



CITY OF WENTZVILLE

2016-2020

Capital Improvement Plan

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TO THE MAYOR AND BOARD OF ALDERMEN:

I am pleased to transmit to you the proposed 2016-2020 Capital Improvement Plan (CIP).

This proposed plan is NOT a wish list of unfunded desires. 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 would still need to be "appropriated" through the annual budget process.

While there are some changes in this plan from previously submitted CIP documents, the changes are NOT dramatic. We have been trying to instill in the organization a planning discipline for capital improvements. Theoretically, any new projects should only appear in the fifth year of the plan. For the most part we have been able to accomplish this; although, there have been some changes due to Board direction and priorities or due to lack of revenue.

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

- Upgrades to the slab-replacement program Eliminates most of the new future debt obligations (new bond issues)
- Higher-than-required fund reserves have been drawn down and earmarked for specific capital needs
- Enhancements for ADA improvements
- Continues the commitment to Downtown
- Leverages funds from other entities
- Funds the continued maintenance and enhancement of aging infrastructure

The proposed plan calls for the expenditure of \$120,624,612 over a five-year time frame and includes funding mechanisms for each.

Please accept this Capital Improvement Plan for adoption. The Plan has been well thought out, and involved much participation and insightful thinking by all departments. The plan allows the City to proactively anticipate its future needs while giving it the flexibility to make changes.



CAPITAL IMPROVEMENT PLAN 2016-2020

Capital Plan

A five-year CIP 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 2016 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 annually with current information.

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** provides a description of each project (location, scope of work, etc.). **Project Justification** 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 CIP, a total of \$120,624,612 is recommended for capital spending. A breakdown of this \$120 million by department indicates that the Transportation Fund will bear the largest burden of this five-year CIP, followed by reserve draw downs in the General and Capital Fund for the new City Hall. Of the total \$120 million in total five-year capital spending, \$43 million (or 36 percent) is estimated to be reimbursed by grant funding. The City will continue to pursue grant funding to finance (or defray) significant capital costs.

Annual Expenditure Trend

Approximately \$120 million in capital projects are anticipated over the five-year period 2016- 2020. For this five year period, the largest single year of capital outlay will be fiscal year 2017, which includes Phase 2A of David Hoekel Parkway, Highway 61 Outer Road and Village Center Renovation. The fiscal year 2016 includes about \$9.5 million for the start of construction for the new City Hall. The other variances year-to-year are due to Water fund projects and a number of large Transportation projects. The City has significant street reconstruction and signals projects planned for a number of major streets in this community including: Wentzville Parkway, Meyer Road – Pearce Boulevard, Wentzville Parkway South, West Pearce Boulevard, and street and sidewalk maintenance Citywide.

REVENUE SOURCES

General Fund

General Fund capital expenditures are all funded from the Capital Improvements Fund. The General Fund Reserve was drawn down by \$3,000,000 in 2015 and will be drawn down by \$4,000,000 in 2016 and \$2,000,000 in 2017 to fund the future City Hall. This will eliminate the need to finance through a bond issuance, saving interest costs.

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 the 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 Fund, Parks and Recreation providing a consistent approach. The capital fund was drawn down by \$1,000,000 in 2015 and will be drawn down by \$2,300,000 in 2016 and \$2,700,000 in 2017 to help fund the costs for the new City Hall, eliminating the need of a bond issuance.

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 Funds.

Debt Financing

Fund debt financing are 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 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.

CITYWIDE CAPITAL IMPROVEMENT PLAN SUMMARY

PROJECT						
Department	2016	2017	2018	2019	2020	Five Year Total
Information Technology	-	-	-	-	-	-
Community Development	-	-	-	-	-	-
Law Enforcement	120,500	50,000	-	30,000	15,353	215,853
Public Works	16,080,500	27,455,147	17,428,627	9,134,718	21,243,208	91,342,200
Parks	731,030	1,134,300	295,050	411,888	373,325	2,945,593
Water	5,485,000	945,000	1,560,000	3,230,000	811,000	12,031,000
Wastewater	1,802,000	662,000	1,115,000	1,407,000	940,000	5,926,000
TOTAL	24,219,030	30,246,447	20,398,677	14,213,606	23,382,886	112,460,646

EQUIPMENT						
Department	2016	2017	2018	2019	2020	Five Year Total
Information Technology	60,587	30,000	-	-	100,000	190,587
Community Development	25,300	23,200	29,800	24,800	26,000	129,100
Law Enforcement	426,237	365,484	820,834	424,484	501,484	2,528,523
Public Works	547,000	440,000	401,000	863,000	480,000	2,731,000
Parks	269,350	94,525	53,788	112,400	288,300	818,363
Water	226,130	37,430	56,780	212,060	126,920	659,320
Wastewater	493,074	378,000	46,000	-	180,000	1,097,074
TOTAL	2,047,678	1,368,639	1,408,202	1,636,744	1,702,704	8,163,967

CITYWIDE CAPITAL IMPROVEMENT PLAN SUMMARY

TOTAL PROJECTS AND EQUIPMENT						
	2016	2017	2018	2019	2020	Five Year Total
TOTAL	26,266,708	31,615,086	21,806,879	15,850,350	25,085,590	120,624,612

FUNDING SUMMARY						
Source	2016	2017	2018	2019	2020	Five Year Total
General Fund Reserves	4,000,000	2,000,000	-	-	-	6,000,000
Capital Fund	5,578,178	1,578,639	1,908,202	1,854,994	1,970,319	12,859,744
Capital Fund Reserves	2,300,000	2,700,000	-	-	-	5,000,000
Transportation Fund	4,916,500	1,004,800	7,599,830	4,200,175	7,271,575	24,992,880
Cost Share w/MoDOT and/or County	1,397,000	12,088,397	8,941,797	2,841,293	12,899,633	38,168,120
STP Funding	-	545,950	187,000	1,130,000	952,000	2,814,950
East-West Gateway TAP Funding	21,000	286,500	200,000	800,000	-	1,307,500
CMAQ through EQGCOCG	36,000	180,000	-	-	-	216,000
Private Developer	35,000	514,500	-	-	-	549,500
Bond Issue/TDD (to be est. in conjunction with bond issuance)	-	8,000,000	-	-	-	8,000,000
Park Fund	407,560	659,300	295,050	386,888	271,650	2,020,448
Park 2011 Bond Issue	288,470	-	-	-	-	288,470
Park Fundraising	-	450,000	-	-	-	450,000
Water Fund	4,485,000	945,000	1,560,000	3,230,000	811,000	11,031,000
Water Debt Financing	1,000,000	-	-	-	-	1,000,000
Wastewater Fund	1,802,000	662,000	1,115,000	1,407,000	940,000	5,926,000
TOTAL	26,266,708	31,615,086	21,806,879	15,850,350	25,085,590	120,624,612

INFORMATION TECHNOLOGY

EQUIPMENT							
Department	Description	2016	2017	2018	2019	2020	Five Year Total
Police	iRecord System Expansion	30,587	-	-	-	-	30,587
Information Technology	Blade Server Recap	30,000	30,000	-	-	-	60,000
Human Resources	Learning Management System	-	-	-	-	25,000	25,000
Information Technology	Virtual Desktop Environment	-	-	-	-	75,000	75,000
TOTAL		60,587	30,000	-	-	100,000	190,587

FUNDING SOURCE						
	2016	2017	2018	2019	2020	Five Year Total
Capital Fund	60,587	30,000	-	-	100,000	190,587
TOTAL	60,587	30,000	-	-	100,000	190,587

I RECORD SYSTEM EXPANSION

Fund: General

Department: Information Technology – Police

Location: LEC

Project Cost: \$30,587 | **Outside Funding:** \$-0- | **City Cost:** \$30,857

Description: Purchase of iRecord system to use to record interviews.

Justification: Some interviews are required by Missouri statute to be recorded. The Police Department has run into situations where they ran out of interview rooms due to the number of people they had to talk to. The Department is requesting to expand the system to include the rest of the interview rooms.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$30,587	\$30,587	-	-	-	-

BLADE SERVER RECAP

Fund: General

Department: Information Technology

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

Description: Replacement of Intel blade server chasis and blades.

Justification: The City's current blade servers (three) were purchased in 2010, the same year IBM ended the life of the model. In order to migrate to Microsoft Server 2012, the City needs to replace the chasis and upgrade the blades. The recap will continue to shift toward the latest IT trends and a virtual environment.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$60,000	\$30,000	\$30,000	-	-	-

LEARNING MANAGEMENT SYSTEM

Fund: General

Department: Information Technology – Human Resources

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

Description: Purchase of an online learning management tool.

Justification: The City has nearly 300 year-round employees and 150 seasonal employees. The City needs a solution to accommodate training needs across the City while eliminating paper trails. The City is too large for the paper process with each new policy change, administrative directive, etc. In addition, sending videos through interoffice or requiring employees to attend live training is extremely inefficient.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$25,000	-	-	-	-	\$25,000

VIRTUAL DESKTOP ENVIRONMENT

Fund: General

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	2016	2017	2018	2019	2020
\$75,000	-	-	-	-	\$75,000

COMMUNITY DEVELOPMENT

EQUIPMENT							
Department	Description	2016	2017	2018	2019	2020	Five Year Total
Building Inspection	1/2 Ton 4x4 Pickup Truck	25,300	-	-	-	-	25,300
Building Inspection	Compact Sedan	-	23,200	-	24,800	-	48,000
Planning	Compact 4x4 SUV	-	-	29,800	-	-	29,800
Building Inspection	Compact SUV	-	-	-	-	26,000	26,000
TOTAL		25,300	23,200	29,800	24,800	26,000	129,100

FUNDING SOURCE						
	2016	2017	2018	2019	2020	Five Year Total
Capital Fund	25,300	23,200	29,800	24,800	26,000	129,100
TOTAL	25,300	23,200	29,800	24,800	26,000	129,100

VEHICLES

Fund: General

Department: Community Development – Building Inspection, Planning

Location: Building Inspection and Planning Divisions

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.

½ TON 4x4 PICKUP TRUCK (Building Inspection)					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$25,300	\$25,300	-	-	-	-

COMPACT SEDAN (Building Inspection)					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$48,000	-	\$23,200	-	\$24,800	-

COMPACT 4x4 SUV (Planning)					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$29,800	-	-	\$29,800	-	-

COMPACT SUV (Building)					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$26,000	-	-	-	-	\$26,000

LAW ENFORCEMENT

PROJECT							
Department	Description	2016	2017	2018	2019	2020	Five Year Total
Law Enforcement	Expansion of Parking Lot	110,000	-	-	-	-	110,000
Law Enforcement	Tile/Carpeting – Lieutenant's Office	10,500	-	-	-	-	10,500
Law Enforcement	Remodel – Architect/Construction	-	50,000	-	-	-	50,000
Law Enforcement	Flooring/Carpeting	-	-	-	30,000	-	30,000
Law Enforcement	HVAC Software Upgrade	-	-	-	-	15,353	15,353
TOTAL		120,500	50,000	-	30,000	15,353	215,853

EQUIPMENT							
Department	Description	2016	2017	2018	2019	2020	Five Year Total
Law Enforcement	Mobile Shelving	25,000	-	-	-	-	25,000
Law Enforcement	Firearms Training Simulator	50,000	-	-	-	-	50,000
Law Enforcement	Radar Trailer	20,000	-	-	-	-	20,000
Law Enforcement	CAD/RMS System	-	-	400,000	-	-	400,000
Law Enforcement	AVL/GPS System	-	-	43,350	35,000	35,000	113,350
Law Enforcement	Strategic Response Vehicle and Equipment	-	-	-	-	50,000	50,000
Law Enforcement	Accident Reconstruction Equipment	-	-	-	-	15,000	15,000
Law Enforcement	911 Maintenance	63,259	63,259	63,259	63,259	63,259	316,295
Law Enforcement	Taser Tap 2 Program	25,978	9,225	9,225	9,225	9,225	62,878
Law Enforcement	Emergency Warning Siren	43,000	43,000	43,000	43,000	43,000	215,000
Law Enforcement	Compact SUV and Equip./Set-Up	39,000	82,000	86,000	90,000	94,000	391,000
Law Enforcement	Caprice (3) and Compact Car (1) and Equipment/Set-up	142,000	148,000	154,000	160,000	166,000	770,000
Law Enforcement	Motorcycle and Equipment/Set-Up (less trade-in)	18,000	20,000	22,000	24,000	26,000	110,000
TOTAL		426,237	365,484	820,834	424,484	501,484	2,538,523

LAW ENFORCEMENT

TOTAL PROJECTS AND EQUIPMENT						
	2016	2017	2018	2019	2020	Five Year Total
TOTAL	546,737	415,484	820,834	454,484	516,837	2,754,375

FUNDING SOURCE						
	2016	2017	2018	2019	2020	Five Year Total
Capital Fund	546,737	415,484	820,834	454,484	516,837	2,754,375
TOTAL	546,737	415,484	820,834	454,484	516,837	2,754,375

EXPANSION OF PARKING LOT

Fund: General

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$110,000

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Outside Funding: \$-0-

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City Cost: \$110,000

Description: Expansion of the Police parking lot.

Justification: Due to outgrowing the facility, employee/police vehicle parking is full. Due to safety reasons, there is a need for separate parking for employees and the public. We will need to pave the area to the south and west of the existing parking lot.

Anticipated Benefit: Provides a safe place for the employees to park their personal vehicles; and patrol vehicles will be segregated from public access.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$110,000	\$110,000	-	-	-	-

TILE/CARPETING – LIEUTENANT’S OFFICE

Fund: General

Department: Law Enforcement

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

Description: Replace carpet/tile in Lieutenant’s office, report room and support services area.

Justification: The Law Enforcement Center is 13 years old and a 24/7 operation. Carpet and flooring upgrades have never been done. Existing carpet is worn and discolored.

Anticipated Benefit: Every year there are multiple tours conducted at this building consisting of children and HOA members. This building should be professional in appearance.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$10,500	\$10,500	-	-	-	-

REMODEL – ARCHITECTURAL SERVICES AND CONSTRUCTION

Fund: General

Department: Law Enforcement

Location: 1019 Schroeder Creek Boulevard

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

Description: The Police Department, due to growth of the agency, wants to remodel the current facility to include a training/emergency management center, enlarge the armory, make a larger break room, and upgrade the building generator and battery backup for computer circuits.

Justification: The Police Department is at capacity. Offices are being shared by multiple employees, the armory is full, and vendors refuse to place vending machines in the break room due to the small size.

Anticipated Benefit: Improvement of work flow; provides for better response to disasters, major weather events, etc.; opportunity for improved training environment; more secure storage of weapons and ammunition.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$50,000	-	\$50,000	-	-	-

FLOORING/CARPETING – REPLACE AND REMOVE

Fund: General

Department: Law Enforcement

Project Cost: \$30,000

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Outside Funding: \$-0-

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City Cost: \$30,000

Description: Remove the existing flooring/carpet and replace with new in high traffic areas.

Justification: Flooring/carpeting in the LEC has exceeded its life expectancy and is showing extreme wear. The building was completed in 2001, and a carpet or flooring upgrade has not occurred since.

Anticipated Benefit: Aesthetics.

FUNDING SCHEDULE					
Total \$30,000	2016	2017	2018	2019	2020
	-	-	-	\$30,000	-

HVAC SOFTWARE UPGRADE

Fund: General

Department: Law Enforcement

Project Cost: \$15,353

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Outside Funding: \$-0-

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City Cost: \$15,353

Description: Upgrade software to Tracer Summit HVAC system

Justification: Upgrade will help building HVAC operate more efficiently, while reducing maintenance costs incurred from the current system.

FUNDING SCHEDULE					
Total \$15,353	2016	2017	2018	2019	2020
	-	-	-	-	\$15,353

MOBILE SHELVING

Fund: General

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$25,000

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Outside Funding: \$-0-

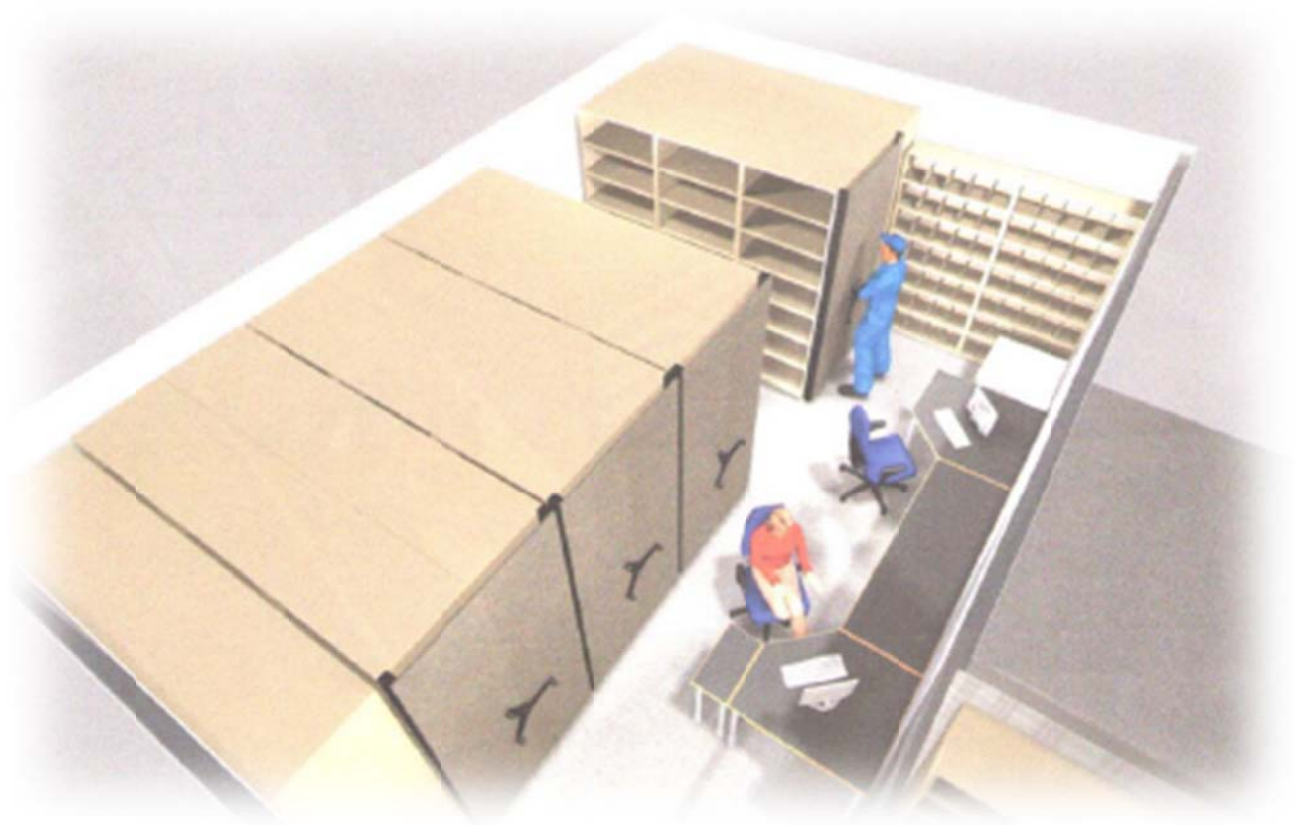
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City Cost: \$25,000

Description: Purchase of a mobile shelving unit.

Justification: Unit will provide greater storage capacity. The need for filing cabinets will be eliminated, which will double the overall evidence and records storage space.

Anticipated Benefit: No further construction for the evidence room will be necessary; there will also be an added level of security and versatility.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$25,000	\$25,000	-	-	-	-

FIREARMS TRAINING SIMULATOR

Fund: General

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$50,000

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Outside Funding: \$-0-

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City Cost: \$50,000

Description: Purchase of firearms training simulator along with accommodating software and accessories.

Justification: Training tool that teaches officers the proper application of deadly force in a training environment. This tool also provides the opportunity of one on one training to help officers work on fundamentals and accuracy. This system has untethered weapons platforms that enhance a realistic training experience and has a hostile fire simulator that simulates officers taking return fire. With enhanced training comes better prepared officers that are more confident in their abilities when dealing with deadly force confrontations. This advanced training will reduce liability for the City. This system could also be used as a public relations tool for things such as the Citizen Police Academy and other events in an effort to educate the public about Police operations and the split-second decision-making requirements of this job.

Anticipated Benefit: Reduction of liability to City by providing advanced training.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$50,000	\$50,000	-	-	-	-

RADAR TRAILER

Fund: General

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$20,000

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Outside Funding: \$-0-

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City Cost: \$20,000

Description: Purchase of two radar trailers.

Justification: There are many requests for speed enforcement in the community. The radar trailer provides a chance to gather empirical data on reported concerns and allows the Police Department, via large display, to educate the public in that area on their driving habits that may be unlawful.

Anticipated Benefit: Public relations, education of the public concerning real or perceived problems, and deployment of departmental resources and manpower based on empirical data.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$20,000	\$20,000	-	-	-	-

CAD/RMS SYSTEM

Fund: General

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$400,000

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Outside Funding: \$-0-

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City Cost: \$400,000

Description: Replace CAD/RMS System

Justification: The original request submitted for the 2014 – 2019 CIP was scheduled for 2017. However, the current vendor, ITI, is preparing to launch a new web-based version of the City's current CAD/RMS system. The launch of the system is slated for 2016. The Police Department is requesting to push this project to 2018 in order to explore the functionality of the upgrade being offered by ITI.

Anticipated Benefit: More accurate reporting.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$400,000	-	-	\$400,000	-	-

AVL/GPS SYSTEM

Fund: General

Department: Law Enforcement

Project Cost: \$113,350 | **Outside Funding:** \$-0- | **City Cost:** \$113,350

Description: The AVL or Automated Vehicle Locator is a GPS based system that tracks police vehicles. This system displays real time locations of police vehicles on a screen in the dispatch center and interfaces with the computer aided dispatch program. With the pending launch of an upgrade to the CAD/RMS system, which includes mapping software, Police is requesting to delay this project until 2018 so that the new CAD/RMS program can be evaluated. The concern being that if this module was purchased and it was later determined to seek a new CAD/RMS vendor, the monies spent on this module would have been wasted. It is worth noting that if this module is purchased today, an unexpected cost of purchasing 4G service for each computer that would have the module loaded on it would be necessary. Based on the above the purchase of this system has been pushed back to 2018.

Justification: The AVL/GPS system increases officer safety and enhances the dispatcher's ability to send the closest unit to an in-progress call for service.

Anticipated Benefit: Faster response to citizens of the community.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$113,350	-	-	\$45,350	\$35,000	\$35,000

STRATEGIC RESPONSE VEHICLE

Fund: General

Department: Law Enforcement

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

Description: Box style vehicle to house and deliver on scene emergency services equipment (i.e. barricades, accident reconstruction equipment, etc.) in a timely manner.

Justification: There are frequent instances where equipment is needed to make an incident scene safe. Resources from other City departments are often unavailable. This vehicle would allow for the timely response of that type of equipment when it is critically needed.

Anticipated Benefit: Provides the opportunity to resolve critical incidents in a timely and safe manner.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$50,000	-	-	-	-	\$50,000

ACCIDENT RECONSTRUCTION EQUIPMENT

Fund: General

Department: Law Enforcement

Project Cost: \$15,000

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Outside Funding: \$-0-

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City Cost: \$15,000

Description: Topcon HiPer V Rover GD Digital Griner & Schmitz UHF II 440-470 with internal CDMA. Topcon OAF, HiPer V, L1+L2 Griner & Schmitz and other associated equipment.

Justification: With the City's growth, the community has suffered a number of fatality crashes that have required the assistance of other agencies to investigate. The Police Department has trained an officer to complete reconstruction investigations and now needs the equipment for the officer to use.

Anticipated Benefit: Better services provided to the residents and the ability to produce timely, accurate traffic investigative reports on serious crash scenes.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$15,000	-	-	-	-	\$15,000

911 MAINTENANCE

Fund: General

Department: Law Enforcement

Project Cost: \$316,295

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Outside Funding: \$-0-

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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	2016	2017	2018	2019	2020
\$316,295	\$63,259	\$63,259	\$63,259	\$63,259	\$63,259

TASER TAP 2 PROGRAM

Fund: General

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$62,878 | **Outside Funding:** \$-0- | **City Cost:** \$62,878

Description: Taser assurance/replacement program.

Justification: The program continues to replace equipment that is out of warranty, as replacement parts are unavailable. This project provides an additional 15 units in 2015 and will be duplicated in 2016 which will complete the full deployment for the agency.

Anticipated Benefit: Health and safety.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$62,878	\$25,978	\$9,225	\$9,225	\$9,225	\$9,225

EMERGENCY WARNING SIRENS

Fund: General

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	2016	2017	2018	2019	2020
\$215,000	\$43,000	\$43,000	\$43,000	\$43,000	\$43,000

PATROL VEHICLES AND EQUIPMENT/SET-UP

Fund: General

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Description: Purchase of vehicles including turnkey outfitting and installation of police vehicle equipment.

Justification: Continue the police rotation program. This provides for faster deployment of vehicles to patrol duties and quicker turnover of worn-out vehicles.

Anticipated Benefit: Reduced liability and less maintenance and repair costs. Safety of officers and residents.

COMPACT SUV					
FUNDING SCHEDULE					
Total	2016 (1)	2017 (2)	2018 (2)	2019 (2)	2020 (2)
\$391,000	\$39,000	\$82,000	\$86,000	\$90,000	\$94,000

CAPRICE PATROL CAR (3) AND COMPACT CAR (1)					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$770,000	\$142,000	\$148,000	\$154,000	\$160,000	\$166,000

MOTORCYCLE (2)					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$110,000	\$18,000	\$20,000	\$22,000	\$24,000	\$26,000



PUBLIC WORKS

PROJECT								
Department	Description	2015	2016	2017	2018	2019	2020	Five Year Total
	City Hall	800,000	9,500,000	4,700,000	-	-	-	15,000,000
PW - Stormwater	Brian Court Utility Stabilization Phase II	-	75,000	-	-	-	-	75,000
PW - Stormwater	Mexico Road Basin Reconstruction	-	-	35,000	-	-	-	35,000
PW - Stormwater	Spotted Fawn and Jagged Rock Intersection Flood Relief	-	-	-	400,000	-	-	400,000
PW - Stormwater	Utility Stabilization - 4610 Darkwoods Dr.	-	-	-	-	63,250	-	63,250
PW – Admin	Church Street Hwy Z Roundabout Landscaping	-	-	-	-	-	20,000	20,000
Transp. - Admin	Wentzville Parkway Overpass Bridge	-	450,000	-	-	-	-	450,000
Transp. – Admin	Interstate Drive Trail	-	30,000	295,000	-	-	-	325,000
Transp. – Admin	Hwy 61 Outer Road	-	740,000	1,570,000	-	-	-	2,310,000
Transp. – Admin	Flashing Yellow Arrows	-	45,000	225,000	-	-	-	270,000
Transp. – Admin	ADA Traffic Signals Project - Pedestrian Enhancement and Battery Backup	-	30,000	150,000	120,000	-	-	200,000
Transp. – Admin	Village Center Renovation - South Linn Avenue Revitalization Project	-	510,500	802,450	1,000,000	1,000,000	-	3,312,950
Transp. – Admin	David Hoekel Parkway Phase II - I-70 Interchange	-	1,500,000	16,671,697	13,083,627	1,404,468	12,640,208	45,300,000
Transp. – Admin	Wentzville Parkway Turn Lane - Phase II	-	-	206,000	375,000	2,260,000	-	2,841,000
Transp. – Admin	Meyer Road - Pearce Boulevard Roundabout	-	-	100,000	250,000	1,000,000	-	1,350,000
Transp. – Admin	West Meyer Road – Phase III	-	-	-	-	1,207,000	4,193,000	5,400,000
Transp. – Admin	Wentzville Parkway South - Phase I	-	-	-	-	-	1,000,000	1,000,000
Transp. – Admin	West Pearce Blvd. Pavement Rehabilitation	-	-	-	-	-	1,190,000	1,190,000
Transp. – Streets	Contracted Street Maintenance - Asphalt and Concrete Replacement	-	2,900,000	2,400,000	1,900,000	1,900,000	1,900,000	11,000,000
Transp. – Streets	Contracted Sidewalk Maintenance and ADA Ramps	-	300,000	300,000	300,000	300,000	300,000	1,500,000
TOTAL		800,000	16,080,500	27,455,147	17,428,627	9,134,718	21,243,208	92,142,200

PUBLIC WORKS

EQUIPMENT								
Department	Description	2015	2016	2017	2018	2019	2020	Five Year Total
PW – Street Sign.	Laser Line Striper	-	9,500	-	-	-	-	9,500
PW – Engineering	Utility Vehicle - Pavement/Capital Proj. Insp.	-	14,500	-	-	-	-	14,500
PW – Street Sign.	One Ton Dump Truck w/Plow and Spreader	-	60,000	-	-	60,000	-	120,000
PW – Street Sign.	Zero Turn ROW Mower	-	-	11,000	-	-	-	11,000
PW – Street Sign.	One Ton Flat Bed Truck w/Plow and Spreader	-	-	60,000	-	-	-	60,000
PW – Stormwater	Compact SUV	-	-	28,000	-	-	-	28,000
PW – Street Sign.	6 ft. x 10 ft. Equipment Trailer	-	-	-	5,000	-	-	5,000
PW – Facility Op.	Drop Spreader for Compact Utility Tractor	-	-	-	-	-	6,500	6,500
PW – Facility Op.	Pickup Salt V Spreader	-	-	-	-	-	8,500	8,500
PW - Fleet	3/4-Ton 4x4 Service Truck	-	-	-	-	-	45,000	45,000
	1/2-Ton 4X4 Pickup Truck	-	30,000	32,000	32,000	32,000	33,000	159,000
	3/4-Ton 4x4 Pickup Truck	-	-	66,000	68,000	-	37,000	171,000
	New Personnel Trucks (2)	-	54,000	-	-	-	-	54,000
Transp. – Streets	Brush Chipper	-	43,000	-	-	-	-	43,000
Transp. – Streets	Bucket Truck	-	130,000	-	-	-	-	130,000
Transp. – Streets	Wheel Loader/Rubber Tire	-	56,000	-	-	-	-	56,000
Transp. – Streets	Single Axle Dump Truck w/Plow and Spreader	-	150,000	-	-	160,000	170,000	480,000
Transp. – Streets	Mini-Excavator	-	-	55,000	-	-	-	55,000
Transp. – Streets	Tandem Axle Dump Truck w/Plow and Spreader	-	-	106,000	-	-	-	160,000
Transp. – Streets	Changeable Message Board	-	-	28,000	14,000	14,000	40,000	96,000
Transp. – Streets	Crack-Sealer Machine	-	-	-	50,000	-	-	50,000
Transp. – Streets	Loadall Telehandler	-	-	-	180,000	-	-	180,000
Transp. – Streets	Skid-Steer Loader	-	-	-	52,000	-	-	52,000
Transp. – Streets	Salt Storage Facility	-	-	-	-	160,000	-	160,000

PUBLIC WORKS

EQUIPMENT (continued)								
Department	Description	2015	2016	2017	2018	2019	2020	Five Year Total
Transp. – Streets	Sweeper	-	-	-	-	260,000	-	260,000
Transp. – Streets	Vibratory Roller	-	-	-	-	42,000	-	42,000
Transp. – Streets	Tractor w/ROW Mowing Arm	-	-	-	-	135,000	140,000	275,000
TOTAL		-	547,000	440,000	401,000	863,000	480,000	2,731,000

TOTAL PROJECTS AND EQUIPMENT							
	2015	2016	2017	2018	2019	2020	Five Year Total
TOTAL	800,000	16,627,500	27,895,147	17,829,627	9,997,718	21,723,208	94,873,200

FUNDING SOURCE							
Source	2015	2016	2017	2018	2019	2020	Total
General Fund Reserves	3,000,000	4,000,000	2,000,000	-	-	-	9,000,000
Capital Fund	-	722,000	575,000	901,000	1,026,250	600,000	3,824,250
Capital Fund Reserves	1,000,000	2,300,000	2,700,000	-	-	-	6,000,000
Transportation Fund	-	4,916,500	1,004,800	7,599,830	4,200,175	7,271,575	24,992,880
Cost Share w/County and/or MoDOT	-	1,397,000	12,088,397	8,941,797	2,841,293	12,899,633	38,168,120
STP Funding	-	-	545,950	187,000	1,130,000	952,000	2,814,950
East-West Gateway TAP Funding	-	21,000	286,500	200,000	800,000	-	1,307,500
CMAQ through EWGCOCG	-	36,000	180,000	-	-	-	216,000
Private Developer	-	35,000	514,500	-	-	-	549,500
TDD/Bond Issuance (to be est. in conjunction with bond issuance)	-	-	8,000,000	-	-	-	8,000,000
TOTAL	4,000,000	13,427,500	27,895,147	17,829,627	9,997,718	21,723,208	94,873,200

NEW CITY HALL

Fund: Capital

Department: Public Works

Location: Schroeder Creek Boulevard

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

Planning and Engineering - \$1,040,000

Construction and FF&E - \$13,595,000

Construction Management - \$365,000

General Fund Reserves - \$3,000,000 in 2015, \$4,000,000 in 2016, \$1,000,000 in 2017

Capital Fund Reserves - \$1,000,000 in 2015, \$2,300,000 in 2016, \$3,700,000 in 2017

Description: Construction of a new City Hall.

Justification: Construction of a new City Hall to facilitate the consolidation of numerous public facilities to improve safety, efficiency, customer service and provide a facility to meet the needs of a growing City of more than 30,000.



FUNDING SCHEDULE						
Total	PRIOR	2016	2017	2018	2019	2020
\$15,000,000	\$800,000	\$9,500,000	\$4,700,000	-	-	-

MEXICO ROAD BASIN RECONSTRUCTION

Fund: General

Department: Stormwater

Location: Mexico Road at Picket Fence

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

Description: Retrofit construction of Mexico Road Widening Project stormwater basin.

Justification: Several public concerns each year over the past three years. Addresses concerns with aesthetics, mosquitoes and vegetation, while improving recurring maintenance issues with standing water, cattails, algae and struggling vegetation.

Anticipated Benefit: Enhanced public perception and improved aesthetics for a high-profile basin and decreased long-term maintenance and public concerns.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$35,000	-	\$35,000	-	-	-

SPOTTED FAWN & JAGGED ROCK INTERSECTION FLOOD RELIEF

Fund: General

Department: Stormwater

Location: Spotted Fawn and Jagged Rock to Cripple Creek Court

Project Cost: \$400,000 | **Outside Funding:** \$-0- | **City Cost:** \$400,000

Description: Replacing existing pipe (12", 15", and 18") with 18" and 36" pipe. To be modeled to determine extent of repair and maintenance and designed in-house.

Justification: Correcting storm pipe deficiencies to accommodate 100 year flood capacity at an intersection prone to flooding during normal rains (no flood relief swale).

Anticipated Benefit: Increases street intersection resilience to flooding during normal weather events.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$400,000	-	-	\$400,000	-	-

UTILITY STABILIZATION – 4610 DARKWOODS DR.

Fund: General

Department: Stormwater

Location: 4610 Darkwoods Dr.

Project Cost: \$63,250 | **Outside Funding:** \$-0- | **City Cost:** \$63,250

Description: Stabilize 18" HDPE storm line in meandering stream with 6' high composite revetment and bio-stabilization and property easement restoration.

Justification: Address function and stabilization of stormwater infrastructure.

Anticipated Benefit: Prevent/address public infrastructure and property damage.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$63,250	-	-	-	\$63,250	-

CHURCH STREET HIGHWAY Z ROUNDAABOUT LANDSCAPING

Fund: General

Department: PW – Admin/Parks

Location: Center of MoDOT Roundabout at Church/I70/Hwy Z

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

Description: Through maintenance agreement with MoDOT provide enhanced landscaping in the center island of newly constructed roundabout.

Justification: Provide aesthetic enhancement for those entering the City and the Village center.

Anticipated Benefit: Improved appearance when entering the City, which promotes a positive environment and an atmosphere for growth and development.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$20,000	-	-	-	-	\$20,000

WENTZVILLE PARKWAY OVERPASS BRIDGE ENHANCEMENT PROTECTION

Fund: Transportation

Department: Administration

Location: Wentzville Parkway/I-70 Overpass

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

Description: Repair of existing I-70 Bridge EFIS and stone veneer with future replacement of EFIS panels with safer more durable material. Major component of project will be traffic control for I-70.

Justification: Current EFIS panels are beginning to delaminate over the travel lanes of I-70 and could pose a serious safety hazard if they are not stabilized and repaired soon. Longer-term fix is the replacement of EFIS panels with material more suitable for the orientation and conditions to provide long term low maintenance enhancement of the overpass.

Anticipated Benefit: Reduction in risk or liability for material that may fall onto I-70 as well as long term aesthetic enhancement for the Parkway Interchange.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$450,000	\$450,000	-	-	-	-

INTERSTATE DRIVE TRAIL

Fund: Transportation

Department: Administration

Location: Interstate Drive (Wilmer Road to Highway Z)

Project Cost: \$325,000 **Outside Funding:** \$227,500 **City Cost:** \$97,500

Planning and Engineering - \$30,000

Project Management - \$30,000

Construction - \$265,000

East-West Gateway Transportation Alternatives Program Funding - \$227,500

Description: This project will consist of constructing a 10-foot wide multi-use asphalt trail along the south side of Interstate Drive from the intersection at Wilmer Road to the intersection with Highway Z to the west. The trail will be located entirely on existing Right of Way for Interstate Drive. The trail will extend the 10-foot wide trail, which already exists from Hepperman Road to Wilmer Road, and connect to the future 10-foot trail extending from Highway Z to Quail Ridge Parkway, which St. Charles County is currently constructing. The project will include ADA accessibility at Wilmer Road and Highway Z, and at the Cimarron Valley Trail and Cimarron Ridge Crossing.

Justification: This section of trail will provide a missing link for the multi-use trail which will eventually stretch from South Point Prairie Road in the west to Quail Ridge Park in the west, for a total of 3.59 miles. This will give Wentzville residents to the south of Interstate 70 a trail to bike or walk, as well as non-vehicular access to Quail Ridge Park. The trail will also allow pedestrian and cyclist access to the Wentzville Bluffs development, which contains food and entertainment venues.

Anticipated Benefit: This project will provide City residents a multi-use trail on which to bike, run or walk. It will also provide pedestrian access to Quail Ridge Park for resident recreation.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$325,000	\$30,000	\$295,000	-	-	-
Outside Funding	\$21,000	\$206,500	-	-	-

HIGHWAY 61 OUTER ROAD DESIGN AND PHASE I CONSTRUCTION

Fund: Transportation

Department: Administration

Location: West side of Highway 61 from Wentzville Parkway to Timber Trace

Project Cost: \$2,310,000 **Outside Funding:** \$2,005,000 **City Cost:** \$305,000
 Cost Share with St. Charles County and Private Developer (63/24/13) - \$1,455,500/\$549,500

Description: Utilize existing MoDOT roadway and right of way to Design 61 Outer Road from Peine Road to Wentzville Parkway. Construct section of outer road from Peine Road to proposed Lexington subdivision with private developer participation.

Justification: Safety improvement to provide access for residents and businesses back to Wentzville Parkway without using Hwy 61. Project will also open up areas for both residential and commercial growth. This follows the City's Thoroughfare Plan to proactively address access with planned Hwy 61 Safety Improvements. A construction-ready plan will also aid in acquiring federal and state funding for the project.

Anticipated Benefit: Safety improvements for residents, as well as improved access back to Wentzville for shopping and recreation; this will also open up additional areas for commercial and residential growth.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$2,310,000	\$740,000	\$1,570,000	-	-	-
County	\$647,000	\$808,500	-	-	-
Private Developer	\$35,000	\$514,500	-	-	-

DAVID HOEKEL PARKWAY – PHASE II

Fund: Transportation

Department: Administration

Location: I-70 west of Point Prairie from West Meyer Road to Interstate Drive

Project Cost: \$46,994,732 | **Outside Funding:** \$30,456,620 | **City Cost:** \$16,538,112

Planning and Engineering - \$3,099,200

Construction – \$42,395,532

MoDOT Maintenance Fee - \$1,500,000

Cost Share with St. Charles County (60/40) - \$30,456,620

TDD/Bond Issuance (to be established in conjunction with bond issuance) - \$8,000,000

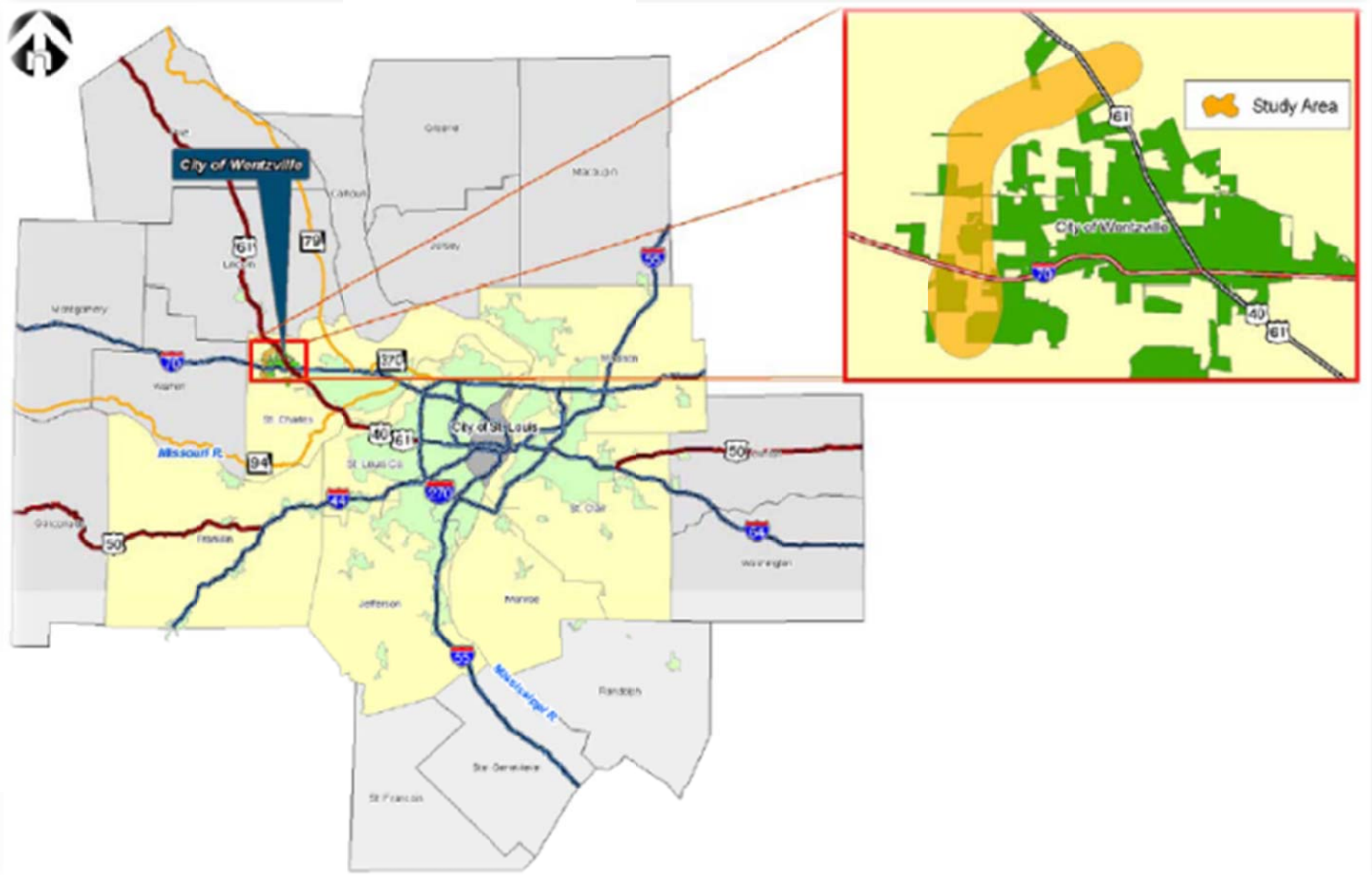
Description: Construct an interchange at I-70 and construct David Hoekel Parkway from Interstate Drive to West Meyer Road for access.

Justification: All available improvements have made to the Wentzville Parkway exit this project will provide a second access point to alleviate congestion at the Parkway and improve commute time and safety by helping to alleviate traffic backups onto I-70. This project will also open up an entirely new corridor for commercial growth and development while providing new access to residential areas.

Anticipated Benefit: Improve safety, congestion and access, and create opportunities for economic development.

FUNDING SCHEDULE						
		DHP 2A – Interchange Goodfellow to Interstate		DHP 2B – West Facing Interchange Ramps	DHP 2C – Goodfellow to West Meyer Road	
Total	PRIOR	2016*	2017**	2018**	2019**	2020**
\$46,994,732	\$1,694,732	\$1,500,000	\$16,671,697	\$13,083,627	\$1,404,468	\$12,640,208
Outside Funding	-	\$750,000	\$11,197,497	\$8,792,197	\$971,693	\$8,745,233
TDD/Bond Issuance	-	-	\$8,000,000	-	-	-
*\$1.5 million in MoDOT maintenance fee may be offset by assuming maintenance of existing roadway or cooperation on funding other area improvements located on MoDOT right-of-way.						
**Phase 2A, 2B and 2C will require County participation as well as an additional funding source such as the establishment of a Transportation Development District (TDD).						

DAVID HOEKEL PARKWAY – PHASE II



WENTZVILLE PARKWAY TURN LANE – PHASE II

Fund: Transportation

Department: Administration

Location: Wentzville Parkway from Schroeder Creek Boulevard to Will Ron Drive

Project Cost: \$2,841,000 **Outside Funding:** \$2,556,000 **City Cost:** \$285,000

Planning and Engineering - \$206,000

Pre-Construction - \$375,000

Construction - \$2,260,000

Federal STP (50/50) - \$1,420,000 and Road Board (80/20) - \$1,136,000

Description: Construct pavement widening to allow for a center left turn lane similar to Phase I from William Dierberg Drive to Schroeder Creek Boulevard Project; will also include enhanced pedestrian facilities such as ADA ramps and a 10-foot wide, multi-use trail.

Justification: Project to correct existing safety and congestion issues as cars must currently stop in the through drive lane to yield to oncoming traffic before making a left turn. In a three-year period, 58 accidents occurred in this section of the Parkway. This project will meet the current need and will allow for future utilization of commercial property along the Parkway. The continued trail will also provide connectivity between Heartland and Progress parks.

Anticipated Benefit: Improved safety, reduced congestion, and improved travel time, while also providing capacity for future growth and pedestrian accessibility.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$2,841,000	-	\$206,000	\$375,000	\$2,260,000	-
Federal STP	-	\$103,000	\$187,000	\$1,130,000	-
County	-	\$82,400	\$149,600	\$904,000	-

MEYER ROAD – PEARCE BLVD. ROUNDBABOUT

Fund: Transportation

Department: Administration

Location: Meyer Road/Pearce Boulevard Intersection

Project Cost: \$1,350,000 | **Outside Funding:** \$1,080,000 | **City Cost:** \$270,000

Planning/Engineering - \$100,000

Pre-construction - \$250,000

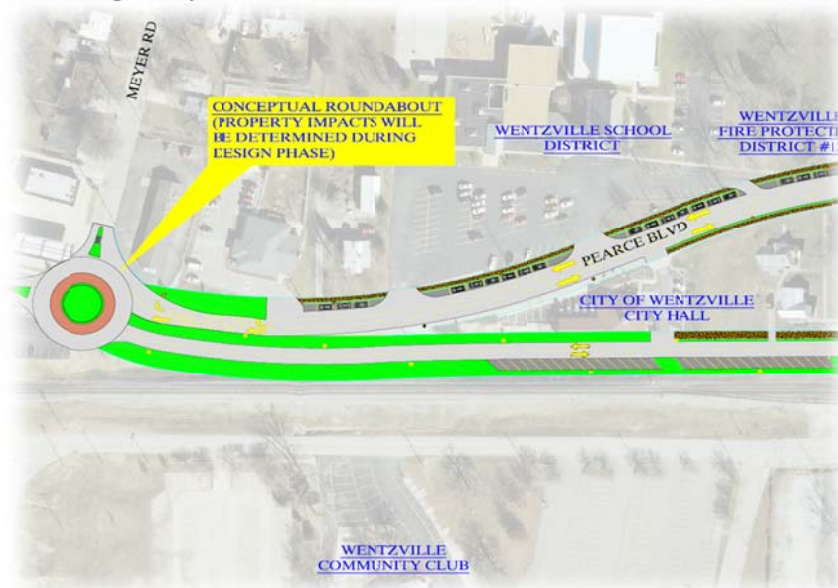
Construction - \$1,000,000

East West Gateway (Congestion Mitigation Funding) - \$1,080,000

Description: Construction of a roundabout at the current four way intersection of Meyer Road and Pearce Boulevard.

Justification: Roundabout would help to alleviate congestion resulting from current stop control. This new alignment would particularly aid in the PM peak west-bound traffic movement.

Anticipated Benefit: Previous'y completed traffic study illustrates an overall improvement in service level by reducing delay and overall travel time. This reduction can also improve overall air quality.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$1,350,000	-	\$100,000	\$250,000	\$1,000,000	-
Outside Funding	-	\$80,000	\$200,000	\$800,000	-

WEST MEYER ROAD – PHASE III

Fund: Transportation

Department: Administration

Location: West Meyer Road from North Point Prairie Road to Rotary Park

Project Cost: \$5,400,000 **Outside Funding:** \$4,320,000 **City Cost:** \$1,080,000

Planning and Engineering - \$535,000

Pre-Construction - \$672,000

Construction - \$4,193,000

Cost Share with St. Charles County (80/20) - \$4,320,000

Description: Complete reconstruction of West Meyer Road from North Point Prairie Road to Rotary Park.

Justification: Largest section has a PCI of 39 and there are currently no pedestrian facilities located along the Road. This project would construct roadway with a PCI of 100 and a life expectancy of 30 to 40 years. The project would increase capacity for residential growth as well as large events at Rotary Park such as the County Fair. The project will also include sidewalks and a 10-foot wide pedestrian trail to provide connectivity from existing trail to Rotary Park.

Anticipated Benefit: Complete reconstruction of roadway will meet current needs, and add capacity for utilization of Rotary Park and to encourage both residential and commercial growth along the corridor. This project will lay the ground work for the David Hoekel Parkway project by creating an adequate east-west system to distribute traffic from the new I-70 Interchange.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$5,400,000	-	-	-	\$1,207,000	\$4,193,000
Outside Funding	-	-	-	\$965,600	\$3,354,400

WENTZVILLE PARKWAY SOUTH – PHASE I

Fund: Transportation

Department: Administration

Location: Veterans Memorial Parkway to Interstate Drive

Project Cost: \$14,500,000 | **Outside Funding:** \$11,600,000 | **City Cost:** \$1,800,000

Planning and Engineering - \$1,000,000

Pre-Construction (2021) – \$3,500,000

Construction (2021) – \$10,000,000

Cost Share with St. Charles County - \$11,600,000

Description: Construct an extension of Wentzville Parkway south from the current terminus at Veterans Memorial Parkway to Interstate Drive.

Justification: Will provide a major north-south arterial for traffic flow, and will provide additional opportunities for commercial development.

Anticipated Benefit: Improved access and economic development.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$1,000,000	-	-	-	-	\$1,000,000
Outside Funding	-	-	-	-	\$800,000

WEST PEARCE BOULEVARD PAVEMENT REHABILITATION

Fund: Transportation

Department: Streets

Location: West Pearce Boulevard

Project 1 – Schroeder Creek to Luetkenhouse Blvd.

Two inch mill and overlay of existing roadway approximately 7,800 feet long and 40-feet wide that coincides with future improvements to Pearce Boulevard such as roundabouts.

Project Cost: \$520,000 | **Outside Funding:** \$416,000 | **City Cost:** \$104,000
East West Gateway - \$416,000

Project 2 – May Road to Goodfellow

Two inch mill and overlay of existing roadway approximately 12,000 feet long and 25 feet wide that coincides with upgrading conditions with completion of David Hoekel Parkway/I-70 Interchange.

Project Cost: \$670,000 | **Outside Funding:** \$536,000 | **City Cost:** \$134,000
East West Gateway - \$536,000

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.

PROJECT 1 – SCHROEDER CREEK TO LUETKENHOUSE BLVD.					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$500,000	-	-	-	-	\$520,000
Outside Funding	-	-	-	-	\$416,000

PROJECT 2 – MAY ROAD TO GOODFELLOW					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$500,000	-	-	-	-	\$670,000
Outside Funding	-	-	-	-	\$536,000

CONTRACTED STREET MAINTENANCE – ASPHALT AND CONCRETE REPLACEMENT

Fund: Transportation

Department: Streets

Location: Citywide

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

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



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$11,000,000	\$2,900,000	\$2,400,000	\$1,900,000	\$1,900,000	\$1,900,000

ADA RAMPS AND CONTRACTED SIDEWALK MAINTENANCE

Fund: Transportation
Department: Engineering
Location: Citywide

Project Cost: \$1,500,000 | **Outside Funding:** \$-0- | **City Cost:** \$1,500,000
Capital Fund – \$500,000 (\$100,000 each year)

Description: Ongoing sidewalk maintenance based on condition as well as factors such as ADA compliance and safety.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$1,500,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000

LASER-LINE STRIPER

Fund: General

Department: Public Works – Streets and Signals

Location: Street Division

Project Cost: \$9,500 | **Outside Funding:** \$-0- | **City Cost:** \$9,500

Description: Purchase of a laser line striper.

Justification: This laser-line striper will replace an outdated 2007 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: Increase reliability/efficiency, and reduced repair and maintenance costs.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$9,500	\$9,500	-	-	-	-

ONE TON DUMP TRUCK WITH PLOW AND SPREADER

Fund: General

Department: Public Works – Streets and Signals

Location: Street Division

Project Cost: \$120,000 | **Outside Funding:** \$-0- | **City Cost:** \$120,000

Description: Purchase of a one-ton dump truck with plow and spreader.

Justification: Replacement trucks (#303 and #314) for outdated models with high maintenance costs due to age and use.

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

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$120,000	\$60,000	-	-	\$60,000	-

UTILITY VEHICLE – PAVEMENT/CAPITAL PROJECT INSPECTION

Fund: General

Department: Engineering

Project Cost: \$14,500 | **Outside Funding:** \$-0- | **City Cost:** \$14,500

Description: Utility vehicle (UTV) with a small utility trailer to transport around the City that is capable of transporting two employees, as well as GPS equipment.

Justification: UTV will allow staff to safely and efficiently inspect all streets in the City for pavement condition and specifically map all slabs slated for replacement or repair. The UTV allows staff to work much faster from a protected vehicle while carrying GPS equipment with better visibility than a truck. Motorized inspection has been completed per subdivision with eight man hours as opposed to 80 walking. The UTV can also provide efficient inspection of large capital projects such as David Hoekel Parkway and Schroeder Creek that may be inaccessible by truck.

Anticipated Benefit: Ability to inspect more pavement in a given time, allowing staff to update information for contract replacement and in house work annually. Improve safety for staff by placing them in a street legal vehicle rather than walking and can be equipped with appropriate lights and warning devices.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$14,500	\$14,500	-	-	-	-

ZERO-TURN ROW MOWER

Fund: General

Department: Public Works – Streets and Signals

Location: Street Division

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

Description: Purchase of a zero-turn ROW mower.

Justification: This mower truck will 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/use. The service use of this mower is bi-monthly with heavy use.

Anticipated Benefit: Reliability, and reduction in repair and maintenance costs.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$11,000	-	\$11,000	-	-	-

ONE-TON FLAT BED TRUCK WITH PLOW AND SPREADER

Fund: General

Department: Public Works – Street and Signals

Location: Street Division

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

Description: Purchase of a one-ton flatbed truck with plow and spreader.

Justification: Replacement truck (#303) for outdated model with high maintenance costs due to age and use.

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

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$60,000	-	\$60,000	-	-	-

6 FT. X 10 FT. EQUIPMENT TRAILER

Fund: General

Department: Public Works – Streets and Signals

Location: Street Division

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

Description: Purchase of a 6-foot x 10-foot equipment trailer.

Justification: This 6-foot x 10-foot equipment trailer will replace an outdated 1997 model of similar nature that has been in service for many years, exhibits considerable wear and tear, and heavy use.

Anticipated Benefit: Increase reliability and reduce repair and maintenance costs.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$5,000	-	-	\$5,000	-	-

DROP SPREADER FOR COMPACT UTILITY TRACTOR

Fund: General

Department: Public Works – Facility Maintenance

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	2016	2017	2018	2019	2020
\$6,500	-	-	-	-	\$6,500

PICKUP SALT V SPREADER

Fund: General

Department: Public Works – Facility Maintenance

Project Cost: \$8,500 | **Outside Funding:** \$-0- | **City Cost:** \$8,500

Description: Stainless Steel Pickup Mounted Salt V Spreader.

Justification: Stainless Steel V Pickup V spreader will replace small tailgate mounted spreader currently in use allowing for use of cheaper rock salt versus bag salt as well as increased capacity to improve efficiency when clearing snow and ice from parking lots in winter events. Spreader will also provide flexibility that the fully outfitted truck could be used for street snow removal if conditions demanded.

Anticipated Benefit: More efficient snow removal with reduction in time from additional salt capacity and reduced material cost by using rock salt rather than bag salt.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$8,500	-	-	-	-	\$8,500

VEHICLES

Fund: General

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

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

Description: Purchase of replacement vehicles.

Justification: Replacement of 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.

COMPACT SUV (Stormwater)					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$28,000	-	\$28,000	-	-	-

1/2-TON 4x4 PICKUP TRUCK (Engineering)					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$213,000	\$87,000	\$32,000	\$32,000	\$32,000	\$33,000

3/4-TON 4x4 PICKUP TRUCK (Streets and Signals, Fleet, Facility Operations)					
FUNDING SCHEDULE					
Total	2016	2017 (2)	2018 (2)	2019	2020
\$171,000	-	\$66,000	\$68,000	-	\$37,000

3/4-TON 4x4 SERVICE TRUCK (Fleet)					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$45,000	-	-	-	-	\$45,000

BRUSH CHIPPER

Fund: Transportation

Department: Streets

Project Cost: \$43,000 | **Outside Funding:** \$-0- | **City Cost:** \$43,000

Description: Purchase of a brush chipper.

Justification: This chipper will replace an outdated 2001 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 brush chipper will increase reliability, reduce down time and maintenance cost, and raise the efficiency of the brush removal operations throughout the City.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$43,000	\$43,000	-	-	-	-

BUCKET TRUCK

Fund: Transportation

Department: Streets

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

Description: Purchase of a bucket truck, extendable/2 man.

Justification: This bucket truck will be added to the fleet to provide a safer environment for crews installing or repairing street lights and traffic signals, as well as banners, Christmas decorations, tree trimming or other aerial requirements near power lines.

Anticipated Benefit: The anticipated benefit for the addition of this equipment is greater safety measures, efficiency and flexibility. Additionally, this equipment will allow us to make some repairs to traffic signals and street lights, which are presently provided by a contractor.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$130,000	\$130,000	-	-	-	-

WHEEL LOADER/RUBBER TIRE

Fund: Transportation

Department: Streets

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

Wastewater Fund - \$84,000 (60%)

Capital Fund - \$56,000 (40%)

Description: Purchase of a wheel loader.

Justification: This wheel loader will be added to the fleet to provide more efficiency to the process of loading rock, salt, dirt, mulch, etc.

Anticipated Benefit: The anticipated benefit for the addition of this equipment is greater efficiency and flexibility. This equipment will also be used by the Water Division for their loading requirements.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$140,000	\$140,000	-	-	-	-

SINGLE-AXLE DUMP TRUCK WITH PLOW AND SPREADER

Fund: Transportation

Department: Streets

Project Cost: \$480,000 | **Outside Funding:** \$-0- | **City Cost:** \$480,000

Description: Purchase of a single-axle dump truck with plow and spreader.

Justification: This dump truck 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 more than 3 to 4 inches.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$480,000	\$150,000	-	-	\$160,000	\$170,000

MINI-EXCAVATOR

Fund: Transportation

Department: Streets

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

Description: Purchase of a mini-excavator to replace leased machine.

Justification: Replace outdated 2008 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 all equipment on a regular replacement schedule. Each piece of equipment will be replaced after a fixed number of years, before it has the opportunity to become a financial drain. Naturally, equipment 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. In general, the City intends to adhere to the general schedule in order to minimize long-term maintenance costs. Lease of this equipment provides a better financial option to the City, and ensures an excellent trade-in value through the lease contracts.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$55,000	-	\$55,000	-	-	-

TANDEM-AXLE DUMP TRUCK WITH PLOW AND SPREADER

Fund: Transportation

Department: Streets

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

Description: Tandem-axle dump truck with plow and spreader. This dump truck will replace an outdated 2007 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.

Justification: 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, 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 general schedule in order to minimize long-term maintenance costs.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$160,000	-	\$160,000	-	-	-

CHANGEABLE MESSAGE BOARD

Fund: Transportation

Department: Streets

Project Cost: \$96,000 | **Outside Funding:** \$-0- | **City Cost:** \$96,000

Description: Purchase of changeable message boards.

Justification: This changeable message board will replace an out dated 2006 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	2016	2017 (2)	2018	2019	2020
\$96,000	-	\$28,000	\$14,000	\$14,000	\$40,000

CRACK-SEALER MACHINE

Fund: Transportation

Department: Streets

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

Description: Purchase of a crack-sealer machine.

Justification: Machine will 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	2016	2017	2018	2019	2020
\$50,000	-	-	\$50,000	-	-

LOADALL TELEHANDLER

Fund: Transportation

Department: Streets

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

Description: Purchase of a front-end loader to replace the current leased machine.

Justification: Replace an outdated 2008 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: The City has placed all 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. In general, the City intends to adhere to the general schedule in order to minimize long-term maintenance costs. Lease of this equipment provides a better financial option to the City, and ensures an excellent trade-in value through the lease contracts.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$180,000	-	-	\$180,000	-	-

SKID-STEER LOADER

Fund: Transportation

Department: Streets

Project Cost: \$52,000 | **Outside Funding:** \$-0- | **City Cost:** \$52,000

Description: Purchase of a skid-steer loader to replace the current leased machine.

Justification: 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 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). The nature of these attachments enormous pressures/vibrations to be applied to this machine and attachments.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$52,000	-	-	\$52,000	-	-

SALT STORAGE FACILITY

Fund: Transportation

Department: Streets

Location: Street Division

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

Description: Add additional salt storage capacity through construction of standalone structure. Utilize MoDOT Bid for modular block construction and fabric roof.

Justification: Add additional salt storage capacity of approximately 650 tons to current 1,100 tons. This covered storage would comply with state and federal regulations and allow the flexibility to order and have salt delivered during summer months when demand is low. The use of appropriate storage facility will also reduce waste as a result of exposure to the elements. Our long-range goal is to have enough onsite storage to make it through winter without supplementary deliveries.

Anticipated Benefit: Cost savings by allowing salt to be purchased and delivered during the off-season. Reduce risk of running out of salt during winter event, thereby improving motorist safety and accessibility.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$160,000	-	-	-	\$160,000	-

SWEEPER

Fund: Transportation

Department: Streets

Project Cost: \$260,000 | **Outside Funding:** \$-0- | **City Cost:** \$260,000

Description: Purchase of a sweeper.

Justification: This sweeper vehicle is considered severe duty. This sweeper will replace an outdated 2009 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 all 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. In general, the City intends to adhere to the general schedule in order to minimize long-term maintenance costs.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$260,000	-	-	-	\$260,000	-

VIBRATORY ROLLER

Fund: Transportation

Department: Streets

Location: Street Division

Project Cost: \$42,000 | **Outside Funding:** \$-0- | **City Cost:** \$42,000

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	2016	2017	2018	2019	2020
\$42,000	-	-	-	\$42,000	-

TRACTOR WITH ROW MOWING ARM

Fund: Transportation

Department: Streets

Project Cost: \$275,000 | **Outside Funding:** \$-0- | **City Cost:** \$275,000

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	2016	2017	2018	2019	2020
\$275,000	-	-	-	\$135,000	\$140,000

PARKS & RECREATION

PROJECT							
Department	Description	2016	2017	2018	2019	2020	Five Year Total
Maintenance	ADA Door Improvements	35,000	-	-	-	-	35,000
Maintenance	Maintenance Shed and Office	288,470	-	-	-	-	288,470
Maintenance	Irrigation	33,120	-	-	-	-	33,120
Recreation	Universally Accessible Playground	88,000	812,000	-	-	-	900,000
Splash Station	Shade Structure	34,440	-	43,050	-	-	77,490
Recreation	Surface on Elevated Track	-	33,000	-	-	-	33,000
Maintenance	ADA Sidewalk Replacement	-	25,000	-	25,000	-	50,000
Recreation	Lights - Field #2	-	-	-	111,263	-	111,263
Maintenance	Asphalt Parking Lot Around Structures	-	-	-	123,625	-	123,625
Maintenance	RTU for Locker Rooms	-	-	-	-	75,900	75,900
Maintenance	Baseball Field Improvements	-	-	-	-	43,750	43,750
Maintenance	ADA Vestibule	-	-	-	-	101,675	101,675
Maintenance	Hike and Bike Trail Improvements and Land Acquisition	200,000	200,000	200,000	100,000	100,000	800,000
Maintenance	Public Park Facility Improvements	52,000	64,300	52,000	52,000	52,000	272,300
TOTAL		731,030	1,134,300	295,050	411,888	373,325	2,945,593

PARKS & RECREATION

EQUIPMENT							
Department	Description	2016	2017	2018	2019	2020	Five Year Total
Recreation	26' Concession Trailer	32,000	-	-	-	-	32,000
Maintenance	Slope Mower	25,000	-	-	-	-	25,000
Maintenance	1/2-Ton 4x4 Extended Cab Pickup Truck	29,000	-	-	-	-	29,000
Maintenance	3/4-Ton 4x4 Truck w/Utility Bed and Power Inverter	37,650	-	-	-	-	37,650
Admin	Police Ranger SUV 4x4 w/Police Package	38,450	-	-	-	-	38,450
	New Personnel Trucks	95,000	-	-	-	-	95,000
Maintenance	1/2-Ton 4x4 Crew Cab Pickup Truck	-	33,000	-	-	-	33,000
Maintenance	Enclosed 20' Cargo Trailer	-	11,650	-	-	-	11,650
Maintenance	Z-Trac Midmount Mower	-	18,500	-	-	-	18,500
Maintenance	Turbine Blower	-	13,000	-	-	-	13,000
Admin	Compact SUV	-	-	27,000	-	-	27,000
Maintenance	John Boat w/Motor and Trailer	-	-	15,150	-	-	15,150
Maintenance	Quik Trak 61" Chariot Mower	-	-	-	13,000	-	13,000
Maintenance	1-Ton Truck w/Snow Plow Package	-	-	-	49,150	-	49,150
Maintenance	3/4-Ton 4x4 Truck w/Landscape Bed and Hoist	-	-	-	38,000	-	38,000
Recreation	8-Passenger Van	-	-	-	-	33,150	33,150
Maintenance	6x4 Turf Gator	-	-	-	-	13,000	13,000
Maintenance	Compact Utility Tractor	-	-	-	-	15,000	15,000
Maintenance	Boom Truck (used)	-	-	-	-	75,650	75,650
Maintenance	Skid Loader	-	-	-	-	65,000	65,000
Maintenance	1-Ton 4x4 Pickup Truck	-	-	-	-	30,000	30,000
Maintenance	1-Ton 4x4 Crew Cab Pickup Truck	-	-	-	-	43,000	43,000
Recreation	Holiday Lights Display	12,250	18,375	11,638	12,250	13,500	68,013
TOTAL		269,350	94,525	53,788	112,400	288,300	818,363

PARKS & RECREATION

TOTAL PROJECTS AND EQUIPMENT						
	2016	2017	2018	2019	2020	Five Year Total
TOTAL	1,000,380	1,228,825	348,838	524,288	661,625	3,763,956

FUNDING SOURCE						
	2016	2017	2018	2019	2020	Five Year Total
Capital Fund	304,350	119,525	53,788	137,400	389,975	1,005,038
Park Fund	407,560	659,300	295,050	386,888	271,650	2,040,448
2011 Bond Issue	288,470	-	-	-	-	288,470
Fundraiser	-	450,000	-	-	-	450,000
TOTAL	1,000,380	1,228,825	348,838	524,288	66,1625	3,763,956

ADA DOOR IMPROVEMENTS

Fund: Parks & Recreation

Department: Progress Pool

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

Description: Funds will be used to replace and install new door hardware and address deficiencies on a number of interior and exterior doors at the Progress Park Recreation Center and Banquet Hall to be in compliance with federal ADA standards.

Justification: Currently, the door hardware on most of the Recreation Center's doors is not in compliance with federal ADA standards. This project will include replacing the door hardware on all of the existing interior doors. A number of the doors in high traffic areas are structurally failing and the door slabs need to be replaced as appropriate.

Anticipated Benefit: The City will be demonstrating a commitment to bring its facilities in compliance with federal ADA standards that were passed into law in 1992. It will also be addressing old doors systems that have been in place for nearly 30 years and are in dire need of replacement.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$35,000	\$35,000	-	-	-	-

MAINTENANCE SHED AND OFFICE

Fund: Parks & Recreation

Department: Maintenance

Location: Peruque Valley Park

Project Cost: \$288,470 | **Outside Funding:** \$-0- | **City Cost:** \$288,470
Parks 2011 Bond Issue - \$288,470

Description: Funds used to design and construct a secure maintenance shed, yard, and staff facilities at Peruque Valley Park.

Justification: Currently the Parks staff is based out of the Progress Park facility. That space is severely lacking in space and security features for the number of staff and equipment that currently exists in the department. Currently, equipment and bulk material is stored in the parking lot which subtracts from the number of spaces available to the public and creates a situation where equipment and material have been stolen. In the winter of 2013/2014 a snow plow was stolen and it has been reported that bulk material such as mulch and rock have been pilfered from that area.

It is being proposed to build an 80' x 140' x 20' steel frame insulated building with drive thru bays. The expectation is to finish at least two sides of the building with a block or a veneer to provide a professional look in keeping with the rest of the park. The dual purpose concept would include providing some staff space in one part of the building to accommodate up to 40 seasonal and permanent staff. The staff space would include a few offices, break room, training space, restrooms, storm safe rooms, locker space and secured storage space for tools and materials. Additionally, it is proposed to build a simple 40' x 80' lean-to, to store bulk materials and equipment, which needs to be kept out of the elements. This would eliminate waste, loss and damage caused by prolonged exposure to the elements.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$288,470	\$288,470	-	-	-	-

IRRIGATION AT PROGRESS PARK

Fund: Parks & Recreation

Department: Maintenance

Location: Progress Park Football and Baseball Fields

Project Cost: \$33,120 | **Outside Funding:** \$-0- | **City Cost:** \$33,120

Description: Funds will be used to install an irrigation system with automated controller on the football and baseball fields and surrounds at Progress Park.

Justification: Based on feedback from user groups, this project will include installing an automated irrigation system to more efficiently provide quality playing surfaces on the football and baseball fields at Progress Park. Historically, the maintenance effort has been adversely impacted by the lack of manpower, over programming and general deficiencies in the equipment to care for the athletic fields. As an example, intense daytime programming (day camps and evening ball program/practices) at Progress Park prohibited watering between the hours of 5 a.m. and 10:30 p.m. This required staff to return late in the evening to drag water cannons resulting in overtime and when the overtime was cut so was the care. This system will also allow us to make chemical applications and ensure a more timely and efficient delivery of those nutrients, while also maintaining the turf in accordance with industry standards and, thereby, improving the overall user experience when playing at the City's facilities. The work will also include adding a small amount of irrigation to the landscaping beds and grass around the buildings at this facility.

Anticipated Benefit: There is an increasing amount of litigation involving sports injuries related to poor quality maintenance practices of the playing surfaces. It is the desire of the staff to ensure that safe and adequately maintained facilities are provided to the public in an effort to avoid these types of issues.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$33,120	\$33,120	-	-	-	-

UNIVERSALLY ACCESSIBLE PLAYGROUND

Fund: Parks & Recreation

Department: Recreation

Location: Heartland Park

Project Cost: \$900,000 | **Outside Funding:** \$400,000 | **City Cost:** \$500,00

Design - \$88,000

Construction - \$812,000

Fundraiser - \$450,000

Description: Funds used to design, purchase and install a new fully accessible playground at Heartland Park.

Justification: Heartland Park was established in 2014 and was originally designed to have two smaller age-appropriate playgrounds on either side of the restroom/concession/storage building south of the main parking lot. The City was approached by a group of residents interested pursuing a partnership with the City to install a totally accessible playground in the park. A universally accessible playground exceeds the minimum requirements needed to meet ADA standards and, in fact, allows able bodied children and any physically challenged individual (adult or youth) to be able to get to any and all features of the playground. The group of residents interested in partnering with the City is committed to participating in the funding of that project, perhaps, up to 50% of the project cost.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$900,000	\$88,000	\$812,000	-	-	-
Outside Funding	-	\$450,000			

SHADE STRUCTURE

Fund: Parks & Recreation
Department: Splash Station
Location: Splash Station

Project Cost: \$77,490 | **Outside Funding:** \$-0- | **City Cost:** \$77,490

Description: Funds utilized to design, purchase, install or construct an additional shade structure at Splash Station.

Justification: Some shade structures were removed from the scope of the original project and this is one of the top two comments that we receive from users of the facility. Staff is suggesting a two-phase approach to adding additional shade structures to the facility. This is Phase I and will include incorporating a shade structure along the south side (nearest the school) of the leisure pool which has the zero-entry beach and lap lanes. This area was prioritized as the top priority because this is an area where mothers tend to gather to watch the small children utilizing this pool. Phase II will incorporate some additional shade structures along the east side of the facilities by the slide.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$77,490	\$34,440	-	\$43,050	-	-

SURFACE ON ELEVATED TRACK

Fund: Parks & Recreation

Department: Recreation

Location: Progress Park Recreation Center

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

Description: Funds used to replace the existing floor surfacing on the elevated track at the Progress Park Recreation Center.

Justification: The mondo type floor surfacing is reaching the point where it is need of being completely replaced. This material was installed when the building was erected in 1987. The department has made previous requests to consider this replacement and it is believed that the product had a lifecycle of 15-18 years and, in 2015, we are at 28 years. The material has begun, delaminating or spalding, which is why there are areas of discoloration (3,675SF - \$10 SF install/Materials + \$4 SF demo).

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$33,000	-	\$33,000	-	-	-

ADA SIDEWALK REPLACEMENT/IMPROVEMENTS

Fund: Parks & Recreation
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	2016	2017	2018	2019	2020
\$50,000	-	\$25,000	-	\$25,000	-

LIGHTS – FIELD #2

Fund: Parks & Recreation

Department: Recreation

Location: Heartland Park

Project Cost: \$111,263 | **Outside Funding:** \$-0- | **City Cost:** \$111,263

Description: Funds used to design, purchase and install new lights on Field #2 at Heartland Park.

Justification: Current controller in the restroom facility is designed to add additional lighting when capable of funding the project. The number of lights and the control will be very similar to what is currently on Field #1. Adding these lights allow us to expand the programmable time on the fields and therefore generating additional revenue at that facility.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$111,263	-	-	-	\$111,263	-

ASPHALT PARKING LOT AROUND STRUCTURES

Fund: Parks & Recreation

Department: Maintenance

Location: Rotary Park

Project Cost: \$123,625 | **Outside Funding:** \$-0- | **City Cost:** \$123,625

Description: Funds used to design, purchase and install additional dust-free parking in the areas around the Kolb Exhibition Center at Rotary Park.

Justification: Rotary Park was established in 1981 and many of the structures were added in the years since. The Kolb Exhibition Center was dedicated June 14, 1992, and there is very little dust-free parking around the building. As such, the water runs the path of least resistance causing erosion in the bleacher area along the edges of the roadways, in/across the roadways. Staff is proposing to install hard-surface parking with curb/gutter and eliminate the erosion issues and provide better parking for users of the facility during non-fair times. It is hopeful that this might be a collaborative project with the St. Charles County Fair Board

The Kolb Exhibition Center is used several days per year for large groups, but could be used a lot more if the issue related to parking and lack of restrooms were addressed. Staff estimates that, conservatively, we could double the number of rentals in that facility. In addition to creating a more aesthetically pleasing appearance around the buildings, it also provides an opportunity for increased revenue by making the area more visually appealing.

The proposed project calls for approximately 455LF of curb/guttering and 23,300SF of asphalt. C&G was figured at \$15/LF and asphalt at \$4/SF installed.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$123,625	-	-	-	\$123,625	-

ROOF TOP UNIT FOR LOCKER ROOMS

Fund: Parks & Recreation

Department: Progress Pool

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. The RTU funding will also include funding to screen the new units to be in compliance with building codes.

Justification: The Recreation Center currently uses only outside air and a series of fans to cool the air. 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 high. 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	2016	2017	2018	2019	2020
\$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	2016	2017	2018	2019	2020
\$43,750	-	-	-	-	\$43,750

ADA VESTIBULE

Fund: Parks & Recreation

Department: Maintenance

Location: Progress Park Hall Banquet Center

Project Cost: \$101,675 | **Outside Funding:** \$-0- | **City Cost:** \$101,675
Capital Fund - \$101,675

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	2016	2017	2018	2019	2020
\$101,675	-	-	-	-	\$101,675

HIKE AND BIKE TRAIL IMPROVEMENTS AND LAND ACQUISITION

Fund: Parks & Recreation

Department: Maintenance

Location: Citywide

Project Cost: \$1,000,000 | **Outside Funding:** \$-0- | **City Cost:** \$1,000,000
Park Fund Reserves - \$1,000,000

Description: This funding would primarily be used to enhance the parks system by acquiring property when such opportunities present themselves. It would also be used to design, plan, phase and implement improvements to the City's Hike and Bike Trail System in accordance with the City's Trails 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 and install trail connection from Stone Meadows to Peruque Creek
3. Design and install bridge crossing at Peruque Creek to Quail Ridge Park (potential partnership with St. Charles Co Parks)
4. Design and install trail connection from West Meyer to old trail system in Bear Creek Subdivision
5. Design and install trail connection from West Meyer to Great Oaks Subdivision
6. Fund Land Acquisition for Parks and Trailheads
7. Maintenance/Sealcoat on existing trails
8. Incorporate uniform trail signage along the sections of existing trails

Justification: The City's Comprehensive Plan and the Trails Master Plan call for creating alternate forms of transportation which is a vital part of any community planning effort these days. The City currently has several miles of trail and they are not well distributed around the City. Feedback received from residents during the last Park Master Planning Process indicated that 56 percent of the respondents were "Very Supportive" of "Building Multipurpose Trails." Another 28 percent were "Somewhat Supportive" or a total of 84 percent supported the idea of building multipurpose trails. Only 9 percent were "Not Supportive" and 7percent were "Undecided on the Issue."

FUNDING SCHEDULE						
Total	PRIOR	2016	2017	2018	2019	2020
\$1,000,000	\$200,000	\$200,000	\$200,000	\$200,000	\$100,000	\$100,000

HIKE AND BIKE TRAIL IMPROVEMENTS

Splash Station
Pedestrian Connection
& Optional Loop Trail



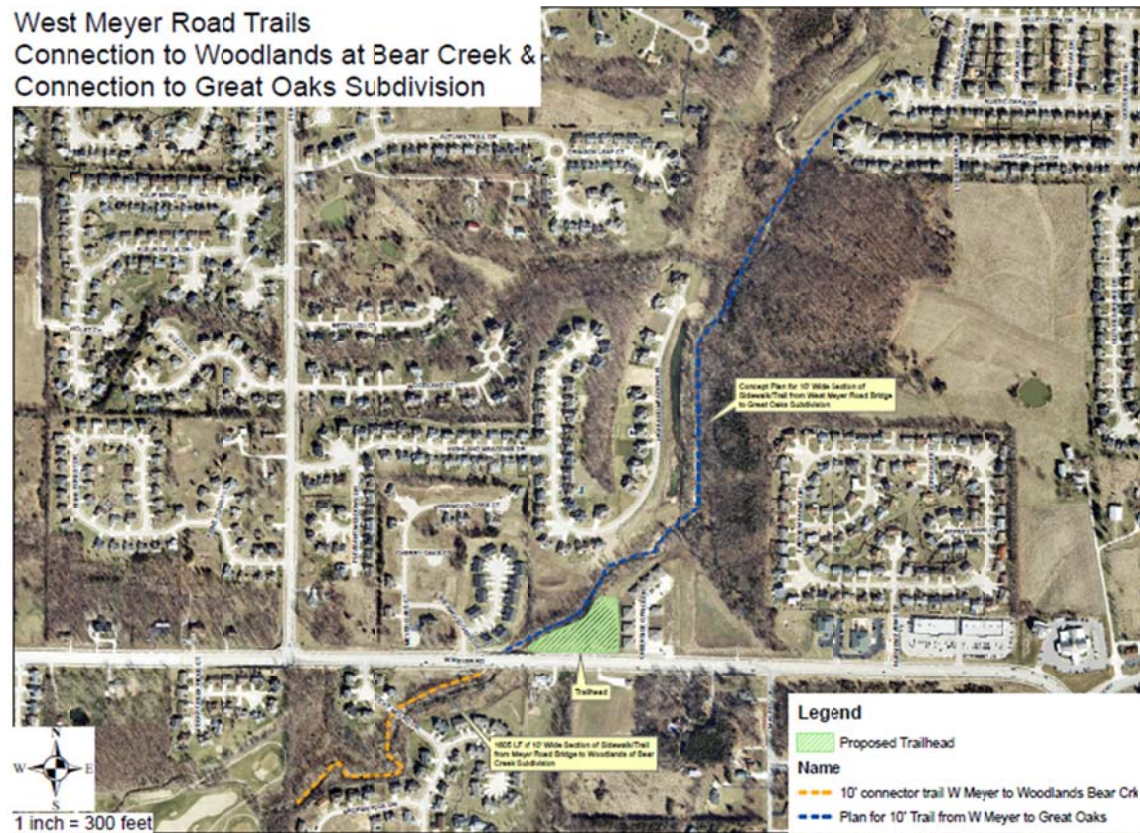
Stone Meadows to
Quail Ridge Connection



HIKE AND BIKE TRAIL IMPROVEMENTS

West Meyer Road Trails

Connection to Woodlands at Bear Creek &
Connection to Great Oaks Subdivision



PUBLIC PARK FACILITY IMPROVEMENT

Fund: Parks & Recreation

Department: Maintenance

Location: Citywide

Project Cost: \$272,300 | **Outside Funding:** \$-0- | **City Cost:** \$272,300

Description: Funds used to:

1. Repair or replace unscheduled mechanical failures (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 cost.

2016 Projects: Upgrade HVAC at Banquet Center; Replace fitness equipment; remodel classroom; replace front door entrance at Rec Center. **2017 Projects:** Replace fitness equipment; Remodel office space to install fitness areas; Replace interior doors at Rec Center to meet ADA standards. **2018 Projects:** Replace fitness equipment.

Justification: 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". Feedback received from residents during the last Park Master Planning Process indicated that 60 percent (highest number for this category) of the respondents were "Very Supportive" and another 30 percent were "Somewhat Supportive" of Maintaining/Repairing our existing Parks, Shelters, Facilities, etc. Only 3 percent were "Not Supportive" and 8 percent "Don't Know." When asked what "Actions the Respondents would be most willing to support with their tax dollars," 34 percent 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	2016	2017	2018	2019	2020
\$272,300	\$52,000	\$64,300	\$52,000	\$52,000	\$52,000

26' CONCESSION TRAILER

Fund: Parks & Recreation

Department: Recreation

Project Cost: \$32,000 | **Outside Funding:** \$-0- | **City Cost:** \$32,000

Description: Funds will be used to purchase a new or used 8.4' X 26' Concession Trailer for use in Heartland Park.

Justification: Staff is proposing to purchase a mobile kitchen trailer to include: 60-inch, 2-Door Cooler; Upright Commercial Freezer; 35lb-Deep Fryer; Refrigerator/Freezer Countertop Cooler; 36" Vulcan Range w/2 Burners; 24" Griddle & Oven; 60" Exhaust Vent/Hood; 2 Food Warmers/Steamers; Stainless Steel Commercial Tables; 2 serving windows w/lights; Ceiling mounted air conditioners; Fresh (30 Gal) & Grey (60 Gal) Water Tanks; Hand Washing Sink; Hot Water Heater W/6gal Capacity; Propane Tanks; 3 Compartment Sink; Deep Freezer; Fluorescent Interior Lighting; 50amp Service Breaker Box; GFI Outlets. It is anticipated that this expense can be recouped in less than five years of concession sales in the park.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$32,000	\$32,000	-	-	-	-

SLOPE MOWER

Fund: Parks & Recreation

Department: Maintenance

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

Description: Funds will be used to replace 2009 mower under a scheduled replacement program. The replacement unit is being proposed to be an articulation mower, which is a more specialized mower capable of safely mowing the slopes that exist in the park system.

Justification: 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 25 degrees or more. Currently, Splash Station and Heartland has slopes that are 30 degrees and it takes a specialty mower to mow more than 22 degrees. Staff has been directed to not mow these areas under certain conditions because of safety concerns. When these conditions exist, staff ends up mowing the areas with weed eaters which is very labor intensive.

Anticipated Benefit: Staff is proposing to purchase a Steiner Model 440 Articulating Mower because it is also a more versatile unit than a traditional mower that is used for one purpose. The unit has the ability to utilize multiple attachments ranging from a mowing deck, to core aerators, trenchers, and snow blowers, which will provide more flexibility to how the equipment is used. The City should also benefit from the decreased risk of mowing these areas with equipment that is not designed for it.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$25,000	\$25,000	-	-	-	-

1/2-TON 4X4 EXTENDED CAB PICKUP TRUCK

Fund: Parks & Recreation

Department: Maintenance

Project Cost: \$29,000 | **Outside Funding:** \$-0- | **City Cost:** \$29,000

Description: Funds will be used to purchase a standard 1/2-ton pickup truck with an extended cab for the Park Maintenance Superintendent.

Justification: When new personnel were approved in the 2015 budget process, the requested vehicles were dropped somewhere in the process and has led to the need to share a supervisor's vehicle. This shared vehicle arrangement is the only arrangement like this in the City for personnel at this level and hampers the supervisor's ability to respond quickly to issues and/or emergencies. Staff is proposing to purchase a light duty vehicle with an extended cab to accommodate transporting more than two individuals to and from job sites.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$29,000	\$29,000	-	-	-	-

3/4-TON 4X4 TRUCK WITH UTILITY BED AND POWER INVERTER

Fund: Parks & Recreation

Department: Maintenance

Project Cost: \$37,650 | **Outside Funding:** \$-0- | **City Cost:** \$37,650

Description: Funds used to replace 1999 Chevy 3/4-ton truck.

Justification: This vehicle is used daily by staff for hauling materials/equipment and pulling trailers and equipment to and from job sites. By incorporating utility bed, much of the standard tools and equipment can be kept on the truck which will increase productivity.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$37,650	\$37,650	-	-	-	-

4X4 SUV WITH POLICE PACKAGE

Fund: Parks & Recreation

Department: Administration

Project Cost: \$38,450 | **Outside Funding:** \$-0- | **City Cost:** \$38,450

Description: SUV 4x4 with complete police package, light bars, radios, computer, cage, and equipment storage.

Justification: This unit is used by the Park Ranger Division to patrol parks, respond to incidents in the park and to assist Police Department when available. Currently, the Police Ranger on duty gets whatever vehicle is left over and since it is a shared unit needs to load and unload their equipment at the end of each shift.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$38,450	\$38,450	-	-	-	-

1/2-TON 4X4 CREW CAB PICKUP TRUCK

Fund: Parks & Recreation

Department: Maintenance

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

Description: Funds will be used to purchase a Pickup Truck (1/2-ton 4x4 Crew Cab) with specialized box to store pole saws, shovels and tools used by the Horticulturist.

Justification: As the community continues to grow and develop so will the amount of maintenance requests and need to address resident concerns. The horticulture and forestry division will be tasked with keep ahead of these issues. In the past two years our landscaping has doubled in size and with the push to keep beautifying, developing, and renovating older parts of town while maintaining new park facilities. The life cycle of this type of vehicle is expected to be 10 Years or 100,000 miles.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$33,000	-	\$33,000	-	-	-

ENCLOSED 20' CARGO TRAILER

Fund: Parks & Recreation

Department: Maintenance

Project Cost: \$11,650 | **Outside Funding:** \$-0- | **City Cost:** \$11,650

Description: Funds to purchase a 20' bumper towed enclosed cargo trailer with drop down ramp and side door.

Justification: This type of trailer is used extensively for hauling equipment and storing items for short term periods. The parks currently have one that is 20-foot long and it has proven to be invaluable for us. It is used to transport a tractor/ ball drag for ball field set up and other departments borrow it as well. We also use it for special events such as hauling utility vehicles and supplies to remote sites.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$11,650	-	\$11,650	-	-	-

Z-TRAC MIDMOUNT MOWER

Fund: Parks & Recreation

Department: Maintenance

Project Cost: \$18,500 | **Outside Funding:** \$-0- | **City Cost:** \$18,500

Description: Funds use to replace a 2009, 72" mower that has exceeded its expected useful life and is in need of replacement to avoid escalating maintenance costs.

Justification: This zero turn unit has a six-foot wide mid-mount 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 is expected to have a lifecycle of five to seven years or 1,800 hours.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$18,500	-	\$18,500	-	-	-

TURBINE BLOWER

Fund: Parks & Recreation

Department: Maintenance

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

Description: Funds used to purchase a towed turbine blower that has a high output air flow designed to assist in cleaning facilities, parking lots and drying ball fields.

Justification: This unit would be used to assist in cleaning trails and parking lots to reduce the amount of loose material and leaves that create unsafe surfaces. The unit would also assist in ball field preparations at Heartland Park and Peruque Valley Park.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$13,000	-	\$13,000	-	-	-

COMPACT SUV

Fund: Parks & Recreation
Department: Administration

Project Cost: \$27,000 | **Outside Funding:** \$-0- | **City Cost:** \$27,000

Description: This unit is used by the Parks and Recreation Director for daily transportation to various meetings and transporting visiting professionals around to different job sites.

Justification: The Director is often on construction jobsites and is part of the City's emergency response team. An AWD vehicle is necessary for meeting those job responsibilities. The current vehicle has a bigger payload, seats up to five passengers, and gets 14/20 mpg. The new vehicle would have less payload space, seat up to five passengers, and get 22/32 mpg. There is a real need for having another vehicle in the Department for the Recreation Division to use to transport staff and/or equipment to and from remote work locations. Currently, the Director utilizes their personal vehicle almost as much time as they do the City's vehicle because the recreation staff does not have the proper number of vehicles to perform the functions they need to.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$27,000	-	-	\$27,000	-	-

JOHN BOAT WITH MOTOR AND TRAILER

Fund: Parks & Recreation
Department: Maintenance

Project Cost: \$15,150 | **Outside Funding:** \$-0- | **City Cost:** \$15,150

Description: Funds will be used to replace a 12' John Boat with no motor as part of a scheduled replacement program. Staff is proposing to purchase a slightly larger and more functional 18' flat bottom John Boat to include an outboard gas 10 HP motor and dedicated boat trailer.

Justification: This boat is used to perform maintenance functions at Rotary Park and Heartland Park. This includes taking water chemistry samples, removing logs and debris from the overflow structures, algae removal and maintenance/removing the floating fountains (300lbs). During the winter months, it is used to transport large bundles of Christmas trees and anchor materials for submerging fish habitat in the lakes. The current boat is somewhat unsafe because of the limited room place material/supplies and to maneuver within the boat when placing fish habitat. Furthermore, the current boat does not have a load platform. The current boat does not have motor, which limits load size and functionality of the unit when placing lake chemicals.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$15,150	-	-	\$15,150	-	-

QUIK TRAK 61" CHARIOT MOWER

Fund: Parks & Recreation

Department: Maintenance

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

Description: Funds will be used to purchase a replacement John Deere John Deere 661R Quik Trak Chariot 61" Mower for the Park Division.

Justification: This chariot style zero-turn unit has a 61" wide mowing deck which is ideal for park related mowing in small areas 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 eight years or 1,800 hours. Substantial productivity gains can also be expected because of quicker loading and unloading between job sites, shorter interruptions for debris collection while mowing, and reduced operator fatigue.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$13,000	-	-	-	\$13,000	-

1 TON 4X4 TRUCK WITH SNOW-PLOW PACKAGE

Fund: Parks & Recreation

Department: Maintenance

Project Cost: \$49,150 | **Outside Funding:** \$-0- | **City Cost:** \$49,150

Description: 1-ton 4x4 truck with flat bed and snow-plow package.

Justification: This vehicle is used daily by staff for hauling materials/equipment and pulling trailers/equipment to and from jobsites. By incorporating a utility bed, much of the standard tools and equipment can be kept on the truck, which will increase productivity.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$49,150		-	-	\$49,150	-

3/4-TON 4X4 WITH LANDSCAPE BED & HOIST

Fund: Parks & Recreation

Department: Maintenance

Project Cost: \$38,000 | **Outside Funding:** \$-0- | **City Cost:** \$38,000

Description: Funds will be used to purchase a 3/4-ton Pickup truck with landscape bed and hoist for Parks Division.

Justification: The Horticulture and Forestry work unit is responsible for everything from turf maintenance and planting plants, and to caring for trees in City Parks and other areas. This work unit has grown with the addition of the Splash Station Aquatic Center, Heartland Park and Peruque Valley Park. It has also been tasked with caring for the trees/bed on Church Street and the gateway entrance signs. When the Horticulturist was approved for the 2015 budget the vehicle was unexpectedly dropped in the process and we have had to reassign several trucks that were scheduled to be replaced from the public works fleet to make do. The life cycle of vehicle will be 10 years or 100,000 miles.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$38,000	-	-	-	\$38,000	-

8-PASSENGER VAN

Fund: Parks & Recreation

Department: Recreation

Project Cost: \$33,150 | **Outside Funding:** \$-0- | **City Cost:** \$33,150

Description: Funds will be used to replace an eight-passenger van used by the staff of the Recreation Division.

Justification: This vehicle is used in daily Recreation Division for hauling materials, supplies and equipment to and from job sites. During the summer months the vehicle is used to transport groups of children to various sports camps and occasionally to field trips. The anticipated life cycle of the new unit is expected to be 10 years or 100,000 miles. This vehicle will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$33,150	-	-	-	-	\$33,150

6X4 TURF GATOR

Fund: Parks & Recreation

Department: Maintenance

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.

Justification: Because of its light duty construction, the current utility vehicle 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 heavy duty utility vehicle with a payload capable of handling bulk materials. The John Deere 6X4 Turf Gator has one of the bigger payload capacities (1,500 lbs) on the market and has a proven track record for the type of use being proposed. Public Works has expressed interest in this unit for conducting their slab condition survey. The life cycle expected of this type of equipment is 6 years or 2,800 hours.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$13,000	-	-	-	-	\$13,000

COMPACT UTILITY TRACTOR

Fund: Parks & Recreation

Department: Maintenance

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

Description: Funds will be used to purchase a replacement 23 HP tractor with turf tires for Park Facility Maintenance staff.

Justification: 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. The anticipated life cycle of the new unit is expected to be 20 years or 5,000 hours. This unit will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs and parts are increasingly hard to obtain due to the age of the unit.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$15,000	-	-	-	-	\$15,000

BOOM TRUCK

Fund: Parks & Recreation

Department: Maintenance

Project Cost: \$75,650 | **Outside Funding:** \$-0- | **City Cost:** \$75,650

Description: Funds will be used to purchase a used 45' boom truck be used by the Parks crews to trim trees, change field lights, and hang Christmas lights.

Justification: There is no vehicle in the City that can safely lift staff to those heights. The City should consider purchasing a fleet truck from a utility company.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$75,650	-	-	-	-	\$75,650

SKID LOADER

Fund: Parks & Recreation

Department: Maintenance

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

Description: Funds will be used to purchase a replacement Skid Loader for the Horticultures & Forestry Division.

Justification: The Horticulture and Forestry Division uses the unit for various construction/maintenance related functions in nearly 75 percent of the Parks projects and is subject to a great deal of wear and tear because of the nature of the work such as tree planting, sod installations, stump grinding, loading of bulk materials, bed installations, etc. Being the most used piece of equipment in the division, other than trucks/gators, it is recommended that attachments be purchased to expand the versatility for 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 of the increasing maintenance costs. The anticipated life cycle is expected to be around five to seven years or 2,500 hours.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$65,000	-	-	-	-	\$65,000

1-TON 4X4 TRUCKS

Fund: Parks & Recreation

Department: Maintenance

Description: Funds will be used to purchase a replacement 4x4 standard cab/bed pickup truck for the Park Facility Maintenance staff.

Justification: This vehicle is used in daily Park Maintenance operations for hauling materials/equipment and pulling trailers/equipment to and from job sites. The work unit routinely hauls various power and hand tools, ladders, generators, compressors, and other construction related equipment. Often, there are times when the demands of the job site require additional/different equipment and it may require additional trips to the shop.

1-TON 4X4 PICKUP TRUCK					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$30,000	-	-	-	-	\$30,000

1-TON 4X4 CREW CAB PICKUP TRUCK					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$43,000	-	-	-	-	\$43,000

NEW PERSONNEL TRUCKS					
FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$95,000	\$95,000	-	-	-	-

HOLIDAY LIGHTS DISPLAY

Fund: Parks & Recreation

Department: Recreation

Location: Rotary Park

Project Cost: \$68,013 | **Outside Funding:** \$-0- | **City Cost:** 68,013

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	2016	2017	2018	2019	2020
\$68,013	\$12,250	\$18,375	\$11,638	\$12,250	\$13,500

WATER

PROJECT							
Department	Description	2016	2017	2018	2019	2020	Five Year Total
Water	Village Center Water Relocates and Upgrades	280,000	-	-	-	-	280,000
Water	2-Million Gallon Spheroid Tower 1-MGD Well	4,860,000	-	750,000	-	-	5,610,000
Water	Coating Interior of 2-Million Gallon GM Ground Storage	-	-	270,000	-	-	270,000
Water	Demo Tower #4, Vault Removal, and Land Improvement	-	-	-	200,000	-	200,000
Water	Coating Int. and Ext. Tower #1 and Extension of Fill Line	-	-	-	530,000	-	530,000
Water	Rebuild East Booster Pump Above Ground	-	-	-	2,000,000	-	2,000,000
Water	Wash Exterior of Tower #2	-	-	-	40,000	-	40,000
Water	Waterline Extensions and Replacement	345,000	945,000	540,000	460,000	811,000	3,101,000
TOTAL		5,485,000	945,000	1,560,000	3,230,000	811,000	12,031,000

WATER

EQUIPMENT							
Department	Description	2016	2017	2018	2019	2020	Five Year Total
Water	Mini Bobcat Track Hoe	62,000	-	-	-	-	62,000
Water	16 ft. Heavy Duty Equipment Trailer	15,000	-	-	-	-	15,000
Water	4"-12" HDPE Pipe Fusion Machine	58,000	-	-	-	-	58,000
Water	New Personnel Truck	26,350	-	-	-	-	26,350
Water	1/2-Ton 4x4 Pickup Truck	26,350	-	26,350	-	-	52,700
Water	3/4-Ton 4x4 Pickup Truck	33,430	30,430	30,430	60,860	121,720	276,870
Water	Metrotech vLoc/9800 Locator	5,000	-	-	5,200	5,200	15,400
Water	20HP Street Saw	-	7,000	-	-	-	7,000
Water	Mulching Head Skid Loader Attachment	-	-	-	38,000	-	38,000
Water	Orion Meter Reading System	-	-	-	18,000	-	18,000
Water	Skid Loader	-	-	-	90,000	-	90,000
TOTAL		226,130	37,430	56,780	212,060	126,920	659,320

WATER

TOTAL PROJECTS AND EQUIPMENT						
	2016	2017	2018	2019	2020	Five Year Total
TOTAL	5,711,130	982,430	1,616,780	3,442,060	937,920	12,690,320

FUNDING SOURCE						
	2016	2017	2018	2019	2020	Five Year Total
Capital Fund	226,130	37,430	56,780	212,060	126,920	659,320
Water Fund	4,485,000	945,000	1,560,000	3,230,000	811,000	11,031,000
Water Debt Financing	1,000,000	-	-	-	-	1,000,000
TOTAL	5,711,130	982,430	1,616,780	3,442,060	937,920	12,690,320

2-MILLION GALLON SPHEROID TOWER AND 1-MILLION GALLON WELL

Fund: Water

Department: Water

Location: Schroeder Creek Blvd.

Project Cost: \$5,870,000 | **Outside Funding:** \$-0- | **City Cost:** \$5,870,000
Water Debt Financing - \$1,000,000

Description: Land purchase: estimated cost to purchase land is \$1.6 million; design/engineer: estimated cost for design and engineering is \$360,000; Construction of a 2-million gallon water spheroid tower at estimated cost of \$4.5 million.

Justification: Meet the elevated water storage needs and fire protection requirements for existing and future City growth. Elevated water storage should equal 24-hour supply based upon average daily use in gallons. The new water tower will provide the additional storage required to demo tower #4. In addition, the new tower will allow us to take all other towers out of service for maintenance while still being able to provide adequate water pressure. The construction of an emergency operation well will provide the City a backup water source in the event we lose our current source.

Anticipated Benefit: Increases the City's ability to provide adequate water supply for both drinking water and fire protection and to keep up with growth demands.



FUNDING SCHEDULE						
Total	PRIOR	2016	2017	2018	2019	2020
\$5,870,000	\$260,000	\$4,860,000	-	\$750,000	-	-

COATING INTERIOR OF 2-MILLION GAL GM GROUND STORAGE TANK

Fund: Water

Department: Water

Location: East Booster Station (Edinger Road)

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

Description: Take the 2-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	2016	2017	2018	2019	2020
\$270,000	-	-	\$270,000	-	-

DEMO TOWER #4, VAULT REMOVAL, AND LAND

Fund: Water

Department: Water

Location: 802 East Pearce Boulevard

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

Description: Demo of Tower #4 located at 802 East Pearce Blvd. to include control valve vault removal and land improvement upon completion.

Justification: The 300,000 gallon tower is failing primarily due to coating issues. Re-coating this tower would cost more than “demo-ing” it due to it previously being coated with lead paint. In 2017 a new 1-million gallon tower will be constructed as this towers upgrade/replacement.

Anticipated Benefit: Demo of this tower would make way for a new one million gallon water tower in down town and remove a failing undersized tower from service, improving storage capacities and providing a more stable pressure and fire flow capabilities.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$200,000	-	-	-	\$200,000	-

COATING INTERIOR AND EXTERIOR OF TOWER #1 AND EXTEND FILL LINE TO TOP OF TANK

Fund: Water

Department: Water

Location: Medical Drive

Project Cost: \$530,000 | **Outside Funding:** \$-0- | **City Cost:** \$530,000

Description: Take water tower #1 out of service to extend fill line to above the overflow level and then prepare the interior and exterior of the tower for coating.

Justification: The fill line to the tower needs to be extended to the top of the bowl both to allow Chlorine contact time should we ever run an emergency well to the this tower and to keep water fresh without needing large turn over in the tank. Water towers need to be coated inside and out on a regular as needed basis to protect the tower from corrosion and failure.

Anticipated Benefit: Making the investment to coat water towers on a regular as needed basis greatly extends the life of the City's tower infrastructure.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$530,000	-	-	-	\$530,000	-

REBUILD EAST BOOSTER PUMP ABOVE GROUND

Fund: Water

Department: Water

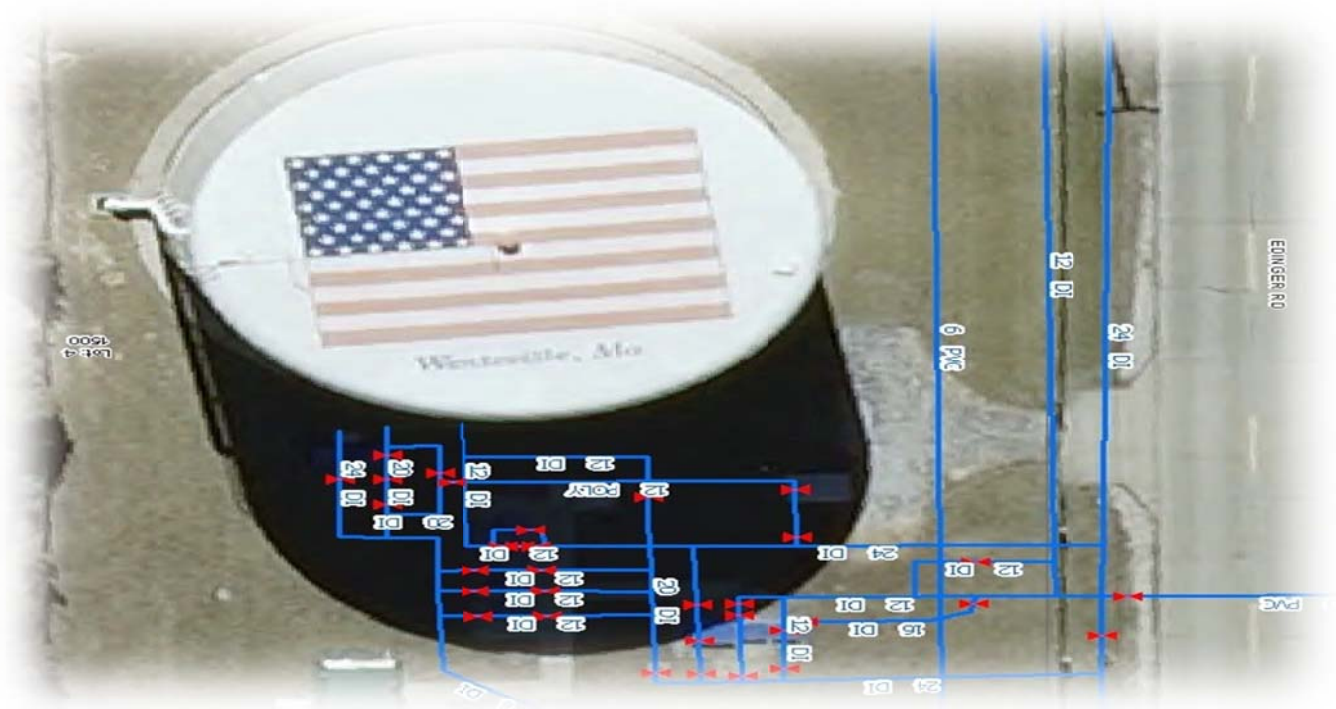
Location: Edinger Road Booster Station

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

Description: Demo the underground booster pump station and piping installed in 1980 at Edinger Road and install a new above-ground booster pump station and piping.

Justification: The integrity of the booster pump station and piping is steadily declining due to the entire infrastructure being installed underground and being susceptible to corrosion and ground water.

Anticipated Benefit: A new above-ground booster pump station would be more reliable and far easier to maintain than the current set up. Maintenance cost and down time would reduce considerably.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$2,000,000	-	-	-	\$2,000,000	-

WASH EXTERIOR OF TOWER #2

Fund: Water

Department: Water

Location: Rotary Park

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

Description: Chemical wash exterior of Tower #2 at Rotary Park to remove mold and inspect condition of outer coating.

Justification: Mold and dirt need to be washed off of water towers on an as-needed basis to allow us to inspect the integrity of the coating and maintain a clean and neat appearance.

Anticipated Benefit: Washing towers as needed provides a better looking longer-lasting coating.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$40,000	-	-	-	\$40,000	-

WATERLINE EXTENSIONS AND REPLACEMENTS

Fund: Water

Department: Water

Location: City Wide

Project Cost: \$3,101,000 | **Outside Funding:** \$-0- | **City Cost:** \$3,101,000

PROJECT DESCRIPTION					
YEAR	LOCATION	SIZE (IN)	LENTH (FT)	IN HOUSE WORK (Y/N)	COST (\$)
2016	Hepperman Rd. Relocations	12	1,450	N	300,000
2016	Upsize cost of Interstate/S. Pointe Prairie	12	1,700	N	45,000
2017	Great Oaks Blvd. to Great Oaks Blvd.	12	2,400	Y	165,000
2017	N. Point Prairie to Langtree	12	4,800	N	780,000
2018	E. Allen from Tower to McRoberts	12	1,000	Y	120,000
2018	Interstate Dr. from U-Gas to Quail Ridge	12	3,500	Y	205,000
2018	Wilmer Dr./Interstate to Wilmer Valley	12	3,300	Y	215,000
2019	Meyer Rd.- Northview to Woodhollow	8	800	Y	70,000
2019	Interstate Dr. from Wilmer to Hepperman	12	6,000	Y	390,000
2020	E. Northview from Carr to Wall	8	750	Y	45,000
2020	E. Academy from Carr To Wall	8	600	Y	40,000
2020	Carr St. from Maple to Park Ln	8	1,300	Y	55,000
2020	Hannah Dr. to Carlton Pointe	8	2,700	Y	71,000
2020	Prairie Bluffs to Albany cost to upsize	16	8,200	N	600,000

Justification: Projects include replacement and upsizing of deteriorated water main sections and completing transmission main system loops to dramatically increase pressure and fire flow capability while reducing maintenance cost and system repair downtime. By utilizing City staff to complete a majority of these projects, waterlines can be installed at half of the cost of hiring a contractor. Factoring in the cost of the additional staff and equipment needed to complete these projects, savings may exceed \$900,000 in the next five years.

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

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$3,101,000	\$345,000	\$945,000	\$540,000	\$460,000	\$811,000

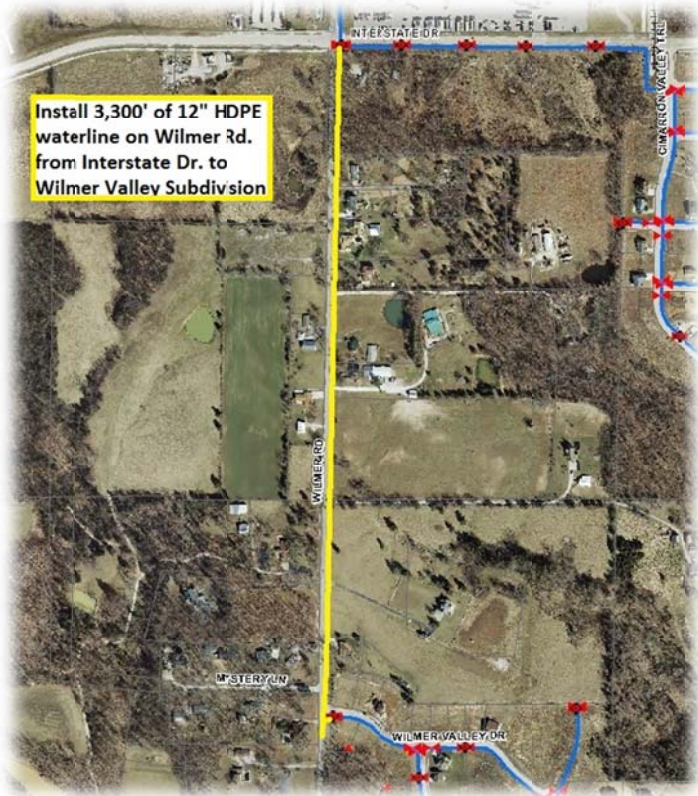
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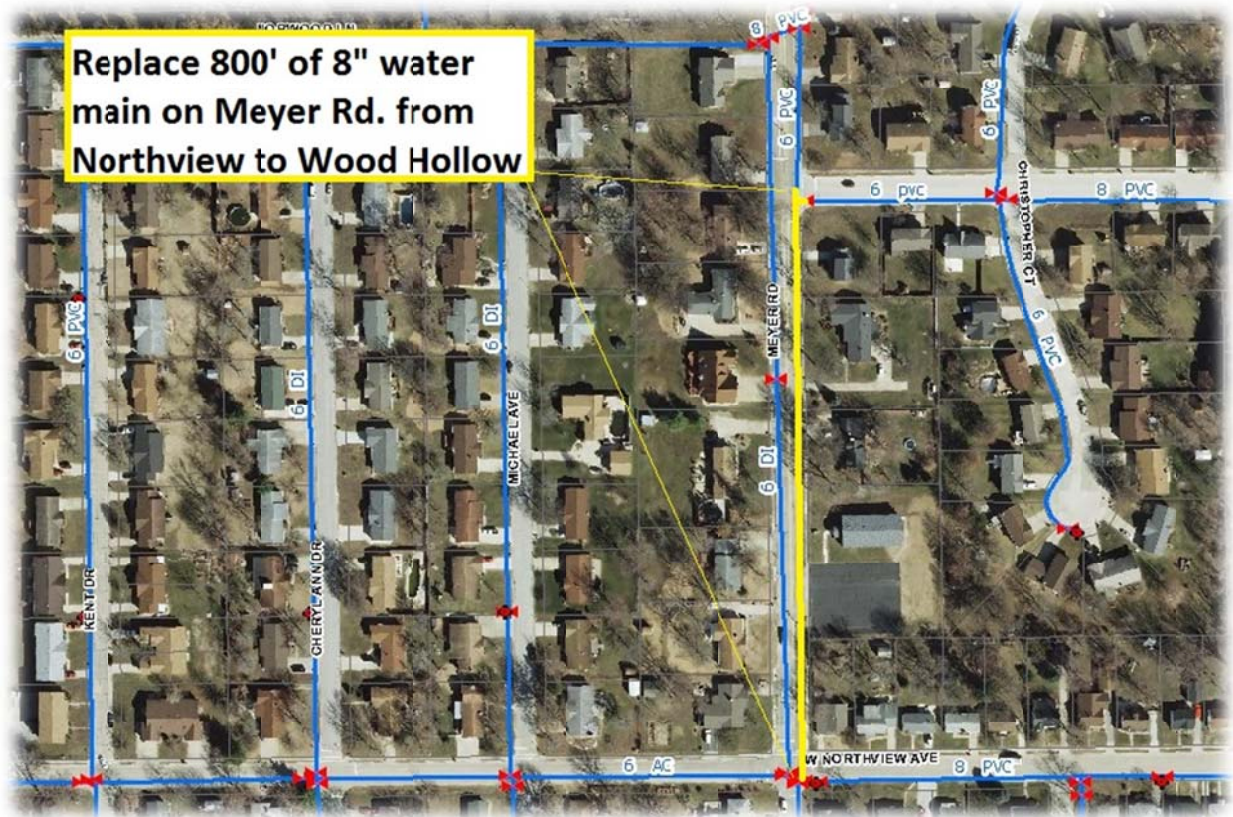
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WATERLINE EXTENSIONS AND REPLACEMENTS



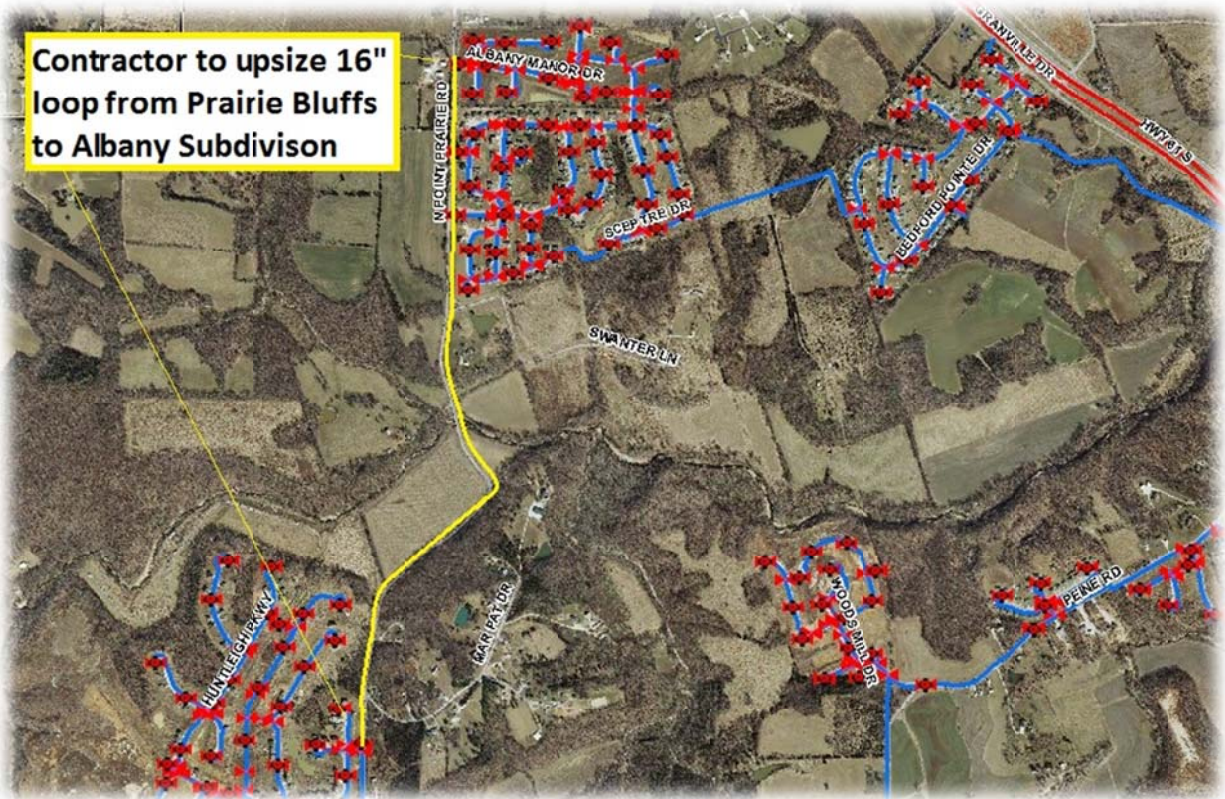
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WATERLINE EXTENSIONS AND REPLACEMENTS



WATERLINE EXTENSIONS AND REPLACEMENTS



MINI-BOBCAT TRACK HOE

Fund: Water

Department: Water

Location: Citywide

Project Cost: \$62,000 | **Outside Funding:** \$-0- | **City Cost:** \$62,000

Description: Replacement of Mini-Bobcat Track hoe due to its age and reliability.

Justification: The mini-bobcat track hoe will replace the existing purchased by the City in 2001. Replacement will improve reliability of the equipment in order to minimize the risk of failures during emergencies. The existing excavator requires weekly maintenance and is undersized for the existing waterline repairs and replacement.

Anticipated Benefit: Allows us to maintain the highest level of service to our residents when having a new reliable piece of equipment on a water repair.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$62,000	\$62,000	-	-	-	-

16-FT. HEAVY-DUTY EQUIPMENT TRAILER

Fund: Water

Department: Water

Location: City Wide

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

Description: Replacement of 16-foot heavy duty equipment trailer.

Justification: This piece of equipment was purchased by the City in 1999. It is important to keep reliable trailers to haul equipment in order to minimize the risk of failures during emergencies. The Water Division needs increased load capacity to legally haul equipment.

Anticipated Benefit: Allows us to maintain the highest level of service to our residents when we have a new reliable trailer to haul equipment on a water repair.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$15,000	\$15,000	-	-	-	-

HDPE PIPE FUSION MACHINE 4"-12"

Fund: Water

Department: Water

Location: Citywide

Project Cost: \$58,000 | **Outside Funding:** \$-0- | **City Cost:** \$58,000

Description: Purchase of HDPE butt fusion machine capable of fusing 4" to 12" pipes (HDPE= high density poly ethylene).

Justification: Purchase a HDPE butt fusion machine will further reduce costs for the anticipated waterline projects completed by in-house staff. A cost analysis comparing the purchase of the machine to renting the machine indicated that the machine will be paid for in savings within the first year or two of service.

Anticipated Benefit: With the ability to install HDPE water mains in-house, we can replace water mains in problem areas and complete system loops up to 12" in diameter. Staff will no longer be dependent on machine availability and additional costs when renting.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$58,000	\$58,000	-	-		-

4X4 PICKUP TRUCK

Fund: Water

Department: Water

Location: Citywide

Project Cost: \$352,920 | **Outside Funding:** \$-0- | **City Cost:** \$352,920

Description: 1/2-ton 4x4 Pickup used for Locator, Meter Reader, Service positions.
3/4-ton 4x4 Pickup Truck used to conduct heavy duty field operations.

- 2016: 1/2-ton 4x4 Pickup Truck (1) and 3/4-ton 4x4 Crew Cab Pickup Truck (1)
- 2017: 3/4-ton 4x4 Pickup Trucks (1)
- 2018: 1/2-ton 4x4 Pickup Truck (1) and 3/4-ton 4x4 Pickup Truck (1)
- 2019: 3/4-ton 4x4 Pickup Trucks (2)
- 2020: 3/4-ton 4x4 Pickup Trucks (4)

Justification: 3/4 ton trucks will be used to conduct field and emergency heavy duty operations and will need to have electric brake controller, HD class V hitch, and emergency LED lights added to the truck for a cost of \$930 each. 1/2-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. 1/2-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					
	2016	2017	2018	2019	2020
1/2 Ton 4x4 Pickup	\$52,700	-	\$26,350	-	
3/4 Ton 4x4 Pickup	\$33,430	\$30,430	\$30,430	\$60,860	\$121,720
TOTAL	\$59,780	\$30,430	\$56,780	\$60,860	\$121,720

METROTECH VLOC/9800 LOCATOR

Fund: Water

Department: Water

Location: Citywide

Project Cost: \$15,400 | **Outside Funding:** \$-0- | **City Cost:** \$15,400

Description: Metrotech v/Loc 9800 locator used for locating water and sewer mains for MO 1 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	2016	2017	2018	2019	2020
\$15,400	\$5,000	-	-	\$5,200	\$5,200

20HP STREET SAW

Fund: Water

Department: Water

Location: Citywide

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

Description: Replacement of 20HP Street Saw purchased in 2006 due to its age and reliability.

Justification: Saw is used by the Water Department to cut concrete and asphalt after water main repairs, so that the Street Department can then come in behind us and pave the road.

Anticipated Benefit: A reliable saw allows us to make quick accurate cuts to the street and turn the repair over quickly.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$7,000	-	\$7,000	-	-	-

MULCHING HEAD SKID LOADER ATTACHMENT

Fund: Water

Department: Water

Location: Citywide

Project Cost: \$38,000 | **Outside Funding:** \$-0- | **City Cost:** \$38,000

Description: 60" mulching head attachment for skid loader to be used for clearing off-site utility easements.

Justification: There are many miles of water and wastewater mains that travel through densely wooded areas. With the purchase of this attachment, it would allow us to reclaim our easements and return them to a state where they can be brush hogged annually. This attachment can push through and mulch up to 12" diameter trees allowing us to clear our easements leaving only finely chopped mulch behind us.

Anticipated Benefit: Current method for this type of work requires men on the ground with chainsaws and heavy equipment hauling trees out of the woods to dump trucks, and then making a final pass with a brush hog attachment. It is far safer and more efficient for one man in a machine to complete this entire operation in a single pass with one attachment and not have to haul any debris off-site. All off-site utility easements must be maintained properly through good vegetation control to allow access of vehicles and repair equipment in the event of an emergency.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$38,000	-	-	-	\$38,000	-

ORION METER READING SYSTEM

Fund: Water

Department: Water

Location: Citywide

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

Description: Orion meter reading system is used for reading meters monthly for water /sewer utilities.

Justification: Orion meter reading system is on a five-year replacement program.

Anticipated Benefit: Cycling the reading system out will assure the computer and software stays current and up to date on technology.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$18,000	-	-	-	\$18,000	-

SKID LOADER

Fund: Water

Department: Water

Location: Citywide

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

Description: Replacement of worn CT332 Skid Loader.

Justification: This piece of equipment was purchased by the City in 2009. This machine has had power issues for the type of work we use it for. It is recommended that it be upsized when replaced. It is important to keep reliable equipment in order to minimize the risk of failures during emergencies.

Anticipated Benefit: Allows us to maintain the highest level of service to our residents when having a new, reliable piece of equipment on a water repair.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$90,000	-	-	-	\$90,000	-

WASTEWATER

PROJECT							
Department	Description	2016	2017	2018	2019	2020	Five Year Total
Wastewater	Brian Court Utility Stabilization Phase II	155,000	-	-	-	-	155,000
Wastewater	WW Master Plan Phase II, Bio-Solids Removal, Generator	340,000	-	-	-	-	340,000
Wastewater	Collections Building Roof	22,000	-	-	-	-	22,000
Wastewater	Heppermann Road Force Main Relocation & Retention	300,000	-	-	-	-	300,000
Wastewater	GM Lift Force Main	300,000	-	-	-	-	300,000
Wastewater	Stone Meadows Retention Chamber	585,000	-	-	-	-	585,000
Wastewater	Bio-Solids Storage Building Walls	-	30,000	-	-	-	30,000
Wastewater	Norfolk & Southern Lift Station	-	520,000	-	-	-	520,000
Wastewater	Highway P Lift Station Sluice Gate	-	-	73,000	-	-	73,000
Wastewater	East Lift Station Replacement and Re-route Forcemain	-	-	848,000	-	-	848,000
Wastewater	MSP Lift Station Control Panel	-	-	46,000	-	-	46,000
Wastewater	MSP Lift Station Valve (3)	-	-	40,000	-	-	40,000
Wastewater	Bubbling Springs II Utility/Storm/Creek Bank Stabilization	-	-	-	150,000	-	150,000
Wastewater	WW Collections Building Parking Area	-	-	-	10,000	-	10,000
Wastewater	Equipment Storage Building	-	-	-	55,000	-	55,000
Wastewater	St. Lukes Lift Station	-	-	-	490,000	-	490,000
Wastewater	Parr Road Lift Station	-	-	-	100,000	-	100,000
Wastewater	Boonetrail Lift Station	-	-	-	490,000	-	490,000
Wastewater	Reclamation Center Parking Lot and Wall Repair	-	-	-	-	45,000	45,000
Wastewater	South Lift Spare Pump	-	-	-	-	97,000	97,000
Wastewater	Reclamation Center Expansion	-	-	-	-	650,000	650,000
Wastewater	Lift Station Spare Pumps & Replacement	100,000	112,000	108,000	112,000	148,000	580,000
TOTAL		1,802,000	662,000	1,115,000	1,407,000	940,000	5,926,000

WASTEWATER

EQUIPMENT							
Department	Description	2016	2017	2018	2019	2020	Five Year Total
Wastewater	Wheel Loader/Rubber Tire	84,000	-	-	-	-	84,000
Wastewater	5-Ton HVAC Unit	10,074	-	-	-	-	10,074
Wastewater	Sewer Jet Truck	335,000	-	-	-	-	335,000
Wastewater	Portable Generator Transfer Switch	55,000	-	-	-	-	55,000
Wastewater	Lift Flow Meters	9,000	9,000	-	-	-	18,000
Wastewater	Bio-solids Land Application Floater Truck	-	338,000	-	-	-	338,000
Wastewater	3/4-Ton 4x4 Pickup Truck	-	31,000	32,000	-	34,000	97,000
Wastewater	Trailer	-	-	14,000	-	-	14,000
Wastewater	Crane Truck	-	-	-	-	86,000	86,000
Wastewater	Skid Loader	-	-	-	-	60,000	60,000
TOTAL		493,074	378,000	46,000	-	180,000	1,097,074

TOTAL PROJECTS AND EQUIPMENT						
	2016	2017	2018	2019	2020	Five Year Total
TOTAL	2,295,074	1,040,000	1,161,000	1,407,000	1,120,000	7,023,074

FUNDING SOURCE						
	2016	2017	2018	2019	2020	Five Year Total
Capital Fund	493,074	378,000	46,000	-	180,000	1,097,074
Wastewater Fund	1,802,000	662,000	1,115,000	1,407,000	940,000	5,926,000
TOTAL	2,295,074	1,040,000	1,161,000	1,407,000	1,120,000	7,023,074

WW MASTER PLAN PHASE II, BIO-SOLIDS REMOVAL, GENERATOR STUDY

Fund: General and Wastewater

Department: Public Works – Wastewater

Location: 2455 Mette Road

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

Description: This is the continuation from Phase I of the wastewater master plan in 2015. Services within the scope of the master plan are proposed for the 2016 budget to provide a more comprehensive plan including (1) evaluation of bio-solids treatment options at the Water Reclamation Center (WRC), (2) evaluation of emergency power generation at the WRC, and (3) evaluation of the General Motors five mile force main condition and critical lift stations.

Justification: The wastewater master plan was determined necessary to properly evaluate the City's current wastewater collections system. The supplemental tasks included within the master plan will provide the City with the basis for a comprehensive rate study based on the recommended 10-year capital plan and forecast maintenance costs of the treatment and collections system.

Additionally, the study will evaluate the 30-year old General Motors force main along with critical lift stations. In consideration of the exposure to chemical loading, air pockets, and the age of the force main it is recommended that General Motors force main condition is evaluated to determine repair or replacement costs as part of the 10-year capital plan.

Anticipated Benefit: The intent of these services is to determine the City's needs and priorities in regards to the maintenance and expansion of the City's wastewater collection system.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$340,000	\$340,000	-	-	-	-

COLLECTIONS BUILDING ROOF

Fund: Wastewater

Department: Wastewater

Location: Wastewater – Water Reclamation Center

Project Cost: \$22,000 | **Outside Funding:** \$-0- | **City Cost:** \$22,000

Description: Full V/pitch roof replacement with construction grade shingles. The previous overlay was completed in 1994.

Justification: Roof is continually being patched for leaks. The last leak nearly ruined the computer system.

Anticipated Benefit: The pitch roof will be energy efficient, and better for rain run off than the existing flat roof.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$22,000	\$22,000	-	-	-	-

HEPPERMAN ROAD FORCE MAIN RELOCATION & RETENTION CHAMBER ADDITION

Fund: Wastewater

Department: Wastewater

Location: Heppermann Road

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

Description: Heppermann Road 12"force main relocation and retention chamber addition project

Justification: St. Charles County - Heppermann Road & Bridge Realignment.

Anticipated Benefit: Force main relocation and retention chamber addition



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$300,000	\$300,000	-	-	-	-

GM LIFT FORCE MAIN REPAIR

Fund: Wastewater

Department: Wastewater

Location: GM Lift Station

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

Description: GM Lift Force main repair per Wastewater Master Plan study/evaluation

Justification: 35-year-old force main to be evaluated and inspected in 2016 as part of the wastewater master plan and repaired/upgraded accordingly. Pricing is a best current estimate based on repair options for the five-mile-long force main. Current pricing may vary depending on GM force main study results in 2016.

Anticipated Benefit: Extended reliability and service life in combination with current Lift Station upgrades to provide reliable Wastewater service the GM Assembly Center.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$300,000	\$300,000	-	-	-	-

STONE MEADOWS RETENTION CHAMBER

Fund: Wastewater

Department: Wastewater

Location: Stone Meadows Lift – 6057 Blake Thomas Dr

Project Cost: \$585,000 | **Outside Funding:** \$-0- | **City Cost:** \$585,000

Description: Design wastewater retention chamber structure for the Stone Meadows Lift Station and related equipment for improved efficiency, reliability, redundancy, and to address increased demands of average daily flow of approximately 900,000 gallons per day at this Lift Station.

Justification: This station was constructed in 2000 with two pumps put in service and a small wet well. Design and installation of the retention chambers has been postponed until flows at the Station have required that they be installed to provide reliability and redundancy at this site.

Anticipated Benefit: Improved reliability, redundancy and pumping capacity on the City's second largest pump station and main collector station for five other lift stations and related flows from Stone Meadows and several nearby subdivisions.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$585,000	\$585,000	-	-	-	-

BIO-SOLIDS STORAGE BUILDING WALLS

Fund: Wastewater

Department: Wastewater

Location: Wastewater – Water Reclamation Center

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

Description: Raise the three concrete walls on the bio-solids storage building by four feet.

Justification: With the changes in the plants discharge permit on liquid applying bio-solids on frozen ground, there will be a need to operate the filter press more in the winter. Raising the walls will gain storage capacity.

Anticipated Benefit: Gain the needed storage capacity to comply with EPA and DNR guidelines.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$30,000	-	\$30,000	-	-	-

NORFOLK & SOUTHERN LIFT STATION

Fund: Wastewater

Department: Wastewater

Location: 101 Edinger Rd.

Project Cost: \$520,000 | **Outside Funding:** \$-0- | **City Cost:** \$520,000

Description: Replace Smith & Loveless Lift Station (35 years old). Lift station frame (can unit) has deteriorated to the point replacement is required. Station was constructed in 1981.

Justification: This is the replacement of a deteriorated 1981 Smith & Loveless lift station. The lift station will be replaced with the City design standard submersible pump lift station.

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



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$520,000	-	\$520,000	-	-	-

HIGHWAY P LIFT STATION SLUICE GATE

Fund: Wastewater

Department: Wastewater

Location: Highway P Lift Station

Project Cost: \$73,000 | **Outside Funding:** \$-0- | **City Cost:** \$73,000

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	2016	2017	2018	2019	2020
\$73,000	-	-	\$73,000	-	-

EAST LIFT STATION REPLACEMENT AND REROUTE FORCE MAIN

Fund: Wastewater

Department: Wastewater

Location: 1520 E. Pitman Avenue

Project Cost: \$848,000 | **Outside Funding:** \$-0- | **City Cost:** \$848,000

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 and reroute that station's force main to discharge into the GM 16" force main on route A. 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 8-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. The discharge will be rerouted from an 18" gravity line to the underutilized 16" GM force main. This will alleviate H₂S damage within the gravity line.

Anticipated Benefit: Rerouting the force main would remove capacity from the 18" gravity trunk line and add more flow to the 16" main that has available capacity and help reduce H₂S with higher volume.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$848,000	-	-	\$848,000	-	-

MSP LIFT STATION CONTROL PANEL

Fund: Wastewater
Department: Wastewater
Location: 2355 Mette Rd.

Project Cost: \$46,000 | **Outside Funding:** \$-0- | **City Cost:** \$46,000

Description: MSP lift station is 36 years old (1977) with more flow and repair/operating costs, control panel obsolete replacement is necessary.

Justification: The control panel is obsolete and repairs increasingly require significant modifications to the entire panel to accommodate new components. The control panel also requires increasing work to interface with level controllers and variable frequency drives.

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



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$46,000	-	-	\$46,000	-	-

MSP LIFT STATION VALVE REPLACEMENT (3)

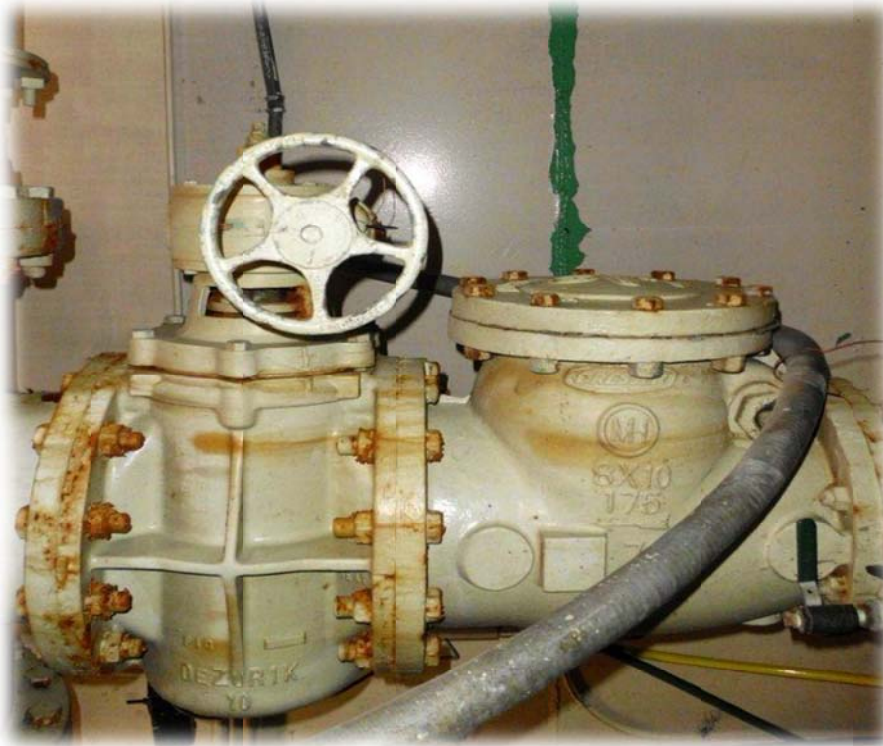
Fund: Wastewater
Department: Wastewater
Location: 2355 Mette Rd.

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

Description: Replace three, 10" check valves and three, 10" X 8" wheel valves in station built in 1977.

Justification: Replacement is necessary due to age (almost 40 years old) and existing check valves cannot be rebuilt, as they are obsolete.

Anticipated Benefit: Increased reliability, operability, and safety at the main Plant Lift Station. Replacing the valves will also increase the life expectancy of current station.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$40,000	-	-	\$40,000	-	-

BUBBLING SPRINGS II UTILITY/STORM/CREEK BANK STABILIZATION

Fund: Wastewater
Department: Wastewater
Location: Spring Meadows

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

Description: Sanitary and storm utilities re-grading, composite revetment and bio-stabilization, boulder grade controls, sanitary sewer concrete cap, and property easement restoration.

Justification: To provide grade and stream bank control in order to stabilize storm and sanitary infrastructure and prevent damage, which could contaminate the creek with pollutants.

Anticipated Benefit: Protect public health and prevent compliance and liability issues. Avoid DNR and EPA fines.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$150,000	-	-	-	\$150,000	-

WW COLLECTIONS BUILDING PARKING AREA

Fund: Wastewater

Department: Wastewater

Location: Wastewater – Water Reclamation Center

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

Description: Concrete parking area by Collections Building.

Justification: This rock parking area holds water during wet weather. The concrete surface with slop, tie wall and drainage will help correct this problem.

Anticipated Benefit: The parking area is on the south lower side of the collections building, there is a storage area below the collections building next to the parking area; the above justification will help keep rain water and mud out of the storage area.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$10,000	-	-	-	\$10,000	-

EQUIPMENT STORAGE BUILDING

Fund: Wastewater

Department: Wastewater

Location: 2355 Mette Rd.

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

Description: Building for housing equipment and large pumps. This would be a 40' x 50' metal building.

Justification: The building houses a tractor and disc for land application, tractor, brush hog and large pumps for lift stations.

Anticipated Benefit: Heated protection and storage of essential equipment that fails in freezing temperatures such as block heaters, water tanks, pumps, etc.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$55,000	-	-	-	\$55,000	-

ST. LUKES LIFT STATION

Fund: Wastewater

Department: Wastewater

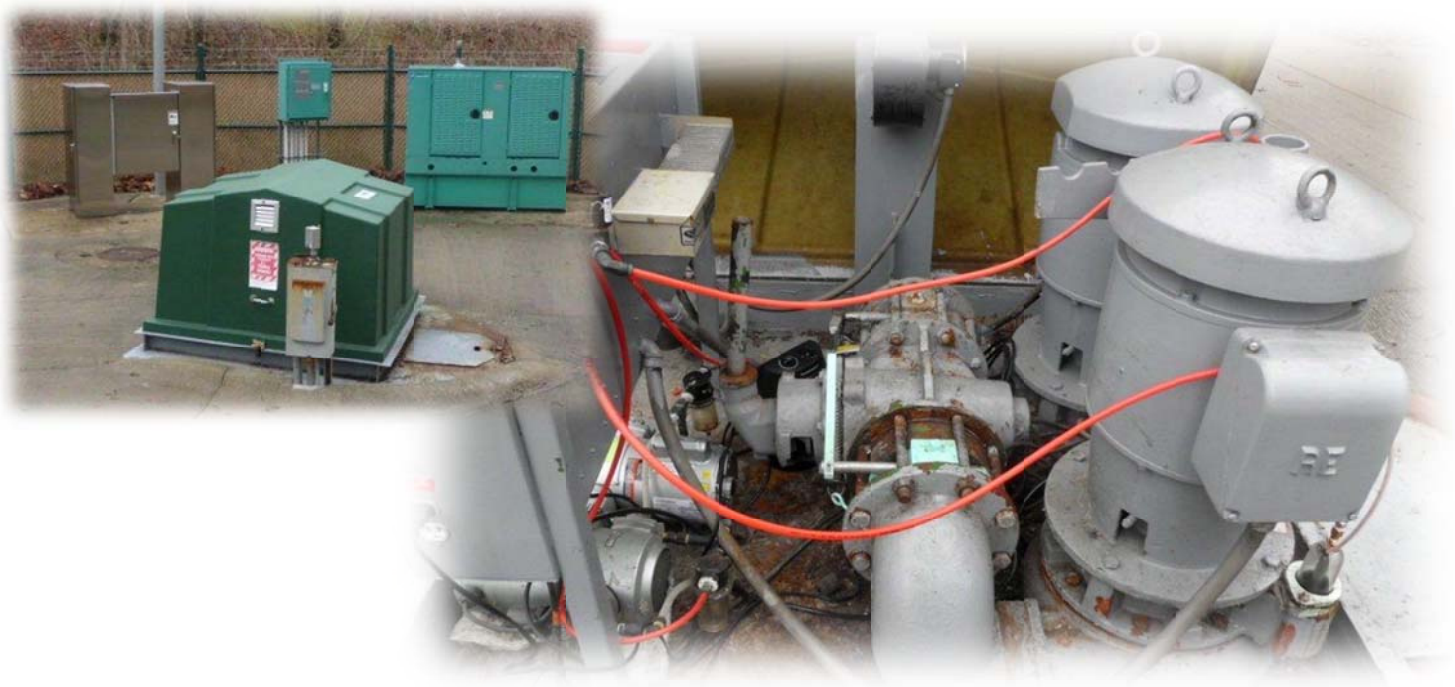
Location: St. Luke's Lift Station

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

Description: Replace Smith & Loveless Lift Station (50 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 (35 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. New station will be constructed to conform to existing submersible station City specifications.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$490,000	-	-	-	\$490,000	-

PARR ROAD LIFT STATION

Fund: Wastewater

Department: Wastewater

Location: Parr Road

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

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

Justification: Replace of the station is needed due to age (more than 30 years in 2019) of this type of station. Current condition of station makes extensive rehabilitation unfeasible. Current station maintenance records/history do not justify installing a submersible station, per city specifications.

Anticipated Benefit: New station will provide increased safety and reliability as well as increased pumping efficiency. Existing Smith & 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	2016	2017	2018	2019	2020
\$100,000	-	-	-	\$100,000	-

BOONETRAIL LIFT STATION

Fund: Wastewater

Department: Wastewater

Location: Boonetrail Lift Station

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

Description: Replace Smith & Loveless Lift Station with submersible pump station. Lift station frame has deteriorated to the point where replacement is required.

Justification: Replacement of the station is needed due to age (20 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 as the collections system and discharge point has changed since this station was built. (Station originally flowed to South Lift Station).



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$490,000	-	-	-	\$490,000	-

RECLAMATION CENTER PARKING LOT AND WALL REPAIR

Fund: Wastewater

Department: Wastewater

Location: Wastewater – Water Reclamation Center

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

Description: Remove deteriorated asphalt pavement and failing railroad tie wall that runs along the parking area and replace with concrete pavement and a concrete retaining wall.

Justification: The asphalt was placed in 1995 and is deteriorated beyond recommend preventative maintenance. The tie wall is failing leaving a potential for a majority of the parking spaces to be loss of the wall fails further.

Anticipated Benefit: Replacement of the pavement and tie wall will provide available parking at the Water Reclamation Center for an additional 30 years.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$45,000	-	-	-	-	\$45,000

SOUTH LIFT SPARE PUMP

Fund: Wastewater

Department: Wastewater

Location: South Lift Station

Project Cost: \$97,000 | **Outside Funding:** \$-0- | **City Cost:** \$97,000

Description: A spare pump for operation at South Lift Station

Justification: This pump is being budgeted to provide reliability and redundancy in the event of a pump failure at South Lift Station.

Anticipated Benefit: The spare pump will increase reliability at this station and provide necessary redundancy for the Collection System due the growth in the City.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$97,000	-	-	-	-	\$97,000

RECLAMATION CENTER EXPANSION AND DESIGN

Fund: Wastewater
Department: Wastewater
Location: 2455 Mette Rd.

Project Cost: \$9,150,000 | **Outside Funding:** \$-0- | **City Cost:** \$9,150,000
 Planning/Engineering - \$650,000
 Construction (2021) - \$8,500,000

Description: Treatment Plant Expansion Phase Three Addition of needed additional; treatment unit(s), clarifier(s), bio-solids storage and processing equipment, and an all-weather bridge access across McCoy Creek

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 and Reclamation Center will be sized appropriately to accept additional growth and development in the future.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$650,000	-	-	-	-	\$650,000

LIFT STATION SPARE PUMPS, VFDs & REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: Lift Stations Citywide

Project Cost: \$580,000 | **Outside Funding:** \$-0- | **City Cost:** \$580,000

Description: Replacement pumps, variable frequency drives and related equipment for several Lift Stations citywide as needed.

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	2016	2017	2018	2019	2020
\$580,000	\$100,000	\$112,000	108,000	\$112,000	\$148,000

5-TON HVAC UNIT

Fund: Wastewater

Department: Wastewater

Location: Water Reclamation Center

Project Cost: \$10,074 | **Outside Funding:** \$-0- | **City Cost:** \$10,074

Description: Replacement of 5-ton HVAC unit on top of the main building.

Justification: The existing unit is 25 years old and has experienced many repairs in the last year.

Anticipated Benefit: The new unit will save on electric through increased efficiency.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$10,074	\$10,074	-	-	-	-

SEWER-JET TRUCK

Fund: Wastewater

Department: Wastewater

Location: Wastewater Collections

Project Cost: \$360,000 | **Outside Funding:** \$25,000 | **City Cost:** \$335,000
Estimated Trade-In Value - \$25,000

Description: Replacement of sewer jet truck purchased in 2001.

Justification: The Wastewater Divisions sewer jet truck is nearly 15 years old and its repair history is justifying replacement.

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



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$335,000	\$335,000	-	-	-	-

PORTABLE GENERATOR TRANSFER SWITCH

Fund: Wastewater

Department: Wastewater

Location: Wastewater Collections

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

Description: Outfitting several lift stations by installing five manual transfer switches for portable emergency generator service to provide additional protection during extended outages.

Justification: For lift station emergency power loss.

Anticipated Benefit: Improve reliability and reduce downtime during a major power failure at the Pump Station to protect public health and prevent compliance and liability issues. Avoid DNR and EPA fines.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$55,000	\$55,000	-	-	-	-

LIFT FLOW METERS

Fund: Wastewater

Department: Wastewater

Location: Stone Meadows Lift (6057 Blake Thomas Dr.) and Golf Club West Lift Station

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

Description: Flow meter installation and programming at all large flow stations to remotely monitor flows and potential inflow and infiltration from the receiving sewers upstream of the lift station.

Justification: Remote real-time monitoring of flows via meter and SCADA system at several large stations City wide will enable Collections Division staff to more effectively monitor storm-related flows and daily normal flows and address concerns, as well as help to monitor and troubleshoot potential issues.

Anticipated Benefit: These meters will allow personnel to address flow concerns and help to monitor and troubleshoot potential issues with pumps and controls, in an effort to reduce inflow and infiltration, improve efficiency, and reduce related electrical and maintenance expenses.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$18,000	\$9,000	\$9,000	-	-	-

BIO-SOLIDS LAND APPLICATION FLOATER TRUCK

Fund: Wastewater

Department: Wastewater

Location: Wastewater – Reclamation Center

Project Cost: \$338,000 | **Outside Funding:** \$-0- | **City Cost:** \$338,000

Description: Bio-solids land application floater truck, which is 29 years old and is used to land apply bio-solids to local properties. This is a major component to the wastewater treatment plant's land application program.

Justification: Current truck is 29 years old used to land apply bio-solids to local properties. This is a major component to the wastewater treatment plant's land-application program. The engine was rebuilt in 2005 and lacks power.

Anticipated Benefit: The new applicator truck will have a 4,000 gallon tank and will decrease travel time and increase reliability and productivity with a 33 percent larger tank.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$338,000	-	\$338,000	-	-	-

3/4-TON 4X4 PICKUP

Fund: Wastewater

Department: Wastewater

Project Cost: \$97,000 | **Outside Funding:** \$-0- | **City Cost:** \$97,000

Description: Replacement of existing 3/4-ton trucks.

Justification: 3/4-ton trucks will be used to conduct field 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 repair cost.

FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$97,000	-	\$31,000	\$32,000	-	\$34,000

TRAILER

Fund: Wastewater

Department: Wastewater

Location: Wastewater – Reclamation Center

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

Description: Replace, update and outfit old sewer camera trailer with confined space entry equipment, safety equipment and tools and supplies needed to more quickly respond to various Wastewater emergencies citywide.

Justification: Replacement trailer will be needed due to age of existing trailer in 5-7 years on 15- year replacement cycle.

Anticipated Benefit: Benefits to the City include reducing response times for emergency repairs, and reducing time required to load and unload vehicles with a variety of supplies, tools and materials for each emergency. In addition, the trailer will be equipped with a 5-10 kW generator to facilitate emergency repairs.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$14,000	-	-	\$14,000	-	-

CRANE TRUCK 4X4

Fund: Wastewater

Department: Wastewater

Location: Water Reclamation Center

Project Cost: \$86,000 | **Outside Funding:** \$-0- | **City Cost:** \$86,000

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 2019 will reduce repair cost and improve reliability for emergency service.



FUNDING SCHEDULE					
Total	2016	2017	2018	2019	2020
\$86,000	-	-	-	-	\$86,000

SKID LOADER

Fund: Wastewater

Department: Wastewater

Location: Wastewater Reclamation Center

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

Description: Skid Loader for Wastewater Division

Justification: Skid loader will be used by the Wastewater Collection mainly for pushing in rock, and dirt after manhole and sewer line repairs and for clearing right-of-ways and easement maintenance.

Anticipated Benefit: A skid loader in the Wastewater Collections Division will save on time when trying to schedule with other departments to use their equipment.



FUNDING SCHEDULE					
Total \$60,000	2016	2017	2018	2019	2020
	-	-	-	-	\$60,000