment will further increase our efficiency in implementing the lawn care program. Currently the only means of performing these types of applications is with a walk-behind spreader and hand held sprayers. Staff maintains 60+ acres of irrigated turf and walks the most of that to make the necessary applications. The Z-Max carries 50 gallons of liquid and a total of 300 lbs. of fertilizer. With a 4.0 GPM pump and a 60" boom, the Z-Max can spray from 1/4 gallon up to the 1.5 gallons per 1,000 square feet which allows for up to 150,000 square feet of coverage without refilling. This contrasts with the typical granular applicator which hold 50lbs or the five gallon hand held pump sprayer. Typical life span for a mower like this in park setting is about 2,000 hours.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$15,000	-	-	\$15,000	-	-

# 60" ZERO-TURN MOWER

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$10,500 | **Outside Funding:** \$-0- | **City Cost:** \$10,500

**Description and Justification:** Funds will be used to purchase a replacement 60" zero-turn mower for the Horticulture and Forestry Division. The unit being replaced is a 61" Scag Cheetah purchased in 2016. This zero turn unit has a 60" wide mowing deck which is ideal for park related mowing and is used daily during the mowing season to mow parks and public areas in the park system. This unit will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs. The anticipated life cycle for a mower like this in park setting is expected to be around 8 years or 1,800 hours.

**Anticipated Benefit:** The City will see increased productivity.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$10,500	-	-	\$10,500	-	-

# 16' EQUIPMENT TRAILER

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$8,050 | **Outside Funding:** \$-0- | **City Cost:** \$8,050

**Description and Justification:** Funds will be used to purchase a replacement medium duty equipment trailer for use in the Horticulture and Forestry Division. This unit is used on a daily basis by the Horticulture & Forestry crew for transportation and hauling materials/equipment/tools to and from job sites within the parks. This unit is expected to have a lifecycle of 20 years.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$8,050	-	-	\$8,050	-	-

# 72" ZERO-TURN MOWERS

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$36,000 | **Outside Funding:** \$-0- | **City Cost:** \$36,000

**Description and Justification:** Funds will be used to purchase three replacement 72" zero-turn mowers for the Horticulture and Forestry Division. The units being replaced are 72" Scag Cheetah zero turn mowers. This unit has a 72" wide mowing deck which is ideal for park related mowing and is used daily during the mowing season to mow parks and public areas in the park system. This unit will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs.

**Anticipated Benefit:** The City will continue to see increased productivity.

FUNDING SCHEDULE					
Total	2021	2022	2023 (2)	2024	2025
\$36,000	-	-	\$24,000	\$12,000	-

# Z-TRAC MID-MOUNT MOWERS

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$37,000 | **Outside Funding:** \$-0- | **City Cost:** \$37,000

**Description and Justification:** Funds will be used to purchase replacement zero turn mowers for two John Deere 997 Z-Trac mowers that were bought in 2010. These zero turn units have a 6' wide mowing deck which is ideal for park related mowing and is used daily during the mowing season to mow parks and public areas in the park system. This unit will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs. The anticipated life cycle for a mower like this in park setting is expected to be around 5-7 years or 1,800 hours.

**Anticipated Benefit:** The City will continue to see increased productivity.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$37,000	-	-	\$18,500	\$18,500	-

# MINI EXCAVATOR

**Fund:** Capital

**Department:** Maintenance

**Project Cost:** \$65,000 | **Outside Funding:** \$-0- | **City Cost:** \$65,000

**Description:** Funds will be used to purchase a new or used mini excavator with at least a 30HP engine and auxiliary hydraulics to accommodate a thumb. Currently, the Park Operations Division rents equipment this nature when absolutely necessary. There are many times that the staff will improvise rather than rent and work is completed much less efficiently than could be done with a piece of equipment like this. A new/used CAT 303.5CR/John Deere 50G/Kubota KX040 mini excavator or another equivalent unit would meet most of our needs and would ensure all jobs are done as efficiently/safely as possible.

**Justification:** This equipment is will allow staff to more efficiently, and safely, perform work that they are doing on a regular basis. The current practice of borrowing equipment from the Water/Sewer Divisions leave them without equipment for some period of time or, in the case of an emergency, would leave the Park Operations Division with the resources to complete their work.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$65,000	-	-	-	\$65,000	-



# SKID LOADER

**Fund:** Capital

**Department:** Horticulture & Forrestry

**Project Cost:** \$65,000 | **Outside Funding:** \$-0- | **City Cost:** \$65,000

**Description and Justification:** Funds will be used to purchase a replacement Skid Loader for the Park Operations Division. The division uses the unit for various construction/maintenance related functions. The skid loader is utilized in nearly 75% of the Parks projects and is subject to a great deal of wear and tear because of the nature of the work it is required to do. This equipment is largely used for grading ballfields or pad sites, planting trees, sod installations, stump grinding, loading of bulk materials, etc. This equipment is easily the most used piece of equipment in the division other than trucks/gators and it is recommended that additional attachments be purchased to expand the versatility of the equipment to the staff. It is a generally accepted practice in the industry to replace a unit of this nature when it gets around 2,400 hours on it because the cost of maintenance increases significantly around that point.

The anticipated life cycle for a mower like this in park setting is expected to be around 5-7 years or 2,500 hours.

**Justification:** This unit will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs. This unit will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$65,000	-	-	-	\$65,000	-

# PROGATOR UTILITY VEHICLE

**Fund:** Capital

**Department:** Horticulture & Forrestry

**Project Cost:** \$25,000 | **Outside Funding:** \$-0- | **City Cost:** \$25,000

**Description:** Funds will be used to purchase a John Deere ProGator 2020A utility vehicle as part of a scheduled replacement program. The 2020A ProGator is the mid-level unit with a 34HP/4-cylinder liquid cooled engine, 4X2 drive train, 2,000lb towing capacity and 5,400lb payload capacity.

The John Deere ProGator's are a heavy duty utility cart that is used on a daily basis by staff in the Park Operations Division for transportation and hauling of bulk material such as sod, gravel, soil amendments and turf. These units also have the capability to replace the standard dump bed and replace it with various attachments for sweeping, topdressing, spraying, etc., in areas that a full-size truck is unable to.

The expected useful lifetime of this machine is 8 years / 2500 hours.

**Justification:** The unit will replace machines that have exceeded its expected useful life that is in need of replacement to avoid escalating maintenance costs and parts that are increasingly hard to obtain due to the age of the unit.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$25,000	-	-	-	\$25,000	-

# ONE-TON PICKUP TRUCK WITH EXTENDED CAB

**Fund:** Capital

**Department:** Maintenance

**Project Cost:** \$58,150 | **Outside Funding:** \$-0- | **City Cost:** \$58,150

**Description:** Funds will be used to purchase a 4x4 one-ton crew cab pickup truck with a standard bed for the Park Facility Maintenance staff. This vehicle is used in daily Park Maintenance operations for hauling materials/equipment and pulling trailers/equipment to and from job sites. The work unit routinely hauls various power and hand tools, ladders, generators, compressors, and other construction related equipment. There are, often, times when the demands of the job site require additional/different equipment and it may require additional trips to the shop. Snow plow and salt spreader packages will not be included with this vehicle and will be the responsibility of the street department budget, if or when that equipment is needed. The anticipated life cycle of the new unit is expected to be 10 years or 100,000 miles.

**Justification:** This vehicle will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$58,150	-	-	-	-	\$58,150

# UTILITY TRACTOR

**Fund:** Capital

**Department:** Horticulture & Forrestry

**Project Cost:** \$30,000 | **Outside Funding:** \$-0- | **City Cost:** \$30,000

**Description:** Funds will be used to purchase a replacement 80HP John Deere 4x4 compact utility tractor with turf tires for the Park Horticulture and Forestry staff. This unit is used by the Horticulture & Parks staff in the execution of the turf maintenance program. It pulls seeders, fertilizing attachments, aerators, top dressers and turf vac equipment. The anticipated life cycle of the new unit is expected to be 20 years or 5,000 hours.

**Justification:** This vehicle will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs and parts are hard to obtain due to the age of the unit.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$30,000	-	-	-	-	\$30,000



# AIR COMPRESSOR

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$28,000 | **Outside Funding:** \$-0- | **City Cost:** \$28,000

**Description:** Funds will be used to purchase a quality used pull behind air compressor.

**Justification:** This unit is used to blow down irrigation systems as part of our annual winterization process and to use jackhammers or other pneumatic tools in inventory. The expected useful lifetime of this machine is 20 years.

FUNDING SCHEDULE					
Total \$28,000	2021	2022	2023	2024	2025
	-	-	-	-	\$28,000

# TURF SPRAYER

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$15,000 | **Outside Funding:** \$-0- | **City Cost:** \$15,000

**Description:** Funds will be used to purchase a replacement John Deere HD 200 turf sprayer.

**Justification:** This sprayer is an attachment for a John Deere ProGator 2020 which is ideal for park related spraying for weeds on athletic fields, landscape beds, and surrounds during the growing season. It is used to apply pre-emergents and post-emergents in a very controlled manner. The anticipated life cycle for a mower like this in park setting is expected to be around 10 years.

FUNDING SCHEDULE					
Total \$15,000	2021	2022	2023	2024	2025
	-	-	-	-	\$15,000

# BUNKER RAKE/GROOMER

**Fund:** Capital

**Department:** Horticulture & Forestry

**Project Cost:** \$13,000 | **Outside Funding:** \$-0- | **City Cost:** \$13,000

**Description:** Funds will be used to purchase a replacement for the John Deere 1200A bunker rake/groomer. This unit is used to drag the infields of all ballfields in the park system. The expected useful lifetime of this machine is 10 years or 2,000 hours.

**Justification:** This unit will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs and parts are increasingly hard to obtain due to the age of the unit.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$13,000	-	-	-	-	\$13,000

# HOLIDAY LIGHTS DISPLAY

**Fund:** Capital  
**Department:** Recreation  
**Location:** Rotary Park

**Project Cost:** \$83,000 | **Outside Funding:** \$-0- | **City Cost:** \$83,000

**Description:** Funds used to purchase new animated displays for the holiday lights special event at Rotary Park.

**Justification:** Staff is looking to rejuvenate the Holiday Night Lights display event by starting to add a new component/display each year. The event has stagnated and has been exactly the same for a number of years and people have not been willing to revisit it year after year. By changing the layout and adding a new component each year it should be possible to make this an annual event that families visit each year.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$83,000	\$16,000	\$16,500	\$16,500	\$17,000	\$17,000

**Public Works**

# PUBLIC WORKS

PROJECT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
PW – Stormwater	Downtown Stormwater Infrastructure Replacement	100,000	-	-	-	-	100,000
PW – Facility Op.	UVC Disinfection Retrofit for HVAC Systems	50,000	-	-	-	-	50,000
PW – Facility Op.	Flooring/Front Office Refurbish	15,000	-	-	-	-	15,000
PW – Admin	First Responder Memorial	-	10,260	-	-	-	10,260
PW – Admin	Public Works Facility	-	-	-	9,000,000	-	9,000,000
PW – Engineering	Demolition/Repurpose – 310 W. Pearce Blvd.	-	-	-	18,000	182,000	200,000
PW – Engineering	I-70 Landscaping Replacement and Renovation	-	-	-	5,000	75,000	80,000
PW – Facility Op.	Public Works Yard Facility Renovation	-	-	-	5,000	50,000	55,000
PW – Admin	General Land Acquisition	400,000	400,000	400,000	400,000	400,000	2,000,000
PW – Stormwater	Stormwater Maintenance Reserve	100,000	125,000	125,000	150,000	150,000	650,000
<b>TOTAL</b>		<b>665,000</b>	<b>535,260</b>	<b>525,000</b>	<b>9,578,000</b>	<b>857,000</b>	<b>12,160,260</b>

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
PW – Street Sign.	One-Ton Dump Truck w/Plow and Spreader	94,000	-	-	-	-	94,000
PW – Stormwater	Skid-Steer Loader	70,000	-	-	-	-	70,000
PW – Street Sign.	Mud-Jack Machine	30,000	-	-	-	-	30,000
PW – Facility Op.	Bed Salt Spreader	5,500	5,500	-	-	-	11,000
PW – Eng./Stwtr.	1/2-Ton 4X4 Pickup Truck	105,000	-	35,000	-	-	140,000
PW – Admin	Colorado Crew Cab 4x4	-	-	-	35,000	-	35,000
PW – Facility Op.	Compact SUV	-	-	-	26,000	-	26,000
PW – Facility Op.	HVAC Maintenance Van	-	41,000	-	-	-	41,000
PW – Street Sign.	Concrete Saw	-	34,000	-	-	-	34,000

# PUBLIC WORKS

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
PW – Street Sign.	Hydraulic Concrete Breaker	-	13,000	-	-	-	13,000
PW – Street Sign.	High Lift Track Loader	-	-	250,000	-	-	250,000
PW – Stwtr./Strts.	Equipment Trailer (2)	-	-	16,000	-	-	16,000
PW – Street Sign.	Vac-con Trailer	-	-	-	150,000	-	150,000
PW – Fleet	Hydraulic Crimping Machine	-	-	-	10,000	-	10,000
PW – Facility Op.	Utility Trailer	-	-	-	7,000	-	7,000
PW – Admin	Multi-Purpose Standby Generator	-	-	-	-	125,000	125,000
PW – Street Sign.	Vibratory Roller	-	-	-	-	60,000	60,000
PW – Street Sign.	Temporary Traffic Signal	-	-	-	-	60,000	60,000
PW – Fleet	One-Ton Service Truck	-	-	-	-	55,000	55,000
<b>TOTAL</b>		304,500	93,500	301,000	228,000	300,000	1,227,000

TOTAL PROJECTS AND EQUIPMENT						
	2021	2022	2023	2024	2025	Five Year Total
TOTAL	969,500	628,760	826,000	9,806,000	1,157,000	13,387,260

FUNDING SOURCE						
Source	2021	2022	2023	2024	2025	Total
Capital Fund	869,500	628,760	826,000	806,000	1,157,000	4,287,260
Stormwater Maintenance Reserve	100,000	-	-	-	-	100,000
<b>Unallocated Funding</b>	-	-	-	9,000,000	-	9,000,000
<b>TOTAL</b>	969,500	628,760	826,000	9,806,000	1,157,000	13,387,260

# DOWNTOWN STORMWATER INFRASTRUCTURE REPLACEMENTS

**Fund:** Capital

**Department:** Public Works – Stormwater

**Location:** Downtown

**Project Cost:** \$100,000 | **Outside Funding:** \$-0- | **City Cost:** \$100,000  
Stormwater Maintenance Reserve - \$100,000

**Description and Justification:** Project will provide replacement and rehabilitation to failing/aged stormwater infrastructure (corrugated metal pipes, inlets, etc.) along Pearce Blvd. and downtown areas between Schroeder Creek Blvd. and Luetkenhaus Blvd. Repair and replacement needs to be identified and prioritized through downtown revitalization projects, utility replacement and condition assessments. Improvements are necessary to replace or line pipe that has rusted or deteriorated beyond its physical form and function.

**Anticipated Benefit:** The project will improve safety for motorists, improve life expectancy of adjacent critical infrastructure (streets and utility lines), reduced emergency repairs and improve functionality of the stormwater system.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$100,000	\$100,000	-	-	-	-



# UVC DISINFECTION RETROFIT FOR HVAC SYSTEMS

**Fund:** Capital

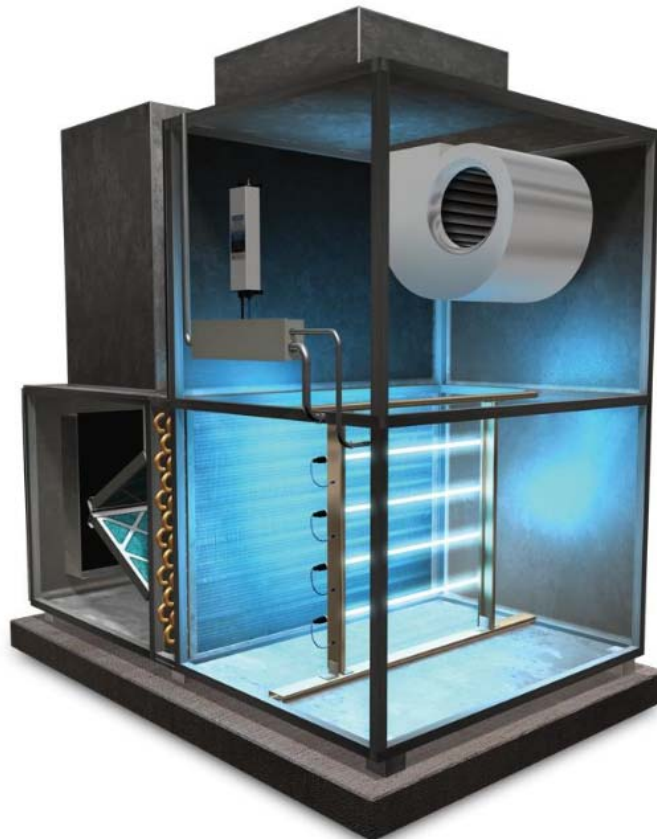
**Department:** Public Works – Facility Operations

**Location:** City Hall, Law Enforcement Center, Public Works, Wastewater Treatment Plant

**Project Cost:** \$50,000 | **Outside Funding:** \$-0- | **City Cost:** \$50,000

**Description and Justification:** Retrofit the City Hall, Law Enforcement Center, Public Works and Wastewater Treatment Plant HVAC systems for disinfection with UVC lights.

**Anticipated Benefit:** Continuous disinfection of forced air introduced into office and work spaces in response to COVID-19 and seasonal flu.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$50,000	\$50,000	-	-	-	-



# FLOORING/FRONT OFFICE REFURBISH

**Fund:** Capital

**Department:** Public Works – Facility Operations

**Location:** 200 E. Fourth St.

**Project Cost:** \$15,000 | **Outside Funding:** \$-0- | **City Cost:** \$15,000

**Description and Justification:** Flooring and interior partitions are in need of replacement/refurbishment to efficiently utilize the operations main floor. All existing desks in the front office area have been removed by Wastewater Operations and the front office layout and surface finishes including ceiling, walls, window treatments and flooring are in great need of updating. All labor will be provided by in-house Facility Operations staff.

**Anticipated Benefit:** Renovation of the main floor front office space frees the top floor for expanded use by Water Division staff. This arrangement for utilization of space will promote improved separation and distancing of essential Public Works employees and will increase efficiency of operations for Water, Street, and Facility Operations workers.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$15,000	\$15,000	-	-	-	-

# FIRST RESPONDER MEMORIAL

**Fund:** Capital

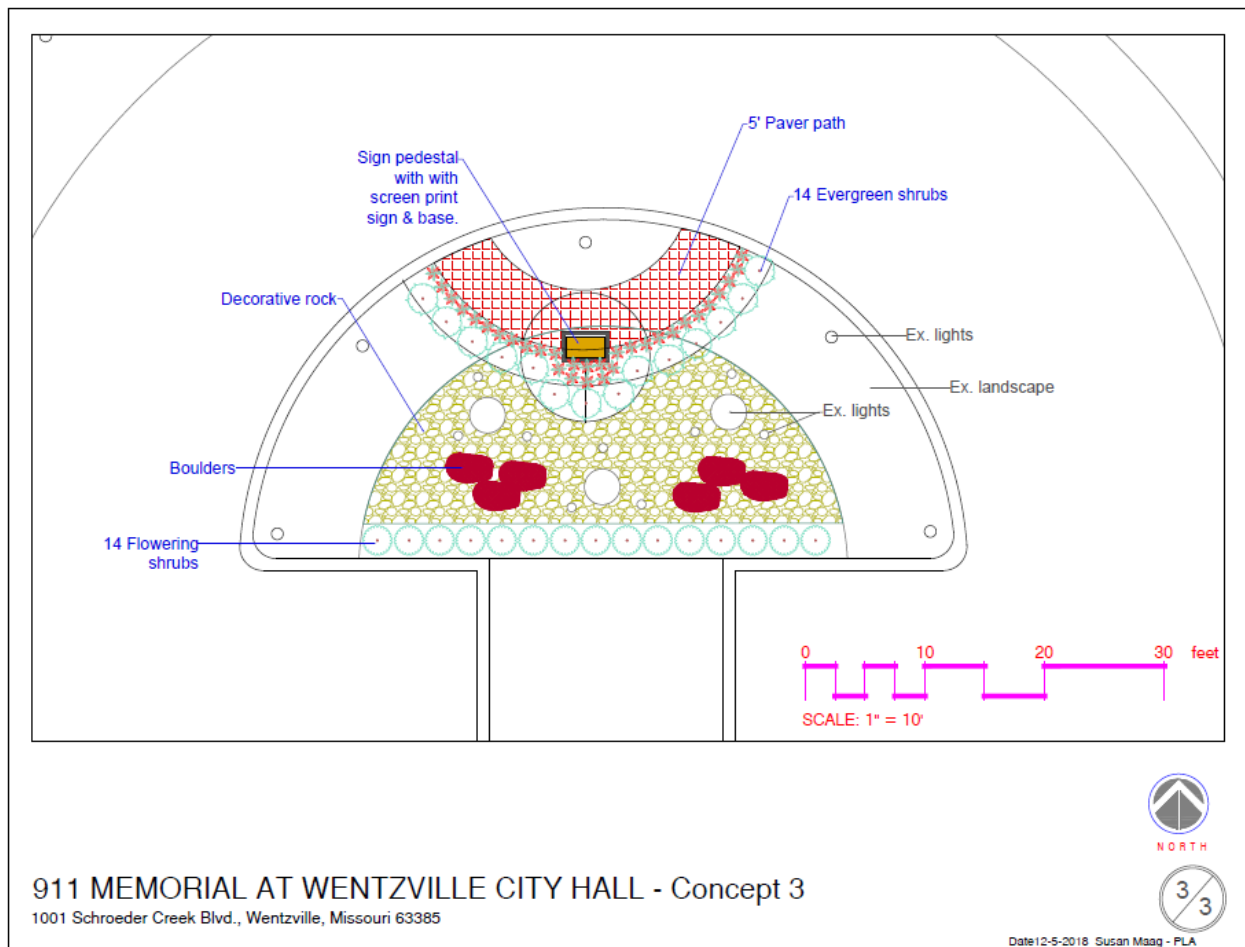
**Department:** Public Works – Administration

**Location:** City Hall

**Project Cost:** \$10,260 | **Outside Funding:** \$-0- | **City Cost:** \$10,260

**Description and Justification:** Per the Board of Aldermen direction to budget for First Responder Memorial at City Hall.

**Anticipated Benefit:** Community engagement, community building, beautification and public service recognition.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$10,260	-	\$10,260	-	-	-



# DEMOLITION/REPURPOSE – 310 W. PEARCE BLVD.

**Fund:** Capital

**Department:** Public Works – Engineering

**Location:** 310 W. Pearce Blvd.

**Project Cost:** \$200,000 | **Outside Funding:** \$-0- | **City Cost:** \$200,000

**Description and Justification:** The building at 310 W. Pearce is in need of major renovation to bring it into compliance with ADA regulations. The exterior roof is in need of replacement and the interior space is very chopped up making it an inefficient space for retail, commercial or office space use. The building is located at a focal entry point of the Historic Downtown and the road system at this location needs to be adjusted to permit full turning movement utilization. It is, therefore, recommended that this building be demolished and the site be re-graded to allow for the road system be realigned to make better pedestrian and vehicular use, attract visitors and beautify the entrance to the City's Historic Downtown.

**Anticipated Benefit:** The demolition will open the door to a completely different pedestrian and vehicular traffic pattern and will establish an opportunity to construct a completely new visitor friendly entry space into the Wentzville Historic Downtown area.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$200,000	-	-	-	\$18,000	\$182,000



# I-70 LANDSCAPING REPLACEMENT AND RENOVATION

**Fund:** Capital

**Department:** Public Works – Engineering

**Location:** I-70 at Wentzville Parkway

**Project Cost:** \$80,000 | **Outside Funding:** \$-0- | **City Cost:** \$80,000

**Description and Justification:** The funds will be utilized for slope stabilization repair and replacement of the I-70 landscaping along the Wentzville Parkway Interchange.

**Anticipated Benefit:** The landscaping improvements at this interchange have reached maturity and the appearance has become overgrown. Erosion of the slope has occurred in some locations and the irrigation system has become exposed. Contracted removal of some of the landscaping would allow for repair of the eroded slopes and replanting of more manageable landscaping with an improved appearance.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$80,000	-	-	-	\$5,000	\$75,000

# PUBLIC WORKS YARD FACILITY RENOVATION

**Fund:** Capital

**Department:** Public Works – Facility Operations

**Location:** I-70 at Wentzville Parkway

**Project Cost:** \$55,000 | **Outside Funding:** \$-0- | **City Cost:** \$55,000

**Description and Justification:** The funds will be utilized for renovation of the salt storage wall and other emerging building capital needs at the Public Works yard and facility.

**Anticipated Benefit:** Renovation of this facility is essential to retain covered storage spaced for citywide co-op purposes as well as for ongoing facility, water and wastewater operations.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$55,000	-	-	-	\$5,000	\$50,000

# GENERAL LAND ACQUISITION

**Fund:** Capital

**Department:** Citywide

**Location:** TBD

**Project Cost:** \$2,000,000 | **Outside Funding:** \$-0- | **City Cost:** \$2,000,000

**Description and Justification:** These funds will be earmarked to allow for future land acquisitions for parks, City facilities, development or any other public purpose. 2017, 2018 and 2019 funds were used to acquire land for the new Public Works Facility. Design is underway in 2020 and construction is partially funded for an initial phase beginning in 2021.

**Anticipated Benefit:** This funding would be used to reserve funds for any future acquisition of land for public purpose when the opportunity arises. Reserving these funds for future use allows the City to proactively pursue lands that have been identified and to respond to unexpected opportunities that may arise.

FUNDING SCHEDULE						
Total	BALANCE	2021	2022	2023	2024	2025
\$2,000,000	\$61,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000



# STORMWATER MAINTENANCE RESERVE

**Fund:** Capital  
**Department:** Public Works – Stormwater  
**Location:** Citywide

**Project Cost:** \$650,000 | **Outside Funding:** \$-0- | **City Cost:** \$650,000

**Description and Justification:** Unlike most municipal counterparts, the City does not have a dedicated revenue source or maintenance reserve to meet the needs of operating, maintaining and improving an aged stormwater system. Without dedicated revenue, the scope or scale of work undertaken on the stormwater system is limited to small reactive projects rather than proactive maintenance. With an aged infrastructure system such as in Historic Downtown, the City needs to establish reserve funds such as in water, wastewater and transportation funds to ensure funds are available for repair or improvements to the system in the future. The stormwater reserve could be utilized for inspection and repair of aging infrastructure, large scale replacement and maintenance, creation of and updates to a master plan, as well as Board approved stormwater improvement projects.

**Anticipated Benefit:** Compliance with federal regulations, preservation of the existing system, reduced emergency repairs, improved functionality of the system and ability to develop capital improvements.

FUNDING SCHEDULE						
Total	BALANCE	2021	2022	2023	2024	2025
\$650,000	\$400,000	\$100,000	\$125,000	\$125,000	\$150,000	\$150,000

# ONE-TON DUMP TRUCK WITH PLOW AND SPREADER

**Fund:** Capital

**Department:** Public Works – Streets and Signals

**Location:** Street Division

**Project Cost:** \$94,000 | **Outside Funding:** \$-0- | **City Cost:** \$94,000

**Description and Justification:** Purchase of a one-ton dump truck with plow and spreader. Replacement trucks (#308, #316 and #317) for outdated models with high maintenance costs due to age and use.

**Anticipated Benefit:** Increase reliability, reduce repair and maintenance costs, and improve fuel economy.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$94,000	\$94,000	-	-	-	-

# SKID-STEER LOADER

**Fund:** Capital

**Department:** Public Works – Stormwater

**Project Cost:** \$70,000 | **Outside Funding:** \$-0- | **City Cost:** \$70,000

**Description and Justification:** Replace an outdated 2015 model of similar nature that exhibits considerable wear and tear. This skid-steer loader will be on a five-year replacement cycle as it is the work horse of small equipment for stormwater infrastructure maintenance and provides backup for streets, facilities, and other utility maintenance. In addition to standard loading, dumping and material moving, this equipment attaches to and runs numerous attachments used for different situations of street and stormwater work. These attachments exert enormous pressures/vibrations on the loader.

**Anticipated Benefit:** Reliability, reduction in repair and maintenance costs and improved capacity to perform in-house repairs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$70,000	\$70,000	-	-	-	-

# MUD JACK MACHINE

**Fund:** Capital

**Department:** Public Works – Streets & Signals

**Project Cost:** \$30,000 | **Outside Funding:** \$-0- | **City Cost:** \$30,000

**Description and Justification:** Funds will be utilized to purchase a trailer-mounted mud pump machine with mixer and hopper to hold material. The machine will be used to pump grout mixture under slabs to remove lips and trip hazards without the expense of removing and replacing the slabs.

**Anticipated Benefit:** This machine will speed up sidewalk repairs while also shortening response and closure times. It will also level slabs and restore safety at fraction of the cost to remove and replace panels. The work is completed with less manpower than replacement.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$30,000	\$30,000	-	-	-	-

# BED SALT SPREADER

**Fund:** Capital

**Department:** Public Works – Facility Operations

**Project Cost:** \$11,000 | **Outside Funding:** \$-0- | **City Cost:** \$11,000

**Description and Justification:** Funds will be utilized to replace the current gas powered bed spreaders. These spreaders will reduce the amount of down time due to repairs on the current spreaders and will also save money due to no longer needing fuel as they are all electric.

**Anticipated Benefit:** The spreaders will create less down time due to repairs and lower operational costs due to the new electric spreaders versus the old gas powered spreaders.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$11,000	\$5,500	\$5,500	-	-	-

# VEHICLES

**Fund:** Capital

**Department:** Public Works – Stormwater, Engineering, Streets and Signals, Fleet, Facility Operations

**Location:** Public Works – Stormwater, Engineering, Streets and Signals, Fleet, Facility Operations

**Description and Justification:** Purchase of replacement vehicles due to age, mileage and ongoing maintenance costs. Replacement will improve reliability, safety and reduce the likelihood of repairs exceeding the vehicles' value.

**Anticipated Benefit:** Reliability, reduction in repair and maintenance costs, and improved fuel economy.

<b>½-TON 4x4 PICKUP TRUCK (Engineering and Stormwater)</b>					
<b>FUNDING SCHEDULE</b>					
Total	2021 (3)	2022	2023	2024	2025
\$140,000	\$105,000*	-	\$35,000**	-	-
*Includes two trucks for Engineering and one truck for Stormwater					
**Truck for Engineering					

<b>COLORADO CREW CAB 4x4 (Administration)</b>					
<b>FUNDING SCHEDULE</b>					
Total	2021	2022	2023	2024	2025
\$35,000	-	-	-	\$35,000	-

<b>COMPACT SUV (Facility Operations)</b>					
<b>FUNDING SCHEDULE</b>					
Total	2021	2022	2023	2024	2025
\$26,000	-	-	-	\$26,000	-

# HVAC MAINTENANCE VAN

**Fund:** Capital

**Department:** Public Works – Facility Operations

**Project Cost:** \$41,000 | **Outside Funding:** \$-0- | **City Cost:** \$41,000

**Description and Justification:** This van will replace a 2008 3/4-ton pickup with a vehicle better suited for the maintenance of HVAC equipment. The extra enclosed storage capacity will allow secure, safe storage of necessary tools as well as pipes and specialized holders for coolant transport.

**Anticipated Benefit:** Provide quicker response times by allowing HVAC tools and supplies to be stored in one location and improve safety by specializing method of transport.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$41,000	-	\$41,000	-	-	-

# CONCRETE SAW

**Fund:** Capital

**Department:** Public Works – Streets & Signals

**Project Cost:** \$34,000 | **Outside Funding:** \$-0- | **City Cost:** \$34,000

**Description and Justification:** This concrete saw will replace an outdated model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by growing maintenance costs due to age and use. The service use this saw is heavy use cutting concrete slabs.

**Anticipated Benefit:** Reliability with a reduction in maintenance and repair cost.

FUNDING SCHEDULE					
Total	2022	2022	2023	2024	2025
\$34,000	-	\$34,000	-	-	-

# HYDRAULIC CONCRETE BREAKER

**Fund:** Capital

**Department:** Public Works – Streets & Signals

**Project Cost:** \$13,000 | **Outside Funding:** \$-0- | **City Cost:** \$13,000

**Description and Justification:** This hydraulic concrete breaker will replace an outdated model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by growing maintenance costs due to age and use. The service use of this breaker is heavy with extreme pressure and vibration.

**Anticipated Benefit:** Reliability with a reduction in maintenance and repair cost.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$13,000	-	\$13,000	-	-	-

# HIGH LIFT TRACK LOADER

**Fund:** Capital

**Department:** Public Works – Streets & Signals

**Project Cost:** \$250,000 | **Outside Funding:** \$-0- | **City Cost:** \$250,000

**Description and Justification:** Replace outdated 2000 model of similar nature that has been in service for many years, exhibits considerable wear and tear and is accompanied by high maintenance costs due to age and use. In addition to standard loading, dumping and material moving, this equipment is mainly used to move and level construction debris at the City fill site.

**Anticipated Benefit:** Reliability, reduction in repair and maintenance costs and improved fuel economy.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$250,000	-	-	\$250,000	-	-

# EQUIPMENT TRAILER

**Fund:** Capital

**Department:** Public Works – Stormwater and Streets and Signals

**Project Cost:** \$16,000 | **Outside Funding:** \$-0- | **City Cost:** \$16,000

**Description and Description:** Purchase of a 17,500 lb. equipment trailer.

*Stormwater:* This equipment trailer will be used to haul the rubber tire skid steer loader (transferred from Streets) and attachments used for different situations of stormwater maintenance. *Streets and Signals:* Purchase of an equipment trailer to be used to haul the skid steer purchased in 2018.

**Anticipated Benefit:** Reduces conflicts for using Street Department's equipment trailer when their skid steer is scheduled for other streets/asphalt projects.

FUNDING SCHEDULE					
Total	2021	2022	2023 (2)	2024	2025
\$16,000	-	-	\$16,000	-	-



# VAC-CON TRAILER

**Fund:** Capital

**Department:** Public Works – Stormwater

**Project Cost:** \$150,000 | **Outside Funding:** \$-0- | **City Cost:** \$150,000

**Description and Justification:** Replace an outdated 2002 model of similar nature that exhibits considerable wear and tear. This Vac-Con trailer will be on a 20-year/or plus replacement cycle as it is the work horse of equipment for stormwater infrastructure maintenance, hydro excavation, industrial vacuum cleaning, and provides backup for wastewater, streets, facilities, and other utility maintenance.

**Anticipated Benefit:** Reliability, reduction in repair and maintenance costs and improved capacity to perform in-house repairs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$150,000	-	-	-	\$150,000	-

# HYDRAULIC CRIMPING MACHINE WITH FITTINGS AND HOSE

**Fund:** Capital

**Department:** Public Works – Fleet

**Project Cost:** \$10,000 | **Outside Funding:** \$-0- | **City Cost:** \$10,000

**Description and Justification:** This equipment would be used to make new hydraulic hoses in house when required and would eliminate excessive down time of vehicles and equipment during emergency events or when outside vendors are closed.

**Anticipated Benefit:** Will improve reliability and reduce the likelihood of down time of vehicles and equipment during critical needs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$10,000	-	-	-	\$10,000	-

# UTILITY TRAILER

**Fund:** Capital

**Department:** Public Works – Facility Operations

**Project Cost:** \$7,000 | **Outside Funding:** \$-0- | **City Cost:** \$7,000

**Description and Justification:** Utility trailer to haul equipment such as the Ventrac for snow removal and the man lift for performing building maintenance between facilities.

**Anticipated Benefit:** Improve efficiency and response time by providing a dedicated trailer for Facility Operations to transport their equipment between locations. A dedicated trailer would also allow it to be more specifically designed for equipment used rather than larger existing trailers intended for heavier equipment.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$7,000	-	-	-	\$7,000	-

# MULTI-PURPOSE STANDBY GENERATOR

**Fund:** Capital

**Department:** Public Works – Administration

**Project Cost:** \$125,000 | **Outside Funding:** \$-0- | **City Cost:** \$125,000

**Description and Justification:** The building at 200 E. 4<sup>th</sup> is in need of a standby generator to support ongoing essential public services.

**Anticipated Benefit:** The availability of a 200 kW standby generator at this location is essential to provide backup power during short duration and extended power outages to ensure continuity of essential operations from this location. It is anticipated this facility will continue to house the water, collections, and facility operations activities and will provide a backup site for continuity of customer related operations even after the initial phase of the new Public Works facility are completed for fleet and street personnel. This generator will be portable to be available as a backup generator for other essential City power needs in the event of a catastrophic event.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$125,000	-	-	-	-	\$125,000

# VIBRATORY ROLLER

**Fund:** Capital

**Department:** Public Works – Streets & Signals

**Project Cost:** \$60,000 | **Outside Funding:** \$-0- | **City Cost:** \$60,000

**Description and Justification:** Funds will be used to replace an outdated 2002 model of similar nature that has been in service for nearly 20 years, exhibits considerable wear and tear and is accompanied by increasing maintenance costs.

**Anticipated Benefit:** A new vibratory roller machine will increase reliability and reduce down time and maintenance costs while improving efficiency of operations.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$60,000	-	-	-	-	\$60,000

# TEMPORARY TRAFFIC SIGNAL

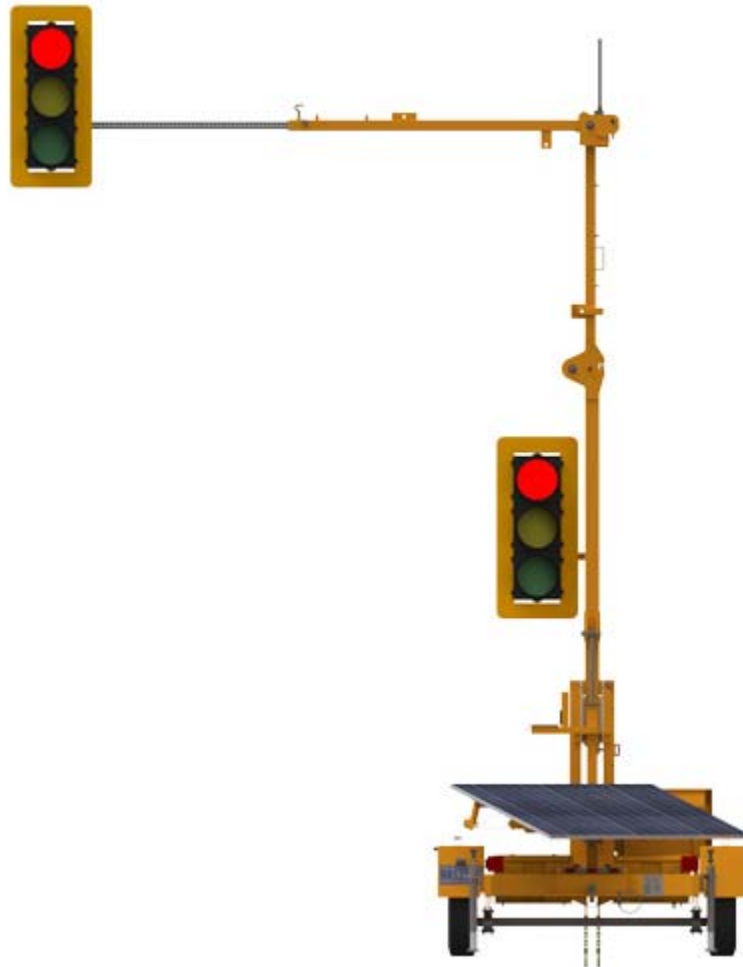
**Fund:** Capital

**Department:** Public Works – Streets & Signals

**Project Cost:** \$60,000 | **Outside Funding:** \$-0- | **City Cost:** \$60,000

**Description and Justification:** Funds will be used to purchase a battery/solar powered traffic signal trailer set to provide for safe and efficient traffic control solution for a variety of short and long term traffic control applications.

**Anticipated Benefit:** The signal will increase crew safety when working on single lane roads and frees up flagmen to increase productivity on the job. The signal will also serve as a backup signal in the case a traffic signal is damaged or knocked down.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$60,000	-	-	-	-	\$60,000

# ONE-TON SERVICE TRUCK

**Fund:** Capital

**Department:** Public Works – Fleet

**Project Cost:** \$55,000 | **Outside Funding:** \$-0- | **City Cost:** \$55,000

**Description and Justification:** Replacement of the 2003 service truck to lower repair costs due to the aging of the current truck and will allow for field repairs.

**Anticipated Benefit:** Reduce the amount of repair costs due to the aging vehicle.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$55,000	-	-	-	-	\$55,000

A thick yellow horizontal bar spans the bottom of the page. A thin yellow diagonal line starts from the right edge of the bar and extends upwards and to the right.

# Transportation

# TRANSPORTATION

PROJECT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Transp. – Admin	West Pearce Blvd. and Meyer Rd. Traffic Signal	622,000	-	-	-	-	622,000
Transp. – Admin	Peine Road Safety Improvements	322,453	200,000	1,977,547	-	-	2,500,000
Transp. – Admin	David Hoekel Parkway Phase 2D	275,000	5,105,000	3,072,000	-	-	8,452,000
Transp. – Admin	West Pearce Blvd. Pavement Rehabilitation	138,202	-	1,261,798	-	-	1,400,000
Transp. – Admin	Highway Z Widening	735,751	310,000	6,954,249	-	-	8,000,000
Transp. – Admin	Highway Z and Interstate Drive Intersection Improvements	382,433	50,000	1,967,566	-	-	2,400,000
Transp. – Admin	Highway Z and Interstate Drive Right Turn Lane	5,000	172,409	-	-	-	177,409
Transp. – Admin	Wentzville Parkway South - Phase I	4,394,033	-	-	-	-	4,394,033
Transp. – Admin	Wentzville Parkway South - Phase II	-	8,597,140	-	-	-	8,597,140
Transp. – Admin	Great Oaks Blvd. Turn Lane	300,000	-	-	-	-	300,000
Transp. – Admin	Great Oaks Blvd. Extension	-	120,000	2,000,000	-	-	2,120,000
Transp. – Admin	Historic Downtown Revitalization	-	1,000,000	1,000,000	1,000,000	-	3,000,000
Transp. – Admin	Highway 61 Outer Road – Phase 2A – Parkway Turn Lane	-	-	65,043	2,234,957	-	2,300,000
Transp. – Admin	Wentzville Parkway Sidewalk	-	-	-	620,000	-	620,000
Transp.–Streets	Fiber Optic Connection	-	-	-	35,000	-	35,000
Transp. – Admin	Railroad Quiet Zone	-	-	-	70,000	600,000	670,000
Transp. – Admin	Mexico Road Safety Improvements	-	-	-	-	3,000,000	3,000,000
Transp.–Streets	Contracted Street and Sidewalk Maintenance	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
<b>Transportation Funded Equipment:</b>							
Transp.–Streets	Single-Axle Dump Truck w/Plow and Spreader	165,000	170,000	-	170,000	-	505,000
Transp.–Streets	Tandem-Axle Dump Truck w/Plow and Spreader	190,000	-	200,000	-	-	390,000
Transp.–Streets	Backhoe	-	140,000	-	-	-	140,000
Transp. – Streets	Single-Axle Asphalt Patch Truck	-	-	-	-	160,000	160,000
<b>TOTAL</b>		10,529,872	18,864,549	21,498,204	7,129,957	6,760,000	64,782,582



# TRANSPORTATION

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Transp. – Streets	Crack-Sealer Machine	60,000	-	-	-	-	60,000
Transp. – Streets	ROW Brush Hog	25,000	-	-	-	-	25,000
Transp. – Streets	LED Information Sign	18,000	18,500	-	-	-	36,500
Transp. – Streets	Tractor with ROW Mowing Arm	-	-	155,000	-	-	155,000
Transp. – Streets	Track Skid Loader	-	-	70,000	-	-	70,000
Transp. – Streets	Skid Steer Loader	-	-	-	70,000	-	70,000
Transp. – Streets	Traffic Signal Detection Camera	30,000	30,000	30,000	30,000	30,000	150,000
TOTAL		133,000	48,500	255,000	100,000	30,000	566,500

TOTAL PROJECTS AND EQUIPMENT						
	2021	2022	2023	2024	2025	Five Year Total
TOTAL	10,662,872	18,913,049	21,753,204	7,229,957	6,790,000	65,349,082

FUNDING SOURCE						
Source	2020	2021	2022	2023	2024	Total
Capital Fund	133,000	48,500	255,000	100,000	30,000	566,500
Transportation Fund	5,493,840	7,218,910	7,901,474	4,622,496	4,110,000	29,346,720
St. Charles County Cost Share	2,167,538	11,227,712	7,105,089	893,983	-	21,394,322
MoDOT Cost Share	367,876	155,000	3,477,124	-	250,000	4,250,000
STP Funding	271,789	100,000	2,030,733	1,117,478	2,400,000	5,920,000
East-West Gateway TAP Funding	-	-	-	496,000	-	496,000
CMAQ through EWGCOCG	2,228,829	162,927	983,784	-	-	3,375,540
TOTAL	10,662,872	18,913,049	21,753,204	7,229,957	6,790,000	65,349,082

# WEST PEARCE BLVD. AND MEYER ROAD TRAFFIC SIGNAL

**Fund:** Transportation

**Department:** Administration

**Location:** Cheryl Ann Drive to Meyer Road on West Pearce Blvd.

**Project Cost:** \$770,000 | **Outside Funding:** \$630,000 | **City Cost:** \$140,000

Planning/Engineering - \$88,000

Pre-Construction - \$60,000

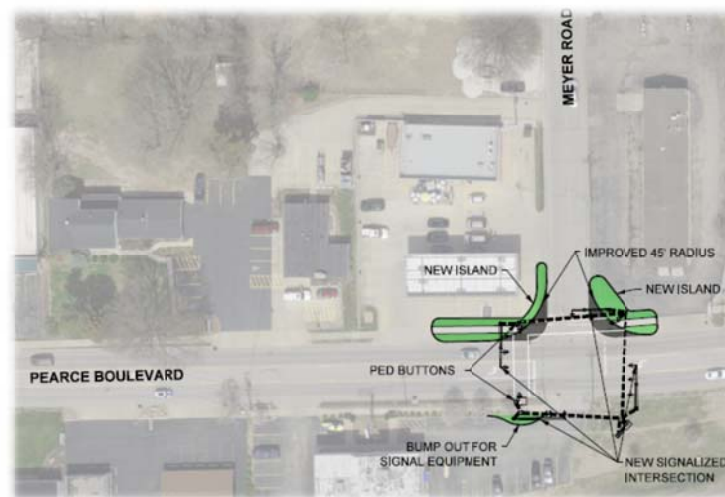
Construction - \$622,000

St. Charles County (40%) - \$280,000

Federal CMAQ (50%) - \$350,000

**Description and Justification:** This project will convert the existing all way stop located at Meyer Road and West Pearce Blvd. to a signalized intersection including pedestrian improvements. The work will also remove an all way stop located at Cheryl Ann Drive. This project will help alleviate congestion associated with the current condition that results in significant delay and a service level of "F" during peak periods as well as address safety issues identified in the St. Charles County Strategic Highway Safety Plan.

**Anticipated Benefit:** Project is expected to improve safety along the Pearce corridor as well as a reduction in overall delay from 58 seconds per vehicle in the peak hour down to 8 seconds resulting in an intersection with a service level of "A".



FUNDING SCHEDULE						
Total	PRIOR	2021	2022	2023	2024	2025
\$700,000	\$148,000	\$622,000	-	-	-	-
St. Charles County	\$59,200	\$220,800	-	-	-	-
CMAQ	\$74,000	\$276,000	-	-	-	-

# PEINE ROAD SAFETY IMPROVEMENTS

**Fund:** Transportation

**Department:** Administration

**Location:** Peine Road from Somerset Manor Drive to Highway 61

**Project Cost:** \$2,500,000 | **Outside Funding:** \$2,250,000 | **City Cost:** \$250,000

Planning/Engineering - \$322,453

Pre-Construction - \$200,000

Construction - \$1,977,547

St. Charles County (40%) - \$1,000,000

Federal STP (50%) - \$1,250,000

**Description and Justification:** This application provides funds to add 3-foot shoulders and overlay Peine Road. The project will also soften and realign a 90-degree curve between Peine Woods Drive and Stewart Springs Drive. This project will look to address safety conditions in advance of increased traffic volume anticipated with a completed Peine/P Interchange as well as renewed development interest along the Peine Road corridor.

**Anticipated Benefit:** Improve safety of the Peine Road corridor in anticipation of increased traffic volumes associated with an operation interchange at Highway 61 as well as continued residential growth in the area.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$2,500,000	\$322,453	\$200,000	\$1,977,547	-	-
St. Charles County	\$128,982	\$80,000	\$791,018	-	-
Federal STP	\$161,227	\$100,000	\$988,773	-	-

# DAVID HOEKEL PARKWAY – PHASE 2D

**Fund:** Transportation

**Department:** Administration

**Location:** David Hoekel Parkway between Goodfellow Road and West Meyer

**Project Cost:** \$8,832,000 | **Outside Funding:** \$7,065,600 | **City Cost:** \$1,766,400

Planning and Engineering (2020) - \$380,000

Right of Way (2021) - \$275,000

Construction (2022 and 2023) – \$8,177,000

St. Charles County (80%) - \$7,065,600

**Description and Justification:** Construction of David Hoekel Parkway to complete the connection from Goodfellow Road to West Meyer Road. This section of roadway will provide greater connectivity for the community by providing access from I-70 to a major east west collector in West Meyer Road. This will connect the west side of Wentzville to Highway 61 and I-64 via Wentzville Parkway. The project will be designed to accommodate the eventual complete four-lane cross section. However, the initial construction will be planned only as a two-lane roadway based on current demand and budget constraints. The right of way necessary for this project has been acquired.

**Anticipated Benefit:** Improve safety for drivers as well as add an additional platform for commercial growth and development. This extension will better allow full utilization of the I-70 DHP Interchange by making connection with a major east west collector.



## FUNDING SCHEDULE

Total	PRIOR	2021	2022	2023	2024	2025
\$8,832,000	\$380,000	\$275,000	\$5,105,000	\$3,072,000	-	-
St. Charles County	\$304,000	\$220,000	\$4,084,000	\$2,457,600	-	-



# WEST PEARCE BLVD. – MAY ROAD TO GOODFELLOW PAVEMENT REHABILITATION

**Fund:** Transportation

**Department:** Administration

**Location:** West Pearce Boulevard

**Project Cost:** \$1,400,000 | **Outside Funding:** \$1,120,000 | **City Cost:** \$280,000

Pre-Construction - \$138,202

Construction - \$1,261,798

Federal STP (80%) - \$1,120,000

**Description:** Two-inch mill and overlay of existing roadway approximately 8,000 feet long and 25 feet wide that coincides with completion of David Hoekel Parkway/I-70 Interchange.

**Justification:** Roadway is in need of surface maintenance. An asphalt-mill and overlay will improve the condition and readability of the road surface and will extend the serviceable life of the roadway.

**Anticipated Benefit:** Improved ride quality and reduced annual maintenance costs while considerably extending the serviceable life of the roadway.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$1,400,000	\$138,202	-	\$1,261,798	-	-
Federal STP	\$110,562	-	\$1,009,438	-	-

# HIGHWAY Z WIDENING

**Fund:** Transportation

**Department:** Administration

**Location:** Highway Z – Interstate Dr. to Perry Cate Blvd.

**Project Cost:** \$8,000,000 | **Outside Funding:** \$6,000,000 | **City Cost:** \$2,000,000

Planning/Engineering - \$735,751

Pre-Construction - \$310,000

Construction - \$6,954,249

St. Charles County (25%) - \$2,000,000

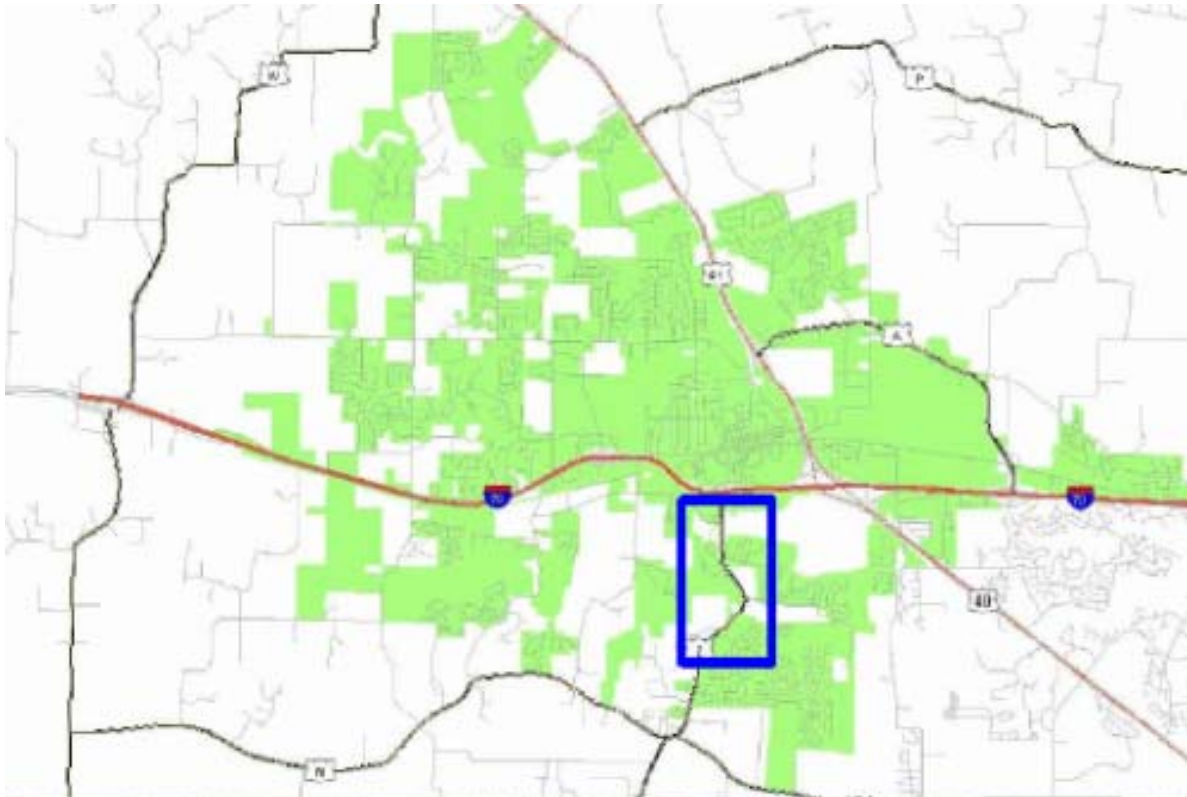
MoDOT Cost Share (50%) - \$4,000,000

**Description and Justification:** Project will provide improvements to Highway Z between Interstate Drive and Perry Cate Boulevard. Highway Z south of I-70 experiences significant delays and queuing in both the AM and PM peak periods. Improvements are necessary to reduce vehicular delays and queueing on both mainline Route Z and the side-streets. This project will widen Highway Z to a 4-lane roadway with left and right turn lanes at primary intersections. This project will also include the widening of the bridge over Peruque Creek and the signalization of Highway Z and Peruque Hill Parkway/Peruque Ridge Boulevard.

**Anticipated Benefit:** Project will provide reduced congestion, improved travel time, and increased capacity for residents that travel both Northbound and Southbound Highway Z. Safety will be improved for motorists/residents that enter or exit Highway Z from the side-streets within the project limits and improved ride quality.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$8,000,000	\$735,751	\$310,000	\$6,954,249	-	-
St. Charles County	\$183,938	\$77,500	\$1,738,562	-	-
MoDOT	\$367,876	\$155,000	\$3,477,124	-	-

# HIGHWAY Z WIDENING





# HIGHWAY Z AND INTERSTATE DRIVE INTERSECTION IMPROVEMENTS

**Fund:** Transportation

**Department:** Administration

**Location:** Intersection of Highway Z and Interstate Drive

**Project Cost:** \$2,400,000 | **Outside Funding:** \$1,800,000 | **City Cost:** \$600,000

Planning/Engineering - \$382,433

Pre-Construction - \$50,000

Construction - \$1,967,567

St. Charles County (25%) - \$600,000

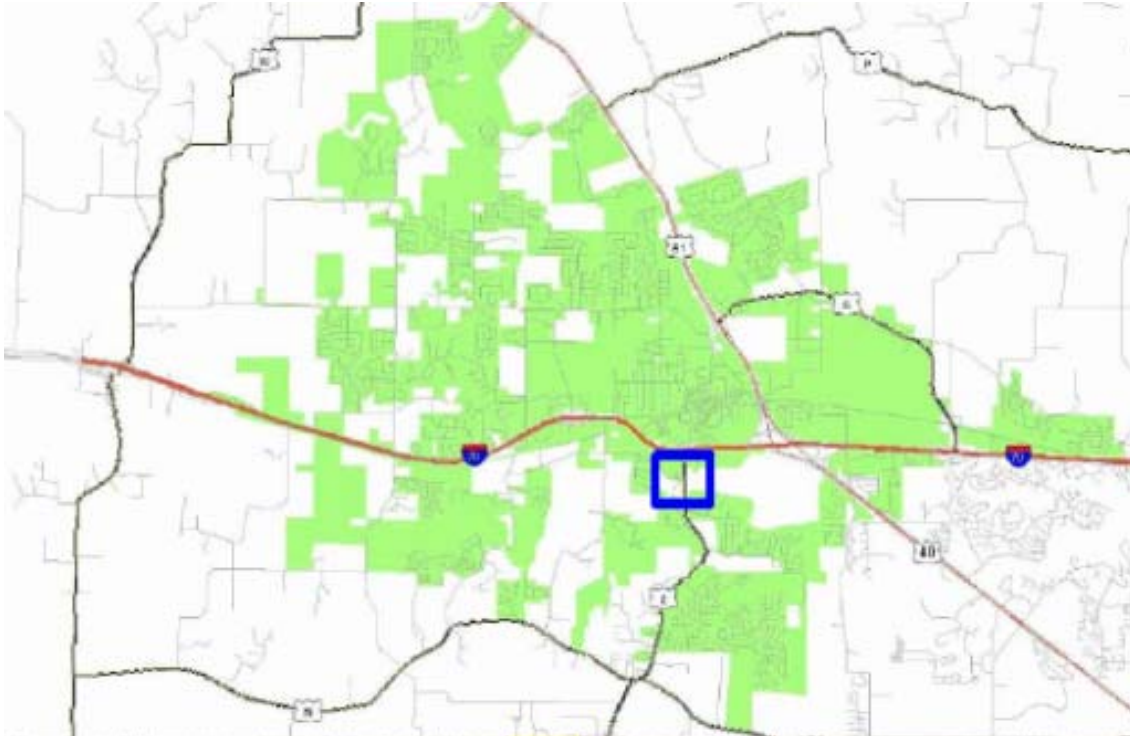
Federal CMAQ (50%) - \$1,200,000

**Description and Justification:** Project will provide intersection improvements at Route Z and Interstate Drive. Route Z south of I-70 experiences significant delays and queuing in both the AM and PM peak periods. Improvements are necessary to reduce vehicular delays and queueing on both mainline Route Z and the side-streets. Intersection improvements and pavement widening will be performed at the intersection of Interstate Drive and Route Z to accommodate eastbound to northbound dual left-turn lanes, a dedicated right-turn lane from southbound Route Z to westbound Interstate Drive, and the setting up of two through lanes on the south leg of southbound Route Z. Also associated with this project would be re-striping northbound and southbound Route Z north of Interstate Drive to accommodate two through lanes.

**Anticipated Benefit:** Reduced congestion and improved travel time for residents that travel on Northbound and Southbound Route Z as well as reduced congestion and improved travel time for residents that utilize Eastbound and Westbound Interstate Drive.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$2,400,000	\$382,433	\$50,000	\$1,967,567	-	-
St. Charles County	\$95,608	\$12,500	\$491,892	-	-
CMAQ	\$191,216	\$25,000	\$983,784	-	-

# HIGHWAY Z AND INTERSTATE DRIVE INTERSECTION IMPROVEMENTS



# HIGHWAY Z AND INTERSTATE DRIVE RIGHT TURN LANE

**Fund:** Transportation

**Department:** Administration

**Location:** North bound Rte. Z to East bound Interstate Dr.

**Project Cost:** \$200,000 | **Outside Funding:** \$160,000 | **City Cost:** \$40,000

Planning/Engineering - \$22,591

Pre-Construction - \$5,000

Construction - \$172,409

Federal CMAQ (80%) - \$160,000

**Description and Justification:** Project will construct a dedicated right to turn lane from north bound Route Z to east bound Interstate Drive. This project is intended to reduce congestion in the Z corridor and provide improved access for drivers needing to use Interstate Drive to reach Highway 64 via the Prospect Road Interchange.

**Anticipated Benefit:** Reduced congestion and improved travel time for residents headed north on Route Z into Wentzville or heading east to Highway 64.



## FUNDING SCHEDULE

	PRIOR	2021	2022	2023	2024	2025
Total \$200,000	\$22,591	\$5,000	\$172,409	-	-	-
CMAQ	\$18,073	\$4,000	\$137,927	-	-	-

# WENTZVILLE PARKWAY SOUTH – PHASE I

**Fund:** Transportation

**Department:** Administration

**Location:** Wentzville Parkway and Veteran's Memorial Parkway

**Project Cost:** \$4,900,000 | **Outside Funding:** \$3,430,000 | **City Cost:** \$1,470,000

Planning/Engineering - \$360,967

Pre-Construction - \$145,000

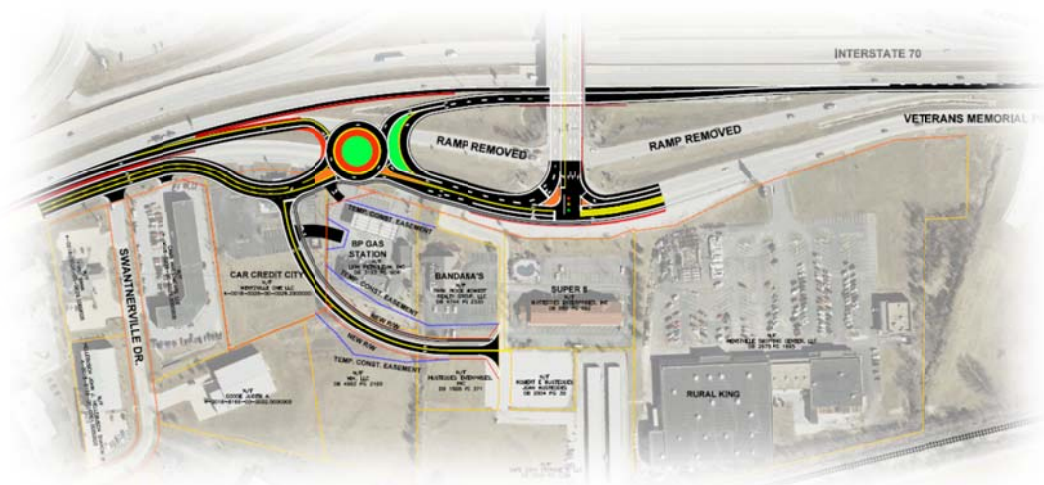
Construction - \$4,394,000

St. Charles County (30%) - \$1,470,000

Federal CMAQ (40%) - \$1,960,000

**Description and Justification:** Construct intersection improvements at Veteran's Memorial Parkway and Wentzville Parkway including improvements to the west bound off ramp and east bound on ramp utilizing a roundabout to eliminate one of two signals currently impacting traffic flow.

**Anticipated Benefit:** Reduced congestion improved traffic flow particularly in the a.m. peak as well as improved safety by extending the length of the east bound on ramp to facilitate merging onto I-70 before the railroad bridge. Necessary improvement to allow construction of the grade separated railroad crossing and eventual extension to Interstate Drive that will function as major north south arterial for the City and region.



FUNDING SCHEDULE						
Total	PRIOR	2021	2022	2023	2024	2025
\$4,900,000	\$505,967	\$4,394,033	-	-	-	-
St. Charles County	\$151,790	\$1,318,210	-	-	-	-
CMAQ	\$202,387	\$1,757,613	-	-	-	-



# WENTZVILLE PARKWAY SOUTH – PHASE II

**Fund:** Transportation

**Department:** Administration

**Location:** Veteran's Memorial Drive to 1,200' South of Interstate Drive

**Project Cost:** \$10,000,000 | **Outside Funding:** \$8,000,000 | **City Cost:** \$2,000,000

Planning/Engineering - \$700,000

Pre-Construction - \$702,860

Construction - \$8,597,140

St. Charles County (80%) - \$8,000,000

**Description and Justification:** Phase 2 of this project will extend Wentzville Parkway South to reach Interstate Drive and provide a critical north south arterial for the City and region. The road will initially construct a two lane cross section to minimize cost but still be designed in a way that can be expanded to the full build out. The project will also include the construction of a grade separated bridge over the railroad to allow uninterrupted access to and from the north and south side of the City.

**Anticipated Benefit:** The project will complete an arterial roadway as planned in the City's Thoroughfare Plan to provide a major connection between the north and south side of the City as well as uninterrupted access over the Norfolk Southern Railroad. Roadway will also increase utilization of Interstate Drive as a major east west collector.



## FUNDING SCHEDULE

Total	PRIOR	2021	2022	2023	2024	2025
\$10,000,000	\$1,402,860	-	\$8,597,140	-	-	-
St. Charles County	\$1,122,288	-	\$6,877,712	-	-	-

# GREAT OAKS BLVD. TURN LANE

**Fund:** Transportation

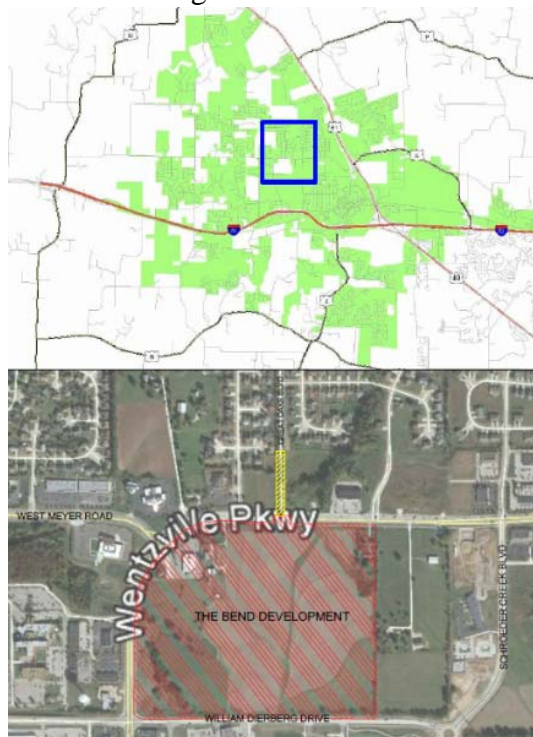
**Department:** Administration

**Location:** Intersection of Great Oaks Blvd. and Wentzville Parkway

**Project Cost:** \$300,000 | **Outside Funding:** \$-0- | **City Cost:** \$300,000

**Description and Justification:** This project proposes to make improvements to Great Oaks Boulevard at the intersection of Wentzville Parkway. The existing full access intersection of Great Oaks Boulevard and Wentzville Parkway provides a northbound through lane and a southbound combination right and left turn lane to access eastbound and westbound Wentzville Parkway. Improvements associated with the Wentzville Bend development, Great Oaks Boulevard will extend south of Wentzville Parkway through the proposed development and a signal will be installed at the intersection of Wentzville Parkway and Great Oaks Boulevard. Due to the extension of Great Oaks Boulevard south, the existing lane configuration of Great Oaks Boulevard needs to be modified and widening to create a dedicated left turn lane from southbound Great Oaks Boulevard to eastbound Wentzville Parkway.

**Anticipated Benefit:** Increase level of service at the intersection of Great Oaks Boulevard and Wentzville Parkway as well as reduce congestion.



## FUNDING SCHEDULE

Total	2021	2022	2023	2024	2025
\$300,000	\$300,000	-	-	-	-

# GREAT OAKS BLVD. EXTENSION

**Fund:** Transportation

**Department:** Administration

**Location:** Great Oaks Blvd. – Great Oaks to Timber Trace

**Project Cost:** \$2,300,000 | **Outside Funding:** \$1,696,000 | **City Cost:** \$604,000

Planning/Engineering - \$180,000

Pre-Construction - \$120,000

Construction - \$2,000,000

St. Charles County (80%) - \$1,696,000

**Description and Justification:** Proposed design of Great Oaks Blvd to connect two existing stubs located in the Great Oaks and Timber Trace subdivisions. This road extension will provide a secondary means of ingress egress to multiple subdivisions as well as a safer alternative for Timber Trace residents back into the City rather than using Highway 61. The urgency of this project will continue to increase as the current Highway 61 Safety Project will limit the access into Timber Trace to a right in right out only making this alternative more important for residents and emergency services.

**Anticipated Benefit:** Project provides improved safety and access for the residents within the area and improved access for emergency services.



FUNDING SCHEDULE						
Total	PRIOR	2021	2022	2023	2024	2025
\$2,300,000	\$180,000	-	\$120,000	\$2,000,000	-	-
St. Charles County	-	-	\$96,000	\$1,600,000	-	-



# HISTORIC DOWNTOWN REVITALIZATION

**Fund:** Transportation

**Department:** Administration

**Location:** Historic Downtown

**Project Cost:** \$3,000,000 | **Outside Funding:** \$-0- | **City Cost:** \$3,000,000

**Description and Justification:** Various projects to replace and improve storm sewers, curbs, curb ramps and sidewalk improvements on Pearce Avenue and Allen Street from Luetkenhaus Blvd. to Meyer Road. Recent prior projects include the reconstruction of Allen Street between Blumhoff Avenue and Locust Street. Projects also include intersection improvements at W. Pearce and Meyer Road to include review of new at-grade railroad crossing to connect with Main Street via traffic signal or roundabout. This project may be eligible for partial CMAQ and/or Road Board funding and may require closure of lower quality at-grade railroad crossings at Hepperman and/or Wilmer Road after Wentzville Parkway South Extension is complete. This project pairs well with Mar Lee Drive redevelopment and future development of undeveloped parcels south of Pitman with potential for interstate access improvements at Pitman and Luetkenhaus under Envision I-70 planning by MoDOT. This cost estimate is for roundabout option at Meyer. There would be ROW and construction cost savings if constructed as traffic signal. Resurfacing work on Pearce to Schroeder Creek Blvd. may also be eligible for STP funding.

**Anticipated Benefit:** Improved accessibility for increased ADT, improve aesthetics and expand on-street parking for the Historic Downtown.

FUNDING SCHEDULE						
Total	PRIOR	2021	2022	2023	2024	2025
\$3,000,000	\$3,350,000	-	\$1,000,000	\$1,000,000	\$1,000,000	-

# HISTORIC DOWNTOWN REVITALIZATION





# HIGHWAY 61 OUTER ROAD – PHASE 2A

**Fund:** Transportation

**Department:** Administration

**Location:** Wentzville Parkway – Meyer Road to Parkway Bridge

**Project Cost:** \$2,300,000 | **Outside Funding:** \$2,070,000 | **City Cost:** \$230,000

Pre-Construction (2023) - \$65,043

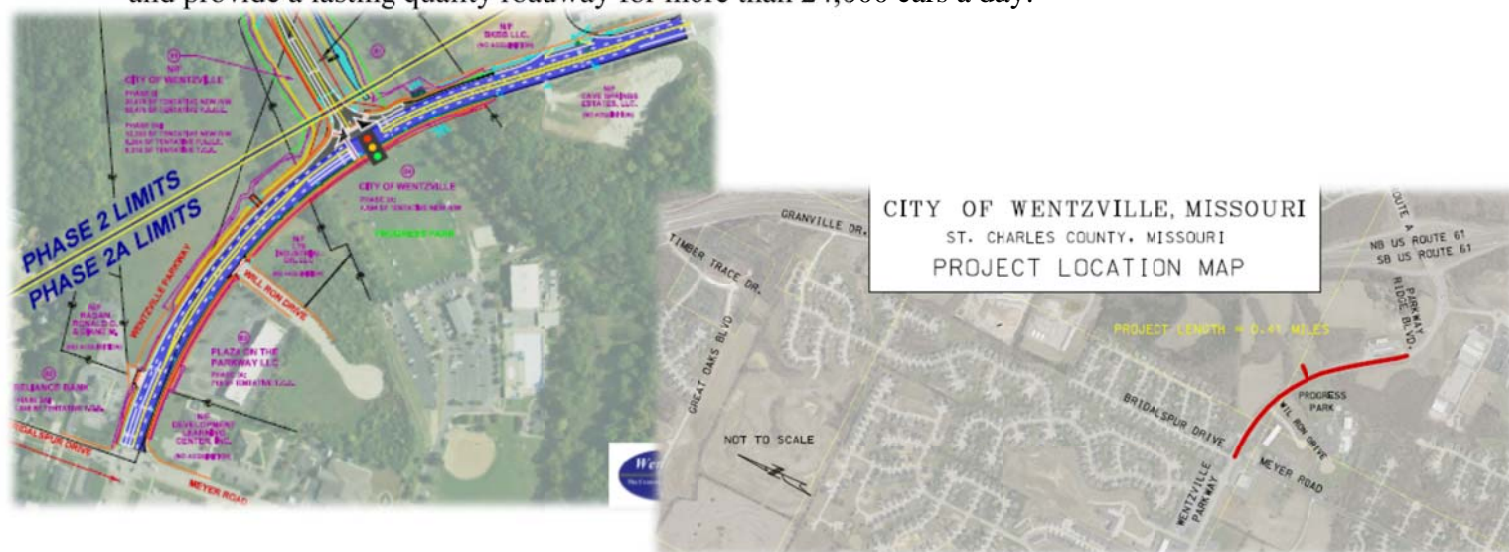
Construction (2024) – \$2,234,957

St. Charles County (40%) - \$920,000

Federal STP (50%) - \$1,150,000

**Description and Justification:** The pavement in this section of Wentzville Parkway is reaching the end of its anticipated life and needs large scale concrete replacement. This project will complete a full pavement replacement while also constructing the last section of center turn lane and lay the groundwork for Phase 2 of the Highway 61 Outer Road.

**Anticipated Benefit:** This project will provide the safety benefit of a center turn lane to existing businesses while laying the groundwork for the extension of the Highway 61 Outer Road north to provide safe access back into the City for several businesses and numerous residents. The project will also reduce ongoing maintenance costs of an aging pavement section and provide a lasting quality roadway for more than 24,000 cars a day.



## FUNDING SCHEDULE

Total	2021	2022	2023	2024	2025
\$2,300,000	-	-	\$65,043	\$2,234,957	-
St. Charles County	-	-	\$26,017	\$893,983	-
Federal STP	-	-	\$32,522	\$1,117,478	-

# WENTZVILLE PARKWAY SIDEWALK

**Fund:** Transportation

**Department:** Administration

**Location:** Sidewalk on Wentzville Parkway – Westbound I-70 Off-Ramp to West Pearce Blvd.

**Project Cost:** \$620,000 | **Outside Funding:** \$496,000 | **City Cost:** \$124,000

East-West Gateway Council of Governments TAP (80%) - \$496,000

**Description and Justification:** This project will consist of constructing a six-foot wide concrete sidewalk along the east side of Wentzville Parkway from the westbound Interstate 70 off-ramp to the intersection of Wentzville Parkway and West Pearce Boulevard. This sidewalk extension will allow for a pedestrian route that will connect the City's current sidewalk and trail network on the north side of Interstate 70 to the sidewalk and trail network on the south side of Interstate 70 via the proposed improvements associated with Wentzville Parkway South Phase I which provides a six-foot access path across the Wentzville Parkway bridge over Interstate 70.

**Anticipated Benefit:** This project will provide City residents with pedestrian route over Interstate 70 and connect the City's sidewalk and trail networks on the north and south side of Interstate 70.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$620,000	-	-	-	\$620,000	-
TAP	-	-	-	496,000	-

# FIBER OPTIC CONNECTION

**Fund:** Transportation

**Department:** Administration

**Location:** Wentzville Parkway to Peine Road

**Project Cost:** \$35,000 | **Outside Funding:** \$-0- | **City Cost:** \$35,000

**Description and Justification:** Install fiber optic connection along West Meyer Road beginning from Wentzville Parkway to Peine Road with eventual extension to North Point Prairie Road and possibly the future David Hoekel Parkway intersection. This connection will allow a more reliable connection to our traffic signal and GGL systems.

**Anticipated Benefit:** Improved vehicle detection, reliability and reduction in repair and maintenance costs as well as provide the ability to add additional features such as pan-tilt-zoom cameras at intersections while also improving signal coordination, notification of errors and ability to address problems remotely.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$35,000	-	-	-	\$35,000	-

# RAILROAD QUIET ZONE

**Fund:** Transportation

**Department:** Administration

**Location:** Linn, Wilmer and Hepperman Crossings

**Project Cost:** \$670,000 | **Outside Funding:** \$250,000 | **City Cost:** \$420,000

Planning/Engineering - \$60,000

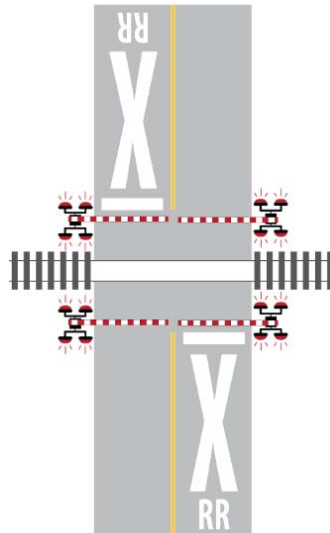
Pre-Construction - \$10,000

Construction - \$600,000

MoDOT Safety Funding - \$250,000

**Description and Justification:** It is anticipated that quad gates will be needed for installation at both the Linn at-grade and Hepperman at-grade railroad crossings. The cost estimate for quad gates is \$250,000 per location. MoDOT safety may be able to fund up to \$250,000 in the event that two additional at grade crossings are closed as part of the Quiet Zone Initiative. The crossings for closure consideration are Wilmer and South Point Prairie with closure costs estimated at \$50,000 per location.

**Anticipated Benefit:** The anticipated benefit of the railroad quiet zone would be the quality of life for the business and residents that live and work near the railroad and near the existing at-grade crossings. This railroad quiet zone would greatly eliminate the need for trains to blow there load horns when approaching and crossing an at-grade crossing. The addition of safety enhancements would benefit people who drive, walk or bike in the vicinity of rail crossings. A quiet zone may also spur economic development within downtown with the near elimination of load train horns effecting local businesses.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$670,000	-	-	-	\$70,000	\$600,000
MoDOT	-	-	-	-	\$250,000



# MEXICO ROAD SAFETY IMPROVEMENTS

**Fund:** Transportation

**Department:** Administration

**Location:** Mexico Rd. from Josephville Rd. to Midland Park Dr.

**Project Cost:** \$3,000,000 | **Outside Funding:** \$2,400,000 | **City Cost:** \$600,000  
Federal STP (80%) - \$2,400,000

**Description and Justification:** The pavement along Mexico Road between Josephville Road and Midland Park Drive is reaching the end of its anticipated life cycle and is in need of a large scale rehabilitation project to preform needed pavement repairs and to replace the driving surface. Also safety improvements such as lane and shoulder widths will be incorporated into the project.

**Anticipated Benefit:** Improved ride quality and safety and reduced annual maintenance costs while considerably extending the serviceable life of the roadway.



FUNDING SCHEDULE					
Total \$3,000,000	2021	2022	2023	2024	2025
	-	-	-	-	\$3,000,000
Federal STP	-	-	-	-	\$2,400,000

# CONTRACTED STREET AND SIDEWALK MAINTENANCE – ASPHALT AND CONCRETE REPLACEMENT

**Fund:** Transportation

**Department:** Streets

**Location:** Citywide

**Project Cost:** \$15,000,000 | **Outside Funding:** \$-0- | **City Cost:** \$15,000,000

**Description:** Ongoing street and sidewalk maintenance based on PCI condition, as well as factors such as ADT and safety.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$15,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000

# SINGLE-AXLE DUMP TRUCK WITH PLOW AND SPREADER

**Fund:** Transportation

**Department:** Transportation – Streets

**Project Cost:** \$505,000 | **Outside Funding:** \$-0- | **City Cost:** \$505,000

**Description:** Purchase of three (one per year) single-axle dump trucks with plow and spreader.

**Justification:** These dump trucks will replace two existing and one will be added to the current fleet.

**Anticipated Benefit:** The addition of this vehicle allows for a more efficient snow removal operation. Trucks of this size are better equipped to handle large snow fall of 3 or more inches.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$505,000	\$165,000	\$170,000	-	\$170,000	-

# TANDEM-AXLE DUMP TRUCK WITH PLOW AND SPREADER

**Fund:** Transportation

**Department:** Transportation – Streets

**Project Cost:** \$390,000 | **Outside Funding:** \$-0- | **City Cost:** \$390,000

**Description and Justification:** Tandem-axle dump truck with plow and spreader. These dump trucks will replace one existing dump truck that exhibits considerable wear and tear, and is accompanied by high maintenance costs due to age and use and will add one dump truck to the current fleet. Dump truck is a material hauler and snow plow vehicle, which is considered heavy duty.

**Anticipated Benefit:** All equipment is placed on a regular replacement schedule where it is replaced after a fixed number of years to maintain fleet reliability during emergency operations and to minimize out of service time and repair costs associated with heavy use of aged equipment. Tandem trucks are critical pieces of the street pavement repair and snow removal operations and must be replaced every 10 years to ensure availability during critical and emergency-response events.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$390,000	\$190,000	-	\$200,000	-	-

# BACKHOE

**Fund:** Transportation

**Department:** Transportation – Streets

**Project Cost:** \$140,000 | **Outside Funding:** \$-0- | **City Cost:** \$140,000

**Description and Justification:** The current backhoe has been on a five-year lease cycle as it is the work horse of large equipment. It is used largely for the removal of concrete street panels as well as standard loading, dumping and material moving.

**Anticipated Benefit:** Payoff of the lease will allow the City to own the backhoe.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$140,000	-	\$140,000	-	-	-

# SINGLE-AXLE ASPHALT PATCH TRUCK

**Fund:** Capital

**Department:** Transportation – Streets

**Project Cost:** \$160,000 | **Outside Funding:** \$-0- | **City Cost:** \$160,000

**Description and Justification:** Replacement truck for 10-year old patch truck that operates three to four days a week patching streets.

**Anticipated Benefit:** The anticipated benefit for the replacement of this equipment is increased reliability and reduction in maintenance and repair costs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$160,000	-	-	-	-	\$160,000

# CRACK-SEALER MACHINE

**Fund:** Capital

**Department:** Transportation – Streets

**Project Cost:** \$60,000 | **Outside Funding:** \$-0- | **City Cost:** \$60,000

**Description and Justification:** Purchase of a crack-sealer machine to replace an outdated 2002 model of similar nature that has been in service for many years, exhibits considerable wear and tear and is accompanied by high maintenance costs due to age and use.

**Anticipated Benefit:** The purchase of a new machine will increase reliability, reduce down time and maintenance cost as well as raise the efficiency of the crack seal operation throughout the City.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$60,000	\$60,000	-	-	-	-

# ROW BRUSH HOG

**Fund:** Capital

**Department:** Transportation – Streets

**Project Cost:** \$25,000 | **Outside Funding:** \$-0- | **City Cost:** \$25,000

**Description and Justification:** Purchase of a brush hog that will be used on an existing tractor to mow large City right of ways such as David Hoekel Parkway when complete.

**Anticipated Benefit:** More efficient right of way mowing throughout the City.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$25,000	\$25,000	-	-	-	-



# LED INFORMATION SIGN

**Fund:** Capital

**Department:** Transportation – Streets

**Project Cost:** \$36,500 | **Outside Funding:** \$-0- | **City Cost:** \$36,500

**Description and Justification:** Purchase of LED information signs that will replace outdated 2007 models of like kind.

**Anticipated Benefit:** The anticipated benefit for the replacement of this equipment is greater safety measures for road projects, efficiency and flexibility. In addition these units are used City wide by other departments to advertise City events.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$36,500	\$18,000	\$18,500	-	-	-

# TRACTOR WITH ROW MOWING ARM

**Fund:** Capital

**Department:** Transportation – Streets

**Project Cost:** \$155,000 | **Outside Funding:** \$-0- | **City Cost:** \$155,000

**Description:** Purchase of a tractor with ROW mowing arm.

**Justification:** Replace outdated 1997 model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by high maintenance costs due to age and use.

**Anticipated Benefit:** The City has placed equipment on a regular replacement schedule. Equipment will be replaced after a fixed number of years, before it has the opportunity to become a financial drain. Naturally, vehicles wearing out before expected will be replaced prior to their schedule, and those remaining in good condition when replacement is otherwise scheduled will be retained for additional years. The City intends to adhere to the schedule in order to minimize long-term maintenance costs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$155,000	-	-	\$155,000	-	-



# TRACK SKID LOADER

**Fund:** Capital

**Department:** Transportation – Streets

**Project Cost:** \$70,000 | **Outside Funding:** \$-0- | **City Cost:** \$70,000

**Description and Justification:** Replace an outdated model of similar nature that has been in service for many years and exhibits considerable wear and tear. This skid-steer loader is on a three year replacement cycle as it is the work horse of small equipment. In addition to standard loading, dumping and material moving, this equipment attaches to, and runs numerous attachments used for different situations of street work. These attachments exert enormous pressures/vibrations on the loader.

**Anticipated Benefit:** Reliability, reduction in repair and maintenance costs and improved fuel economy.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$70,000	-	-	\$70,000	-	-

# SKID-STEER LOADER

**Fund:** Capital

**Department:** Transportation – Streets

**Project Cost:** \$70,000 | **Outside Funding:** \$-0- | **City Cost:** \$70,000

**Description and Justification:** Purchase of a skid-steer loader to replace an outdated 2014 model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by maintenance costs due to age and use.

**Anticipated Benefit:** This skid-steer loader is on a three year replacement cycle as it is the work horse of small equipment. In addition to standard loading, dumping and material moving, this equipment attaches to, and runs numerous attachments used for different situation of street work, such as fork-lift forks for moving pallets and materials, Concrete and Asphalt Breaker HB 980, Finish Grinder 24” high flow Planer for the removal of asphalt and concrete, and a new attachment which is the Rock Saw (included in this bid). These attachments exert enormous pressures/vibrations on the loader.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$70,000	-	-	-	\$70,000	-

# TRAFFIC SIGNAL DETECTION CAMERA

**Fund:** Capital

**Department:** Transportation – Streets

**Project Cost:** \$150,000 | **Outside Funding:** \$-0- | **City Cost:** \$150,000

**Description and Justification:** Replace an outdated traffic signal detection system that has been in service for more than 15 years and exhibits considerable reliability issues due to wear and tear. Traffic detection cameras detect the presence of vehicles and allow traffic signals to respond to changes in the traffic volumes by varying the length of lights.

**Anticipated Benefit:** Improved vehicle detection, reliability and reduction in repair and maintenance costs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$150,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000



**Water**

# WATER

PROJECT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Water	2-MG GM Ground Storage Tank Coating Interior	40,000	300,000	-	-	-	340,000
Water	Coating Interior and Exterior of Tower #4	-	40,000	800,000	-	-	840,000
Water	2-MG Water Storage Tank	-	-	-	400,000	4,800,000	5,200,000
Water	In-House Waterline Interconnections	125,000	125,000	125,000	125,000	125,000	625,000
Water	Waterline Extensions and Replacement	410,000	100,000	350,000	100,000	150,000	1,110,000
<b>Water Funded Equipment:</b>							
Water	Trackhoe	180,000	-	-	-	-	180,000
Water	Valve Exerciser	65,500	-	-	-	-	65,500
Water	Electro-Fusion Processor	-	10,000	-	-	-	10,000
Water	Metrotech vLoc/9800 Locator	-	-	5,500	-	5,800	11,300
<b>TOTAL</b>		820,500	575,000	1,280,500	625,000	5,080,800	8,381,800

# WATER

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Water	3/4-Ton 4x4 Pickup Truck	68,000	34,000	34,000	34,000	34,000	204,000
Water	20' Mac Lander Trailer	20,000	-	-	-	-	20,000
Water	Hydraulic Hammer	15,000	-	-	-	-	15,000
Water	Plate Compactor	5,200	-	-	-	-	5,200
Water	Box Truck	-	65,000	-	-	-	65,000
Water	10k Generator	-	-	-	6,000	-	6,000
Water	1.5-Ton 4x4 Dump Truck	-	-	-	-	60,000	60,000
TOTAL		108,200	99,000	34,000	40,000	94,000	375,200

TOTAL PROJECTS AND EQUIPMENT						
	2021	2022	2023	2024	2025	Five Year Total
TOTAL	928,700	674,000	1,314,500	665,000	5,174,800	8,757,000

FUNDING SOURCE						
	2021	2022	2023	2024	2025	Five Year Total
Capital Fund	108,200	99,000	34,000	40,000	94,000	375,200
Water Fund	820,500	575,000	1,280,500	625,000	5,080,800	8,381,800
TOTAL	928,700	674,000	1,314,500	665,000	5,174,800	8,757,000

# 2 MG GM GROUND STORAGE TANK COATING INTERIOR

**Fund:** Water  
**Department:** Water  
**Location:** East Booster Station (Edinger Road)

**Project Cost:** \$340,000 | **Outside Funding:** \$-0- | **City Cost:** \$340,000

**Description:** Take the two-million gallon ground storage tank out of service and prep and paint; the interior floor, roof and walls of the tank.

**Justification:** Water tanks need to be re-coated inside and out on a regular as needed basis to protect the tower from corrosion and failure. At this time, only the interior needs to be coated.

**Anticipated Benefit:** Making the investment to coat water tanks on a regular as needed basis greatly extends the life of the City’s tank infrastructure.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$340,000	\$40,000	\$300,000	-	-	-



# COAT INTERIOR AND EXTERIOR OF TOWER #4

**Fund:** Water

**Department:** Water

**Location:** 802 East Pearce Boulevard

**Project Cost:** \$840,000 | **Outside Funding:** \$-0- | **City Cost:** \$840,000

**Description:** Interior and exterior coating of Tower #4 located at 802 East Pearce Blvd.

**Justification:** The 300,000 gallon tower is failing primarily due to coating issues. Re-coating this tower would maintain water storage demand while extending the longevity of the tower.

**Anticipated Benefit:** Recoating of this tower would restore what has been a high maintenance tower from demo while maintaining storage capacities and providing stable pressure and fire flow capabilities.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$840,000	-	\$40,000	\$800,000	-	-

# 2-MG WATER STORAGE TANK

**Fund:** Water

**Department:** Water

**Location:** Wilmer Rd.

**Project Cost:** \$5,200,000 | **Outside Funding:** \$-0- | **City Cost:** \$5,200,000

Design - \$400,000

Construction - \$4,800,000

**Description and Justification:** The construction of a new above-ground water storage tank in order to provide the City with a cost effective and reliable water storage supply during peak demand months and year-round storage source for fire protection and additional water storage during mechanical or equipment failure.

**Anticipated Benefit:** Stabilizes the City's ability to reliably provide adequate water supply for both drinking water and fire protection and to keep up with commercial, industrial and residential growth demands.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$5,200,000	-	-	-	\$400,000	\$4,800,000

# IN-HOUSE WATERLINE INTERCONNECTIONS

**Fund:** Water

**Department:** Water

**Location:** City Wide

**Project Cost:** \$625,000 | **Outside Funding:** \$-0- | **City Cost:** \$625,000

**Justification:** Projects include replacement and upsizing of deteriorated water main sections to improve pressure and fire flow capability while reducing maintenance cost and system repair downtime. By utilizing City staff to complete these projects, waterlines are replaced at a lower cost.

**Anticipated Benefit:** Waterline projects will reduce maintenance cost, water outages, precautionary boil advisories while increasing pressures and fire flow capabilities.



## FUNDING SCHEDULE

Total	2021	2022	2023	2024	2025
\$625,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000

# WATERLINE EXTENSIONS AND REPLACEMENTS

**Fund:** Water

**Department:** Water

**Location:** City Wide

**Project Cost:** \$1,110,000 | **Outside Funding:** \$-0- | **City Cost:** \$1,110,000

PROJECT DESCRIPTION				
YEAR	LOCATION	SIZE (IN)	LENTH (FT)	COST (\$)
2021	David Hoekel Parkway Phase 2 upsize 8 to 12	12	2,000	250,000
2021	Prairie Bluffs to Albany upsize 8 to 12	12	2,000	160,000
2022	Waterline Replacement	8	1,600	100,000
2023	E. Pearce Blvd. from Cheryl Ann to Schroeder Creek Blvd.	12	2,000	250,000
2023	Highway Z Casing	24	130	100,000
2024	Interstate Dr. upsize 8 to 12	12	800	100,000
2025	Waterline Replacement	12	1,200	150,000

**Justification:** Projects include replacement and upsizing of deteriorated water main sections to improve pressure and fire flow capability while reducing maintenance cost and system repair downtime.

**Anticipated Benefit:** Waterline projects will reduce maintenance cost, water outages, precautionary boil advisories while increasing pressures and fire flow capabilities.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$1,110,000	\$410,000	\$100,000	\$350,000	\$100,000	\$150,000



# WATERLINE EXTENSIONS AND REPLACEMENTS MAPS

# 2021

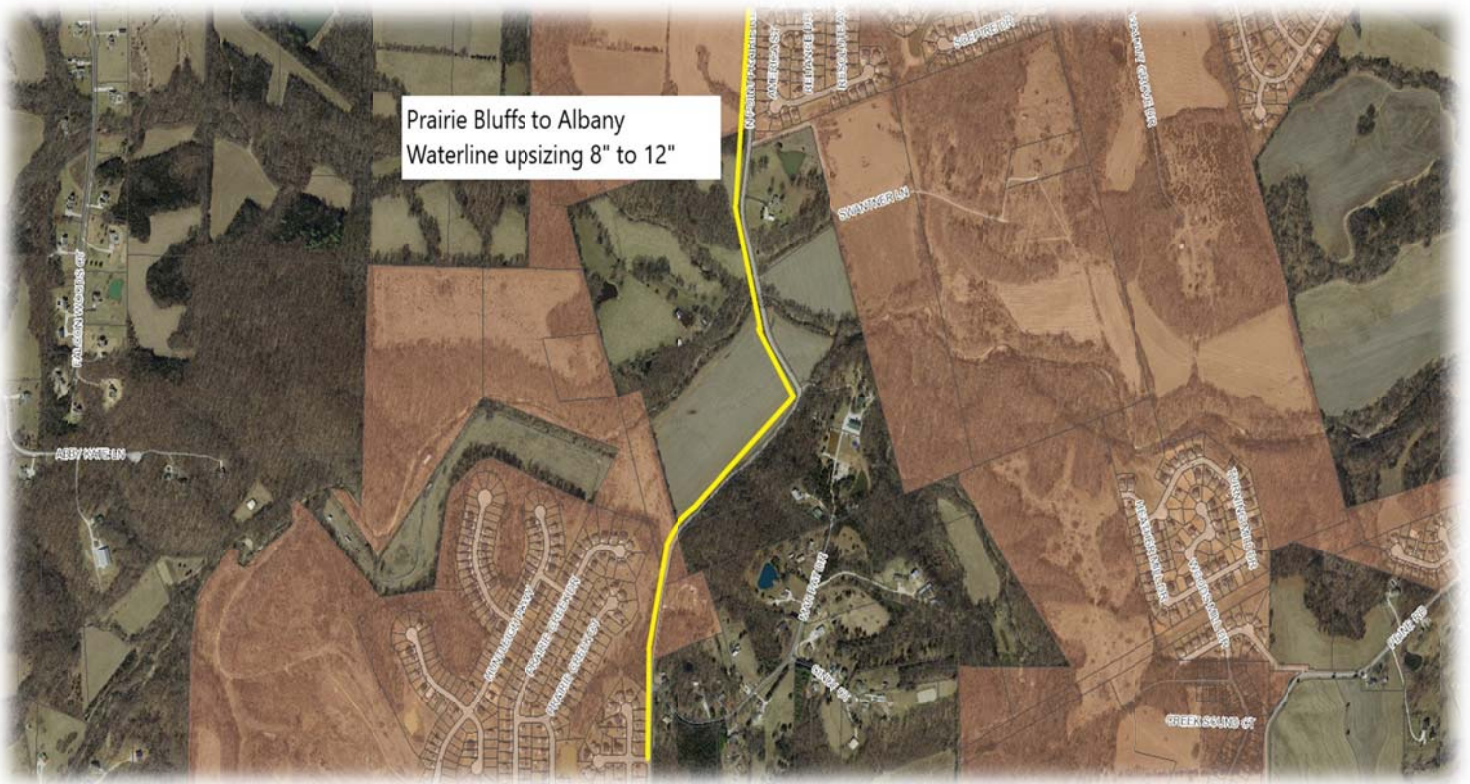
## David Hoekel Parkway Phase 2



# WATERLINE EXTENSIONS AND REPLACEMENTS MAPS

# 2021

## Prairie Bluffs to Albany





# TRACKHOE

**Fund:** Water

**Department:** Water

**Location:** Citywide

**Project Cost:** \$180,000 | **Outside Funding:** \$-0- | **City Cost:** \$180,000

**Description and Justification:** A new trackhoe in 2021 would replace the current 2012 backhoe that has 2,180 hours on it and is projected to have over 4,000 hours by 2022. A new trackhoe would ensure reliable equipment with minimum maintenance costs and minimize the risk of failures during emergencies. It will also keep production high during projects such as waterline extensions and replacements. Recommend transfer of used backhoe to Wastewater Division for small to medium manhole repair projects.

**Anticipated Benefit:** Allows the Water Division to maintain the highest level of service to Wentzville residents while having a new reliable piece of equipment on a project or emergency water repair.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$180,000	\$180,000	-	-	-	-

# VALVE EXERCISER

**Fund:** Water

**Department:** Water

**Location:** Citywide

**Project Cost:** \$65,500 | **Outside Funding:** \$-0- | **City Cost:** \$65,500

**Description and Justification:** The purchase of a new valve exercising skid unit for the yearly valve exercising program will ensure valves are accessible and fully functional during emergency situations where the valves need to be shut down such as emergency water main breaks, structure fires, etc. The valve exerciser will also allow for GPS tracking, data logging and safe operations without employee injuries from manually exercising stiff valves.

**Anticipated Benefit:** The valve exerciser will create better record keeping for the yearly valve exercising program and allow for safer operations with less opportunity for an employee injury.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$65,500	\$65,500	-	-	-	-

# ELECTRO-FUSION PROCESSOR

**Fund:** Water

**Department:** Water

**Location:** Citywide

**Project Cost:** \$10,000 | **Outside Funding:** \$-0- | **City Cost:** \$10,000

**Description and Justification:** Georg Fischer MSA 340 Electro-fusion processor used for fusing couplings and saddles on water and wastewater HDPE mains are on a ten-year replacement plan.

**Anticipated Benefit:** Cycling out the electro-fusion processors at ten-years along with frequent calibrations and software updates keeps the City up-to-date on the fusion technology used in the HDPE water and sewer mains.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$10,000	-	\$10,000	-	-	-

# METROTECH VLOC/9800 LOCATOR

**Fund:** Water

**Department:** Water

**Location:** Citywide

**Project Cost:** \$11,300 | **Outside Funding:** \$-0- | **City Cost:** \$11,300

**Description:** Metrotech v/Loc 9800 locator used for locating water and sewer mains for Missouri One Call.

**Justification:** Locators are on a five-year replacement plan.

**Anticipated Benefit:** Cycling out locators at five years keeps the City up to date on the utility-locating technology to protect the water and sewer mains from damage.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$11,300	-	-	\$5,500	-	\$5,800

# 4X4 PICKUP TRUCK

**Fund:** Capital

**Department:** Water

**Location:** Citywide

**Project Cost:** \$204,000 | **Outside Funding:** \$-0- | **City Cost:** \$204,000

**Description:** Purchase of a 3/4-ton 4x4 pickup truck used to heavy duty field operations.

**Justification:** A 3/4-ton truck will be used to conduct field and emergency heavy-duty operations and will need to have an electric brake controller, HD class v-hitch and emergency LED lights will be added to the truck for a cost of \$930.

**Anticipated Benefit:** Water is in need of additional vehicles due to recent addition of positions, so we are extending our vehicle replacement cycle from 10-year average age to 12-year average age, in an effort to reduce cost of increasing our fleet size while maintaining a reliable fleet to keep Water Operations running smoothly.



FUNDING SCHEDULE					
TOTAL	2021	2022	2023	2024	2025
\$204,000	\$68,000	\$34,000	\$34,000	\$34,000	\$34,000

# 20' MAC LANDER TRAILER

**Fund:** Capital

**Department:** Water

**Location:** Citywide

**Project Cost:** \$20,000 | **Outside Funding:** \$-0- | **City Cost:** \$20,000

**Description and Justification:** This piece of equipment was purchased by the City in 2008. It is important to keep reliable trailers to haul equipment in order to minimize the risk of failures during emergencies.

**Anticipated Benefit:** This allows the Water Division to maintain the highest level of service to Wentzville residents while having a new reliable and secure trailer for Water Division's supplies, tools and equipment while on projects or emergency water repairs.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$20,000	\$20,000	-	-	-	-



# HYDRAULIC HAMMER

**Fund:** Capital

**Department:** Water

**Location:** Citywide

**Project Cost:** \$15,000 | **Outside Funding:** \$-0- | **City Cost:** \$15,000

**Description:** Replacement of hydraulic hammer attachment with adapter plates.

**Justification:** Hammer attachment is used to break pavement to make emergency and routine repairs located in the street, driveway or sidewalk.

**Anticipated Benefit:** Allows the Water Department to maintain reliable construction equipment to reduce the time and cost during emergency repairs and waterline construction projects.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$15,000	\$15,000	-	-	-	-

# PLATE COMPACTOR

**Fund:** Capital

**Department:** Water

**Location:** Citywide

**Project Cost:** \$5,200 | **Outside Funding:** \$-0- | **City Cost:** \$5,200

**Description and Justification:** Funds will be used to purchase a new plate compactor for the mini-excavator for compacting granular fill during waterline installations and replacements in the City and would ensure the compaction rate would prevent the finished asphalt or concrete street from settling.

**Anticipated Benefit:** Ensure the compaction rate of the granular fill will prevent the finished asphalt or concrete street from settling.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$5,200	\$5,200	-	-	-	-

# BOX TRUCK

**Fund:** Capital

**Department:** Water

**Location:** Citywide

**Project Cost:** \$65,000 | **Outside Funding:** \$-0- | **City Cost:** \$65,000

**Description and Justification:** A box truck to replace the current box trailer in 2022 would ensure proper transportation and protection for the supplies, tools and equipment required during a water emergency or projects such as the water main extensions and replacement program.

**Anticipated Benefit:** Allows the Water Division to maintain the high level of service for Wentzville residents by utilizing a reliable and secure trailer for Water Divisions supplies, tools and equipment while on projects or emergency water repairs.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$65,000	-	\$65,000	-	-	-

# 10K GENERATOR

**Fund:** Capital

**Department:** Water

**Location:** Citywide

**Project Cost:** \$6,000 | **Outside Funding:** \$-0- | **City Cost:** \$6,000

**Description and Justification:** The purchase of the 10K Honda Generator will allow crews to work on multiple projects or emergency repair jobs without interruption. Emergency repairs can require multiple pumps, light stands, and power tools that need electrical power in the field. Water crews have to plug and unplug equipment and lighting with the current 5K generator when working on major repairs needing lighting at night.

**Anticipated Benefit:** An additional generator will improve maintenance efficiency allowing multiple work crews to perform night time repairs safely and efficiently and it will become possible to schedule generator supported tasks at different locations concurrently.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$6,000	-	-	-	\$6,000	-

# 1.5-TON 4X4 DUMP TRUCK

**Fund:** Capital

**Department:** Water

**Location:** Citywide

**Project Cost:** \$60,000 | **Outside Funding:** \$-0- | **City Cost:** \$60,000

**Description and Justification:** The purchase of a 1.5-ton dump truck will be used to conduct field and emergency heavy-duty operations and will need to have a electric brake controller, HD class V-hitch and emergency LED lights added to the truck.

**Anticipated Benefit:** The additional vehicle will reduce costs of increasing fleet size while maintaining a reliable fleet to keep water operations running smoothly.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$60,000	-	-	-	-	\$60,000

**Wastewater**

# WASTEWATER

PROJECT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Wastewater	Reclamation Center Expansion – Ph. III and Bio-solids Exp.	6,900,000	-	-	-	-	6,900,000
Wastewater	Biosolids Land Acquisition Payback	227,800	227,800	227,800	227,800	227,800	1,139,000
Wastewater	Norfolk and Southern Lift Station Replacement	-	550,000	-	-	-	550,000
Wastewater	Boone Trail Lift Station	-	150,000	-	-	-	150,000
Wastewater	East Lift Station Replacement	-	30,000	825,000	-	-	855,000
Wastewater	Legion Lift Station	-	-	500,000	-	-	500,000
Wastewater	St. Lukes Lift Station	-	-	150,000	-	-	150,000
Wastewater	MSP Lift Station Replacement	-	-	-	2,547,020	-	2,547,020
Wastewater	Bypass Trunk Relief	-	-	-	200,000	2,100,000	2,300,000
Wastewater	Parr Rd. Lift Station Replacement	-	-	-	150,000	-	150,000
Wastewater	Treatment Unit No. 3 Clarifier Rehab	-	-	-	-	50,000	50,000
Wastewater	HVAC Units	-	-	-	-	15,000	15,000
<b>Wastewater Funded Equipment:</b>							
Wastewater	Lift Station Spare Pumps, VFDs and Replacement	104,000	122,000	86,000	120,000	121,000	553,000
Wastewater	Telehandler Load-All	150,000	-	-	-	-	150,000
Wastewater	Metrotech vLoc/9800 Locator	-	-	5,500	-	-	5,500
Wastewater	Sewer Jet Truck	-	-	-	350,000	-	350,000
<b>TOTAL</b>		7,381,800	1,079,800	1,794,300	3,594,820	2,513,800	16,364,520



# WASTEWATER

EQUIPMENT							
Department	Description	2021	2022	2023	2024	2025	Five Year Total
Wastewater	One-Ton 4x4 Service Pickup Truck	45,000	-	45,000	-	47,000	137,000
Wastewater	Crane Truck	-	125,000	-	-	-	125,000
Wastewater	Sewer Jet Trailer	-	90,000	-	-	-	90,000
Wastewater	UTV and Trailer	-	25,000	-	-	-	25,000
Wastewater	Skid Steer and Brush Hog	-	-	100,000	-	-	100,000
Wastewater	Mini-Excavator	-	-	-	-	100,000	100,000
<b>TOTAL</b>		45,000	240,000	145,000	-	147,000	577,000

TOTAL PROJECTS AND EQUIPMENT						
	2021	2022	2023	2024	2025	Five Year Total
TOTAL	7,426,800	1,319,800	1,939,300	3,594,820	2,660,800	16,941,520

FUNDING SOURCE						
	2021	2022	2023	2024	2025	Five Year Total
Capital Fund	45,000	240,000	145,000	-	147,000	577,000
Wastewater Fund	7,381,800	1,079,800	1,794,300	3,594,820	2,513,800	16,364,520
<b>TOTAL</b>	7,426,800	1,319,800	1,939,300	3,594,820	2,660,800	16,941,520

# RECLAMATION CENTER EXPANSION – PH III and BIO-SOLIDS EXPANSION

**Fund:** Wastewater

**Department:** Wastewater

**Location:** 2455 Mette Rd.

**Project Cost:** \$12,285,000 | **Outside Funding:** \$-0- | **City Cost:** \$12,285,000

**Description:** Treatment Plant Expansion Phase 3 addition of needed additional; treatment unit(s), clarifier(s), bio-solids storage and processing equipment

**Justification:** Expansion will be needed in this timeframe to address continued rapid residential and commercial growth throughout the City.

**Anticipated Benefit:** City will maintain compliance with current NPDES permit for treatment, bio solids disposal and reclamation center will be sized appropriately to accept future growth and development.



FUNDING SCHEDULE						
Total	PRIOR	2021	2022	2023	2024	2025
\$12,285,000	\$5,385,000	\$6,900,000	-	-	-	-

# BIOSOLIDS LAND ACQUISITION PAYBACK

**Fund:** Wastewater

**Department:** Wastewater

**Project Cost:** \$2,442,377 | **Outside Funding:** \$-0- | **City Cost:** \$2,442,377

**Description and Justification:** In 2020, the City purchased land for biosolids land application for a total purchase price of \$2,442,377. Funds in the amount of \$1,303,377 were available in the Wastewater fund for this land purchase. The remaining funds in the amount of \$1,139,000 were transferred from the Capital fund reserve for land acquisition. The \$1,139,000 from the reserve will be fully restored and paid back by the Wastewater fund by 2025 in which transfers of \$227,800 will be completed annually.

**Anticipated Benefit:** To prevent expensive contracted removal expenses, maintain compliance with Current NPDES Permit and avoid MODNR and EPA violations.



FUNDING SCHEDULE						
Total	PRIOR	2021	2022	2023	2024	2025
\$2,442,377	\$1,303,377	\$227,800	\$227,800	\$227,800	\$227,800	\$227,800

# NORFOLK AND SOUTHERN LIFT STATION REPLACEMENT

**Fund:** Wastewater  
**Department:** Wastewater  
**Location:** 101 Edinger Rd.

**Project Cost:** \$550,000 | **Outside Funding:** \$-0- | **City Cost:** \$550,000

**Description and Justification:** Replace Smith and loveless Lift Station (35 years old). Lift Station frame (can unit) has deteriorated to the point replacement is required. Station was constructed in 1981. The lift station will be replaced with the City design standard submersible pump lift station.

**Anticipated Benefit:** This type of station is proposed for safety, uniformity, ease of maintenance, and life cycle costs.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$550,000	-	\$550,000	-	-	-



# BOONE TRAIL LIFT STATION REPLACEMENT

**Fund:** Wastewater

**Department:** Wastewater

**Location:** Boone Trail Lift Station

**Project Cost:** \$150,000 | **Outside Funding:** \$-0- | **City Cost:** \$150,000

**Description:** Replace Smith and Loveless Lift Station (35 years old in 2020). The Lift station frame (can unit) has deteriorated to the point replacement is required.

**Anticipated Benefit:** The new station will provide increased safety and reliability as well as increased pumping efficiency.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$150,000	-	\$150,000	-	-	

# EAST LIFT STATION REPLACEMENT

**Fund:** Wastewater

**Department:** Wastewater

**Location:** 1520 E. Pitman Avenue

**Project Cost:** \$855,000 | **Outside Funding:** \$-0- | **City Cost:** \$855,000

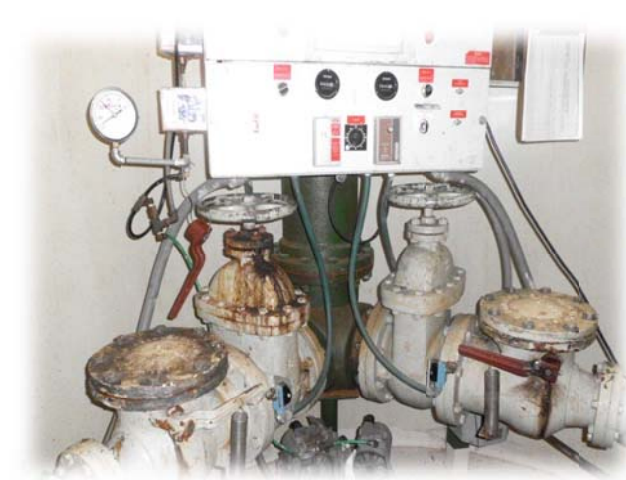
Planning/Engineering - \$30,000

Construction - \$825,000

**Description:** This is a replacement of a 1977 lift station that runs inefficiently and has safety issues. Project will replace 37-year-old, dry-well lift station with submersible pumps and controls. The concrete wet well at this station is showing high deterioration from the hydrogen sulfide (H<sub>2</sub>S). The Engineering Division recommends replacement with the addition of an eight-hour retention tank.

**Justification:** The lift station will be replaced with the City Design Standard submersible pump lift station. This type of lift station is proposed for safety, uniformity, ease of maintenance and lift-cycle costs.

**Anticipated Benefit:** More efficient system for pumping system, increased reliability and operation redundancies needed to ensure continuous operation of this lift station.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$855,000	-	\$30,000	\$825,000	-	-



# LEGION LIFT STATION REPLACEMENT

**Fund:** Wastewater

**Department:** Wastewater

**Location:** 506 Luetkenhaus Blvd.

**Project Cost:** \$500,000 | **Outside Funding:** \$-0- | **City Cost:** \$500,000

**Description and Justification:** Replacement of Legion Lift Station and control panel due to age, condition, and pumping capacity, in an effort to provide adequate service to the related sewer shed in lieu of the US 61 gravity main project per the Wastewater Master Plan.

**Anticipated Benefit:** This type of Lift Station is proposed for safety, uniformity, ease of maintenance, and life cycle costs. It will also increase flow capability, reliability, and operability at this location.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$500,000	-	-	\$500,000	-	-

# ST. LUKES LIFT STATION

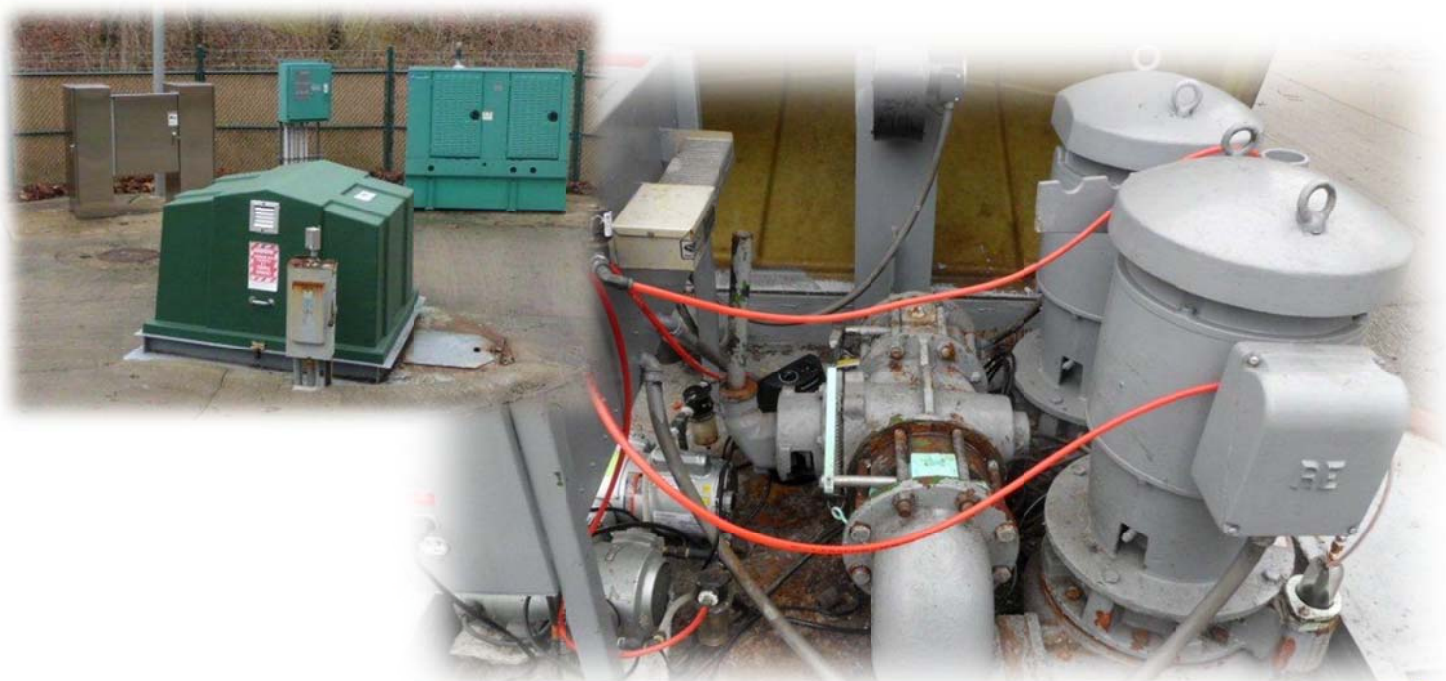
**Fund:** Wastewater  
**Department:** Wastewater  
**Location:** St. Luke’s Lift Station

**Project Cost:** \$150,000 | **Outside Funding:** \$-0- | **City Cost:** \$150,000

**Description:** Replace Smith and Loveless Lift Station (35 years old in 2020). Lift station frame (can unit) has deteriorated to the point replacement is required. Note: Station was constructed in 1985.

**Justification:** Replacement of the current station is needed due to age (34 years) of this type of station. Current condition of station makes extensive rehabilitation unfeasible.

**Anticipated Benefit:** New station will provide increased safety and reliability as well as increased pumping efficiency. Station will be re-engineered to conform to new service area and to better address the flow requirements of new subdivisions and the Quail Ridge Park Lift Station.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$150,000	-	-	\$150,000	-	-

# MSP LIFT STATION REPLACEMENT

**Fund:** Wastewater

**Department:** Wastewater

**Location:** 2355 Mette Rd.

**Project Cost:** \$2,668,020 | **Outside Funding:** \$-0- | **City Cost:** \$2,668,020

**Description:** Replace existing dry well lift station with submersible lift station and control panel and upgrade to 14 to 16-MGD per Wastewater Masterplan capital recommendations. A sluice gate will be installed to control high flow events and direct flows as needed between the MSP and Highway P Lift Stations.

**Justification:** As identified in the Wastewater Collection System Master Plan, the lift station has exceeded its useful life and a new station is needed to provide capacity for future flows as well as to improve operator safety and add redundancy.

**Anticipated Benefit:** More efficient system for pumping system, increased reliability versus a 40-year old deteriorating panel.



## FUNDING SCHEDULE

Total	PRIOR	2021	2022	2023	2024	2025
\$2,668,020	\$121,000	-	-	-	\$2,547,020	-



# BYPASS TRUNK RELIEF

**Fund:** Wastewater

**Department:** Wastewater

**Location:** Highway 61, MSP and Highway P Lift Station

**Project Cost:** \$2,300,000 | **Outside Funding:** \$-0- | **City Cost:** \$2,300,000

**Description and Justification:** Replace and increase capacity of the trunk line in order to enable the Reclamation Center to receive increasing flows as the City experiences increased growth in the related sewer sheds. This will reduce all operations and maintenance costs associated with the existing main and improve system capacity and enable the Wastewater Reclamation Center lift station to receive the flows related to the increased growth.

**Anticipated Benefit:** Improving efficiency, safety, reliability of the collection system by adding additional flow capacity between Highway P Lift and the Reclamation Center per the Wastewater Masterplan recommendations.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$2,300,000	-	-	-	\$200,000	\$2,100,000

# PARR ROAD LIFT STATION REPLACEMENT

**Fund:** Wastewater  
**Department:** Wastewater  
**Location:** Parr Road

**Project Cost:** \$150,000 | **Outside Funding:** \$-0- | **City Cost:** \$150,000

**Description and Justification:** Replace Smith & Loveless Lift Station. The lift station frame has deteriorated to the point where replacement is required. City will replace with similar design station.

**Anticipated Benefit:** New station will provide increased safety and reliability as well as increased pumping efficiency. Existing Smith and Loveless design will prove acceptable and cost effective at this site due to the longevity of the previous station and the flow characteristics of RK Stratmann (sole user).



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$150,000	-	-	-	\$150,000	-

# TREATMENT UNIT NO. 3 CLARIFIER REHAB

**Fund:** Wastewater

**Department:** Wastewater

**Location:** Water Reclamation Center

**Project Cost:** \$50,000 | **Outside Funding:** \$-0- | **City Cost:** \$50,000

**Description and Justification:** Rehabilitation of 20-year old treatment unit 3 clarifier as a preventative maintenance measure for continued and efficient operations until removal from service during the 2030 plant capacity expansion.

**Anticipated Benefit:** To prevent expensive contracted expenses, maintain compliance with current NPDES permits and avoid Missouri DNR and EPA violations.

FUNDING SCHEDULE					
Total \$50,000	2021	2022	2023	2024	2025
	-	-	-	-	\$50,000

## HVAC UNITS

**Fund:** Wastewater

**Department:** Wastewater

**Location:** Water Reclamation Center

**Project Cost:** \$15,000 | **Outside Funding:** \$-0- | **City Cost:** \$15,000

**Description and Justification:** Replacement of the Water Reclamation Center building's HVAC units nearing end of life cycle in the UV building and blower building. The replacement unit will be 8-10 tons for the UV building's secondary unit installed in 2007 and for the blower building #3 installed in 2012.

**Anticipated Benefit:** To prevent expensive contracted expenses and extensive downtime.

FUNDING SCHEDULE					
Total \$15,000	2021	2022	2023	2024	2025
	-	-	-	-	\$15,000



# LIFT STATION SPARE PUMPS, VFDs & REPLACEMENT

**Fund:** Wastewater

**Department:** Wastewater

**Location:** Lift Stations Citywide

**Project Cost:** \$553,000 | **Outside Funding:** \$-0- | **City Cost:** \$553,000

**Description:** Replacement and spare pumps, variable frequency drives and related equipment for the Wastewater Reclamation Center and Collections Systems.

**Justification:** These pumps and VFDs are being budgeted to replace due to age or lack of a spare pump, increased flows, repair, and rebuild history, new pump designs that increase electrical and hydraulic efficiency, and the ability of pumps to pump solids and debris commonly removed from the existing pumps.

**Anticipated Benefit:** Replacement of these pumps will increase efficiency, flow rate and reliability of the related stations for the City and reduce maintenance and repair costs associated with older pumps.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$553,000	\$104,000	\$122,000	\$86,000	\$120,000	\$121,000

# TELEHANDLER LOAD-ALL

**Fund:** Wastewater

**Department:** Wastewater

**Location:** Citywide

**Project Cost:** \$150,000 | **Outside Funding:** \$-0- | **City Cost:** \$150,000

**Description and Justification:** Purchase of a replacement load-all to aide in the Water Reclamation Center operations and maintenance to include loading of trucks and spreaders for bio-solids land application, unloading deliveries and other wastewater or general tasks.

**Anticipated Benefit:** Replacement of the 12-year old existing load-all will improve reliability, efficiency and productivity by minimizing downtime and expensive repairs.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$150,000	\$150,000	-	-	-	-

# METROTECH VLOC/9800 LOCATOR

**Fund:** Wastewater

**Department:** Wastewater

**Location:** Citywide

**Project Cost:** \$5,500 | **Outside Funding:** \$-0- | **City Cost:** \$5,500

**Description:** Metrotech v/Loc 9800 locator used for locating water and sewer mains for Missouri One Call.

**Justification:** Locators are on a five-year replacement plan.

**Anticipated Benefit:** Cycling out locators at five years keeps the City up to date on the utility-locating technology to protect the water and sewer mains from damage.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$5,500	-	-	\$5,500	-	-

# SEWER JET TRUCK

**Fund:** Wastewater

**Department:** Wastewater

**Project Cost:** \$350,000 | **Outside Funding:** \$-0- | **City Cost:** \$350,000

**Description and Justification:** Replacement of Wastewater Division sewer jet truck and transfer existing truck the Stormwater Division to reduce maintenance costs.

**Anticipated Benefit:** Replacement of the Wastewater Division sewer jet truck will increase efficiency, productivity, safety, and reliability of the Collections Division's sewer jetting and maintenance programs



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$350,000	-	-	-	\$350,000	-

# ONE-TON 4X4 SERVICE PICKUP TRUCK

**Fund:** Capital

**Department:** Wastewater

**Project Cost:** \$137,000 | **Outside Funding:** \$-0- | **City Cost:** \$137,000

**Description and Justification:** One-ton service trucks will be used to conduct field maintenance and emergency heavy-duty operations and will include an electric brake controller, HD class V hitch and emergency LED lights.

**Anticipated Benefit:** Rotating out 10-year old trucks will reduce repair costs and improve reliability for emergency service.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$137,000	\$45,000	-	\$45,000	-	\$47,000



# CRANE TRUCK 4X4

**Fund:** Capital

**Department:** Wastewater

**Project Cost:** \$125,000 | **Outside Funding:** \$-0- | **City Cost:** \$125,000

**Description:** Crane truck replacement

**Justification:** The truck will be used to conduct field and emergency heavy-duty operations. It is required that the truck have electric brake controller, HD class V hitch, and emergency LED light added to the truck. Replacing 2009 year old crane truck at the Wastewater Plant.

**Anticipated Benefit:** Rotating out 10-year-old trucks in 2020 will reduce repair cost and improve reliability for emergency service.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$125,000	-	\$125,000	-	-	-



# SEWER JET TRAILER

**Fund:** Capital

**Department:** Wastewater

**Project Cost:** \$90,000 | **Outside Funding:** \$-0- | **City Cost:** \$90,000

**Description and Justification:** Replacement of sewer jet trailer purchased in 2006 to reduce maintenance costs for the old 17 year old trailer.

**Anticipated Benefit:** Replacement of the City's sewer jet trailer will increase efficiency, productivity, safety, and reliability of the Collections Division's sewer jetting and maintenance programs.



FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$90,000	-	\$90,000	-	-	-

# UTV AND TRAILER

**Fund:** Capital

**Department:** Wastewater

**Project Cost:** \$25,000 | **Outside Funding:** \$-0- | **City Cost:** \$25,000

**Description and Justification:** Purchase of a UTV and trailer for creek crossings, trunk line inspections and amp, manhole inspections, easement maintenance and repairs.

**Anticipated Benefit:** Improve reliability, efficiency, productivity and time management.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$25,000	-	\$25,000	-	-	-

# SKID STEER AND BRUSH HOG

**Fund:** Capital

**Department:** Wastewater

**Project Cost:** \$100,000 | **Outside Funding:** \$-0- | **City Cost:** \$100,000

**Description and Justification:** Purchase of skid steer and brush hog for sanitary sewer, manhole repair projects and easement maintenance.

**Anticipated Benefit:** Replacement of a 14-year old skid steer to improve reliability, efficiency, productivity while also minimizing downtime and expensive repairs.

FUNDING SCHEDULE					
Total	2021	2022	2023	2024	2025
\$100,000	-	-	\$100,000	-	-

# MINI-EXCAVATOR

**Fund:** Capital

**Department:** Wastewater

**Project Cost:** \$100,000 | **Outside Funding:** \$-0- | **City Cost:** \$100,000

**Description and Justification:** Purchase of a replacement mini-excavator for sanitary sewer and manhole repair projects.

**Anticipated Benefit:** Allows the Wastewater Division to maintain the high level of repair service to Wentzville residents by having a reliable piece of equipment for projects and emergency repairs. The equipment improves reliability, efficiency and productivity by minimizing downtime and expensive repairs.



FUNDING SCHEDULE					
Total \$100,000	2021	2022	2023	2024	2025
	-	-	-	-	\$100,000



City of Wentzville  
1001 Schroeder Creek Blvd. • Wentzville, MO 63385  
[www.wentzvillemo.org](http://www.wentzvillemo.org) • (636) 327-5101