

Wentzville Missouri[®]

The Crossroads of the Nation

**2020-
2024**

**CAPITAL
IMPROVEMENT
PLAN**



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Introduction



To the Mayor and Board of Aldermen:

I am pleased to transmit to you the proposed 2020-2024 Capital Improvement Plan (CIP).

This proposed plan is not a wish list of unfunded improvements. Rather, it is a well thought out planning document that balances planned capital expenditures with projected revenues. The staff views this document, after review, modification and adoption by the Board, as authorization for a project to move forward for planning purposes. Funds still need to be appropriated through the annual budget process before a project can occur. Nearly all of the items submitted in the CIP were included in the Fund Planners reviewed at the Strategic Goal Setting meetings.

We have instilled a planning discipline in the organization for capital improvements. Theoretically, any new projects should only appear in the fifth year of the plan. You will find that this is the case with the vast majority of items included in the binder. There are also a limited number of changes in this plan from previously submitted CIP documents.

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:

- Continues and enhances the commitment to Downtown
- Develops a strategy to construct new facilities
- Identifies projects that will allow the City to grow responsibly
- Leverages funds from other entities
- Funds the continued maintenance and enhancement of aging infrastructure

The proposed plan calls for the expenditure of \$159,669,816 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,



David Gipson
City Administrator



CAPITAL IMPROVEMENT PLAN

2020-2024

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 2020 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 \$158,669,816 is recommended for capital spending. A breakdown of this \$158 million by department indicates that the Transportation Fund will bear the largest burden of this Five-Year Capital Plan, followed by the Multigenerational Facility in the Park Fund and design and construction of the Wastewater Reclamation Center expansion. Of the total \$158 million in total five-year capital spending, \$68 million (or 43%) 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 \$158 million in capital projects are anticipated over the five-year period 2020-2024. For this five-year period, the largest single year of capital outlay will be fiscal year 2021 followed by fiscal year 2020, which includes the Multigenerational Facility, Wentzville Parkway South and the Reclamation Center and Bio-Solids Building Expansion. The fiscal year 2020 includes pre-construction costs for a new Public Works facility, multiple road projects including David Hoekel Parkway Phase 2ABC, Allen Street Reconstruction from Blumhoff to Locust, Wentzville Parkway South, and the beginning of the Reclamation Center and Bio-Solids Building Expansion. 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 2020, the City will work with Missouri Highways and Transportation Commission and the Missouri Transportation Finance Corporation (MTFC) to enter into a Direct Loan Agreement and Promissory Note in the amount of \$5,000,000 for the construction of David Hoekel Parkway. The remainder of the project will be funded using City, County and State dollars.

CITYWIDE CAPITAL IMPROVEMENT PLAN SUMMARY

PROJECT						
Department	2020	2021	2022	2023	2024	Five Year Total
Information Technology	-	-	-	-	-	-
Community Development	-	-	-	-	-	-
Law Enforcement	82,338	62,338	62,338	62,338	62,338	331,690
Parks	6,435,204	28,163,397	491,806	606,575	834,513	36,531,495
Public Works	2,118,260	500,000	525,000	525,000	9,568,000	13,236,260
Transportation	24,048,451	9,106,698	20,409,125	10,231,345	6,570,000	70,365,619
Water	1,779,000	640,000	610,000	1,155,500	4,850,000	9,034,500
Wastewater	4,474,200	9,404,000	1,272,000	1,281,500	2,430,000	18,861,700
TOTAL	38,9347453	47,876,433	23,370,269	13,862,258	24,314,851	148,361,264

EQUIPMENT						
Department	2020	2021	2022	2023	2024	Five Year Total
Information Technology	133,000	40,000	75,000	45,000	-	293,000
Community Development	106,000	81,300	-	25,000	-	212,300
Law Enforcement	770,717	1,060,110	776,910	999,910	886,910	4,494,557
Parks	434,745	321,450	213,150	309,850	381,000	1,660,195
Public Works	313,500	198,000	88,000	301,000	534,000	1,434,500
Transportation	97,500	316,000	48,500	280,000	30,000	772,000
Water	90,000	15,000	65,000	20,000	6,000	196,000
Wastewater	175,000	45,000	365,000	45,000	616,000	1,246,000
TOTAL	2,120,462	2,076,860	1,631,560	2,025,760	2,453,910	10,308,552

CITYWIDE CAPITAL IMPROVEMENT PLAN SUMMARY

TOTAL PROJECTS AND EQUIPMENT						
	2020	2021	2022	2023	2024	Five Year Total
TOTAL	41,057,915	49,953,293	25,001,829	15,888,018	26,768,761	158,669,816

FUNDING SUMMARY						
Source	2020	2021	2022	2023	2024	Five Year Total
Capital Fund	4,321,060	2,639,198	2,218,898	2,613,098	3,084,248	14,876,502
Park Fund	390,022	251,488	491,806	391,732	804,513	2,329,561
Wentzville Bend Bond Proceeds	5,169,510	27,911,909	-	-	-	33,081,419
Transfer from General Fund Future Road Improvements Assigned Fund Balance	875,672	-	-	-	-	875,672
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	8,373,590	4,859,093	7,349,825	4,888,516	4,970,000	30,441,024
St. Charles County Cost Share	7,850,788	1,941,816	12,821,373	3,344,618	1,600,000	27,558,595
MoDOT Cost Share	2,500,000	-	-	-	-	2,500,000
STP Funding	-	271,789	100,000	1,998,211	-	2,370,000
CMAQ through EWGCOCG	106,073	2,034,000	137,927	-	-	2,278,000
Private Developer	218,000	-	-	-	-	218,000
MoDOT Loan	5,000,000	-	-	-	-	5,000,000
Water Fund	1,779,000	640,000	610,000	1,155,500	4,850,000	9,034,500
Wastewater Fund	4,474,200	9,404,000	1,272,000	1,281,500	2,430,000	18,861,700
Unallocated Funding	-	-	-	-	9,000,000	9,000,000
TOTAL	41,057,915	49,953,293	25,001,829	15,888,018	26,768,761	158,669,816

Information Technology



INFORMATION TECHNOLOGY

EQUIPMENT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Human Resources	Human Resource Information System	25,000	-	-	-	-	25,000
Information Technology	Virtual Desktop Environment	75,000	-	-	-	-	75,000
Police	iRecord Replacement	33,000	-	-	-	-	33,000
Parks	Extend GGL Fiber Network to Ice Arena	-	40,000	-	-	-	40,000
Parks	Extend GGL Fiber Network to Progress Park	-	-	25,000	-	-	25,000
Court	Content Manager	-	-	50,000	-	-	50,000
Administration	Copier	-	-	-	15,000	-	15,000
Information Technology	Mid-Size SUV	-	-	-	30,000	-	30,000
TOTAL		133,000	40,000	75,000	45,000	-	293,000

FUNDING SOURCE						
	2020	2021	2022	2023	2024	Five Year Total
Capital Fund	133,000	40,000	75,000	45,000	-	293,000
TOTAL	133,000	40,000	75,000	45,000	-	293,000

HUMAN RESOURCE INFORMATION SYSTEM

Fund: Capital

Department: Information Technology – Human Resources

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

Description: Purchase of a human resource information system for data entry, data tracking and data information requirements of the human resources management and payroll operations. This program may replace several other programs currently in operation, including applicant tracking, onboarding, learning management system, performance tracking and timekeeping.

Justification: A human resource information system would expand the capabilities of the current programs, streamline data entry, enhance the end-user experience and provide additional compliance assistance.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$25,000	\$25,000	-	-	-	-

VIRTUAL DESKTOP ENVIRONMENT

Fund: Capital

Department: Information Technology

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

Description: Transition from a physical desktop environment to a virtual desktop environment.

Justification: In 2019, more than 60 work stations/laptops will be due to recapitalization (roughly costing \$60,000). The return on investment on not only the physical hardware, but energy costs would pay for itself over the next 36 months. It would be more cost effective to move to a virtual desktop environment solution, while also creating a more versatile environment for remote capabilities.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$75,000	\$75,000	-	-	-	-

IRecord Replacement

Fund: Capital

Department: Information Technology – Police

Project Cost: \$33,000 | **Outside Funding:** \$-0- | **City Cost:** \$33,000

Description: The current iRecord system used to record interviews and interrogations in the Detective Bureau has reached the end of life and needs to be replaced.

Justification: The Police Department has experienced several issues over the past year with the system crashing. Replacing the current iRecord system will provide the Police Department with a reliable recording system.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$33,000	\$33,000	-	-	-	-

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	2020	2021	2022	2023	2024
\$40,000	-	\$40,000	-	-	-

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	2020	2021	2022	2023	2024
\$25,000	-	-	\$25,000	-	-

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, offer through Tyler Technologies, 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	2020	2021	2022	2023	2024
\$50,000	-	-	\$50,000	-	-

COPIER

Fund: Capital

Department: Administration

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

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 \$4,000.

Justification: Newer copiers produce better quality prints and faster service when making copies and scanning.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$15,000	-	-	-	\$15,000	-

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	2020	2021	2022	2023	2024
\$30,000	-	-	-	\$30,000	-

Community Development



COMMUNITY DEVELOPMENT

EQUIPMENT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Planning & Zoning	E-Permitting Software	80,000	-	-	-	-	80,000
Building Inspection	Compact SUV	26,000	56,000	-	-	-	82,000
Building Inspection	½-Ton 4x4 Pickup Truck	-	25,300	-	25,000	-	50,300
TOTAL		106,000	81,300	-	25,000	-	212,300

FUNDING SOURCE							
		2020	2021	2022	2023	2024	Five Year Total
Capital Fund		106,000	81,300	-	25,000	-	212,300
TOTAL		106,000	81,300	-	25,000	-	212,300

ELECTRONIC PERMITTING SOFTWARE PORTAL

Fund: Capital

Department: Community Development – Planning and Zoning

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

Description and Justification: Acquire the services of a multi-disciplined software vendor to provide Wentzville an e-permitting/on-line customer portal with mobile application which will coordinate payments with current Incode system and coordinate with Laserfiche data storage investment practiced by the City. City administrative staff and the IT Director have reviewed, via demos, various vendors to seek information on the available software. The selected vendor is envisioned to have comprehensive capacity to address this e-permitting software and coordinate with Public Works ESRI GIS platform and work/asset management software.

Anticipated Benefit: Going paperless is a stated goal of the department. Customer interaction and response via tracking permits in real time and receiving e-mail notifications of inspections accomplished and permit steps accomplished is a common practice. Growth will be sustained in the City for the foreseeable future, and permitting activity will remain strong. The chosen vendor will have a workflow advance that assist staff in review and processing permits and improves customer response timeframes and customer experience.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$80,000	\$80,000	-	-	-	-

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	2020	2021	2022	2023	2024
\$82,000	\$26,000	\$56,000	-	-	-

1/2-TON 4x4 PICKUP TRUCK					
FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$50,300	-	\$25,300	-	\$25,000	-

Law Enforcement



LAW ENFORCEMENT

PROJECT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Law Enforcement	Guaranteed Energy Savings	62,338	62,338	62,338	62,338	62,338	311,690
Law Enforcement	Retaining Wall	20,000	-	-	-	-	20,000
TOTAL		82,338	62,338	62,338	62,338	62,338	331,690

EQUIPMENT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Law Enforcement	Video Scopes	21,000	-	-	-	-	21,000
Law Enforcement	Copier	17,000	-	-	-	-	17,000
Law Enforcement	Voice to Text Software	-	55,200	-	-	-	55,200
Law Enforcement	Canine	40,000	-	-	-	-	40,000
Law Enforcement	Multi-Purpose Incident Command Vehicle	-	250,000	-	-	-	250,000
Law Enforcement	Firearms Simulator and Equipment	-	-	-	125,000	-	125,000
Law Enforcement	Long Gun	-	-	-	51,000	-	51,000
Law Enforcement	John Deere Side by Side	-	-	-	25,000	-	25,000
Law Enforcement	Drone and Sensors (2)	-	-	-	-	66,000	66,000
Law Enforcement	911 Maintenance	63,259	63,259	63,259	63,259	63,259	316,295
Law Enforcement	Axon Flex Taser Program	80,458	120,651	120,651	120,651	120,651	563,062
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	480,000	500,000	520,000	540,000	560,000	2,600,000
Law Enforcement	Motorcycle and Equipment/Set-Up (less trade-in)	26,000	28,000	30,000	32,000	34,000	150,000
TOTAL		770,717	1,060,110	776,910	999,910	886,910	4,494,557

LAW ENFORCEMENT

TOTAL PROJECTS AND EQUIPMENT						
	2020	2021	2022	2023	2024	Five Year Total
TOTAL	853,055	1,122,448	839,248	1,062,248	949,248	4,826,247

FUNDING SOURCE						
	2020	2021	2022	2023	2024	Five Year Total
Capital Fund	853,055	1,122,448	839,248	1,062,248	949,248	4,826,247
TOTAL	853,055	1,122,448	839,248	1,062,248	949,248	4,826,247

GUARANTEED ENERGY SAVINGS

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	2020	2021	2022	2023	2024
\$311,690	\$62,338	\$62,338	\$62,338	\$62,338	\$62,338

RETAINING WALL

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Boulevard

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

Description and Justification: Replacement of the southwest retaining wall by the sally port.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$20,000	\$20,000	-	-	-	-

VIDEO SCOPES

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Boulevard

Project Cost: \$21,000 | **Outside Funding:** \$-0- | **City Cost:** \$21,000

Description and Justification: Purchase of two Optim Freedom View video scopes used for searching vehicles for hidden contraband without having to physically take apart the vehicle.

Anticipated Benefit: The Police department is stepping up interdiction efforts on Highway 70 and this tool will help reduce the flow of contraband and currency through the City.

FUNDING SCHEDULE					
Total	2020 (2)	2021	2022	2023	2024
\$21,000	\$21,000	-	-	-	-

COPIER

Fund: Capital

Department: Law Enforcement

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

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	2020	2021	2022	2023	2024
\$17,000	\$17,000	-	-	-	-

VOICE TO TEXT SOFTWARE

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Boulevard

Project Cost: \$55,200 | **Outside Funding:** \$-0- | **City Cost:** \$55,200

Description and Justification: Software that allows officers to narrate reports so that they can keep their eyes on their environment rather than on a computer screen.

Anticipated Benefit: Safer, more efficient police officers.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$55,200	-	\$55,200	-	-	-

CANINE

Fund: Capital
Department: Law Enforcement

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

Description and Justification: The Police Department is requesting the addition of a canine, handler and associated equipment. The City’s current canine will reach half of his service life in 2020. The request of an additional dog is an effort to have an overlap of experienced and inexperienced canines for the Department’s use.

Anticipated Benefit: An additional 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	2020	2021	2022	2023	2024
\$40,000	\$40,000	-	-	-	-

MULTI-PURPOSE INCIDENT COMMAND VEHICLE

Fund: Capital

Department: Law Enforcement

Project Cost: \$250,000



Outside Funding: \$-0-



City Cost: \$250,000

Description and Justification: A multi-purpose incident command vehicle would be outfitted with communication equipment, computers and other electronics to be used during a critical incident response.

Anticipated Benefit: Added ability of the Police Department staff to provide an appropriate response to emergency situations and to bring equipment to bear quickly that will mitigate said emergency situations.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$250,000	-	\$250,000	-	-	-

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	2020	2021	2022	2023	2024
\$125,000	-	-	-	\$125,000	-

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	2020	2021	2022	2023	2024
\$51,000	-	-	-	\$51,000	-

JOHN DEERE SIDE BY SIDE

Fund: Capital

Department: Law Enforcement

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

Description and Justification: Replacement of the current side by side used by the Police Department and Parks Department for special events and patrol functions.

Anticipated Benefit: A more efficient patrol operation.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$25,000	-	-	-	\$25,000	-

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 \$66,000	2020	2021	2022	2023	2024
	-	-	-	-	\$66,000

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 \$316,295	2020	2021	2022	2023	2024
	\$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: \$563,062 | **Outside Funding:** \$-0- | **City Cost:** \$563,062

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	2020	2021	2022	2023	2024
\$563,062	\$80,458	\$120,651	\$120,651	\$120,651	\$120,651

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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023	2024
\$2,600,000	\$480,000	\$500,000	\$520,000	\$540,000	\$560,000

MOTORCYCLE					
FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$150,000	\$26,000	\$28,000	\$30,000	\$32,000	\$34,000



Parks and Recreation



PARKS & RECREATION

PROJECT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Maintenance	RTU for Locker Rooms	75,900	-	-	-	-	75,900
Maintenance	Baseball Field Improvements	43,750	-	-	-	-	43,750
Ice Arena	Black Rink Rehabilitation	204,000	-	-	-	-	204,000
Administration	Multigenerational Facility	5,994,266	27,911,909	-	-	-	33,906,175
Maintenance	Maintenance Shed Build Out – Phase II	25,000	25,000	25,000	25,000	25,000	125,000
Maintenance	Public Park Facility Improvements	92,288	94,338	94,594	90,750	91,775	463,745
Ice Arena	Front Entry – Drainage, ADA Issues and Sidewalk Replace	-	48,400	-	-	-	48,400
Maintenance	Progress Park Playground Resurfacing	-	83,750	-	-	-	83,750
Maintenance	Preventative Maintenance Asphalt Parking Lots and Trails	-	-	97,674	49,000	54,525	201,199
Maintenance	Public Park Outdoor Improvements	-	-	81,488	83,025	83,025	247,538
Maintenance	Shade Structure	-	-	43,050	-	43,050	86,100
Maintenance	Heartland Park Trail Extension	-	-	-	358,800	-	358,800
Ice Arena	Crack Seal Parking Lots and Access Road	-	-	-	-	62,888	62,888
Maintenance	Lighted Aeration Fountain at Heartland Park	-	-	-	-	61,250	61,250
Maintenance	Synthetic Surfacing at Heartland Park Fields 1 and 2	-	-	-	-	363,000	363,000
Maintenance	Fishing Dock at Heartland Park	-	-	-	-	50,000	50,000
Parks & Recreation Funded Equipment:							
Ice Arena	Ice Resurfacer	-	-	150,000	-	-	150,000
TOTAL		6,435,204	28,163,397	491,806	606,575	834,513	36,531,495

PARKS & RECREATION

EQUIPMENT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Capital Funded Projects:							
Ice Arena	Ice Arena Debt Service	100,000	100,000	100,000	100,000	100,000	500,000
Maintenance	ADA Vestibule	104,995	-	-	-	-	104,995
Maintenance	ADA Sidewalk Replacement	-	25,000	-	25,000	-	50,000
Horticulture & For	6x4 Turf Gator	13,000	-	-	-	-	13,000
Horticulture & For	Compact Utility Tractor	15,000	-	-	-	-	15,000
Horticulture & For	45' Bucket Truck	79,650	-	-	-	-	79,650
Parks	3/4-Ton 4x4 Pickup Trucks	104,300	-	-	30,150	-	134,450
Horticulture & For	1-Ton 4x4 Pickup Trucks	-	100,300	-	-	-	100,300
Maintenance	14' Dual Pivot Hooklift Attachment	-	55,000	-	-	-	55,000
Recreation	AWD Crossover	-	25,150	-	-	-	25,150
Horticulture & For.	Utility Vehicle	-	-	11,000	-	-	11,000
Horticulture & For	Articulating Slope Mower	-	-	25,000	-	-	25,000
Horticulture & For	Compact Mini Skid Loader	-	-	35,000	-	-	35,000
Administration	4-Door Passenger Car	-	-	25,650	-	-	25,650
Recreation	1/2-Ton 4x4 Extended Cab Pickup Truck	-	-	-	27,150	-	27,150
Maintenance	LED Informational Sign	-	-	-	17,000	-	17,000
Horticulture & For	60" Zero Turn Mower	-	-	-	10,500	-	10,500
Horticulture & For	72" Zero Turn Mowers	-	-	-	24,000	12,000	36,000
Horticulture & For	16' Equipment Trailer	-	-	-	8,050	-	8,050
Horticulture & For	Sprayer	-	-	-	15,000	-	15,000
Horticulture & For	Deep Tine Aerator	-	-	-	18,000	-	18,000
Horticulture & For	Z-Trac Midmount Mower	-	-	-	18,500	18,500	37,000

PARKS & RECREATION

EQUIPMENT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Maintenance	Mini-Excavator	-	-	-	-	65,000	65,000
Horticulture & For	ProGator Utility Vehicle	-	-	-	-	25,000	25,000
Horticulture & For	Skidloader	-	-	-	-	65,000	65,000
Horticulture & For	Medium-Duty Single-Axle 4x4 Truck Chassis	-	-	-	-	78,500	78,500
Recreation	Holiday Lights Display	17,800	16,000	16,500	16,500	17,000	83,800
TOTAL		434,745	321,450	213,150	309,850	381,000	1,660,195

TOTAL PROJECTS AND EQUIPMENT						
	2020	2021	2022	2023	2024	Five Year Total
TOTAL	6,869,949	28,484,847	704,956	916,425	1,215,513	38,191,690

FUNDING SOURCE						
	2020	2021	2022	2023	2024	Five Year Total
Capital Fund	434,745	321,450	213,150	309,850	381,000	1,660,195
Park Fund	390,022	251,488	491,806	391,732	804,513	2,329,561
Wentzville Bend Bond Proceeds	5,169,510	27,911,909	-	-	-	33,081,419
Transfer from General Fund Future Road Improvements Assigned Fund Balance	875,672	-	-	-	-	875,672
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	6,869,949	28,484,847	704,956	916,425	1,215,513	38,191,690

ROOF TOP UNIT FOR LOCKER ROOMS

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

Project Cost: \$75,900 | **Outside Funding:** \$-0- | **City Cost:** \$75,900

Description: Funds will be used to purchase two new roof top units for providing air conditioning to the locker rooms at the Progress Park Recreation Center. If possible, the funding will also include funding to screen the new units to be in compliance with the City’s building codes.

Justification: The Recreation Center currently uses only outside air and a series of fans to cool the air in the locker rooms. However, these locker rooms are used by the public year round and at certain times of the year the locker rooms are quite uncomfortable because of the outside air temperatures. Heating is provided by a separate system and is ducted from a significant distance away. This inefficient system has resulted in numerous complaints about the temperature in the lobby and locker rooms when the outside temperatures are very high or very low. Staff has worked with engineers to design a much more compact and efficient system for heating and cooling the air in that space. The system is comprised of two new roof top units that will work independently and control each of the locker areas.

Anticipated Benefit: The City can expect to see some long-term benefits associated with customer satisfaction when using the facility.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$75,900	\$75,900	-	-	-	-

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	2020	2021	2022	2023	2024
\$43,750	\$43,750	-	-	-	-

BLACK RINK REHABILITATION

Fund: Parks & Recreation

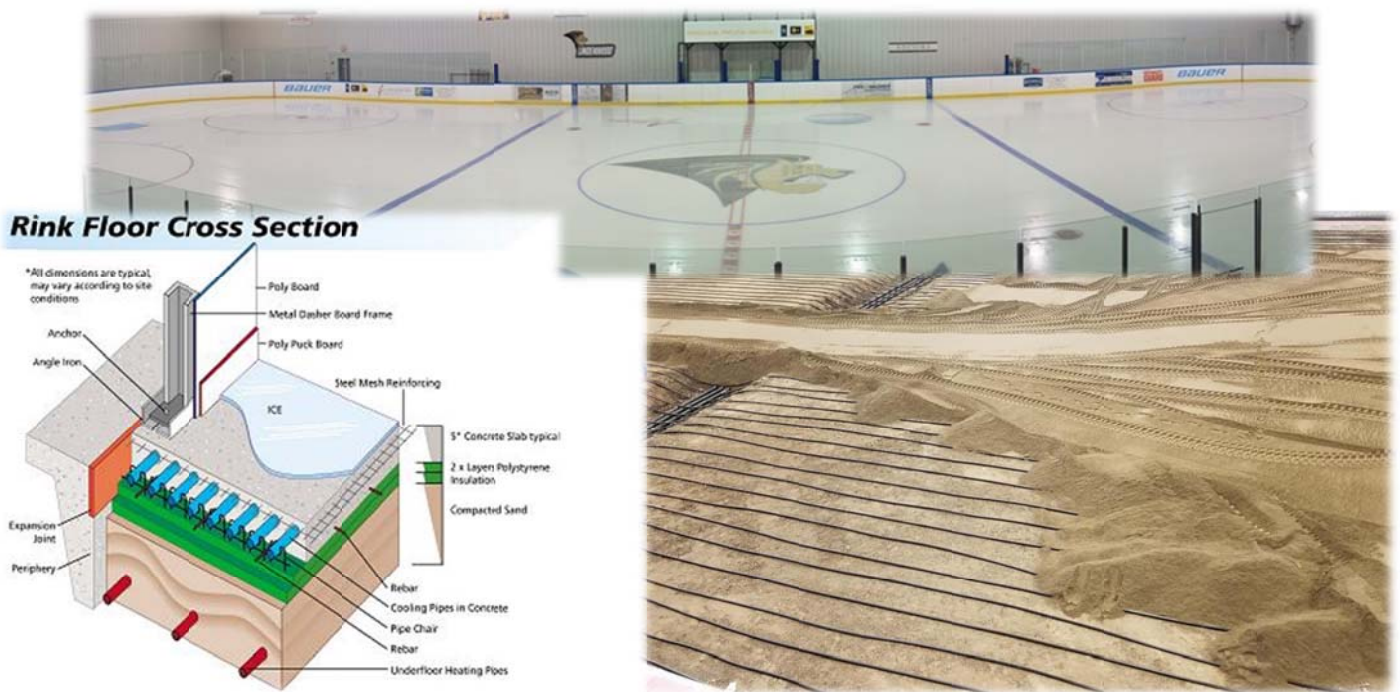
Department: Ice Arena

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	2020	2021	2022	2023	2024
\$204,000	\$204,000	-	-	-	-

MULTIGENERATIONAL FACILITY

Fund: Parks & Recreation

Department: Administration

Location: Wentzville Bend

Project Cost: \$40,000,000 | **Outside Funding:** \$38,300,916 | **City Cost:** \$1,699,084

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 - \$38,300,916

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	2020	2021	2022	2023	2024
	\$6,093,825	\$5,994,266	\$27,911,909	-	-	-
Bond Proceeds	\$5,219,497	\$5,169,510	\$27,911,909	-	-	-
Transfer from Assigned Fund Balance	\$874,328	\$875,672	-	-	-	-

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					
Total	2020	2021	2022	2023	2024
\$125,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000

PUBLIC PARK FACILITY IMPROVEMENTS

Fund: Parks & Recreation

Department: Maintenance

Location: Citywide

Project Cost: \$463,745 | **Outside Funding:** \$-0- | **City Cost:** \$463,745

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:

2020: Replace a treadmill (1 of 5) at PPRC (\$7,500); Fitness Equipment Replacement (1 of 8) at PPRC (\$4,000); Kitchen/Storage remodel at PPBH (\$27,000); Ceiling Treatment for PPRC Lobby (\$8,500); Prox Reader for Arena Entrance (\$5,500); Arena Locker Room 1 & 2 (\$19,000); Insurance Contingency (\$19,000)

2021: Replace a treadmill (2 of 5) at PPRC (\$7,500); Fitness Equipment Replacement (2 of 8) at PPRC (\$4,000); Arena Locker Room 3 & 4 (\$19,000); Fit Floor at PP (\$10,000); Renovate Outdoor Restrooms at PP (\$8,000); Restroom Renovation at PPBH (\$19,000); Sewer Connection at Firehouse/Rotary (\$6,000) ; Insurance Contingency (\$19,000)

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	2020	2021	2022	2023	2024
\$463,745	\$92,288	\$94,338	\$94,594	\$90,750	\$91,775

FRONT ENTRY – DRAINAGE, ADA ISSUES AND SIDEWALK REPLACEMENT

Fund: Parks & Recreation

Department: Ice Arena

Location: Ice Arena

Project Cost: \$48,400 | **Outside Funding:** \$-0- | **City Cost:** \$48,400

Description and Justification: The front entry to the Ice Arena currently has poor drainage and this leads to pooling during large rain events. Over time, walkways can settle, parking lots raise due to mill & overlays, sediment is deposited along sidewalks and/or turf builds up creating drainage issues that did not exist when the building was new. A combination of these issues have created an issue where water pools at the front entrance and, during very large rain events, even backups inside of the building. In the past, this moisture has caused damage to the adhesive and floor tiles in the entry.

Staff is proposing to remove the current concrete in order to regrade the area, add drains, address ADA push buttons and replace the current sidewalk to alleviate these issues.

Anticipated Benefit to the City: With the purchase of the Ice Arena, staff will be working to complete a significant amount of deferred maintenance. The renovation to the front entrance will improve the drainage around the front of the building and will eliminate future maintenance issues.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$48,400	-	\$48,400	-	-	-

PREVENTATIVE MAINTENANCE PROGRAM FOR ASPHALT PARKING LOTS AND TRAILS

Fund: Parks & Recreation

Department: Maintenance

Location: Citywide

Project Cost: \$201,199 | **Outside Funding:** \$-0- | **City Cost:** \$201,199

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:

1. Crack seal and top coat, perhaps some spot repairs to the base are needed as well for the Parking Lot in Memorial Park
2. Crack seal and top coat Asphalt Trail in Rotary Park
3. Install new trail in missing section of PVP near Peruque Creek
4. Full depth repair bad spots and overlay access road behind Ice Arena
5. Spot repairs at Rotary Park from Fire House to bleachers and add an additional shoulder to lower loop
6. Connection from South parking area to ballfields at Memorial Park



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	2020	2021	2022	2023	2024
\$201,199	-	-	\$97,674	\$49,000	\$54,525

PUBLIC PARK OUTDOOR IMPROVEMENTS

Fund: Parks & Recreation

Department: Maintenance

Location: Citywide

Project Cost: \$247,538 | **Outside Funding:** \$-0- | **City Cost:** \$247,538

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	2020	2021	2022	2023	2024
\$247,538	-	-	\$81,488	\$83,025	\$83,025

SHADE STRUCTURE

Fund: Parks & Recreation
Department: Maintenance
Location: Progress Park and Rotary Park

Project Cost: \$86,100 | **Outside Funding:** \$-0- | **City Cost:** \$86,100

Description: Funds will be utilized to design, purchase and install additional shade structures at the playground that are located in Progress Park (2022) and Rotary Park (2024). The intent is to design and install a 4-post sun shade structure that will shade most of the playground equipment during the summer time. Similar shade structures were installed at the newest playground in Heartland Parks (Jake’s Field of Dreams).

Justification: Shade structures were not included at these facilities when the Progress Park or Rotary Park playgrounds was purchased and installed. Staff has received numerous complaints from parents whose small children have been hurt when playing on the playgrounds or sliding on the slides. The plastics used to manufacture the slides and other playground components get very hot during the daytime.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$86,100	-	-	\$43,050	-	\$43,050

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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023	2024
\$83,750	-	\$83,750	-	-	-

CRACK SEAL PARKING LOTS AND ACCESS ROAD

Fund: Parks & Recreation

Department: Ice Arena

Location: Ice Arena

Project Cost: \$62,888 | **Outside Funding:** \$-0- | **City Cost:** \$62,888

Description and Justification: The current parking lots for the Ice Arena are in need of having the cracks sealed to ensure the pavement does not have moisture penetrating under it and causing movement issues with freeze and thaw. This project will also include restriping all of the parking lines throughout the complex.

The East parking lot contains 32 spots and is constructed of asphalt pavement and asphalt curbing. Overall the pavement is in average condition as of 2019, and is reaching the end of its projected lifecycle.

The West parking lot includes 258 spots and is constructed of asphalt and the existing curbing is also asphalt. The curbing is broken in a few locations where it was likely struck by a snow plow. The center of the parking lot appears to either hold water or water is percolating up through the asphalt pavement and remains wet most of the time. Overall the pavement is in average condition as of 2019 and it, too, is reaching the end of its lifecycle.

The Rear Access Road is approximately 250' in length and, as of 2019; the majority of the pavement appears to be in average condition. There are, however, two areas where the payment has failed and is in need of a full depth removal and replacement. The areas hold a considerable amount of water and could cause further failure of the surrounding pavement if water is allowed to continue to penetrate the sub-surfacing. Staff will remove and replace the failed asphalt and seal the remainder of the cracks in the roadway.

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 project will provide some added longevity to the life span of this asphalt.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$62,888	-	-	62,888	-	-

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	2020	2021	2022	2023	2024
\$61,250	-	-	-	-	\$61,250
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

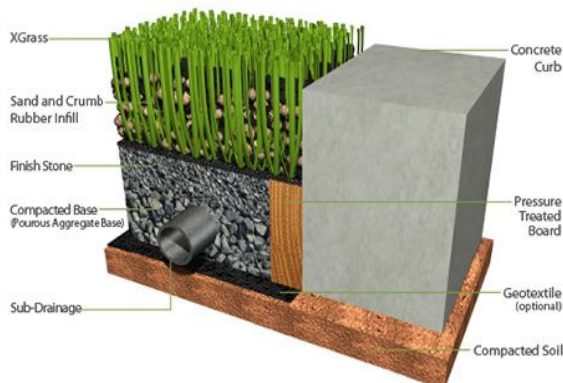
Description and Justification: Funds will be used to remove and replace synthetic surfacing on Fields #1 (2024) and #2 (2026) at Heartland Park. These surfaces were installed in 2014 and are approaching the end of their product life cycle.

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	2020	2021	2022	2023	2024
\$363,000	-	-	-	-	\$363,000

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 \$50,000	2020	2021	2022	2023	2024
	-	-	-	-	\$50,000
CAP Grant	-	-	-	-	\$15,000

ICE RESURFACER

Fund: Parks & Recreation

Department: Ice Arena

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

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	2020	2021	2022	2023	2024
\$150,000	-	-	\$150,000	-	-

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	2020	2021	2022	2023	2024	FUTURE
\$2,000,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,400,000

ADA VESTIBULE

Fund: Capital
Department: Maintenance
Location: Progress Park Hall Banquet Center

Project Cost: \$104,995 | **Outside Funding:** \$-0- | **City Cost:** \$104,995
 Capital Fund - \$104,995

Description: Purchase and install a new ADA vestibule at the Progress Park Banquet Center.

Justification: The building currently has a single set of doors between the interior and exterior of the building. This creates heating and cooling inefficiencies due to the direct exchange of air. While this occurs every time the doors are open and closed, it is most noticeable during the summer and winter seasons each year. The need is further emphasized by the fact that the area immediately inside the door is work out space for fitness classes or seating space for banquet guests utilizing the center. The solution is to install a second set of doors and create a vestibule that allows for a small area to pre-heat/cool the air thus minimizing the amount of temperature change inside the building. Typically, this is done by simply using aluminum storefront and installing a small heating cooling system to control the temperature in that space.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$104,995	\$104,995	-	-	-	-

ADA SIDEWALK REPLACEMENT/IMPROVEMENTS

Fund: Capital

Department: Maintenance

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

Capital Fund - \$50,000
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	2020	2021	2022	2023	2024
\$50,000	-	\$25,000	-	\$25,000	-

6X4 TURF GATOR

Fund: Capital

Department: Horticulture & Forestry

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

Description: Funds will be used to purchase a John Deere 6X4 utility vehicle as part of a scheduled replacement program. The TH 6X4 Gator is the mid-level unit with a 20HP/4-cycle engine, 1,400lb towing capacity and 1,400lb payload capacity.

This unit is replacing a 2007 light duty Bobcat utility vehicle. Because of its light-duty construction, the utility vehicle that is being replaced has very limited use beyond transporting personnel and minor equipment to/from job sites. Staff is proposing to replace this unit with a more functional mid-level utility vehicle with a payload capable of handling bulk materials. The John Deere 6X4 Turf Gator has one of the bigger payload capacities (1,400 lbs.) in this class on the market and has a proven track record for the type of use being proposed.

The unit being replaced may rotate to the Public Works Department because they have expressed an interest in this unit for conducting their slab condition surveys. The life cycle of this type of equipment is expected to be six years or 2,800 hours.

Justification: Staff is seeking to replace the light duty utility vehicles with a unit that has a more robust payload capacity to ensure the new unit has more capabilities than that of a people mover.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$13,000	\$13,000	-	-	-	-

COMPACT UTILITY TRACTOR

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 25 HP tractor with turf tires for Park Horticulture & Forestry staff. This unit will replace a 1990 John Deere 770. This unit is used by Horticulture & Parks staff in the execution of the turf -maintenance program. It pulls seeders, fertilizing attachments, aerators, top dressers and turf-vac equipment. Parts are increasingly hard to obtain due to the age of the unit. The anticipated life cycle of the new unit is expected to be 20 years or 5,000 hours.

Justification: This unit is almost 30 years old and has passed its expected useful life and is in need of replacement to avoid escalating maintenance costs.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$15,000	\$15,000	-	-	-	-

45' BUCKET TRUCK

Fund: Capital

Department: Horticulture & Forestry

Project Cost: \$79,650 | **Outside Funding:** \$-0- | **City Cost:** \$79,650

Description: Funds will be used to purchase a used 45' bucket truck to be used by the Park Operations division to trim trees, install/service security equipment, work on ball field lights and hang Christmas decorations/lights.

Justification: This equipment will allow staff to more efficiently perform routine tasks that are often performed from a basket mounted on a telehandler. This practice is neither safe nor efficient. This equipment will allow for better positioning of equipment and personnel at greater heights thus making the work safer for all involved.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$79,650	\$79,650	-	-	-	-

3/4-TON 4X4 PICKUP TRUCK

Fund: Capital

Department: Administration, Maintenance, Horticulture & Forestry

Project Cost: \$134,450 | **Outside Funding:** \$-0- | **City Cost:** \$134,450

Description and Justification:

1. In the Administrative Division the funds will be used to purchase a new work truck for the Park Planner / Project Manager. One of the key roles of this position is to plan and design Capital Improvement Projects and oversee on all aspects of the construction process as the projects are being constructed. The Park Planner / Project Manager position was approved in the 2019 budget but staff did not include a vehicle for the position when preparing the necessary forms. This truck is used in a diverse role similar to those performed in the Park Operations Division. The vehicle is used for hauling materials/equipment and pulling trailers/equipment to and from job sites.
2. In the Park Operations Division, the funds will be used to purchase a replacement truck for the Park Facility Maintenance Unit. The truck is replacing outgoing truck #806 which is 2002 Chevy 3/4-Ton 4X4 Pickup with a standard cab. This vehicle is currently eighteen (18) years old and has 90,040 miles on it. The replacement vehicle will be outfitted with an extended cab, utility bed and power inverter to better assist work crews in the field with having all of the needed resources (tools, power, and staff) available when on the job site.
3. 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 #821 which is 2002 Chevy 2500HD Truck - 3/4-Ton pickup with a standard cab and 4X4 package. This vehicle is currently eighteen (18) years old and has 85,928 miles on it. The unit is currently assigned to operations at Peruque Valley Park and the vehicle is used to pull equipment trailers, haul fertilizers/chemicals and meet general transportation needs. The replacement vehicle will be outfitted similarly to the outgoing unit.
4. 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 (continued)

Administration: Typically, vehicles are included with new personnel requests when the position warrants a vehicle. It was an oversight that led to a vehicle not being included in the request that was considered during the 2019 City budget process.

Maintenance: This vehicle (#806) is used in daily facility 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. Often, there are times when the demands of the job site require access to electric to operate power tools and none is readily available. The setup of this unit minimizes additional trips to the shop.

Horticulture & Forestry: This vehicle (#821) rotated out of the Public Works fleet in 2017 but the Parks and Recreation Department needed to retain the vehicle to replace a unit in its fleet that was experiencing significant mechanical issues. Since this was a “holdover” unit the replacement vehicle has been rescheduled earlier within the five-year program.

Horticulture & Forestry: This vehicle (#802) is a straight forward scheduled replacement.

3/4-TON 4X4 PICKUP TRUCK WITH EXTENDED CAB					
FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$32,150	\$32,150	-	-	-	-

3/4-TON 4X4 PICKUP TRUCK WITH UTILITY BED, EXTENDED CAB AND POWER INVERTER					
FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$42,000	\$42,000	-	-	-	-

3/4-TON 4X4 PICKUP TRUCK WITH STANDARD CAB					
FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$60,300	\$30,150	-	-	\$30,150	-

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	2020	2021	2022	2023	2024
\$48,150	-	\$48,150	-	-	-

1-TON 4X4 CREW CAB PICKUP TRUCK WITH STANDARD CAB/LS BED/HOIST					
FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$52,150	-	\$52,150	-	-	-

14' DUAL PIVOT HOOK LIFT ATTACHMENT

Fund: Capital

Department: Maintenance

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

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	2020	2021	2022	2023	2024
\$55,000	-	\$55,000	-	-	-

AWD CROSSOVER

Fund: Capital

Department: Recreation

Project Cost: \$25,150 | **Outside Funding:** \$-0- | **City Cost:** \$25,150

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	2020	2021	2022	2023	2024
\$25,150	-	\$25,150	-	-	-

UTILITY VEHICLE

Fund: Capital

Department: Horticulture & Forestry

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	2020	2021	2022	2023	2024
\$11,000	-	-	\$11,000	-	-

ARTICULATING SLOPE MOWER

Fund: Capital

Department: Horticulture & Forestry

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	2020	2021	2022	2023	2024
\$25,000	-	-	\$25,000	-	-

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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023	2024
\$25,650	-	-	\$25,650	-	-

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	2020	2021	2022	2023	2024
\$27,150	-	-	-	\$27,150	-

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	2020	2021	2022	2023	2024
\$17,000	-	-	-	\$17,000	-

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	2020	2021	2022	2023	2024
\$10,500	-	-	-	\$10,500	-

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	2020	2021	2022	2023 (2)	2024
\$36,000	-	-	-	\$24,000	\$12,000

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	2020	2021	2022	2023	2024
\$8,050	-	-	-	\$8,050	-

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	2020	2021	2022	2023	2024
\$15,000	-	-	-	\$15,000	-

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	2020	2021	2022	2023	2024
\$18,000	-	-	-	\$18,000	-

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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023	2024
\$25,000	-	-	-	-	25,000

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	2020	2021	2022	2023	2024
\$65,000	-	-	-	-	\$65,000

MEDIUM-DUTY SINGLE-AXLE 4X4 TRUCK CHASSIS

Fund: Capital

Department: Horticulture & Forestry

Project Cost: \$78,500 | **Outside Funding:** \$-0- | **City Cost:** \$78,500

Description: Funds will be used to purchase a medium-duty 4X4 single-axle truck chassis for the Park Operations Division. This unit will be replacing a 2004 GMC C4500 Topkick 4X4 truck with standard cab and flatbed.

This vehicle was transferred from the Public Works Department in 2016 and is used by Park Operations for hauling materials/equipment and pulling trailers/equipment to and from job sites. The anticipated life cycle of the new unit is expected to be 10 years or 100,000 miles.

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.

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

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$78,500	-	-	-	-	\$78,500

HOLIDAY LIGHTS DISPLAY

Fund: Capital
Department: Recreation
Location: Rotary Park

Project Cost: \$83,800 | **Outside Funding:** \$-0- | **City Cost:** \$83,800

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	2020	2021	2022	2023	2024
\$83,800	\$17,800	\$16,000	\$16,500	\$16,500	\$17,000

Public Works



PUBLIC WORKS

PROJECT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
PW – Admin	Public Works Facility (60% Funding Contribution)	1,608,000	-	-	-	9,000,000	10,608,000
PW – Admin	First Responder Memorial	10,260	-	-	-	-	10,260
PW – Admin	Roof Replacement – 310 W. Pearce Blvd.	-	-	-	-	18,000	18,000
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	100,000	125,000	125,000	150,000	600,000
TOTAL		2,118,260	500,000	525,000	525,000	9,568,000	13,236,260

EQUIPMENT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
PW – Admin	Asset Management Software	60,000	-	-	-	-	60,000
PW – Admin	Mary Martha HVAC	14,800	-	-	-	-	14,800
PW – Engineering	Metrotech vLoc/9800 Locator	5,200	-	-	-	-	5,200
PW – Street Sign.	One-Ton Dump Truck w/Plow and Spreader	92,000	94,000	-	-	-	186,000
PW – Engineering	1/2-Ton 4X4 Pickup Truck	33,000	70,000	-	35,000	-	138,000
PW	1-Ton 4x4 Service Truck (2)	102,000	-	-	-	-	102,000
PW – Stwtr./Adm	Colorado Crew Cab 4x4	-	34,000	-	-	35,000	69,000
PW – Facility Op.	Compact SUV	-	-	-	-	26,000	26,000
PW – Facility Op.	Drop Spreader for Compact Utility Tractor	6,500	-	-	-	-	6,500
PW – Facility Op.	HVAC Maintenance Van	-	-	41,000	-	-	41,000
PW – Street Sign.	Concrete Saw	-	-	34,000	-	-	34,000
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

PUBLIC WORKS

EQUIPMENT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
PW – Stormwater	Vac-con Truck	-	-	-	-	310,000	310,000
PW – Stormwater	Skid-Steer Loader	-	-	-	-	70,000	70,000
PW – Stormwater	One-Ton Truck with Utility Bed	-	-	-	-	51,000	51,000
PW – Street Sign.	Trailer-Mounted Attenuator	-	-	-	-	25,000	25,000
PW – Facility Op.	Utility Trailer	-	-	-	-	7,000	7,000
PW – Fleet	Hydraulic Crimping Machine	-	-	-	-	10,000	10,000
TOTAL		313,500	198,000	88,000	301,000	534,000	1,434,500

TOTAL PROJECTS AND EQUIPMENT						
	2020	2021	2022	2023	2024	Five Year Total
TOTAL	2,431,760	698,000	613,000	826,000	10,102,000	14,670,760

FUNDING SOURCE						
Source	2020	2021	2022	2023	2024	Total
Capital Fund	2,431,760	698,000	613,000	826,000	1,102,000	5,660,500
<i>Unallocated Funding</i>	-	-	-	-	9,000,000	9,000,000
TOTAL	2,431,760	698,000	613,000	826,000	10,102,000	14,670,760

PUBLIC WORKS FACILITY

Fund: Capital, Transportation, Water

Department: Public Works – Administration

Location: TBD

Project Cost: \$12,980,000 | **Outside Funding:** \$-0- | **City Cost:** \$12,980,000

Capital Fund - \$2,908,000

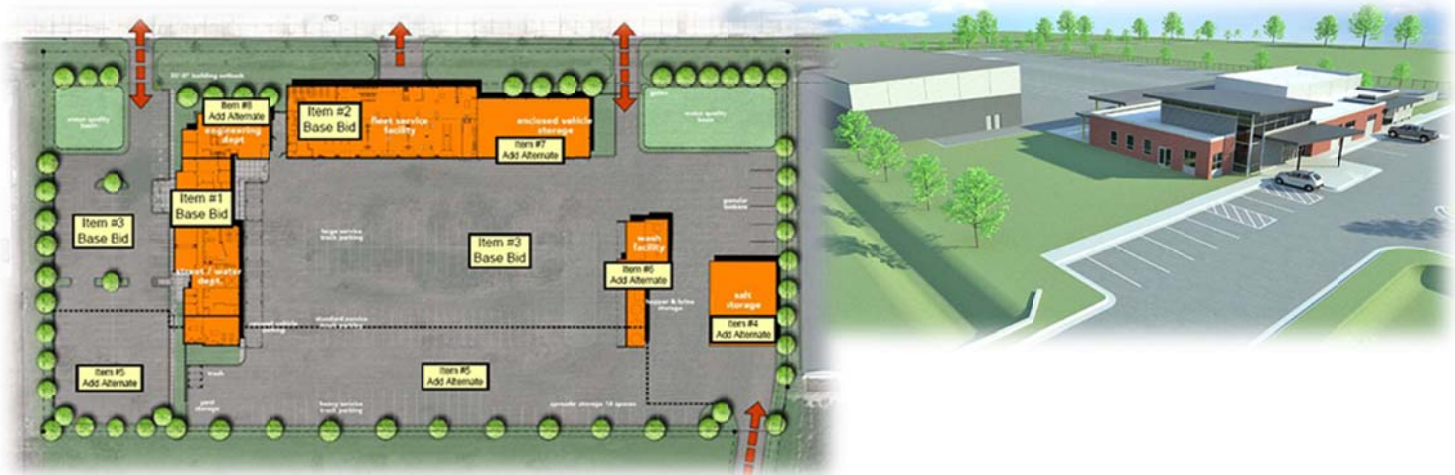
Unallocated Funding - \$9,000,000

Transportation Fund 20% - \$536,000

Water Fund 20% - \$536,000

Description and Justification: The existing Public Works Facility reached capacity in 2012 and needs to be relocated to a larger land space to accommodate the equipment and material storage needs for the ongoing growth of the City. A Public Works Facility preliminary design was underway when it was determined by the Board that a City Hall project would be prioritized ahead of it. The City Administrator directed staff to delay the Public Works replacement facility for 6 to 8 years and make minimal improvements and existing facility expansions for that timeline.

Anticipated Benefit: This investment will improve safety of operations, productivity and addresses NPDES permit compliance for all field operations. The investment improves productivity by adding mechanic bays and efficiency improvements for repair and maintenance of vehicles and equipment. The facility provides secure space for material and equipment storage for all Public Works divisions including Water and Wastewater Collections. The design includes larger protected salt storage bays and will contain heated storage for weather sensitive equipment and energy efficient lighting and HVAC.



FUNDING SCHEDULE						
Total	PRIOR	2020	2021	2022	2023	2024
\$12,980,000	\$1,300,000	\$2,680,000	-	-	-	\$9,000,000

FIRST RESPONDER MEMORIAL

Fund: Capital

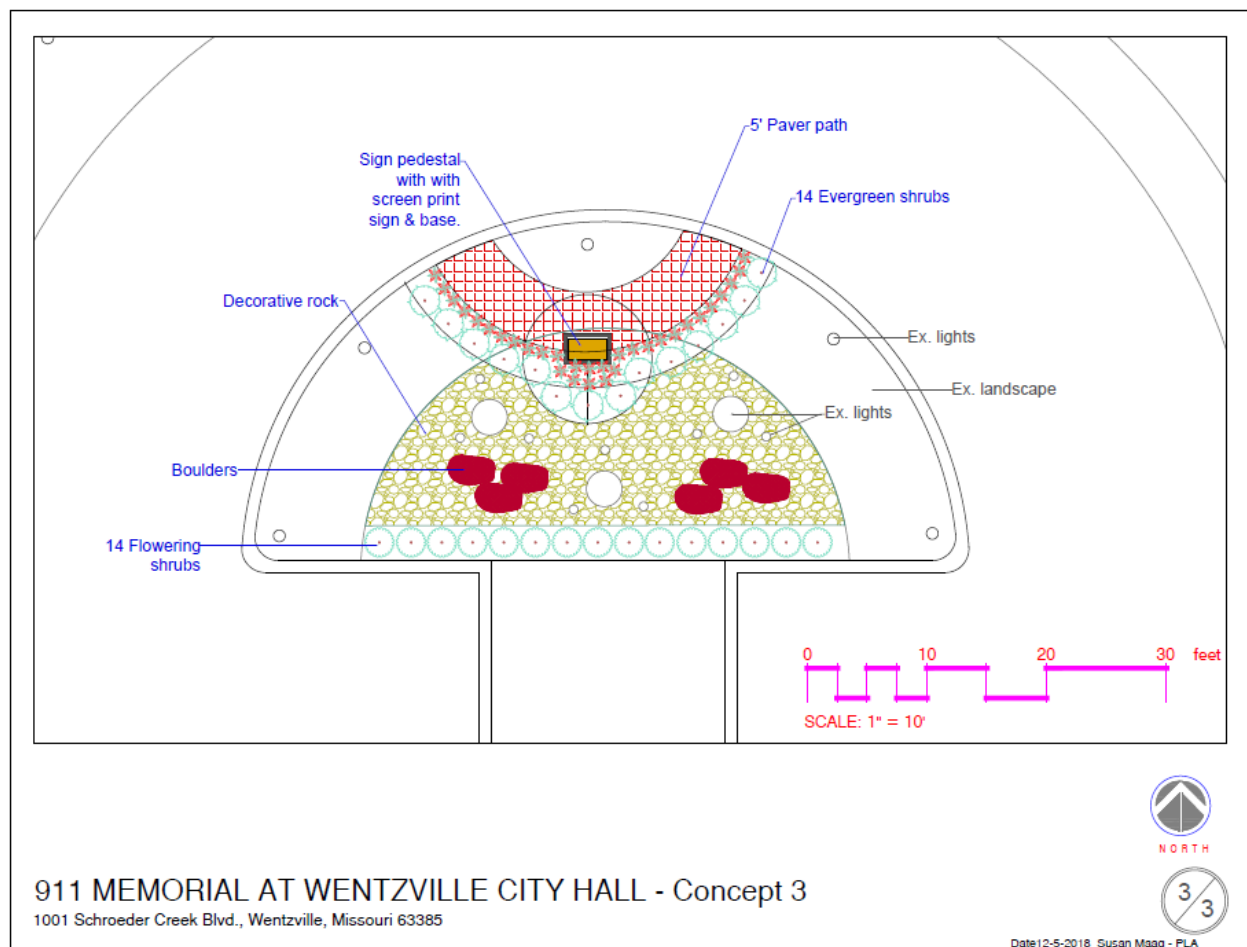
Department: Public Works – Administration

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	2020	2021	2022	2023	2024
\$10,260	\$10,260	-	-	-	-

ROOF REPLACEMENT – 310 W. PEARCE BLVD.

Fund: Capital
Department: Public Works – Administration
Location: 310 W. Pearce Blvd.

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

Description and Justification: Scheduled roof replacement of the former City Hall located at 310 W. Pearce Blvd. In 2024, the roof will be over 22 years old and is experiencing isolated deterioration that can be repaired at this time but will need to be addressed with a complete replacement in the future if the building continues to be occupied.

Anticipated Benefit: Will help to maintain the building as a viable structure and prevent any damage associated with a leaking aging roof.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$18,000	-	-	-	-	\$18,000

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 will be used to acquire land for the new Public Works Facility, schedule for design in 2019 and construction in 2020.

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	2020	2021	2022	2023	2024
\$2,000,000	\$800,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000

STORMWATER MAINTENANCE RESERVE

Fund: Capital

Department: Public Works – Stormwater

Location: Citywide

Project Cost: \$600,000 | **Outside Funding:** \$-0- | **City Cost:** \$600,000

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 updates to the Master Plan, inspection and repair of aging infrastructure, large scale replacement and maintenance, 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	2020	2021	2022	2023	2024
\$600,000	\$300,000	\$100,000	\$100,000	\$125,000	\$125,000	\$150,000

ASSET MANAGEMENT SOFTWARE

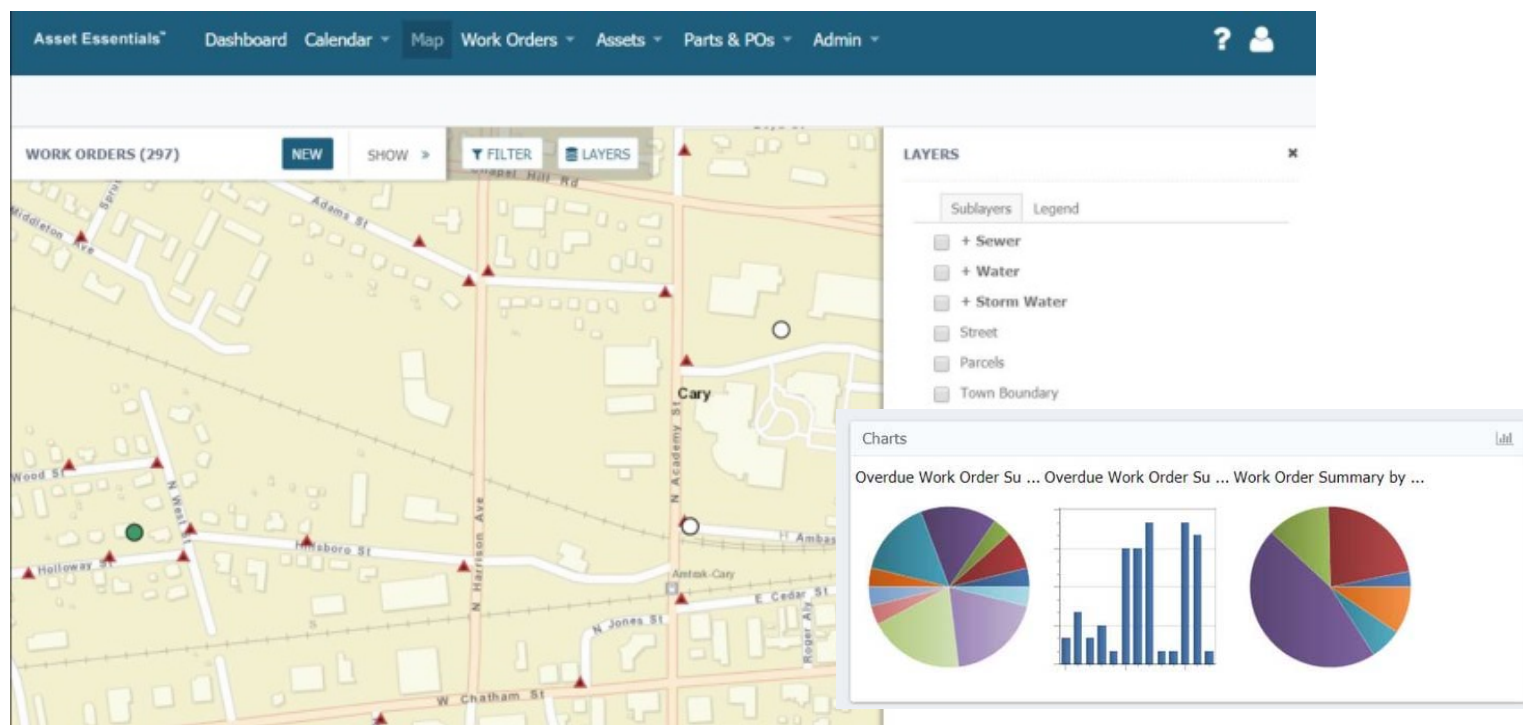
Fund: Capital

Department: Public Works – Administration

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

Description and Justification: Purchase of an asset management software for use across all Public Works Divisions as well as Parks and IT for work orders. Would include onsite assessment of all equipment and systems to inventory, barcode and generate manufacturer specified preventative maintenance schedules. With the growing size and complexity of City facilities, this would provide a more reliable comprehensive method of performing maintenance, tracking repairs and planning for the future.

Anticipated Benefit: Would significantly reduce hours required to manually track preventative maintenance schedules on spreadsheets or hard copies. Allow any authorized staff access to repair records as well as assist in scheduling all preventative maintenance activities and use in forecasting capital replacement based on complete repair costs. New systems also utilize GIS so work orders or tickets are automatically show geospatially so that optimum scheduling can be completed.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$60,000	\$60,000	-	-	-	-

HVAC UNIT AT MARY MARTHA

Fund: Capital

Department: Public Works – Administration

Location: Mary Martha

Project Cost: \$14,800 | **Outside Funding:** \$-0- | **City Cost:** \$14,800

Description and Justification: Replacement of aging HVAC unit at Mary Martha thrift shop which will lower repair cost of two units, one that was installed in 2001 and another that was installed in 2005.

Anticipated Benefit: Lower energy and maintenance costs.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$14,800	\$14,800	-	-	-	-

METROTECH VLOC/9800 LOCATOR

Fund: Capital

Department: Public Works – Engineering

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

Description and Justification: Purchase of a Metrotech vLoc 9800 locator for Engineering Division to use to verify tracer wire on water line and sanitary force mains during development construction. The locator will improve response time during development insuring functioning wire and also provide a back up to water or streets locators if necessary.

Anticipated Benefit: Improved response time on locates and provide a consistent backup to existing equipment.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$5,200	\$5,200	-	-	-	-

ONE-TON DUMP TRUCK WITH PLOW AND SPREADER

Fund: Capital

Department: Public Works – Stormwater and Streets and Signals

Location: Street Division

Project Cost: \$186,000 | **Outside Funding:** \$-0- | **City Cost:** \$186,000

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. Addition of new one ton outfitted with plow and spreader for proposed Stormwater personnel in 2020.

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

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$186,000	\$92,000	\$94,000	-	-	-

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.

½-TON 4x4 PICKUP TRUCK (Engineering)					
FUNDING SCHEDULE					
Total	2020	2021 (2)	2022	2023	2024
\$138,000	\$33,000	\$70,000	-	\$35,000	-

1-TON 4x4 SERVICE TRUCK (Fleet and Facility Operations)					
FUNDING SCHEDULE					
Total	2020 (2)	2021	2022	2023	2024
\$102,000	\$102,000	-	-	-	-

COLORADO CREW CAB 4x4					
FUNDING SCHEDULE					
Total - \$69,000	2020	2021	2022	2023	2024
Stormwater	-	\$34,000	-	-	-
Administration	-	-	-	-	\$35,000

COMPACT SUV (Facility Operations)					
FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$26,000	-	-	-	-	\$26,000

DROP SPREADER FOR COMPACT UTILITY TRACTOR

Fund: Capital

Department: Public Works – Facility Operations

Project Cost: \$6,500 | **Outside Funding:** \$-0- | **City Cost:** \$6,500

Description: Drop spreader attachment for the compact utility tractor.

Justification: Drop spreader will help facilitate the removal of snow and ice from sidewalks and walkways during winter events. Mountable unit will improve efficiency and overall effectiveness.

Anticipated Benefit: Drop spreader will more effectively use salt reducing usage as well as damage to vegetation near walkways resulting from use of broadcast spreaders.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$6,500	\$6,500	-	-	-	-

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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023 (2)	2024
\$16,000	-	-	-	\$16,000	-

VAC-CON TRUCK

Fund: Capital

Department: Public Works – Stormwater

Project Cost: \$310,000 | **Outside Funding:** \$-0- | **City Cost:** \$310,000

Description and Justification: Replace an outdated 2002 model of similar nature that exhibits considerable wear and tear. This Vac-Con truck 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	2020	2021	2022	2023	2024
\$310,000	-	-	-	-	\$310,000

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	2020	2021	2022	2023	2024
\$70,000	-	-	-	-	\$70,000

ONE-TON TRUCK WITH UTILITY BED

Fund: Capital

Department: Public Works – Stormwater

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

Description and Justification: This one-ton truck equipped with a utility bed for tool storage and accessibility would replace a similar 3/4-ton 2007 model that is reaching the end of its service life.

Anticipated Benefit: Reduction in operating costs associated with an aging truck as well as provides a safe reliable vehicle to perform maintenance and respond to concerns.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$51,000	-	-	-	-	\$51,000

TRAILER-MOUNTED ATTENUATOR

Fund: Capital

Department: Public Works – Streets & Signals

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

Description and Justification: Purchase of a trailer-mounted attenuator that will be attached to the rear of an existing truck and be used to provide an additional safety measure in a higher speed or unusual work zone. An impact attenuator, also known as a crash cushion, crash attenuator, is a device intended to reduce the damage to structures, vehicles, and motorists resulting from a motor vehicle collision. Impact attenuators are designed to absorb the colliding vehicle's kinetic energy.

Anticipated Benefit: This unit will add an additional layer of safety when work zones are required on higher speed limit streets. The reason for attaching a truck-mounted attenuator is to protect those involved in crashes. Truck-mounted attenuators offer protection by absorbing the energy of the crash when there's an accident. This reduces the impact on both the rear vehicle and the truck, protecting the vehicles and the people inside.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$25,000	-	-	-	-	\$25,000

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	2020	2021	2022	2023	2024
\$7,000	-	-	-	-	\$7,000

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	2020	2021	2022	2023	2024
\$10,000	-	-	-	-	\$10,000

Transportation



TRANSPORTATION

PROJECT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Transp. – Admin	Public Works Facility (20% Funding Contribution)	536,000	-	-	-	-	536,000
Transp. – Admin	Allen Street Reconstruction – Blumhoff to Locust	1,850,000	-	-	-	-	1,850,000
Transp. – Admin	David Hoekel Parkway Phase 2ABC	16,230,000	-	-	-	-	16,230,000
Transp. – Admin	David Hoekel Parkway Phase 2D	380,000	275,000	5,105,000	3,072,000	-	8,832,000
Transp. – Admin	West Pearce Blvd. and Meyer Rd. Traffic Signal	60,000	552,000	-	-	-	612,000
Transp. – Admin	Highway Z and Interstate Drive Right Turn Lane	22,591	5,000	172,409	-	-	200,000
Transp. – Admin	Wentzville Parkway South - Phase I	145,000	4,394,000	-	-	-	4,539,000
Transp. – Admin	Wentzville Parkway South - Phase II	702,860	-	8,597,140	-	-	9,300,000
Transp. – Admin	Wentzville Parkway South – Phase 2A	762,000	-	-	-	-	762,000
Transp. – Admin	Peine Road Safety Improvements	-	322,453	200,000	1,977,547	-	2,500,000
Transp. – Admin	Highway 61 Outer Road – Phase 2A – Parkway Turn Lane	-	65,043	2,224,576	-	-	2,289,619
Transp. – Admin	West Pearce Blvd. Pavement Rehabilitation	-	138,202	-	1,261,798	-	1,400,000
Transp. – Admin	Historic Downtown Revitalization – Pearce/Allen Corridor	-	-	500,000	500,000	750,000	1,750,000
Transp. – Admin	Historic Downtown Revitalization – Main/Pearce/Meyer/Pitman Corridor	-	-	500,000	500,000	750,000	1,750,000
Transp. – Admin	Great Oaks Blvd. Extension	-	-	-	120,000	2,000,000	2,120,000
Transp. – Admin	Parkway Ridge Dr. Extension	-	-	-	-	65,000	65,000
Transp. – Admin	Fiber Optic Connection	-	-	-	-	35,000	35,000
Transp.–Streets	Contracted Street and Sidewalk Maintenance	3,200,000	3,000,000	2,800,000	2,800,000	2,800,000	14,600,000
Transportation Funded Equipment:							
Transp.–Streets	Single-Axle Dump Truck w/Plow and Spreader	160,000	165,000	170,000	-	170,000	665,000
Transp.–Streets	Backhoe	-	-	140,000	-	-	140,000
Transp.–Streets	Tandem-Axle Dump Truck w/Plow and Spreader	-	190,000	-	-	-	190,000
TOTAL		24,048,451	9,106,698	20,409,125	10,231,345	6,570,000	70,365,619

TRANSPORTATION

EQUIPMENT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Transp. – Streets	Vibratory Roller	50,000	-	-	-	-	50,000
Transp. – Streets	LED Information Sign	17,500	18,000	18,500	-	-	54,000
Transp. – Streets	Skid Steer Loader	-	63,000	-	-	-	63,000
Transp. – Streets	Crack-Sealer Machine	-	60,000	-	-	-	60,000
Transp. – Streets	Tractor with ROW Mowing Arm	-	145,000	-	155,000	-	300,000
Transp. – Streets	ROW Brush Hog	-	-	-	25,000	-	25,000
Transp. – Streets	Track Skid Loader	-	-	-	70,000	-	70,000
Transp. – Streets	Traffic Signal Detection Camera	30,000	30,000	30,000	30,000	30,000	150,000
TOTAL		97,500	316,000	48,500	280,000	30,000	772,000

TOTAL PROJECTS AND EQUIPMENT							
	2020	2021	2022	2023	2024	Five Year Total	
TOTAL	24,145,951	9,422,698	20,457,625	10,511,345	6,600,000	71,137,619	

TRANSPORTATION

FUNDING SOURCE						
Source	2020	2021	2022	2023	2024	Total
Capital Fund	97,500	316,000	48,500	280,000	30,000	772,000
Transportation Fund	8,373,590	4,859,093	7,349,825	4,888,516	4,970,000	30,441,024
St. Charles County Cost Share	7,850,788	1,941,816	12,821,373	3,344,618	1,600,000	27,558,595
MoDOT Cost Share	2,500,000	-	-	-	-	2,500,000
STP Funding	-	271,789	100,000	1,998,211	-	2,370,000
CMAQ through EWGCOCG	106,073	2,034,000	137,927	-	-	2,278,000
Private Developer	218,000	-	-	-	-	218,000
MoDOT Loan	5,000,000	-	-	-	-	5,000,000
TOTAL	24,145,951	9,422,698	20,457,625	10,511,345	6,600,000	71,137,619

PUBLIC WORKS FACILITY

Fund: Capital, Transportation, Water

Department: Public Works – Administration

Location: TBD

Project Cost: \$12,980,000 | **Outside Funding:** \$-0- | **City Cost:** \$12,980,000

Capital Fund - \$2,908,000

Unallocated Funding - \$9,000,000

Transportation Fund 20% - \$536,000 (2020)

Water Fund 20% - \$536,000 (2020)

Description and Justification: The existing Public Works Facility reached capacity in 2012 and needs to be relocated to a larger land space to accommodate the equipment and material storage needs for the ongoing growth of the City. A Public Works Facility preliminary design was underway when it was determined by the Board that a City Hall project would be prioritized ahead of it. The City Administrator directed staff to delay the Public Works replacement facility for 6 to 8 years and make minimal improvements and existing facility expansions for that timeline.

Anticipated Benefit: This investment will improve safety of operations, productivity and addresses NPDES permit compliance for all field operations. The investment improves productivity by adding mechanic bays and efficiency improvements for repair and maintenance of vehicles and equipment. The facility provides secure space for material and equipment storage for all Public Works divisions including Water and Wastewater Collections. The design includes larger protected salt storage bays and will contain heated storage for weather sensitive equipment and energy efficient lighting and HVAC.



FUNDING SCHEDULE

Total	PRIOR	2020	2021	2022	2023	2024
\$12,980,000	\$1,300,000	\$2,680,000	-	-	-	\$9,000,000

ALLEN STREET RECONSTRUCTION – BLUMHOFF TO LOCUST

Fund: Transportation

Department: Administration

Location: Allen Street from Blumhoff to Locust

Project Cost: \$1,850,000 | **Outside Funding:** \$-0- | **City Cost:** \$1,850,000

Description and Justification: Complete reconstruction of Allen Street with pedestrian improvements, on street parking and esthetic enhancements.

Anticipated Benefit: The project will provide additional parking spaces for downtown businesses and encourage pedestrian travel through improved sidewalks and esthetic enhancements including landscaping and lighting. The design was completed in 2019 as part of the Downtown Revitalization Study and follows prior studies and downtown projects. This is the start of a phased project that will eventually connect Allen Street with Luetkenhaus Blvd. to improve traffic flow and provide alternative access during periods of high traffic volume.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$1,850,000	\$1,850,000	-	-	-	-

DAVID HOEKEL PARKWAY – PHASE 2ABC

Fund: Transportation

Department: Administration

Location: I-70 west of Point Prairie from Goodfellow to Interstate Drive

Project Cost: \$25,010,000 | **Outside Funding:** \$17,767,000 | **City Cost:** \$7,243,000

Design (2017) - \$1,695,000

Supplemental Design, ROW, Utilities, CE, Access Road Construction (2018) - \$7,085,000

Interchange Construction and Enhancements (2019) – \$16,230,000

Cost Share with St. Charles County - \$12,767,000

MoDOT Cost Share - \$5,000,000

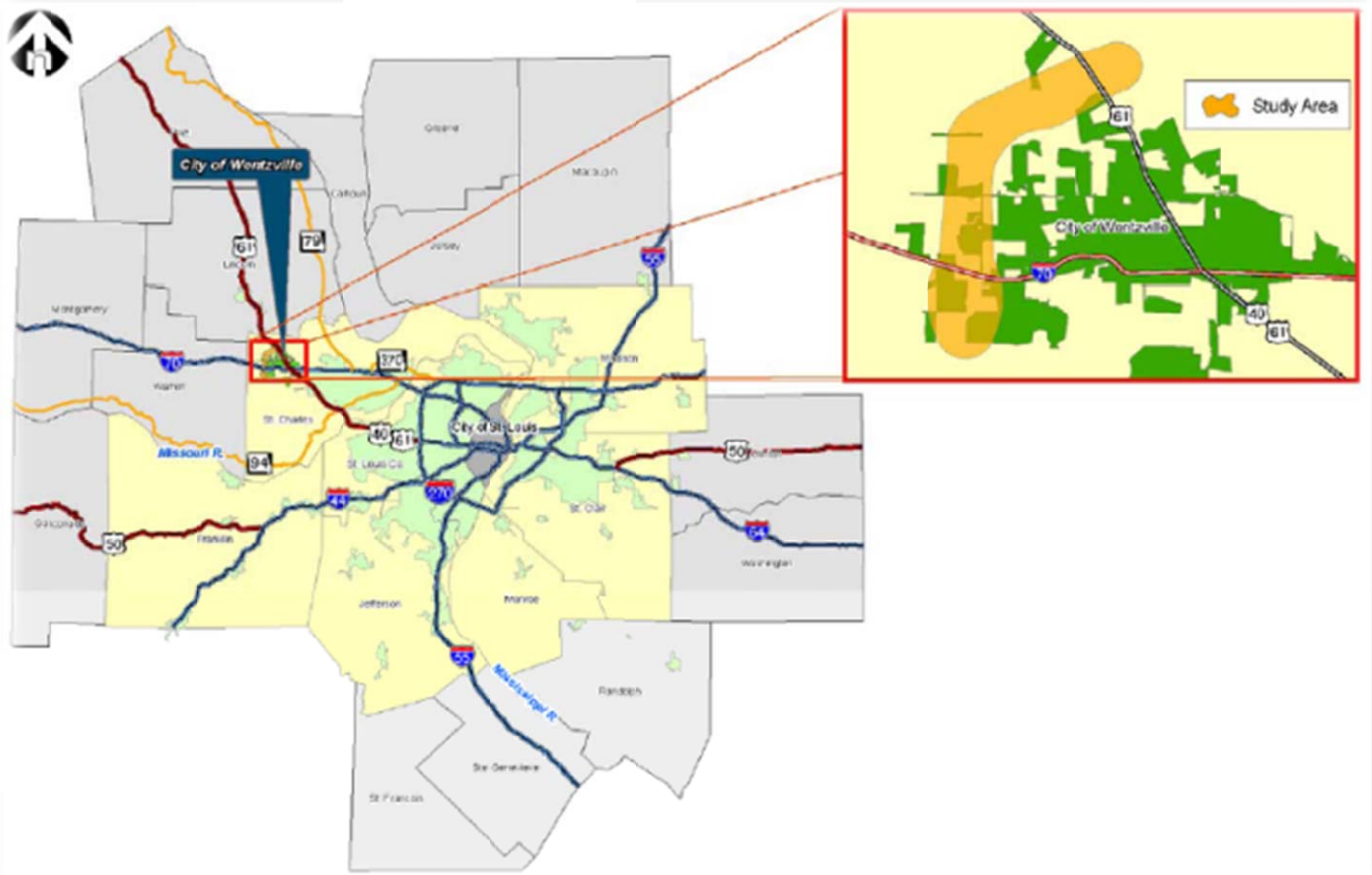
MoDOT Loan - \$5,000,000

Description and Justification: Construction of an interchange at I-70 and new roadways to connect from Interstate Drive to Goodfellow Road. This project provides a 4-ramp interchange at I-70 to mitigate congestion and improve safety by reducing peak hour traffic backups on I-70 and on Wentzville Parkway. The project consists of three phases: 2A – Realignment of North Outer Road, 2B – Interchange, and 2C – Roadway Extension to Interstate Drive.

Anticipated Benefit: This project will improve safety for drivers and open a new corridor for economic development while providing access to alternate travel routes to and from I-70, I-64/364 and Highway 61.

FUNDING SCHEDULE						
	DHP 2A and DHP 2B	DHP 2B and DHP 2C				
Total	PRIOR	2020	2021	2022	2023	2024
\$25,010,000	\$ 8,780,000	\$16,230,000	-	-	-	-
St. Charles County	\$ 6,176,000	\$6,591,000	-	-	-	-
MoDOT Cost Share	\$2,500,000	\$2,500,000	-	-	-	-
MoDOT Loan	-	\$5,000,000	-	-	-	-

DAVID HOEKEL PARKWAY – PHASE 2ABC



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

Cost Share with St. Charles County (80/20) - \$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

	2020	2021	2022	2023	2024
Total \$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. AND MEYER ROAD TRAFFIC SIGNAL

Fund: Transportation

Department: Administration

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

Project Cost: \$700,000 | **Outside Funding:** \$630,000 | **City Cost:** \$70,000

Planning/Engineering - \$88,000

Pre-Construction - \$60,000

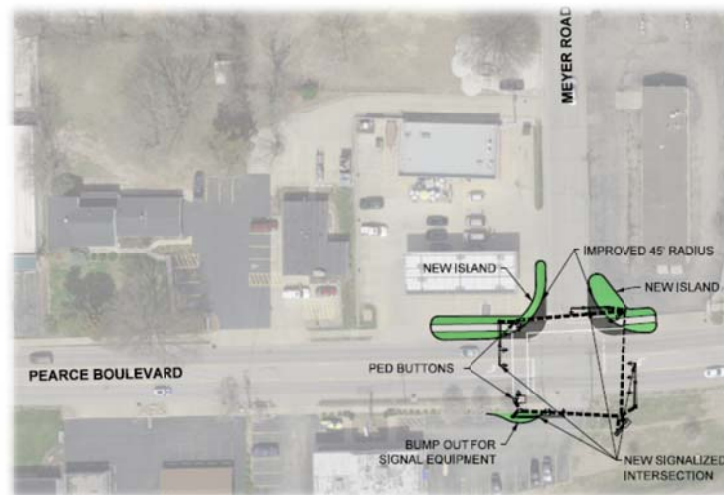
Construction - \$552,000

St. Charles County (40/60) - \$280,000

CMAQ (50/50) - \$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: Improved 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	2020	2021	2022	2023	2024
\$700,000	\$88,000	\$60,000	\$552,000	-	-	-
St. Charles County	\$35,200	\$24,000	\$220,800	-	-	-
CMAQ	\$44,000	\$30,000	\$276,000	-		

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

CMAQ (80/20) - \$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 wanting 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					
Total	2020	2021	2022	2023	2024
\$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: \$4,899,967 | **Outside Funding:** \$3,428,177 | **City Cost:** \$1,471,790

Planning/Engineering - \$360,967

Pre-Construction - \$145,000

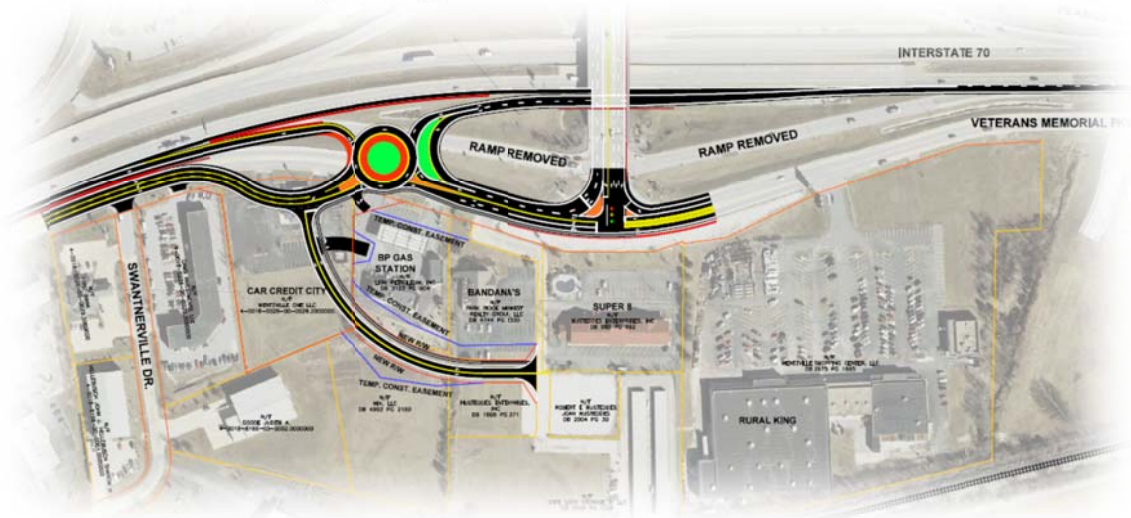
Construction - \$4,394,000

St. Charles County (30/70) - \$1,471,790

CMAQ (40/60) - \$1,956,387

Description and Justification: Construct intersection improvements at Veteran's Memorial Pkwy. and Wentzville Pkwy. 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	2020	2021	2022	2023	2024
\$4,899,967	\$360,967	\$145,000	\$4,394,000	-	-	-
St. Charles County	\$108,290	\$43,500	\$1,320,000	-	-	-
CMAQ	\$144,387	\$58,000	\$1,754,000	-	-	-

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 (80/20) - \$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	2020	2021	2022	2023	2024
\$10,000,000	\$700,000	\$702,860	-	\$8,597,140	-	-
St. Charles County	\$560,000	\$562,288	-	\$6,877,712	-	-

WENTZVILLE PARKWAY SOUTH – PHASE 2A

Fund: Transportation

Department: Administration

Location: Interstate Drive to 1,200' South

Project Cost: \$762,000 | **Outside Funding:** \$544,000 | **City Cost:** \$218,000

Planning/Engineering - \$50,560

Pre-Construction - \$25,000

Construction - \$686,440

St. Charles County (42.8/57.2) - \$326,000

Private Developer - \$218,000

Description and Justification: Phase 2A of Wentzville Parkway South was submitted for 2019 construction as a public/private partnership with a contingent proposal from Payne Family Homes to participate financially in the extension of a roughly 1,200 foot long roadway project. Any activity has been delayed to 2020 based on the development status. This project would extend a two lane road section and accompanying sidewalk south from Interstate Drive to the northern most entrance of the proposed Boulevard at Wilmer Road. The cost share of the project in the County application would be set at a contribution of \$218,000 by the developer and by the City. This extension would help with the eventual extension of the Parkway south to tie in with Wilmer Road near Peruque Creek and possibly work to divert additional traffic volume from Hwy. Z. The contingencies associated with this financial partnership are listed in the proposed Letter of Intent. The contingencies include the developer successfully obtaining Zoning and Permitting for a revised layout of a residential subdivision previously presented to the Board under 18-24 PZ and entitled "The Boulevard at Wilmer Road."

Anticipated Benefit: Project will extend an arterial roadway south to provide primary access to a future residential development as well as the continued extension of Wentzville Parkway south to Wilmer Road near Peruque Creek to provide a regional north south transportation route.



FUNDING SCHEDULE					
Total \$762,000	2020	2021	2022	2023	2024
	\$762,000	-	-	-	-
St. Charles County	\$326,000	-	-	-	-
Private Developer	\$218,000	-	-	-	-

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 (80/20) - \$1,000,000

Federal STP - \$1,250,000

Description and Justification: This application provides funds to add 3-foot shoulders and overlay Peine Road. The project will also eliminate a 90-degree curve currently between Peine Woods Drive and Stewart Springs Drive. The curve will be softened and re-aligned to the Northwest through City owned property. 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 \$2,500,000	2020	2021	2022	2023	2024
	-	\$322,453	\$200,000	\$1,977,547	-
St. Charles County	-	\$128,982	\$80,000	\$791,018	-
Federal STP	-	\$161,227	\$100,000	\$988,773	-

HIGHWAY 61 OUTER ROAD – PHASE 2A

Fund: Transportation

Department: Administration

Location: Wentzville Parkway – Meyer Road to Parkway Bridge

Project Cost: \$2,289,619 | **Outside Funding:** \$1,831,695 | **City Cost:** \$457,924

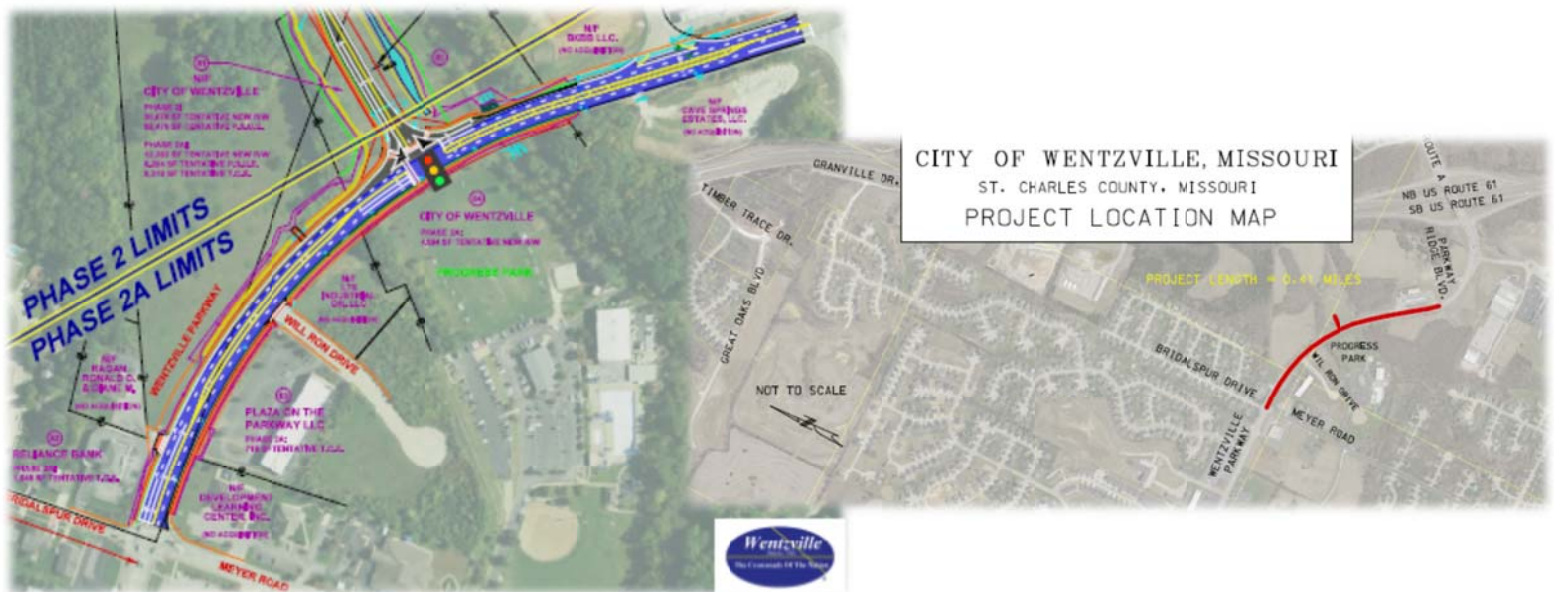
Pre-Construction (2021) - \$65,043

Construction (2022) – \$2,224,576

Cost Share with St. Charles County (80/20) - \$1,831,695

Description and Justification: The pavement in this section of Wentzville Parkway is reaching the end of its anticipated life cycle and is in need of 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 ground work 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 ground work 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	2020	2021	2022	2023	2024
\$2,289,619	-	\$65,043	\$2,224,576	-	-
St. Charles County	-	\$52,034	\$1,779,661	-	-

WEST PEARCE BLVD. – MAY ROAD TO GOODFELLOW PAVEMENT REHABILITATION

Fund: Transportation

Department: Streets

Location: West Pearce Boulevard

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

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

Justification: Roadway is in need of normal maintenance; mill and overlay would improve condition of road and extend the serviceable life.

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

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$1,400,000	-	\$138,202	-	\$1,261,798	-
St. Charles County	-	\$110,562	-	\$1,009,438	-

HISTORIC DOWNTOWN REVITALIZATION – PEARCE/ALLEN CORRIDOR

Fund: Transportation

Department: Administration

Location: Historic Downtown

Project Cost: \$1,750,000 | **Outside Funding:** \$-0- | **City Cost:** \$1,750,000

Pre-Construction - \$250,000

Construction - \$1,500,000

Description and Justification: Storm sewers, curbs, curb ramps and sidewalk improvements on Pearce Avenue and Allen Street from Luetkenhaus Blvd. to Meyer Road.

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



FUNDING SCHEDULE

Total	PRIOR	2020	2021	2022	2023	2024
\$1,750,000	\$750,000	-	-	\$500,000	\$500,000	\$750,000

HISTORIC DOWNTOWN REVITALIZATION – MAIN/PEARCE/MEYER/PITMAN CORRIDOR

Fund: Transportation

Department: Administration

Location: Historic Downtown

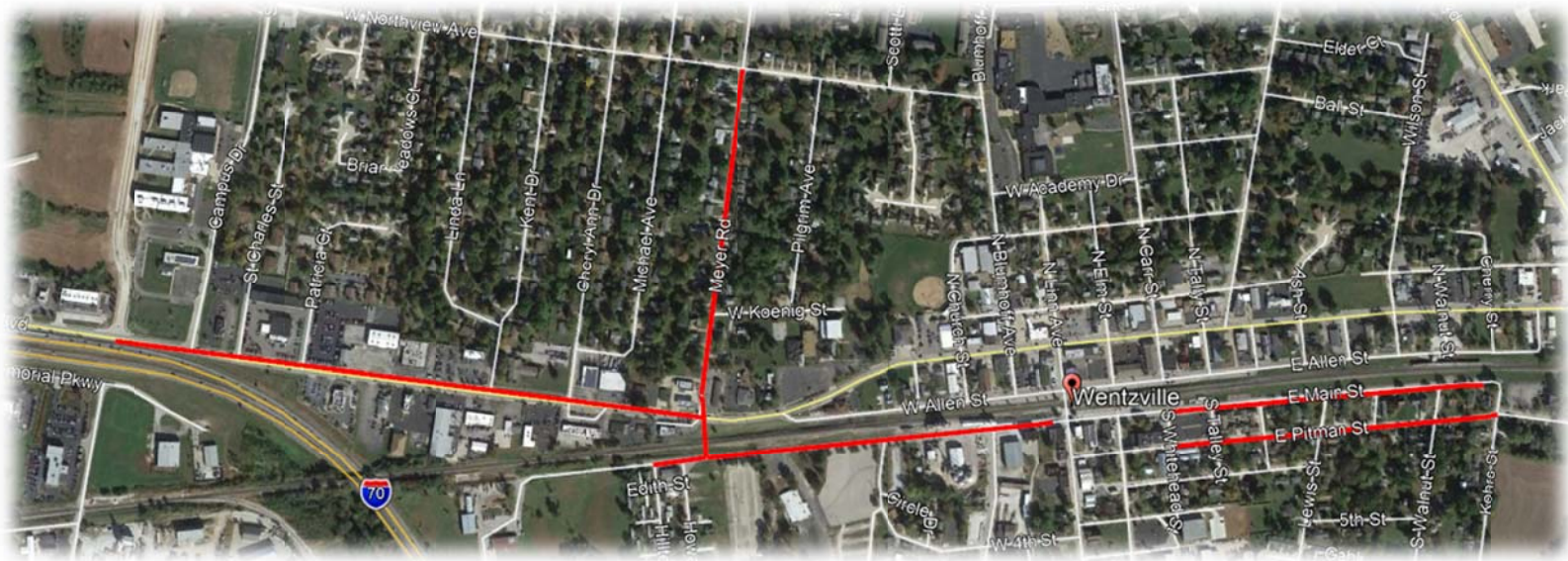
Project Cost: \$1,750,000 | **Outside Funding:** \$-0- | **City Cost:** \$1,750,000

Pre-Construction - \$250,000

Construction - \$1,500,000

Description and Justification: 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, increased ADT and expanded parking and economic development opportunity for the Historic Downtown.



FUNDING SCHEDULE						
Total	PRIOR	2020	2021	2022	2023	2024
\$1,750,000	\$750,000	-	-	\$500,000	\$500,000	\$750,000

GREAT OAKS BLVD. EXTENSION

Fund: Transportation

Department: Administration

Location: Great Oaks Blvd. – Greak 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 (80/20) - \$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: Improved safety and access for residents and emergency services into the City.



FUNDING SCHEDULE						
Total	PRIOR	2020	2021	2022	2023	2024
\$2,300,000	\$180,000		-	-	\$120,000	\$2,000,000
St. Charles County	-	-	-	-	\$96,000	\$1,600,000

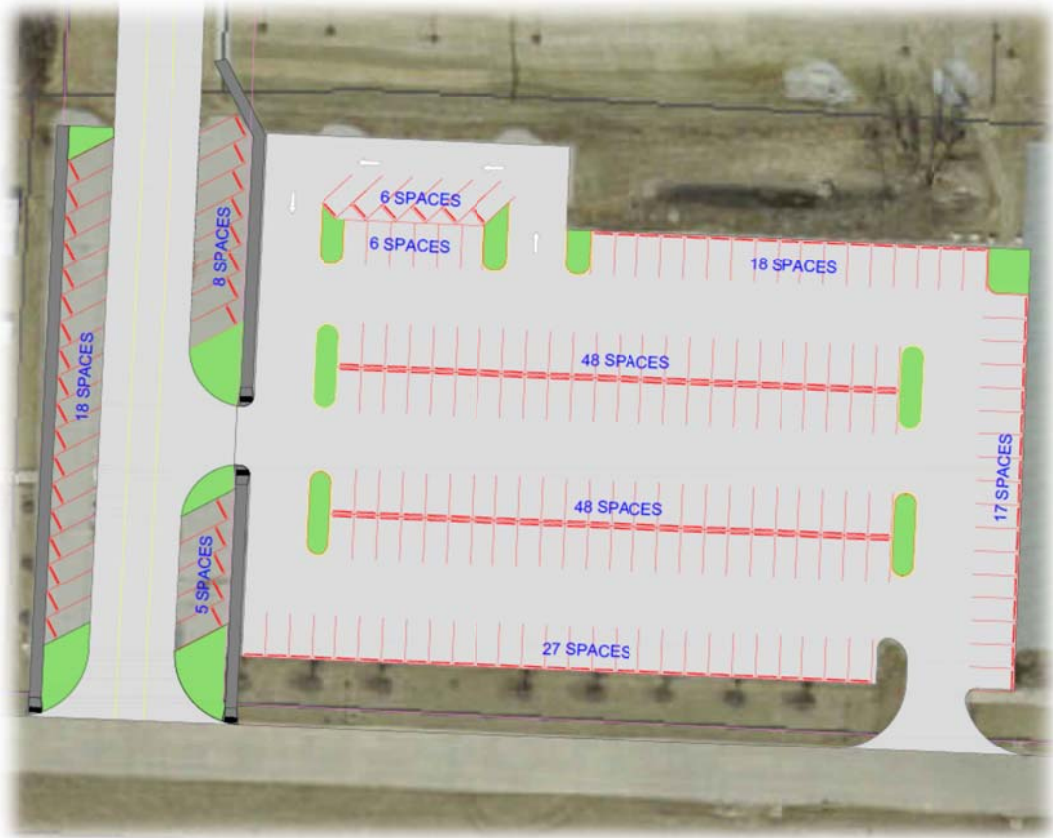
PARKWAY RIDGE DRIVE EXTENSION

Fund: Transportation
Department: Administration
Location: Ice Arena

Project Cost: \$65,000 | **Outside Funding:** \$-0- | **City Cost:** \$65,000
 Planning and Engineering – \$65,000
 Constructio – \$357,000 (2025)

Description and Justification: Complete extension of Parkway Ridge Drive from the current terminus at Petromart south to Main Plaza Drive.

Anticipated Benefit: Complete a component of the City's Thoroughfare Plan to provide improved access between Wentzville Parkway and the Historic downtown including Luetkenhaus Boulevard. Benefit of extension increases of MoDOT exercises prior plan to limit the Luetkenhaus Boulevard access to a right in right out do to proximity to the Wentzville Parkway/Highway 61 Interchange.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$65,000	-	-	-	-	\$65,000

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. Would provide 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	2020	2021	2022	2023	2024
\$35,000	-	-	-	-	\$35,000

CONTRACTED STREET AND SIDEWALK MAINTENANCE – ASPHALT AND CONCRETE REPLACEMENT

Fund: Transportation

Department: Streets

Location: Citywide

Project Cost: \$14,600,000 | **Outside Funding:** \$-0- | **City Cost:** \$14,600,000

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



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$14,600,000	\$3,200,000	\$3,000,000	\$2,800,000	\$2,800,000	\$2,800,000

SINGLE-AXLE DUMP TRUCK WITH PLOW AND SPREADER

Fund: Transportation

Department: Transportation – Streets

Project Cost: \$665,000 | **Outside Funding:** \$-0- | **City Cost:** \$665,000

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

Justification: These dump trucks will replace three existing and one will be added to the 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	2020	2021	2022	2023	2024
\$665,000	\$160,000	\$165,000	\$170,000	-	\$170,000

TANDEM-AXLE DUMP TRUCK WITH PLOW AND SPREADER

Fund: Transportation

Department: Transportation – Streets

Project Cost: \$190,000 | **Outside Funding:** \$-0- | **City Cost:** \$190,000

Description and Justification: Tandem-axle dump truck with plow and spreader. This dump truck will replace an outdated 2007 model that exhibits considerable wear and tear, and is accompanied by high maintenance costs due to age and use. 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	2020	2021	2022	2023	2024
\$190,000	-	\$190,000	-	-	-

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	2020	2021	2022	2023	2024
\$140,000	-		\$140,000	-	-

VIBRATORY ROLLER

Fund: Capital

Department: Transportation – Streets

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

Description: Purchase of a vibratory roller.

Justification: Replacement of 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: A new vibratory roller machine will increase reliability, reduce down time and maintenance cost, and raise the efficiency of operations throughout the City.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$50,000	\$50,000	-	-	-	-

LED INFORMATION SIGN

Fund: Capital

Department: Transportation – Streets

Project Cost: \$54,000 | **Outside Funding:** \$-0- | **City Cost:** \$54,000

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	2020	2021	2022	2023	2024
\$54,000	\$17,500	\$18,000	\$18,500	-	-

SKID-STEER LOADER

Fund: Capital

Department: Transportation – Streets

Project Cost: \$63,000 | **Outside Funding:** \$-0- | **City Cost:** \$63,000

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	2020	2021	2022	2023	2024
\$63,000	-	\$63,000	-	-	-

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	2020	2021	2022	2023	2024
\$60,000	-	\$60,000	-	-	-

TRACTOR WITH ROW MOWING ARM

Fund: Capital

Department: Transportation – Streets

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

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	2020	2021	2022	2023	2024
\$300,000		\$145,000	-	\$155,000	-

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	2020	2021	2022	2023	2024
\$25,000	-	-	-	\$25,000	-

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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023	2024
\$150,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000

Water



WATER

PROJECT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Water	Public Works Facility (20% Funding Contribution)	536,000	-	-	-	-	536,000
Water	Coating Interior and Exterior of Tower #4	450,000	-	-	-	-	450,000
Water	SCADA System Meter Vault Modifications	63,000	-	-	-	-	63,000
Water	Well #5 Electrical Improvements	50,000	-	-	-	-	50,000
Water	2-MG GM Ground Storage Tank Coating Interior	-	-	270,000	-	-	270,000
Water	East Booster Pump Station Above Ground Rebuild	-	-	50,000	500,000	-	550,000
Water	2-MG Water Storage Tank	-	-	-	400,000	4,750,000	5,150,000
Water	Waterline Extensions and Replacement	680,000	640,000	100,000	250,000	100,000	1,770,000
Water Funded Equipment:							
Water	Trackhoe	-	-	180,000	-	-	180,000
Water	Electro-Fusion Processor	-	-	10,000	-	-	10,000
Water	Metrotech vLoc/9800 Locator	-	-	-	5,500	-	5,500
TOTAL		1,779,000	640,000	610,000	1,155,500	4,850,000	9,034,500

WATER

EQUIPMENT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Water	3/4-Ton 4x4 Pickup Truck	90,000	-	-	-	-	90,000
Water	Hydraulic Hammer	-	15,000	-	-	-	15,000
Water	Box Truck	-	-	65,000	-	-	65,000
Water	20' Mac Lander Trailer	-	-	-	20,000	-	20,000
Water	10k Generator	-	-	-	-	6,000	6,000
TOTAL		90,000	15,000	65,000	20,000	6,000	196,000

TOTAL PROJECTS AND EQUIPMENT							
	2020	2021	2022	2023	2024	Five Year Total	
TOTAL	1,869,000	655,000	675,000	1,175,500	4,856,000	9,230,500	

FUNDING SOURCE							
	2020	2021	2022	2023	2024	Five Year Total	
Capital Fund	90,000	15,000	65,000	20,000	6,000	196,000	
Water Fund	1,779,000	640,000	610,000	1,155,500	4,850,000	9,034,500	
TOTAL	1,869,000	655,000	675,000	1,175,500	4,856,000	9,230,500	

PUBLIC WORKS FACILITY

Fund: Capital, Transportation, Water

Department: Public Works – Administration

Location: TBD

Project Cost: \$12,980,000 | **Outside Funding:** \$-0- | **City Cost:** \$12,980,000

Capital Fund - \$2,908,000

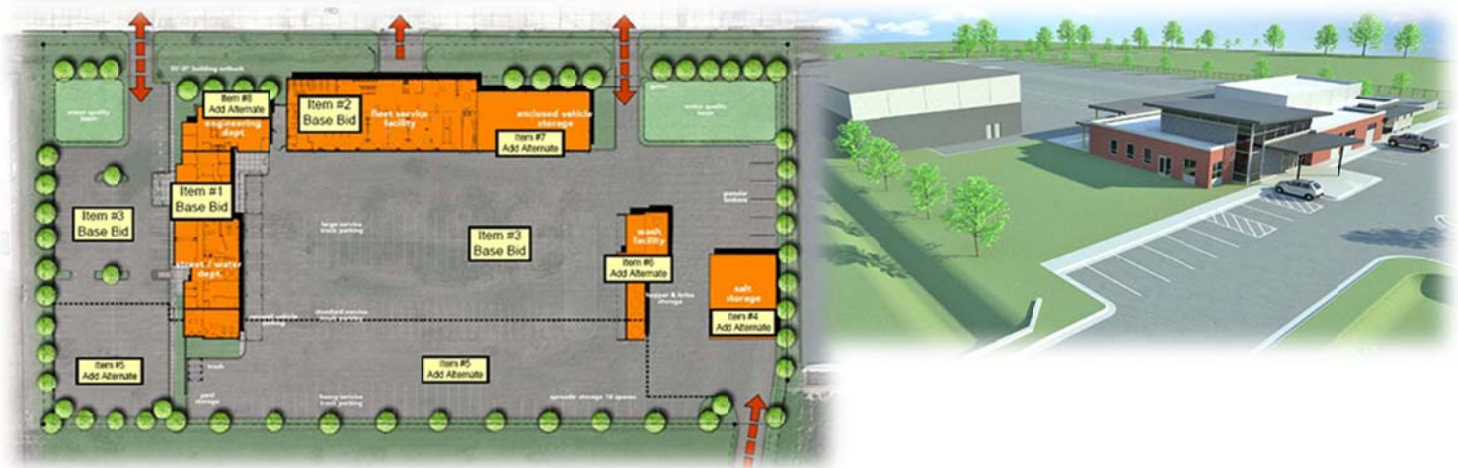
Unallocated Funding - \$9,000,000

Transportation Fund 20% - \$536,000 (2020)

Water Fund 20% - \$536,000 (2020)

Description and Justification: The existing Public Works Facility reached capacity in 2012 and needs to be relocated to a larger land space to accommodate the equipment and material storage needs for the ongoing growth of the City. A Public Works Facility preliminary design was underway when it was determined by the Board that a City Hall project would be prioritized ahead of it. The City Administrator directed staff to delay the Public Works replacement facility for 6 to 8 years and make minimal improvements and existing facility expansions for that timeline.

Anticipated Benefit: This investment will improve safety of operations, productivity and addresses NPDES permit compliance for all field operations. The investment improves productivity by adding mechanic bays and efficiency improvements for repair and maintenance of vehicles and equipment. The facility provides secure space for material and equipment storage for all Public Works divisions including Water and Wastewater Collections. The design includes larger protected salt storage bays and will contain heated storage for weather sensitive equipment and energy efficient lighting and HVAC.



FUNDING SCHEDULE

Total	PRIOR	2020	2021	2022	2023	2024
\$12,980,000	\$1,300,000	\$2,680,000	-	-	-	\$9,000,000

COAT INTERIOR AND EXTERIOR OF TOWER #4

Fund: Water

Department: Water

Location: 802 East Pearce Boulevard

Project Cost: \$450,000 | **Outside Funding:** \$-0- | **City Cost:** \$450,000

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 longevity of the tower.

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



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$450,000	\$450,000	-	-	-	-

SCADA SYSTEM METER VAULT MODIFICATIONS

Fund: Water

Department: Water

Project Cost: \$63,000 | **Outside Funding:** \$-0- | **City Cost:** \$63,000

Description and Justification: The addition of the SCADA controls and monitoring at the three meter vault locations will allow for the Water Division to monitor flow (current, daily total and monthly totals) as well as discharge pressures.

Anticipated Benefit: The addition of these SCADA sites will provide information to determine and or identify leaks, pressure or total service loss and possible water theft on the system being monitored. Additional benefits includes alarms that alerts the Water Division of pressure loss or increase daily flow that could indicate a main break and allow for a quicker response for repairs.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$63,000	\$63,000	-	-	-	-

WELL #5 ELECTRICAL IMPROVEMENTS

Fund: Water

Department: Water

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

Description and Justification: The electrical control panel and equipment at well #5 is the original equipment installed in 1978. Controls and replacement electrical parts have become obsolete.

Anticipated Benefit: The replacement of the electrical controls will allow for a more reliable operation and make maintenance and repairs more efficient.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$50,000	\$50,000	-	-	-	-

2 MG GM GROUND STORAGE TANK COATING INTERIOR

Fund: Water

Department: Water

Location: East Booster Station (Edinger Road)

Project Cost: \$270,000 | **Outside Funding:** \$-0- | **City Cost:** \$270,000

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	2020	2021	2022	2023	2024
\$270,000		-	\$270,000	-	-

EAST BOOSTER PUMP STATION ABOVE GROUND REBUILD

Fund: Water
Department: Water
Location: Edinger Road

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

Description: Relocate East Booster Pump Station above ground using existing pumps and motors while updating SCADA control systems.

Justification: Relocation above ground is necessary due to the deterioration of existing underground facility.

Anticipated Benefit: Rebuilding of this facility above ground would allow for the 2MG of water storage to remain in service to help the City meet the required reserve supply requirements for the Department of Natural Resources.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$550,000	-	-	\$50,000	\$500,000	-

2-MG WATER STORAGE TANK

Fund: Water

Department: Water

Location: Wilmer Rd.

Project Cost: \$5,150,000 | **Outside Funding:** \$-0- | **City Cost:** \$5,150,000

Design - \$400,000

Construction - \$4,750,000

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	2020	2021	2022	2023	2024
\$5,150,000	-	-	-	\$400,000	\$4,750,000

WATERLINE EXTENSIONS AND REPLACEMENTS

Fund: Water

Department: Water

Location: City Wide

Project Cost: \$1,770,000 | **Outside Funding:** \$-0- | **City Cost:** \$1,770,000

PROJECT DESCRIPTION					
YEAR	LOCATION	SIZE (IN)	LENTH (FT)	IN HOUSE WORK (Y/N)	COST (\$)
2020	E. Pearce Blvd. from W. Allen St. to Cheryl Ann Dr.	12	1,000	N	300,000
2020	DHP Phase 2 Casing and Extension	12	400	N	300,000
2020	Linda Ln. Replacement	8	1,500	Y	80,000
2021	Michael Ave. Replacement	8	1,700	Y	100,000
2021	David Hoekel Parkway Phase 2 upsize 8 to 12	12	2,000	N	250,000
2021	Prairie Bluffs to Albany upsize 8 to 12	12	2,000	N	290,000
2022	Cheryl Ann Dr. Replacement	8	1,600	Y	100,000
2023	E. Pearce Blvd. from Cheryl Ann to Schroeder	12	2,000	Y	250,000
2024	Interstate Dr. upsize 8 to 12	12	800	N	100,000

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 several of these projects, waterlines are replaced at a lower cost.

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

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$1,770,000	\$680,000	\$640,000	\$100,000	\$250,000	\$100,000

WATERLINE EXTENSIONS AND REPLACEMENTS MAPS

2020



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 2022 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	2020	2021	2022	2023	2024
\$180,000	-	-	\$180,000	-	-

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	2020	2021	2022	2023	2024
\$10,000	-	-	\$10,000	-	-

METROTECH VLOC/9800 LOCATOR

Fund: Water

Department: Water

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	2020	2021	2022	2023	2024
\$5,500	-	-	-	\$5,500	-

4X4 PICKUP TRUCK

Fund: Capital

Department: Water

Location: Citywide

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

Description: Purchase of three 1/2-ton 4x4 pickup trucks used to conduct locator, meter reader and service field operations.

Justification: Half-ton trucks were introduced in 2015 to reduce fleet costs while serving the light-duty needs of the division such as the meter reader and locator. These trucks will double as runner trucks during field operations or emergency repairs. Half-ton trucks need to have LED emergency lights added for a cost of \$350 each.

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	2020	2021	2022	2023	2024
\$90,000	\$90,000	-	-	-	-

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	2020	2021	2022	2023	2024
\$15,000	-	\$15,000	-	-	-

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	2020	2021	2022	2023	2024
\$65,000	-	-	\$65,000	-	-

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	2020	2021	2022	2023	2024
\$20,000	-	-	-	\$20,000	-

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	2020	2021	2022	2023	2024
\$6,000	-	-	-	-	\$6,000

Wastewater



WASTEWATER

PROJECT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Wastewater	Reclamation Center Expansion – Ph. III and Bio-Solids	3,394,000	5,796,000	-	-	-	9,190,000
Wastewater	East Lift Station Replacement	115,000	750,000	-	-	-	865,000
Wastewater	Biosolids Land Acquisition	500,000	500,000	500,000	-	-	1,500,000
Wastewater	MSP Lift Station Replacement	-	2,054,000	-	-	-	2,054,000
Wastewater	Highway P Lift Station Sluice Gate	-	200,000	-	-	-	200,000
Wastewater	St. Lukes Lift Station	-	-	150,000	-	-	150,000
Wastewater	Norfolk and Southern Lift Station Replacement	-	-	500,000	-	-	500,000
Wastewater	Legion Lift Station	-	-	-	500,000	-	500,000
Wastewater	Boone Trail Sewer Extension	-	-	-	490,000	-	490,000
Wastewater	Bypass Trunk Relief	-	-	-	200,000	2,100,000	2,300,000
Wastewater	Parr Rd. Lift Station Replacement	-	-	-	-	150,000	150,000
Wastewater	Crossroads Trunk Relief – Phase I and II	-	-	-	-	60,000	60,000
Wastewater Funded Equipment:							
Wastewater	Lift Station Spare Pumps, VFDs and Replacement	245,000	104,000	122,000	86,000	120,000	677,000
Wastewater	Bio-Solids Tanker Truck	215,000	-	-	-	-	215,000
Wastewater	Metrotech vLoc/9800 Locator	5,200	-	-	5,500	-	10,700
TOTAL		4,474,200	9,404,000	1,272,000	1,281,500	2,430,000	18,861,700

WASTEWATER

EQUIPMENT							
Department	Description	2020	2021	2022	2023	2024	Five Year Total
Wastewater	Tandem-Axel Dump Truck	130,000	-	-	-	-	130,000
Wastewater	One-Ton 4x4 Service Pickup Truck	45,000	45,000	-	45,000	-	135,000
Wastewater	Crane Truck	-	-	125,000	-	-	125,000
Wastewater	Sewer Jet Trailer	-	-	115,000	-	-	115,000
Wastewater	Portable Generator	-	-	125,000	-	-	125,000
Wastewater	Bio-Solids Tractor	-	-	-	-	136,000	136,000
Wastewater	Backhoe	-	-	-	-	130,000	130,000
Wastewater	Sewer Jet Truck	-	-	-	-	350,000	350,000
TOTAL		175,000	45,000	365,000	45,000	616,000	1,246,000

TOTAL PROJECTS AND EQUIPMENT						
	2020	2021	2022	2023	2024	Five Year Total
TOTAL	4,649,200	9,449,000	1,637,000	1,326,500	3,046,000	20,107,700

FUNDING SOURCE						
	2020	2021	2022	2023	2024	Five Year Total
Capital Fund	175,000	45,000	365,000	45,000	616,000	1,246,000
Wastewater Fund	4,474,200	9,404,000	1,272,000	1,281,500	2,430,000	18,861,700
TOTAL	4,649,200	9,449,000	1,637,000	1,326,500	3,046,000	20,107,700

RECLAMATION CENTER EXPANSION – PH III and BIO-SOLIDS EXPANSION

Fund: Wastewater

Department: Wastewater

Location: 2455 Mette Rd.

Project Cost: \$10,115,000 | **Outside Funding:** \$-0- | **City Cost:** \$10,115,000

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	2020	2021	2022	2023	2024
\$10,115,000	\$925,000	\$3,394,000	\$5,796,000	-	-	-

EAST LIFT STATION REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: 1520 E. Pitman Avenue

Project Cost: \$865,000 | **Outside Funding:** \$-0- | **City Cost:** \$865,000

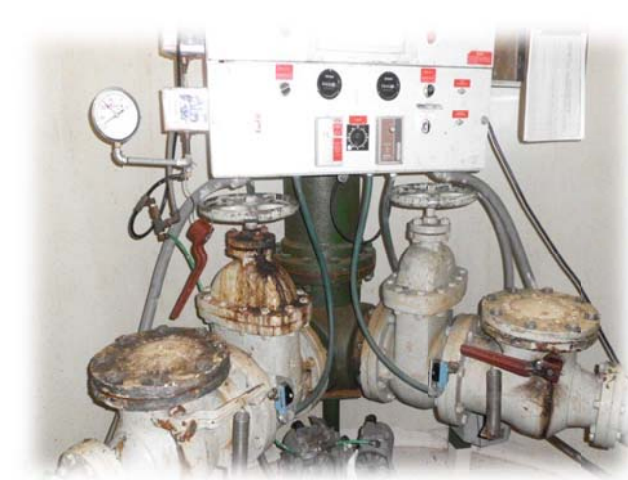
Planning/Engineering - \$115,000

Construction - \$750,000

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 (H₂S). 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	2020	2021	2022	2023	2024
\$865,000	\$115,000	\$750,000	-	-	-

BIOSOLIDS LAND ACQUISITION

Fund: Wastewater
Department: Wastewater
Location: TBD

Project Cost: \$1,500,000 | **Outside Funding:** \$-0- | **City Cost:** \$1,500,000

Description and Justification: Acquire additional property for wet and dry bio-solids land application in preparation of increased removal demand and potential loss of shared crop field locations in the future.

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



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$1,500,000	\$500,000	\$500,000	\$500,000	-	-

MSP LIFT STATION REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: 2355 Mette Rd.

Project Cost: \$2,175,000 | **Outside Funding:** \$-0- | **City Cost:** \$2,175,000

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.

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	2019	2020	2021	2022	2023
\$2,175,000	\$121,000	-	-	\$2,054,000	-	-

HIGHWAY P LIFT STATION SLUICE GATE

Fund: Wastewater

Department: Wastewater

Location: Highway P Lift Station

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

Description: Install sluice gate to control high flow events and direct flows as needed between the MSP and Highway P Lift Stations.

Justification: Sluice gate is needed to control and divert high flows during wet weather events at the main pump station and Highway P Lift.

Anticipated Benefit: Currently entering a confined space to set sand bags for high flow events. New sluice gate will improve ability to control flows and safety of operators by eliminating the need to perform and entry to adjust levels.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$200,000	-	\$200,000	-	-	-

ST. LUKES LIFT STATION

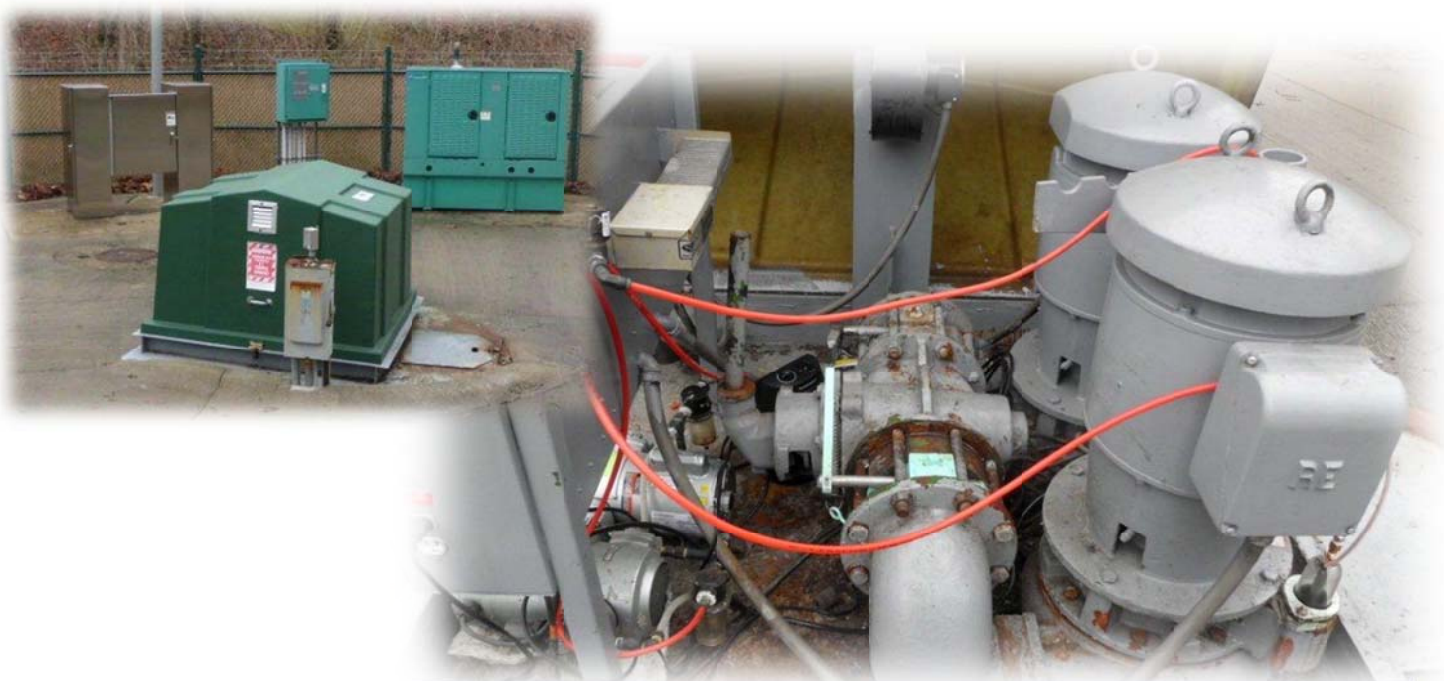
Fund: Wastewater
Department: Wastewater
Location: St. Luke’s Lift Station

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

Description: Replace Smith and Loveless Lift Station (34 years old in 2019). 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	2020	2021	2022	2023	2024
\$150,000	-	-	\$150,000	-	-

NORFOLK AND SOUTHERN LIFT STATION REPLACEMENT

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

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

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	2020	2021	2022	2023	2024
\$500,000	-	-	\$500,000	-	-

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	2020	2021	2022	2023	2024
\$500,000	-	-	-	\$500,000	-

BOONE TRAIL SEWER EXTENSION

Fund: Wastewater
Department: Wastewater
Location: Boone Trail Lift Station

Project Cost: \$490,000 | **Outside Funding:** \$-0- | **City Cost:** \$490,000

Description: Gravity sewer extension to by-pass Boone Trail Lift Station.

Anticipated Benefit: Avoids costly replacement maintenance expenses.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$490,000	-	-	-	\$490,000	

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	2020	2021	2022	2023	2024
\$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	2020	2021	2022	2023	2024
\$150,000	-	-	-	-	\$150,000

CROSSROADS TRUNK RELIEF – PHASE I & II

Fund: Wastewater

Department: Wastewater

Location: Highway 61, MSP and Highway P Lift Station

Project Cost: \$2,804,000 | **Outside Funding:** \$-0- | **City Cost:** \$2,804,000

Phase I Planning/Engineering - \$60,000 (2024)

Phase II Planning/Engineering - \$190,000 (2026)

Phase I Construction - \$650,000 (2025)

Phase II Construction - \$1,904,000 (2027 and beyond)

Description: Gravity sewer main construction that will enable the Reclamation Center to receive increasing flows as the city experiences increased growth in the related sewer sheds. Will reduce all operations and maintenance costs associated with the existing main and improve system capacity and enable WRC 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	2020	2021	2022	2023	2024
\$60,000	-	-	-	-	\$60,000

LIFT STATION SPARE PUMPS, VFDs & REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: Lift Stations Citywide

Project Cost: \$677,000 | **Outside Funding:** \$-0- | **City Cost:** \$677,000

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	2020	2021	2022	2023	2024
\$677,000	\$245,000	\$104,000	\$122,000	\$86,000	\$120,000

BIO-SOLIDS TANKER TRUCK

Fund: Wastewater
Department: Wastewater

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

Description and Justification: Tank truck will be set up to haul bio-solids and will replace the 2006 floater truck.

Anticipated Benefit: The tank truck will benefit the Collections Division when repairing a lift station and needing the wet well pumped down and other bypass pumping operations throughout the City.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$215,000	\$215,000	-	-	-	-

METROTECH VLOC/9800 LOCATOR

Fund: Wastewater

Department: Wastewater

Location: Citywide

Project Cost: \$10,700 | **Outside Funding:** \$-0- | **City Cost:** \$10,700

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	2020	2021	2022	2023	2024
\$10,700	\$5,200	-	-	\$5,500	-

TANDEM-AXLE DUMP TRUCK

Fund: Capital

Department: Wastewater

Project Cost: \$130,000 | **Outside Funding:** \$-0- | **City Cost:** \$130,000

Description and Justification: The new tandem-dump truck will be used to haul bio-solids.

Anticipated Benefit: Expanding bio-solids removal.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$130,000	\$130,000	-	-	-	-

ONE-TON 4X4 SERVICE PICKUP TRUCK

Fund: Capital

Department: Wastewater

Project Cost: \$135,000 | **Outside Funding:** \$-0- | **City Cost:** \$135,000

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 14 to 15-year old trucks will help to cut back on repairs.

FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$135,000	\$45,000	\$45,000	-	\$45,000	-

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	2020	2021	2022	2023	2024
\$125,000	-	-	\$125,000	-	-

SEWER JET TRAILER

Fund: Capital

Department: Wastewater

Project Cost: \$115,000 | **Outside Funding:** \$-0- | **City Cost:** \$115,000

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	2020	2021	2022	2023	2024
\$115,000	-	-	\$115,000	-	-

PORTABLE GENERATOR

Fund: Capital
Department: Wastewater

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

Description: 200 KW portable generator to supply emergency stand-by power to Public Works, up to seven lift stations as transfer switches are installed at all locations.

Justification: The generator will provide power redundancy and enable emergency operations to continue in the event of a prolonged outage at a lift station and the City’s Public Work facility.

Anticipated Benefit: The generator will provide a reliable power alternative while increasing the ability of the City to provide support or emergency services during a prolonged outage.



UNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$125,000	-	-	\$125,000	-	-

BIO-SOLIDS TRACTOR

Fund: Capital

Department: Wastewater

Project Cost: \$136,000 | **Outside Funding:** \$-0- | **City Cost:** \$136,000

Description and Justification: Purchase of a tractor to aide in the expanding bio-solids land application program.

Anticipated Benefit: Will improve reliability, efficiency and productivity of the bio-solids land application program.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$136,000	-	-	-	-	\$136,000

BACKHOE

Fund: Capital

Department: Wastewater

Project Cost: \$130,000 | **Outside Funding:** \$-0- | **City Cost:** \$130,000

Description and Justification: Purchase of a backhoe for small to medium sanitary sewer, manhole repair projects and bio-solids loading.

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.



FUNDING SCHEDULE					
Total	2020	2021	2022	2023	2024
\$130,000	-	-	-	-	\$130,000

SEWER JET TRUCK

Fund: Capital

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	2020	2021	2022	2023	2024
\$350,000	-	-	-	-	\$350,000



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