

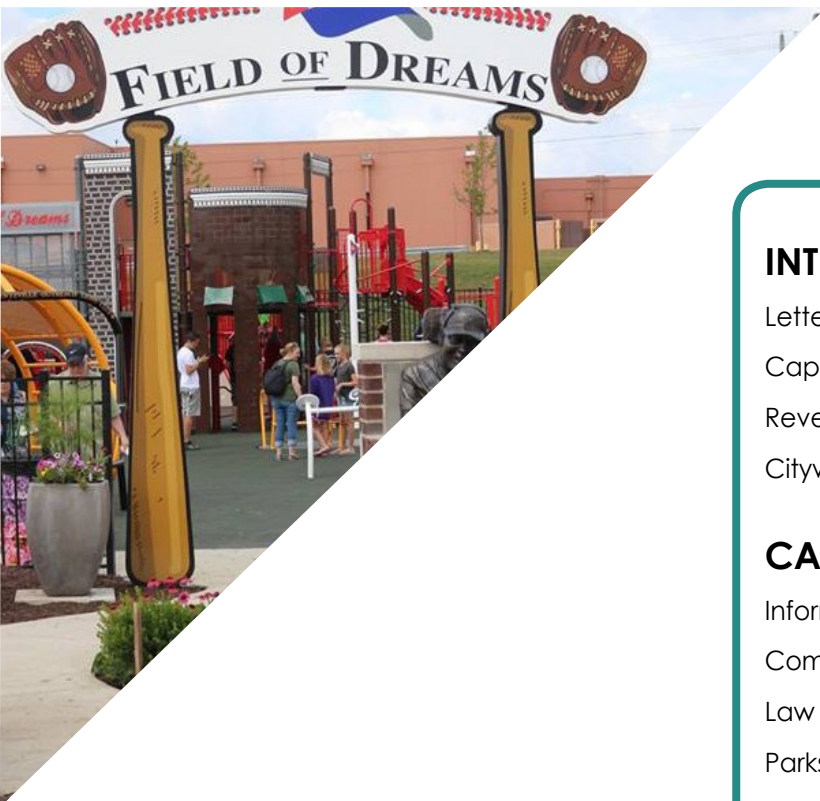
CAPITAL IMPROVEMENT PLAN 2019-2023



Wentzville Missouri
The Crossroads of the Nation

Wentzville
The Crossroads of the Nation
City Hall | Municipal
Law Enforcement

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CAPITAL IMPROVEMENT PLAN

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Introduction

To the Mayor and Board of Aldermen:

I am pleased to transmit to you the proposed 2019-2023 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. Nearly all of the items submitted in the CIP were included in the Fund Planners reviewed at the Strategic Goal Setting meetings.

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

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

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

The proposed plan calls for the expenditure of \$146,331,543 over a five-year time frame and includes funding mechanisms for each item.

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

Sincerely,



David Gipson
City Administrator

CAPITAL IMPROVEMENT PLAN

2019-2023

Capital Plan

A Five-Year Capital Improvement Plan allows the City to proactively plan its future capital needs well in advance, yet allow flexibility for changing needs. The first year reflects the capital projects included in the 2019 fiscal year budget. The remaining four years represent a schedule and estimate of future capital projects that may be funded based on revenue projections. Capital expenditures are listed by year and have been moved or adjusted to remain in balance. There will be further adjustments as the plan is updated with current information annually.

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

Capital Improvements

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

Financing Methods

As stated, the means of funding for each project is specified herein; the Governmental Fund to be used to complete the physical improvement. Within this Five-Year Capital Improvement Plan, a total of \$146,331,543 is recommended for capital spending. A breakdown of this \$146 million by department indicates that the Transportation Fund will bear the largest burden of this Five-Year Capital Plan, followed by the Multigenerational Facility in the Park Fund and design and construction of the Wastewater Reclamation Center expansion. Of the total \$146 million in total five-year capital spending, \$70.7 million (or 48%) is estimated to be reimbursed by outside funding sources. The City will continue to pursue outside funding to finance (or defray) significant capital costs.

Annual Expenditure Trend

Approximately \$146 million in capital projects are anticipated over the five-year period 2019-2023. For this five-year period, the largest single year of capital outlay will be fiscal year 2021, which includes the Multigenerational Facility, Phase 2A, B and C of David Hoekel Parkway and the Reclamation Center and Bio-Solids Building Expansion. The fiscal year 2019 includes pre-construction costs for a new Public Works facility, multiple road projects including Wentzville Parkway Turn Lane Phase II, West Meyer Road Phase III, Wentzville Parkway South, and a wet weather storage basin. The other variances year-to-year are due to waterline extension and replacement projects and a number of large Transportation projects which includes yearly street and sidewalk maintenance and enhancements committed to downtown.

REVENUE SOURCES

General Fund

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

Transportation Fund

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

Capital Improvements Fund

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

Water and Wastewater Enterprise Funds

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

Parks and Recreation Funds

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

Debt Financing

Fund debt financing is for projects that cannot be funded without a new revenue source. Possible funding sources for these projects will include General Obligation Bonds for large projects. Revenue Bonds such as the State Revolving Fund could be used for utility projects. Leasehold Revenue Bonds can be used for park development since there is now a Parks sales tax, which will provide a means to repay these types of bonds. In 2020, the City will work with Missouri Highways and Transportation Commission and the Missouri Transportation Finance Corporation (MTFC) to enter into a Direct Loan Agreement and Promissory Note in the amount of \$5,000,000 for the construction of David Hoekel Parkway. The remainder of the project will be funded using City, County and State dollars.

CITYWIDE CAPITAL IMPROVEMENT PLAN SUMMARY

| PROJECT | | | | | | |
|------------------------|------------|------------|------------|------------|------------|-----------------|
| Department | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Information Technology | - | - | - | - | - | - |
| Community Development | - | - | - | - | - | - |
| Law Enforcement | 62,338 | 62,338 | 72,338 | 62,338 | 62,338 | 321,690 |
| Parks | 4,453,600 | 610,969 | 23,629,113 | 297,806 | 605,738 | 29,597,226 |
| Public Works | 1,261,000 | 2,108,000 | 500,000 | 500,000 | 500,000 | 4,869,000 |
| Transportation | 21,201,227 | 21,592,000 | 11,464,033 | 18,961,000 | 4,800,000 | 78,018,260 |
| Water | 1,560,200 | 1,536,000 | 300,000 | 640,000 | 1,205,500 | 5,241,700 |
| Wastewater | 7,225,674 | 5,650,200 | 1,754,000 | 1,212,000 | 4,956,500 | 20,798,374 |
| TOTAL | 35,764,039 | 31,559,507 | 37,719,484 | 21,673,144 | 12,130,076 | 138,846,250 |

| EQUIPMENT | | | | | | |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------------|
| Department | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Information Technology | - | 100,000 | - | - | 45,000 | 145,000 |
| Community Development | 26,000 | 26,000 | 81,300 | - | 25,000 | 158,300 |
| Law Enforcement | 481,349 | 638,577 | 457,299 | 1,136,299 | 682,299 | 3,395,823 |
| Parks | 163,650 | 332,595 | 217,300 | 87,500 | 215,125 | 1,016,170 |
| Public Works | 162,000 | 228,000 | 198,000 | 88,000 | 300,000 | 976,000 |
| Transportation | 17,000 | 67,500 | 286,000 | 18,500 | 280,000 | 669,000 |
| Water | 334,000 | 80,000 | 15,000 | 65,000 | 20,000 | 514,000 |
| Wastewater | 70,000 | 206,000 | 157,000 | - | 178,000 | 611,000 |
| TOTAL | 1,253,999 | 1,678,672 | 1,411,899 | 1,395,299 | 1,745,424 | 7,485,293 |

CITYWIDE CAPITAL IMPROVEMENT PLAN SUMMARY

| TOTAL PROJECTS AND EQUIPMENT | | | | | | |
|------------------------------|------------|------------|------------|------------|------------|-----------------|
| | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| TOTAL | 37,018,038 | 33,238,179 | 39,131,383 | 23,068,443 | 13,875,500 | 146,331,543 |

| FUNDING SUMMARY | | | | | | |
|---------------------------------------|------------|------------|------------|------------|------------|-----------------|
| Source | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Capital Fund | 2,577,337 | 3,849,010 | 1,984,237 | 1,957,637 | 2,307,762 | 12,675,983 |
| Park Fund | 234,850 | 189,094 | 144,738 | 297,806 | 390,895 | 1,257,383 |
| Wentzville Bend Bond Proceeds | 4,218,750 | 421,875 | 23,484,375 | - | - | 28,125,000 |
| Dierbergs Contribution/Land Agreement | - | - | - | - | 64,843 | 64,843 |
| Recreation Trails Program Grant | - | - | - | - | 150,000 | 150,000 |
| Transportation Fund | 6,066,350 | 6,816,500 | 6,056,410 | 7,084,200 | 4,800,000 | 30,823,460 |
| St. Charles County Cost Share | 11,098,490 | 7,187,500 | 3,374,010 | 11,376,800 | - | 33,036,800 |
| MoDOT Cost Share | 2,500,000 | 2,500,000 | - | - | - | 5,000,000 |
| STP Funding | 1,130,000 | - | - | - | - | 1,130,000 |
| East-West Gateway TAP Funding | - | - | - | 500,000 | - | 500,000 |
| CMAQ through EQGCOCG | 188,387 | 88,000 | 2,033,613 | - | - | 2,310,000 |
| Private Developer | 472,410 | - | - | - | - | 472,410 |
| MoDOT Loan | - | 5,000,000 | - | - | - | 5,000,000 |
| Water Fund | 1,560,200 | 1,536,000 | 300,000 | 640,000 | 1,205,500 | 5,241,700 |
| Wastewater Fund | 6,971,264 | 5,650,200 | 1,754,000 | 1,212,000 | 4,956,500 | 20,543,964 |
| TOTAL | 37,018,038 | 33,238,179 | 39,131,383 | 23,068,443 | 13,875,500 | 146,331,543 |

Information Technology

INFORMATION TECHNOLOGY

| EQUIPMENT | | | | | | | |
|------------------------|-----------------------------------|------|---------|------|------|--------|-----------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Human Resources | Human Resource Information System | - | 25,000 | - | - | - | 25,000 |
| Information Technology | Virtual Desktop Environment | - | 75,000 | - | - | - | 75,000 |
| Administration | Copier | - | - | - | - | 15,000 | 15,000 |
| Information Technology | Mid-Size SUV | - | - | - | - | 30,000 | 30,000 |
| TOTAL | | - | 100,000 | - | - | 45,000 | 145,000 |

| FUNDING SOURCE | | | | | | |
|----------------|------|---------|------|------|--------|-----------------|
| | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Capital Fund | - | 100,000 | - | - | 45,000 | 145,000 |
| TOTAL | - | 100,000 | - | - | 45,000 | 145,000 |

HUMAN RESOURCE INFORMATION SYSTEM

Fund: Capital

Department: Information Technology – Human Resources

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|----------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$25,000 | - | \$25,000 | - | - | - |

VIRTUAL DESKTOP ENVIRONMENT

Fund: Capital

Department: Information Technology

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|----------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$75,000 | - | \$75,000 | - | - | - |

COPIER

Fund: Capital

Department: Administration

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

Description: With the move to the new City Hall, the copier is utilized by other departments causing more printing, copying and scanning. The new copier will replace the current copier that will be 10-years old. The projected annual maintenance cost is \$4,000.

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$15,000 | - | - | - | - | \$15,000 |

MID-SIZE SUV

Fund: Capital

Department: Information Technology

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$30,000 | - | - | - | - | \$30,000 |

Community Development

COMMUNITY DEVELOPMENT

| EQUIPMENT | | | | | | | |
|---------------------|------------------------|--------|--------|--------|------|--------|-----------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Building Inspection | Compact SUV | 26,000 | 26,000 | 56,000 | - | - | 108,000 |
| Building Inspection | ½-Ton 4x4 Pickup Truck | - | - | 25,300 | - | 25,000 | 25,300 |
| TOTAL | | 26,000 | 26,000 | 81,300 | - | 25,000 | 158,300 |

| FUNDING SOURCE | | | | | | | |
|----------------|--|--------|--------|--------|------|--------|-----------------|
| | | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Capital Fund | | 26,000 | 26,000 | 81,300 | - | 25,000 | 158,300 |
| TOTAL | | 26,000 | 26,000 | 81,300 | - | 25,000 | 158,300 |

VEHICLES

Fund: Capital

Department: Community Development – Building Inspection

Location: Building Inspection

Description: Purchase of replacement vehicles.

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

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

| COMPACT SUV | | | | | |
|------------------|----------|----------|----------|------|------|
| FUNDING SCHEDULE | | | | | |
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$108,000 | \$26,000 | \$26,000 | \$56,000 | - | - |

| ½-TON 4x4 PICKUP TRUCK | | | | | |
|------------------------|------|------|----------|------|----------|
| FUNDING SCHEDULE | | | | | |
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$50,300 | - | - | \$25,300 | - | \$25,000 |

Law Enforcement

LAW ENFORCEMENT

| PROJECT | | | | | | | |
|-----------------|---------------------------|--------|--------|--------|--------|--------|-----------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Law Enforcement | Fencing/Gates | - | - | 10,000 | - | - | 10,000 |
| Law Enforcement | Guaranteed Energy Savings | 62,338 | 62,338 | 62,338 | 62,338 | 62,338 | 311,690 |
| TOTAL | | 62,338 | 62,338 | 72,338 | 62,338 | 62,338 | 321,690 |

| EQUIPMENT | | | | | | | |
|-----------------|---|---------|---------|---------|-----------|---------|-----------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Law Enforcement | License Plate Readers | 18,000 | - | - | - | - | 18,000 |
| Law Enforcement | Flir Camera for Drones (2) | 23,697 | - | - | - | - | 23,697 |
| Law Enforcement | Canine | - | 40,000 | - | - | - | 40,000 |
| Law Enforcement | Multi-Purpose Incident Command Vehicle | - | 150,000 | - | - | - | 150,000 |
| Law Enforcement | CAD/RMS System | - | - | - | 650,000 | - | 650,000 |
| Law Enforcement | Copier | - | - | - | 17,000 | - | 17,000 |
| Law Enforcement | Firearms Simulator and Equipment | - | - | - | - | 125,000 | 125,000 |
| Law Enforcement | Long Gun | - | - | - | - | 51,000 | 51,000 |
| Law Enforcement | John Deere Side by Side | - | - | - | - | 25,000 | 25,000 |
| Law Enforcement | 911 Maintenance | 63,259 | 63,259 | 63,259 | 63,259 | 63,259 | 316,295 |
| Law Enforcement | Taser Tap 2 Program | 13,553 | 10,478 | 7,200 | 7,200 | 7,200 | 45,631 |
| Law Enforcement | Taser Axon Flex Upgrade | 45,840 | 45,840 | 45,840 | 45,840 | 45,840 | 229,200 |
| Law Enforcement | Emergency Warning Siren | 43,000 | 43,000 | 43,000 | 43,000 | 43,000 | 215,000 |
| Law Enforcement | Patrol Vehicles and Equipment/Set-up | 250,000 | 260,000 | 270,000 | 280,000 | 290,000 | 1,350,000 |
| Law Enforcement | Motorcycle and Equipment/Set-Up (less trade-in) | 24,000 | 26,000 | 28,000 | 30,000 | 32,000 | 140,000 |
| TOTAL | | 481,349 | 638,577 | 457,299 | 1,136,299 | 682,299 | 3,395,823 |

LAW ENFORCEMENT

| TOTAL PROJECTS AND EQUIPMENT | | | | | | |
|------------------------------|---------|---------|---------|-----------|---------|-----------------|
| | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| TOTAL | 543,687 | 700,915 | 529,637 | 1,198,637 | 744,637 | 3,717,513 |

| FUNDING SOURCE | | | | | | |
|----------------|---------|---------|---------|-----------|---------|-----------------|
| | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Capital Fund | 543,687 | 700,915 | 529,637 | 1,198,637 | 744,637 | 3,717,513 |
| TOTAL | 543,687 | 700,915 | 529,637 | 1,198,637 | 744,637 | 3,717,513 |

FENCING/GATES

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

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

Description and Justification: Fencing and two additional gates for added security at the Law Enforcement Center.

Anticipated Benefit: Added security for the Law Enforcement Center, employees and equipment.



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$10,000 | - | - | \$10,000 | - | - |

GUARANTEED ENERGY SAVINGS

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Boulevard

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|----------|----------|----------|----------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$311,690 | \$62,338 | \$62,338 | \$62,338 | \$62,338 | \$62,338 |

LICENSE PLATE READERS

Fund: Capital

Department: Law Enforcement

Project Cost: \$18,000



Outside Funding: \$-0-



City Cost: \$18,000

Description and Justification: Purchase of two license plate readers to replace existing cameras due to life expectancy of the equipment coming to term.



| FUNDING SCHEDULE | | | | | |
|------------------|----------|------|------|------|------|
| Total | 2019 (2) | 2020 | 2021 | 2022 | 2023 |
| \$18,000 | \$18,000 | - | - | - | - |

FLIR CAMERA FOR DRONES

Fund: Capital

Department: Law Enforcement

Project Cost: \$23,697



Outside Funding: \$-0-



City Cost: \$23,697

Description and Justification: Purchase of two cameras; Zenmuse XT2 ZXT2A19FR Frame Rate 640X512, 19 mm lens. These cameras will allow pilots to search at night for missing persons or fleeing suspects. The Flir camera is an essential part of the drone program.

Anticipated Benefit: The cameras allow for advanced utilization of the drone program by providing the capability of night flights for missing persons and suspects.



| FUNDING SCHEDULE | | | | | |
|------------------|----------|------|------|------|------|
| Total | 2019 (2) | 2020 | 2021 | 2022 | 2023 |
| \$23,697 | \$23,697 | - | - | - | - |

CANINE

Fund: Capital

Department: Law Enforcement

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|----------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$40,000 | - | \$40,000 | - | - | - |

MULTI-PURPOSE INCIDENT COMMAND VEHICLE

Fund: Capital

Department: Law Enforcement

Project Cost: \$150,000



Outside Funding: \$-0-



City Cost: \$150,000

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|-----------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$150,000 | - | \$150,000 | - | - | - |

CAD/RMS SYSTEM

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$650,000

| **Outside Funding:** \$-0-

| **City Cost:** \$650,000

Description: Replace CAD/RMS System with a new system that will support the growth of this Agency and provide the needed information gathering capabilities while providing reliable statistical data that will drive the Police Department's community orientated policing efforts forward. Delivering reliable data will be crucial for any accreditation efforts that are initiated in the near future.

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 2017. The Police Department is requesting to push this project to 2020 in order to explore the functionality of the upgrade being offered by ITI.

Anticipated Benefit: More accurate reporting.



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|-----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$400,000 | - | - | - | \$650,000 | - |

COPIER

Fund: Capital

Department: Law Enforcement

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$17,000 | - | - | - | \$17,000 | - |

FIREARMS SIMULATOR

Fund: Capital

Department: Law Enforcement

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|-----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$125,000 | - | - | - | - | \$125,000 |

LONG GUN REPLACEMENT

Fund: Capital

Department: Law Enforcement

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$51,000 | - | - | - | - | \$51,000 |

JOHN DEERE SIDE BY SIDE

Fund: Capital

Department: Law Enforcement

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

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

Anticipated Benefit: A more efficient patrol operation.

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$25,000 | - | - | - | - | \$25,000 |

911 MAINTENANCE

Fund: Capital

Department: Law Enforcement

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

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|----------|----------|----------|----------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$316,295 | \$63,259 | \$63,259 | \$63,259 | \$63,259 | \$63,259 |

TASER TAP 2 PROGRAM

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$45,631 | **Outside Funding:** \$-0- | **City Cost:** \$45,631

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$45,631 | \$13,553 | \$10,478 | \$7,200 | \$7,200 | \$7,200 |

TASER AXON FLEX TAP

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$229,200 | **Outside Funding:** \$-0- | **City Cost:** \$229,200

Description and Justification: The purchase of a TAP program for the Taser Axon Flex camera system including the cost of evidence.com to store and manage the recordings from the cameras as well as the cameras and associated hardware. The TAP program ensures availability of hardware and software updates at no additional costs during the contract period.

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



| FUNDING SCHEDULE | | | | | |
|------------------|----------|----------|----------|----------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$229,200 | \$45,840 | \$45,840 | \$45,840 | \$45,840 | \$45,840 |

EMERGENCY WARNING SIRENS

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

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

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

Justification: City expansion and/or aging sirens.

Anticipated Benefit: Safety and liability.



| FUNDING SCHEDULE | | | | | |
|------------------|----------|----------|----------|----------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$215,000 | \$43,000 | \$43,000 | \$43,000 | \$43,000 | \$43,000 |

PATROL VEHICLES AND EQUIPMENT/SET-UP

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

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

Justification: Continue the police rotation program and an effort to address the issues that are prevalent with the existing fleet. This provides for faster deployment of vehicles to patrol duties and quicker turnover of worn-out vehicles.

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

| PURSUIT RATED SUV | | | | | |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| FUNDING SCHEDULE | | | | | |
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$1,350,000 | \$250,000 | \$260,000 | \$270,000 | \$280,000 | \$290,000 |

| MOTORCYCLE | | | | | |
|------------------|----------|----------|----------|----------|----------|
| FUNDING SCHEDULE | | | | | |
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$140,000 | \$24,000 | \$26,000 | \$28,000 | \$30,000 | \$32,000 |



Parks and Recreation

PARKS & RECREATION

| PROJECT | | | | | | | |
|------------------------------|--|-----------|---------|------------|---------|---------|-----------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Maintenance | Asphalt Parking Lot Around Structures | 123,625 | - | - | - | - | 123,625 |
| Maintenance | Maintenance Shed Office and Restroom Build Out | 25,000 | - | - | - | - | 25,000 |
| Administration | Multigenerational Facility | 4,218,750 | 421,875 | 23,484,375 | - | - | 28,125,000 |
| Maintenance | Public Park Facility Improvements | 66,625 | 69,444 | 72,263 | 75,594 | 70,000 | 353,926 |
| Maintenance | RTU for Locker Rooms | - | 75,900 | - | - | - | 75,900 |
| Maintenance | Baseball Field Improvements | - | 43,750 | - | - | - | 43,750 |
| Maintenance | Irrigation and Backstops at Peruque Valley Park | - | - | 72,475 | - | - | 72,475 |
| Maintenance | Shade Structure | - | - | - | 43,050 | - | 43,050 |
| Maintenance | Preventative Maintenance Asphalt Parking Lots and Trails | - | - | - | 97,674 | - | 97,674 |
| Maintenance | Public Park Outdoor Improvements | - | - | - | 81,488 | 81,488 | 162,976 |
| Maintenance | Heartland Park Trail Extension | - | - | - | - | 370,500 | 370,500 |
| Maintenance | Progress Park Playground Resurfacing | - | - | - | - | 83,750 | 83,750 |
| Park Funded Projects: | | | | | | | |
| Administration | Printer/Copier/Scanner | 9,600 | - | - | - | - | 9,600 |
| Maintenance | 20" Stand-On Floor Scrubber | 10,000 | - | - | - | - | 10,000 |
| TOTAL | | 4,453,600 | 610,969 | 23,629,113 | 297,806 | 605,738 | 29,597,226 |

PARKS & RECREATION

| EQUIPMENT | | | | | | | |
|---------------------------------|--|--------|---------|--------|--------|--------|-----------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Capital Funded Projects: | | | | | | | |
| Maintenance | ADA Sidewalk Replacement | 25,000 | - | 25,000 | - | 29,875 | 79,875 |
| Maintenance | ADA Vestibule | - | 104,995 | - | - | - | 104,995 |
| Horticulture & For | Quik Trak 61" Chariot Mower | 13,000 | - | - | - | - | 13,000 |
| Horticulture & For | 3/4-Ton 4x4 Truck w/Utility Bed & Power Inverter | 38,000 | - | - | - | - | 38,000 |
| Maintenance | 1-Ton 4x4 Truck w/Landscape Bed & Hoist | 49,150 | - | - | - | - | 49,150 |
| Horticulture & For/Maint. | Utility Vehicle | 25,000 | - | 25,000 | 11,000 | - | 61,000 |
| Horticulture & For | 3/4-Ton 4x4 Pickup Truck | - | 30,000 | - | - | 30,000 | 60,000 |
| Horticulture & For | 1-Ton Truck w/Snow Plow Package | - | 43,000 | - | - | - | 43,000 |
| Recreation | 8-Passenger Van | - | 33,150 | - | - | - | 33,150 |
| Horticulture & For | 6x4 Turf Gator | - | 13,000 | - | - | - | 13,000 |
| Horticulture & For | Compact Utility Tractor | - | 15,000 | - | - | - | 15,000 |
| Horticulture & For | Boom Truck (used) | - | 75,650 | - | - | - | 75,650 |
| Horticulture & For/Maint. | 1-Ton Truck w/Snow Plow Hookups (2) | - | - | 96,300 | - | - | 96,300 |
| Maintenance | 14' Dual Pivot Hook-All Hooklift Attachment | - | - | 55,000 | - | - | 55,000 |
| Horticulture & For | Articulating Slope Mower | - | - | - | 25,000 | - | 25,000 |
| Horticulture & For | Compact Mini Skid Loader | - | - | - | 35,000 | - | 35,000 |
| Maintenance | LED Informational Sign | - | - | - | - | 15,000 | 15,000 |
| Horticulture & For | 61" Zero Turn Mower | - | - | - | - | 10,500 | 10,500 |
| Horticulture & For | 72" Zero Turn Mower (2) | - | - | - | - | 24,000 | 24,000 |
| Horticulture & For | Equipment Trailer | - | - | - | - | 8,050 | 8,050 |
| Horticulture & For | Max Sprayer | - | - | - | - | 15,000 | 15,000 |
| Horticulture & For | Deep Tine Aerator | - | - | - | - | 18,000 | 18,000 |
| Horticulture & For | Z-Trac Midmount Mower | - | - | - | - | 18,500 | 18,500 |

PARKS & RECREATION

| EQUIPMENT | | | | | | | |
|------------|--------------------------------|---------|---------|---------|--------|---------|-----------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Recreation | Summer Camp Mobile Application | - | - | - | - | 29,700 | 29,700 |
| Recreation | Holiday Lights Display | 13,500 | 17,800 | 16,000 | 16,500 | 16,500 | 80,300 |
| TOTAL | | 163,650 | 332,595 | 217,300 | 87,500 | 215,125 | 1,016,170 |

| TOTAL PROJECTS AND EQUIPMENT | | | | | | | |
|------------------------------|--|-----------|---------|------------|---------|---------|-----------------|
| | | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| TOTAL | | 4,617,250 | 943,564 | 23,846,413 | 385,306 | 820,863 | 30,613,396 |

| FUNDING SOURCE | | | | | | | |
|---|--|-----------|---------|------------|---------|---------|-----------------|
| | | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Capital Fund | | 163,650 | 332,595 | 217,300 | 87,500 | 215,125 | 1,016,170 |
| Park Fund | | 234,850 | 189,094 | 144,738 | 297,806 | 390,895 | 1,257,383 |
| Wentzville Bend Bond Proceeds | | 4,218,750 | 421,875 | 23,484,375 | - | - | 28,125,000 |
| Dierbergs Contribution/Land Agreement from 2005 | | - | - | - | - | 64,843 | 64,843 |
| Recreation Trails Program Grant | | - | - | - | - | 150,000 | 150,000 |
| TOTAL | | 4,617,250 | 943,564 | 23,846,413 | 385,306 | 820,863 | 30,613,396 |

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$123,625 | \$123,625 | - | - | - | - |

MAINTENANCE SHED OFFICE AND RESTROOM BUILD OUT

Fund: Parks & Recreation

Department: Maintenance

Location: Peruque Valley Park

Project Cost: \$25,000 | **Outside Funding:** \$-0- | **City Cost:** \$25000

Description and Justification: With these funds, staff plans on finishing the inside of the Peruque Valley Park maintenance shed. Only the shell of the building was built in 2018. The build out includes everything from plumbing, electrical, flooring, walls, drywall and HVAC of the offices and restrooms of the building so that staff can start working out of the building.

Anticipated Benefit to the City: Currently, staff has to drive back and forth with tools and equipment to Progress Park and Peruque Valley Park. With the completion of the maintenance shed, the number of trips between the two parks will be reduced, which will result in a reduction of fuel consumption for the department and the City.

| FUNDING SCHEDULE | | | | | |
|------------------|----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$25,000 | \$25,000 | - | - | - | - |

MULTIGENERATIONAL FACILITY

Fund: Parks & Recreation
Department: Administration
Location: Wentzville Bend

Project Cost: \$28,125,000 | **Outside Funding:** \$28,125,000 | **City Cost:** \$-0-

Planning and Engineering - \$4,218,750
 Pre-Construction - \$421,875
 Construction - \$19,687,500
 FF&E and Contingency - \$3,796,875
 Wentzville Bend Bond Proceeds - \$28,125,000

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

Anticipated Benefit to the City: The proposed facility will become part of an 80-acre-mixed-use development along Wentzville Parkway. The mixed-use development, known as “The Bend,” will extend along the Parkway from the new City Hall to William Dierberg Drive. In addition to the City’s multigenerational recreation facility, the project will include park and green spaces, new retail, pedestrian trails and some residential development. This transformative project will be funded through sales taxes from the new retail space and an additional one-cent sales tax along a portion of Wentzville Parkway. Utilization of an additional one-cent sales tax ensures that the project can move forward immediately, while not requiring the use of any City-issued bonds or reserve funds. The funds generated by the tax will go toward construction and operational costs for the facility.



| FUNDING SCHEDULE | | | | | |
|------------------|-------------|-----------|--------------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$28,125,000 | \$4,218,750 | \$421,875 | \$23,484,375 | - | - |

PUBLIC PARK FACILITY IMPROVEMENT

Fund: Parks & Recreation

Department: Maintenance

Location: Citywide

Project Cost: \$353,926 | **Outside Funding:** \$-0- | **City Cost:** \$353,926

Description: Funds used to:

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

Identified projects include:

2019: Replace a tread mill (5 of 5) at PPRC (\$7,500); kitchen/Storage remodel at PPBH (\$27,000); Replace Sound/Paging System at PPRC (\$19,000); Reno at Camp Annex (\$5,000); Chemical Storage at Maintenance Shed at PVP (\$8,300)

2019: Replace a tread mill (1 of 5) at PPRC (\$7,500); Fitness Equipment Replacement (1 of 8) at PPRC (\$4,000); Ceiling Treatment for PPRC Lobby (\$8,000)

Justification: These project funds are exclusively to be used for work related to enclosed building structures. There are a number of smaller projects that get submitted every year that if completed when the issue begins rather than waiting until the problem reaches a critical stage will result in future cost savings. The problem is that these types of projects are always dropped during the budget process to focus resources on issues that have already reached the critical phase and the department never has an opportunity to catch up. It is proposed that system be developed to address these issues while they are still in their "infancy." 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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$353,926 | \$66,625 | \$69,444 | \$72,263 | \$75,594 | \$70,000 |

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$43,750 | - | \$43,750 | - | - | - |

IRRIGATION AND BACKSTOPS

Fund: Parks & Recreation

Department: Peruque Valley Park

Project Cost: \$72,475 | **Outside Funding:** \$-0- | **City Cost:** \$72,475

Description: Funds will be used to erect the three remaining baseball/softball fields at Peruque Valley Park. Parks would like to develop the three additional baseball fields that were not included in the first phase. This project is a material only cost as Park staff will provide the labor to install all of the backstops and irrigation for these fields. Irrigation supplies are projected to cost roughly \$35,000 for all three fields and the backstop materials will run around \$10,000 each (\$30,000 total).

Anticipated Benefit to the City: Staff feels that by building the three additional fields, they can accommodate larger tournaments that will attract more tournament business. It is anticipated that hotel, retail and restaurant will see an influx of patrons during these tournaments. Having seven fields of various sizes will better accommodate all ages at this complex. It is becoming more common that tournament directors sell the fact that teams play on age-appropriate fields and teams who travel expect that. On average, a complex like this can average 30 plus teams per weekend and can exceed 50 teams. This type of complex can accommodate approximately 20 tournaments a year with proper staffing.

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$72,475 | - | - | \$72,475 | - | - |

SHADE STRUCTURE

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

Project Cost: \$43,050 | **Outside Funding:** \$-0- | **City Cost:** \$43,050

Description: Funds utilized to design, purchase, install or construct an additional shade structure at the playground structures that were installed in Progress Park.

Justification: Shade structures were not included when the Progress Park playground was purchased and installed. Staff has received complaints from parents whose small children have been hurt when playing on the playgrounds or sliding on the slides. The plastics get very hot.



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$43,050 | - | - | - | \$43,050 | - |

PREVENTATIVE MAINTENANCE PROGRAM FOR ASPHALT PARKING LOTS AND TRAILS

Fund: Parks & Recreation
Department: Maintenance
Location: Citywide

Project Cost: \$97,674 | **Outside Funding:** \$-0- | **City Cost:** \$97,674

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

1. Crack seal and top coat, perhaps some spot repairs to the base are needed as well for the Parking Lot in Memorial Park
2. Crack seal and top coat Asphalt Trail in Rotary Park

The overall condition of the parking areas in the City Park System is not bad but there is an increasing need to catch up on the maintenance side. With the increasingly difficult budget challenges that we are facing, it is recommended that a review of the current service levels and the related revenues is completed to establish a baseline for establishing a long term maintenance program of asphalt surfaces consist with what is being done on City streets. There are also some areas where it should be considered to add a short connection or a few extra parking spaces and these funds would allow it.

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$97,674 | - | - | - | \$97,674 | - |

PUBLIC PARK OUTDOOR IMPROVEMENTS

Fund: Parks & Recreation
Department: Maintenance
Location: Citywide

Project Cost: \$162,976 | **Outside Funding:** \$-0- | **City Cost:** \$162,976

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

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

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". Projects identified for 2022 include: entrance sign at Heartland Park (\$18,000); new play features at Rotary Park playground (\$8,000); slide at Memorial Park (\$8,000); fences at Heartland Park 3&4 (\$13,000); Kolb building landscaping bed (\$7,500); extend retaining wall at Peruque Valley Park (25,000).

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|----------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$162,976 | - | - | - | \$81,488 | \$81,488 |

HEARTLAND PARK TRAIL EXTENSION

Fund: Parks & Recreation

Department: Maintenance

Location:Heartland Park

Project Cost: \$370,500 | **Outside Funding:** \$214,843 | **City Cost:** \$155,657

Dierberg's Contribution/Land Agreement from 2005 - \$64,843

Recreation Trails Program Grant - \$150,000

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|-----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$370,500 | - | - | - | - | \$370,500 |

PROGRESS PARK PLAYGROUND RESURFACING

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

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

Description and Justification: Progress Park playground safety surface will be nearing its life expectancy and will need a complete resurfacing. Current state of playground surfacing is deteriorating and impact attenuation is being jeopardized along with ADA accessibility. Square footage of the playground surfacing that will need to be replaced is 5,250 sq. ft. and cost per sq. ft. is around \$15 per sq. ft.

Anticipated Benefit to the City: Playground surfacing was designed to reduce life threatening and debilitating injuries that occur on playgrounds from falls under ASTM -1487 “Impact Attenuation.” Playground injuries are tracked through hospitals nationwide through the NEISS- National Electronic Injury Surveillance System Data base. It is the responsibility of the owner to ensure that all playground safety surfaces/playgrounds are kept to NPSI standards. Also all playground surfacing must also be compliant with F-1951 ADA accessibility across all surfacing. As seen from the pictures, the flooring is deteriorating and will be a potential ASTM 1487 hazard if not addressed soon. The playground is already non-compliant with the F-1951 ADA accessibility guidelines.



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$83,750 | - | - | - | - | \$83,750 |

PRINTER/COPIER/SCANNER

Fund: Park

Department: Administration

Project Cost: \$9,600 | **Outside Funding:** \$-0- | **City Cost:** \$9,600

Description and Justification: The current printer/copier/scanner was purchased in 2012 and is nearing its life expectancy of 5-7 years and has printed over one million copies. It is getting harder to find parts for the current machine and a few days staff was without a printer while waiting for the parts to arrive. With the addition of a full time marketing staff member, there is a need for a newer printer that is close to a production style printer in order to produce the highest quality printed pieces.

Justification: With a new printer, staff will be able to print items with a higher quality, thus increase the overall look of not just the department, but the City. A new machine will eliminate staff being without a printer for long periods of time while waiting for replacement parts and reduce monthly maintenance costs.

| FUNDING SCHEDULE | | | | | |
|------------------|---------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$9,600 | \$9,600 | - | - | - | - |

20" STAND-ON FLOOR SCRUBBER

Fund: Park

Department: Maintenance

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

Description and Justification: Funds will be used to purchase a new stand-on floor scrubber. The current machine was purchased in 2012 and is nearing its life expectancy of seven years. The scrubber is used to clean the gym floor and the banquet hall at Progress Park. Due to the age of the machine, staff has had a hard time finding replacement parts, and the machine has broken down several times within the past few months.

Anticipated Benefit to the City: With a new machine, staff will be able to keep the gym and banquet hall floors cleaned on a more consistent basis, which improves the overall experience for guests visiting Progress Park. There will also be less staff time spent finding replacement parts and trying to fix the machine.

| FUNDING SCHEDULE | | | | | |
|------------------|----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$10,000 | \$10,000 | - | - | - | - |

ADA SIDEWALK REPLACEMENT/IMPROVEMENTS

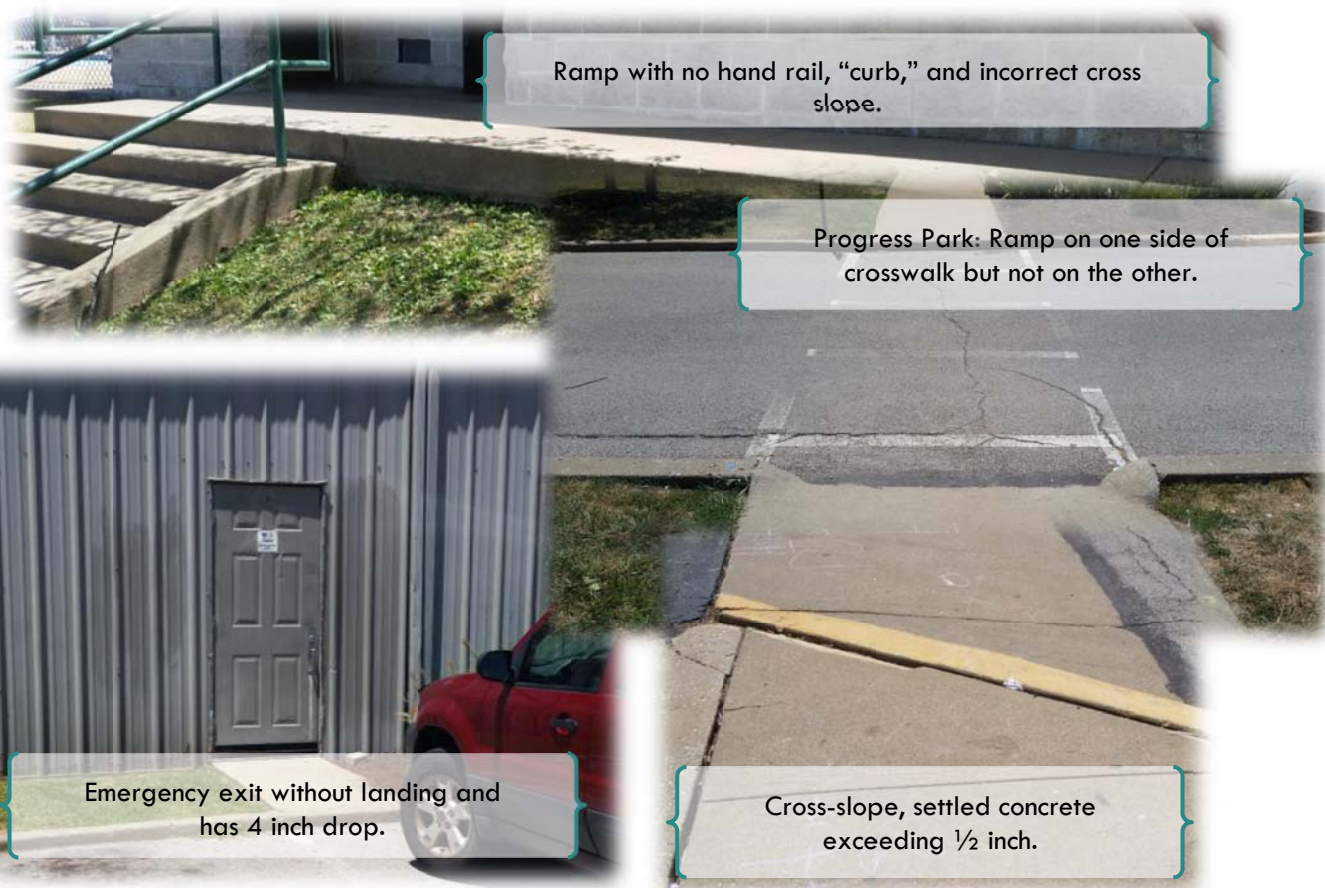
Fund: Capital

Department: Maintenance

Project Cost: \$79,875 | **Outside Funding:** \$-0- | **City Cost:** \$79,875
Capital Fund - \$79,875

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$79,875 | \$25,000 | - | \$25,000 | - | \$29,875 |

ADA VESTIBULE

Fund: Capital

Department: Maintenance

Location: Progress Park Hall Banquet Center

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|-----------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$104,995 | - | \$104,995 | - | - | - |

QUIK TRAK 61" CHARIOT MOWER

Fund: Capital

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$13,000 | \$13,000 | - | - | - | - |

3/4-TON 4X4 WITH UTILITY BED & POWER INVERTER

Fund: Capital

Department: Horticulture & Forestry

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

Description: Funds will be used to purchase a 4/4-ton pickup truck with a utility bed.

Justification: This vehicle is used in daily Park operations for hauling materials/equipment and pulling trailers/equipment to and from job sites. The work unit routinely hauls various power and hand tools, ladders, generators, compressors and other construction-related equipment. There are, often, time when the demands of the job site requires additional/different equipment and it may require additional trips to the shop. By incorporating a utility bed, much of the standard equipment can be kept on the truck and this will increase productivity of the staff by not having to make extra trips.

| FUNDING SCHEDULE | | | | | |
|------------------|----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$38,000 | \$38,000 | - | - | - | - |

1-TON 4X4 TRUCK WITH LANDSCAPE BED & HOIST

Fund: Capital

Department: Maintenance

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

Description: 1-ton 4x4 truck with landscape bed and hoist.

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$49,150 | \$49,150 | - | - | - | - |

UTILITY VEHICLE

Fund: Capital

Department: Horticulture & Forrestry

Project Cost: \$61,000 | **Outside Funding:** \$-0- | **City Cost:** \$61,000

Description: Funds will be used to purchase a John Deere ProGator 2020A (2021) and a John Deere HPX Gator (2022) utility vehicle as part of a scheduled replacement program.

Justification: The Gator's are a heavy duty utility cart that is used on a daily basis by maintenance personnel for transportation and heavy duty hauling of sod, gravel and needed tools to perform daily tasks as well as pulling various attachments for sweeping, topdressing, spraying, etc. These units are a heavy-duty utility vehicle that is used on a daily basis by Horticulture and Forestry staff for hauling and dispensing materials and spraying in areas that a full-size truck is unable to. These utility vehicles will replace machines that have exceeded its expected useful life that is in need of replacement to avoid escalating maintenance costs and parts that are increasingly hard to obtain due to the age of the unit.

| FUNDING SCHEDULE | | | | | |
|------------------|----------|------|----------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$61,000 | \$25,000 | - | \$25,000 | \$11,000 | - |

1-TON 4X4 TRUCKS

Fund: Capital

Department: Horticulture & Forestry

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$60,000 | - | \$30,000 | - | - | \$30,000 |

| 1-TON 4X4 CREW CAB PICKUP TRUCK | | | | | |
|---------------------------------|------|----------|------|------|------|
| FUNDING SCHEDULE | | | | | |
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$43,000 | - | \$43,000 | - | - | - |

8-PASSENGER VAN

Fund: Capital

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$33,150 | - | \$33,150 | - | - | - |

6X4 TURF GATOR

Fund: Capital

Department: Horticulture & Forestry

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

Description: Funds will be used to purchase a John Deere 6X4 utility vehicle as part of a scheduled replacement program.

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 six years or 2,800 hours.

| FUNDING SCHEDULE | | | | | |
|------------------|------|----------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$13,000 | - | \$13,000 | - | - | - |

COMPACT UTILITY TRACTOR

Fund: Capital

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$15,000 | - | \$15,000 | - | - | - |

BOOM TRUCK

Fund: Capital

Department: Horticulture & Forestry

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$75,650 | - | \$75,650 | - | - | - |

1-TON PICKUP TRUCK WITH SNOW PLOW HOOKUPS

Fund: Capital

Department: Maintenance and Horticulture & Forrestry

Project Cost: \$96,300 | **Outside Funding:** \$-0- | **City Cost:** \$96,300

Description: Funds will be used to purchase a 4x4 crew cab pickup truck with a standard bed. This truck will replace truck #803 and #807.

Justification: This vehicle is used in daily Park operations for hauling materials and/or equipment and pulling trailers and/or equipment to and from job sites. The work unit routinely hauls various power and hand tools, ladders, generators, compressors, and other construction related equipment. There are often times when the demand of the job site requires additional or different equipment and it may require additional trips to the shop. These vehicles have exceeded the expected useful life and are in need of replacement to avoid escalating maintenance costs.

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|----------|------|------|
| Total | 2019 | 2020 | 2021 (2) | 2022 | 2023 |
| \$96,300 | - | - | \$96,300 | - | - |

14' DUAL PIVOT HOOK-ALL HOOKLIFT ATTACHMENT

Fund: Capital

Department: Maintenance

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

Description: Funds will be used to purchase a 14' dual pivot Hook-All hooklift attachment for Truck 813.

Justification: Hook-All hooklifts are an easy way to increase utilization of a single-axle truck chassis. Hook-All hooklifts incorporate quick change bodies that convert a single truck into a container, dump or flatbed. Bodies can be quickly switched or left at a jobsite and can be dumped at more than 50". Bodies include a roll off body, a dump body and a chipper body. This attachment allows for greater versatility of the current fleet and could reduce the number of vehicles in the fleet.

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$55,000 | - | - | \$55,000 | - | - |

STIENER 440 ARTICULATING SLOPE MOWER

Fund: Capital

Department: Horticulture & Forrestry

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

Description and Justification: Funds will be used to replace 2016 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. With the addition of Splash Station, Heartland Park and Peruque Park, the City has added a substantial amount of area where staff has to be able to mow slopes of twenty-five degrees or more. Currently Splash Station and Heartland has slopes that are 30 degrees and it takes a specialty mower to mow over 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 to the City: Staff is proposing to purchase a Steiner Model 440 Articulating Mower because it is also a more versatile unit than a traditional mower which is used for one purpose. The unit has the ability to utilize multiple attachments ranging from mowing decks, 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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$25,000 | - | - | - | \$25,000 | - |

BOXER 532DX COMPACT MINI SKID LOADER WITH TRAILER AND ATTACHMENTS

Fund: Capital

Department: Horticulture & Forrestry

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$35,000 | - | - | - | \$35,000 | - |

LED INFORMATIONAL SIGN

Fund: Capital

Department: Maintenance

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

Description and Justification: New transportable LED informational sign for roadway. Current display board was passed down by the Street Department and needs 10 of the 24 panels replaced along with new batteries. Parks inherited two informational signs and was able to save one by using parts from the other informational sign that was slated for GovDeals. Over time, this display board will cost more than its worth, by converting to the new LED informational board will have a more reliable unit. Streets new LED informational sign base price was \$13,556 with additional upgrades of 30amp smart charge \$425, and antitheft battery \$350. Total price was \$14,331.

Anticipated Benefit: The sign will be used for marketing purposes to notify residents of upcoming programs and events taking place as well as a means for professional visual communication.



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$15,000 | - | - | - | - | \$15,000 |

SCAG CHEETAH 61" ZERO-TURN MOWER

Fund: Capital

Department: Horticulture & Forestry

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

Description and Justification: Funds will be used to purchase a replacement Scag Cheetah mid-mount zero-turn mower for the Horticulture and Forestry Division. This zero turn unit has a 60" 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 will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs. The anticipated life cycle for a mower like this in park setting is expected to be around 8 years or 1,800 hours.

Anticipated Benefit: The City will see increased productivity by having the mower in the field versus in the shop being repaired.

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$10,500 | - | - | - | - | \$10,500 |

SCAG CHEETAH 72" ZERO-TURN MOWER

Fund: Capital

Department: Horticulture & Forestry

Project Cost: \$24,000 | **Outside Funding:** \$-0- | **City Cost:** \$24,000

Description and Justification: Funds will be used to purchase two replacement Scag Cheetah mid-mount zero-turn mowers for the Horticulture and Forestry Division. This zero turn unit has a 72" 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 will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs. The anticipated life cycle for a mower like this in park setting is expected to be around 8 years or 1,800 hours.

Anticipated Benefit: The City will see increased productivity by having the mower in the field versus in the shop being repaired.

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 (2) |
| \$24,000 | - | - | - | - | \$24,000 |

16' EQUIPMENT TRAILER

Fund: Capital

Department: Horticulture & Forestry

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|---------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$8,050 | - | - | - | - | \$8,050 |

L.T. RICH Z-MAX SPRAYER

Fund: Capital

Department: Horticulture & Forestry

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

Description and Justification: This equipment will be used for applying liquid and granular fertilization, spraying pre- and post-emergent chemical applications and performing aeration and slit seeding in small areas. This equipment will further increase our efficiency in implementing the lawn care program. Currently the only means of performing these types of applications is with a walk-behind spreader and hand held sprayers. Staff maintains 60+ acres of irrigated turf and walks the most of that to make the necessary applications. The Z-Max carries 50 gallons of liquid and a total of 300 lbs. of fertilizer. With a 4.0 GPM pump and a 60" boom, the Z-Max can spray from 1/4 gallon up to the 1.5 gallons per 1,000 square feet which allows for up to 150,000 square feet of coverage without refilling. This contrasts with the typical granular applicator which hold 50lbs or the 5 gallon hand held pump sprayer. Typical life span for a mower like this in park setting is about 2,000 hours.

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$15,000 | - | - | - | - | \$15,000 |

DEEP TINE AERATOR

Fund: Capital

Department: Horticulture & Forestry

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$18,000 | - | - | - | - | \$18,000 |

JOHN DEERE 997 Z-TRAC MID-MOUNT MOWER

Fund: Capital

Department: Horticulture & Forestry

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

Description and Justification: Funds will be used to purchase a replacement John Deere 997 Z-Trac mid-mount mower for the Horticulture and Forestry Division. This zero turn unit has a 6' 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 will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs. The anticipated life cycle for a mower like this in park setting is expected to be around 5-7 years or 1,800 hours.

Anticipated Benefit: The City will see increased productivity by having the mower in the field versus in the shop being repaired.

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$18,500 | - | - | - | - | \$18,500 |

SUMMER CAMP MOBILE APPLICATION

Fund: Capital

Department: Horticulture & Forestry

Project Cost: \$30,200 | **Outside Funding:** \$-0- | **City Cost:** \$30,200

Description and Justification: Funds will be used to purchase a custom mobile application for Apple and Android tablets/phones for the Summer Camp Program. The mobile application provides Wentzville Parks and Recreation staff the ability to securely track camper registrations and pertinent camper information (example: photograph, medical information, emergency contact information, and release contact information), the ability to check campers in and out through a digital camp roster system, the ability to administer individual camp program details in parental/camper app (example: daily activities, field trips, upcoming activities, staff bios and photographs, and weekly app themes). The mobile application provides parents/campers the ability to securely provide information on camper to be accessed by staff members, the ability to view camp details in a "My Day" format (example, daily activities, field trips, upcoming activities, and essential parent communications), the ability to view camp staff bios and photographs, and the ability to communicate with camp staff.

The following is the fee summary:

Phase 1: Application Planning and Software Requirements Specification- \$2,500

Phase 2: Design Mockup – \$2,200

Phase 3: Application Development – \$12,000

Phase 4: Testing and Deployment – \$1,000

Phase 5: Documentation and Training – \$0

Application Web Service Hosting (per year) – \$500

Anticipated Benefit: This application will be used as a way to communicate with families that are enrolled in the summer camp programs. This will allow the Parks Department to send the parent a report of how their child's day was at camp, pictures of their child participating in the program, who is authorized to pick up the child from camp and a way to sign the child in and out of camp.

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$29,700 | - | - | - | - | \$29,700 |

HOLIDAY LIGHTS DISPLAY

Fund: Capital

Department: Recreation

Location: Rotary Park

Project Cost: \$80,300 | **Outside Funding:** \$-0- | **City Cost:** \$80,300

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$80,300 | \$13,500 | \$17,800 | \$16,000 | \$16,500 | \$16,500 |

Public Works

PUBLIC WORKS

| PROJECT | | | | | | | | |
|-----------------|--|-----------|-----------|-----------|---------|---------|---------|-----------------|
| Department | Description | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| PW - Stormwater | 1100 – 1101 Ironhorse Ct. | - | 61,000 | - | - | - | - | 61,000 |
| PW - Stormwater | Norwood Lane | 50,000 | 200,000 | - | - | - | - | 200,000 |
| PW – Admin | Public Works Facility (60% Funding Contribution) | 800,000 | 500,000 | 1,608,000 | - | - | - | 2,108,000 |
| PW - Admin | General Land Acquisition | 400,000 | 400,000 | 400,000 | 400,000 | 400,000 | 400,000 | 2,000,000 |
| PW – Stormwater | Stormwater Maintenance Reserve | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 500,000 |
| TOTAL | | 1,350,000 | 1,261,000 | 2,108,000 | 500,000 | 500,000 | 500,000 | 4,869,000 |

| EQUIPMENT | | | | | | | | |
|--------------------|---|--|---------|---------|---------|--------|---------|-----------------|
| Department | Description | | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| PW – Fleet | A/C Refrigerant Recovery Recycling Unit | | 6,000 | - | - | - | - | 6,000 |
| PW – Street Sign. | One-Ton Dump Truck w/Plow and Spreader | | 90,000 | 92,000 | 94,000 | - | - | 276,000 |
| PW – Engineering | 1/2-Ton 4X4 Pickup Truck | | 32,000 | 33,000 | 70,000 | - | - | 135,000 |
| PW | 3/4-Ton 4x4 Pickup Truck | | 34,000 | 37,000 | - | - | - | 71,000 |
| PW – Fleet | 3/4-Ton 4x4 Service Truck | | - | 51,000 | - | - | - | 51,000 |
| PW – Stwtr./Eng. | Colorado Crew Cab 4x4 | | - | - | 34,000 | - | 34,000 | 68,000 |
| 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 – Facility Op. | HVAC Maintenance Van | | - | - | - | 41,000 | - | 41,000 |
| PW – Street Sign. | Concrete Saw | | - | - | - | 34,000 | - | 34,000 |
| PW – Street Sign. | Hydraulic Concrete Breaker | | - | - | - | 13,000 | - | 13,000 |
| PW – Street Sign. | High Lift Track Loader | | - | - | - | - | 250,000 | 250,000 |
| PW – Stwtr./Strts. | Equipment Trailer (2) | | - | - | - | - | 16,000 | 16,000 |
| TOTAL | | | 162,000 | 228,000 | 198,000 | 88,000 | 300,000 | 976,000 |

PUBLIC WORKS

| TOTAL PROJECTS AND EQUIPMENT | | | | | | | |
|------------------------------|-----------|-----------|-----------|---------|---------|---------|-----------------|
| | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| TOTAL | 1,350,000 | 1,423,000 | 2,336,000 | 698,000 | 588,000 | 800,000 | 5,845,000 |

| FUNDING SOURCE | | | | | | | |
|----------------|-----------|-----------|-----------|---------|---------|---------|-----------|
| Source | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| Capital Fund | 1,350,000 | 1,423,000 | 2,336,000 | 698,000 | 588,000 | 800,000 | 5,845,000 |
| TOTAL | 1,350,000 | 1,423,000 | 2,336,000 | 698,000 | 588,000 | 800,000 | 5,845,000 |

1100 – 1101 IRONHORSE CT.

Fund: Capital

Department: Public Works – Stormwater

Location: Ironhorse Ct.

Project Cost: \$61,000 | **Outside Funding:** \$-0- | **City Cost:** \$61,000

Description and Justification: Install two storm drains and 400’ of 18” reinforced concrete pipe to collect and divert significant offsite drainage in areas to prevent structural flooding. This concern was not apparent until homes were constructed in the last two years.

Anticipated Benefit: Decreased resident concerns and improved stormwater management in an area at risk of structural flooding.



| FUNDING SCHEDULE | | | | | |
|------------------|----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$61,000 | \$61,000 | - | - | - | |

NORWOOD LANE

Fund: Capital

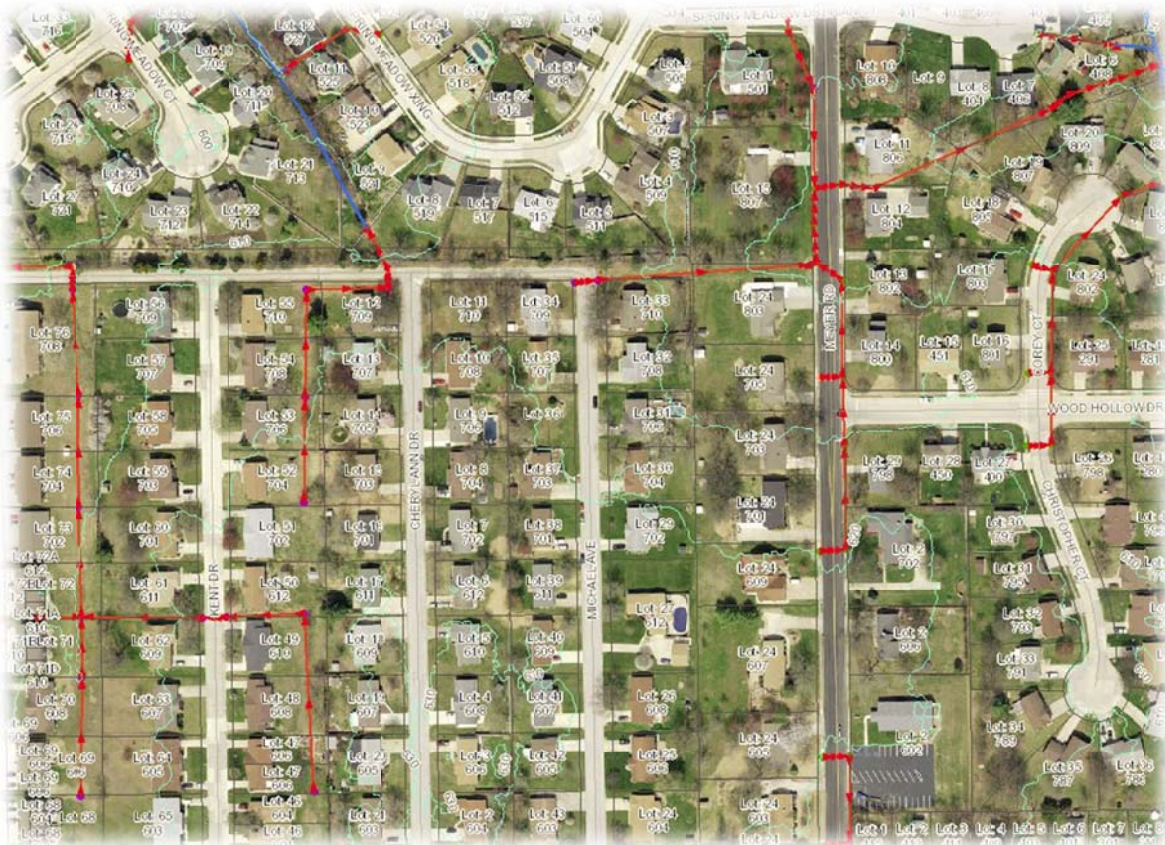
Department: Public Works – Stormwater

Location: Norwood Lane

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

Description and Justification: Expand stormwater storage and flood control in some historic downtown areas; flow through yards in Spring Meadows, W. Meyer and behind Brian Ct. and ponding on Norwood Lane near grate inlets has caused concerns from multiple property owners over the last 10 years. Regional detention project could be coordinated with future slab replacement projects for cost efficiency.

Anticipated Benefit: Decreased resident concerns and improved stormwater management in an area at risk of structural flooding.



| FUNDING SCHEDULE | | | | | | |
|------------------|----------|-----------|------|------|------|------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$250,000 | \$50,000 | \$200,000 | - | - | - | - |

PUBLIC WORKS FACILITY

Fund: Capital, Transportation, Water

Department: Public Works – Administration

Location: TBD

Project Cost: \$3,980,000 | **Outside Funding:** \$-0- | **City Cost:** \$3,980,000

Capital Fund - \$2,908,000

Transportation Fund 20% - \$536,000

Water Fund 20% - \$536,000

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

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



| FUNDING SCHEDULE | | | | | | |
|------------------|-----------|-----------|-------------|------|------|------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$3,980,000 | \$800,000 | \$500,000 | \$2,680,000 | - | - | - |

GENERAL LAND ACQUISITION

Fund: Capital

Department: Citywide

Location: TBD

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

Description and Justification: These funds will be earmarked to allow for future land acquisitions for parks, City facilities, development or any other public purpose. 2017, 2018 and 2019 funds will be used to acquire land for the new Public Works Facility, schedule for design in 2019 and construction in 2020.

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

| FUNDING SCHEDULE | | | | | | |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$2,000,000 | \$800,000 | \$400,000 | \$400,000 | \$400,000 | \$400,000 | \$400,000 |

STORMWATER MAINTENANCE RESERVE

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

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

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

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

| FUNDING SCHEDULE | | | | | | |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$500,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 |

A/C REFRIGERANT RECOVERY RECYCLING UNIT

Fund: Capital

Department: Public Works – Fleet

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

Description and Description: Refrigerant 134A is being phased out in the near future for use in vehicles. This new unit will allow the Fleet Department to recover and/or recycle R134A refrigerant until total market removal, as well as new R1234yf refrigerant.

Anticipated Benefit: Remove and recover the new, more environmentally friendly refrigerant as well as the older refrigerant until vehicles are phased out.

| FUNDING SCHEDULE | | | | | |
|------------------|---------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$6,000 | \$6,000 | - | - | - | - |

ONE-TON DUMP TRUCK WITH PLOW AND SPREADER

Fund: Capital

Department: Public Works – Stormwater and Streets and Signals

Location: Street Division

Project Cost: \$276,000 | **Outside Funding:** \$-0- | **City Cost:** \$276,000

Description and Justification: Purchase of a one-ton dump truck with plow and spreader. Replacement trucks (#308, #316 and #317) for outdated models with high maintenance costs due to age and use. Addition of new one ton outfitted with plow and spreader for proposed Stormwater personnel in 2020.

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

| FUNDING SCHEDULE | | | | | |
|------------------|----------|----------|----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$276,000 | \$90,000 | \$92,000 | \$94,000 | - | - |

VEHICLES

Fund: Capital

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

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

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

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

| 1/2-TON 4x4 PICKUP TRUCK (Engineering) | | | | | |
|--|----------|----------|----------|------|------|
| FUNDING SCHEDULE | | | | | |
| Total | 2019 | 2020 | 2021 (2) | 2022 | 2023 |
| \$135,000 | \$32,000 | \$33,000 | \$70,000 | - | - |

| 3/4-TON 4x4 PICKUP TRUCK | | | | | |
|--------------------------|----------|----------|------|------|------|
| FUNDING SCHEDULE | | | | | |
| Total - \$71,000 | 2019 | 2020 | 2021 | 2022 | 2023 |
| Stormwater | \$34,000 | - | - | - | - |
| Facility Operations | - | \$37,000 | - | - | - |

| 3/4-TON 4x4 SERVICE TRUCK (Fleet) | | | | | |
|-----------------------------------|------|----------|------|------|------|
| FUNDING SCHEDULE | | | | | |
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$51,000 | - | \$51,000 | - | - | - |

| COLORADO CREW CAB 4x4 | | | | | |
|-----------------------|------|------|----------|------|----------|
| FUNDING SCHEDULE | | | | | |
| Total - \$34,000 | 2019 | 2020 | 2021 | 2022 | 2023 |
| Engineering | - | - | \$34,000 | - | - |
| Stormwater | - | - | - | - | \$34,000 |

DROP SPREADER FOR COMPACT UTILITY TRACTOR

Fund: Capital

Department: Public Works – Facility Operations

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

Description: Drop spreader attachment for the compact utility tractor.

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|---------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$6,500 | - | \$6,500 | - | - | - |

PICKUP SALT V SPREADER

Fund: Capital

Department: Public Works – Facility Operations

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 less-expensive 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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$8,500 | - | \$8,500 | - | - | - |

HVAC MAINTENANCE VAN

Fund: Capital

Department: Public Works – Facility Operations

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$41,000 | - | - | - | \$41,000 | - |

CONCRETE SAW

Fund: Capital

Department: Public Works – Streets & Signals

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$34,000 | - | - | - | \$34,000 | - |

HYDRAULIC CONCRETE BREAKER

Fund: Capital

Department: Public Works – Streets & Signals

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$13,000 | - | - | - | \$13,000 | - |

HIGH LIFT TRACK LOADER

Fund: Capital

Department: Public Works – Streets & Signals

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|-----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2022 |
| \$250,000 | - | - | - | - | \$250,000 |

EQUIPMENT TRAILER

Fund: Capital

Department: Public Works – Stormwater and Streets and Signals

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

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 (2) |
| \$16,000 | - | - | - | - | \$16,000 |

Transportation

TRANSPORTATION

| PROJECT | | | | | | | | |
|---|--|------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|
| Department | Description | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Transp. – Admin | Great Oaks Blvd. Design | - | 180,000 | - | - | - | - | 180,000 |
| Transp. – Admin | Wentzville Parkway Turn Lane – Phase II | 375,000 | 2,260,000 | - | - | - | - | 2,260,000 |
| Transp. – Admin | West Meyer Road – Phase III | 300,000 | 5,007,500 | - | - | - | - | 5,007,500 |
| Transp. – Admin | Peine Road Safety Improvements | - | 156,000 | 161,000 | 1,983,000 | - | - | 2,300,000 |
| Transp. – Admin | West Pearce Blvd. and Meyer Rd. Traffic Signal | - | 88,000 | 60,000 | 552,000 | - | - | 700,000 |
| Transp. – Admin | Wentzville Parkway South - Phase I | 4,000,000 | 360,967 | 145,000 | 4,394,033 | - | - | 4,900,000 |
| Transp. – Admin | Wentzville Parkway South - Phase II | - | 969,000 | - | 310,000 | 8,721,000 | - | 10,000,000 |
| Transp. – Admin | Wentzville Parkway South - Phase 2A | - | 762,000 | - | - | - | - | 762,000 |
| Transp. – Admin | Historic Downtown Revitalization – Pearce/Allen Corridor | 250,000 | 500,000 | 500,000 | 500,000 | 750,000 | 750,000 | 3,000,000 |
| Transp. – Admin | Historic Downtown Revitalization – Main/Pearce/Meyer/Pitman Corridor | 250,000 | 500,000 | 500,000 | 500,000 | 750,000 | 750,000 | 3,000,000 |
| Transp. – Admin | David Hoekel Parkway Phase 2ABC | 1,695,000 | 7,085,000 | 16,230,000 | - | - | - | 23,315,000 |
| Transp. – Admin | David Hoekel Parkway Phase 2D | - | - | 500,000 | - | 5,000,000 | - | 5,500,000 |
| Transp. – Admin | Public Works Facility (20% Funding Contribution) | - | - | 536,000 | - | - | - | 536,000 |
| Transp. – Admin | West Pearce Blvd. – May Road to Goodfellow Asphalt Overlay | - | - | - | 70,000 | 630,000 | - | 700,000 |
| Transp. – Admin | Highway Z/I-70 Interchange Improvements | - | - | - | - | - | 500,000 | 500,000 |
| Transp.–Streets | Contracted Street and Sidewalk Maintenance | 2,400,000 | 2,800,000 | 2,800,000 | 2,800,000 | 2,800,000 | 2,800,000 | 14,000,000 |
| Transportation Funded Equipment: | | | | | | | | |
| Transp.–Streets | Sweeper | - | 324,000 | - | - | - | - | 324,000 |
| Transp.–Streets | Single-Axle Dump Truck w/Plow and Spreader | - | 153,000 | 160,000 | 165,000 | 170,000 | - | 648,000 |
| Transp.–Streets | Backhoe | - | 55,760 | - | - | 140,000 | - | 195,760 |
| Transp.–Streets | Tandem-Axle Dump Truck w/Plow and Spreader | - | - | - | 190,000 | - | - | 190,000 |
| TOTAL | | 9,270,000 | 21,201,227 | 21,592,000 | 11,464,033 | 18,961,000 | 4,800,000 | 78,018,260 |

TRANSPORTATION

| EQUIPMENT | | | | | | | | |
|-------------------|---------------------------------|--|--------|--------|---------|--------|---------|-----------------|
| Department | Description | | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Transp. – Streets | LED Information Sign | | 17,000 | 17,500 | 18,000 | 18,500 | - | 71,000 |
| Transp. – Streets | Vibratory Roller | | - | 50,000 | - | - | - | 50,000 |
| Transp. – Streets | Skid Steer Loader | | - | - | 63,000 | - | - | 63,000 |
| Transp. – Streets | Crack-Sealer Machine | | - | - | 60,000 | - | - | 60,000 |
| Transp. – Streets | Tractor with ROW Mowing Arm | | - | - | 145,000 | - | 155,000 | 300,000 |
| Transp. – Streets | ROW Brush Hog | | - | - | - | - | 25,000 | 25,000 |
| Transp. – Streets | Track Skid Loader | | - | - | - | - | 70,000 | 70,000 |
| Transp. – Streets | Traffic Signal Detection Camera | | - | - | - | - | 30,000 | 30,000 |
| TOTAL | | | 17,000 | 67,500 | 286,000 | 18,500 | 280,000 | 669,000 |

| TOTAL PROJECTS AND EQUIPMENT | | | | | | | |
|------------------------------|-----------|------------|------------|------------|------------|-----------|--------------------|
| | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| TOTAL | 9,270,000 | 21,218,227 | 21,659,500 | 11,750,033 | 18,979,500 | 5,080,000 | 78,687,260 |

TRANSPORTATION

| FUNDING SOURCE | | | | | | | |
|-------------------------------|-----------|------------|------------|------------|------------|-----------|------------|
| Source | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| Capital Fund | - | 17,000 | 67,500 | 286,000 | 18,500 | 280,000 | 669,000 |
| Transportation Fund | 4,137,400 | 6,066,350 | 6,816,500 | 6,056,410 | 7,084,200 | 4,800,000 | 30,823,460 |
| St. Charles County Cost Share | 4,945,600 | 11,098,490 | 7,187,500 | 3,374,010 | 11,376,800 | - | 33,036,800 |
| STP Funding | 187,000 | 1,130,000 | - | - | - | - | 1,130,000 |
| MoDOT Cost Share | - | 2,500,000 | 2,500,000 | - | - | - | 5,000,000 |
| East-West Gateway TAP Funding | - | - | - | - | 500,000 | - | 500,000 |
| CMAQ through EWGCOCG | - | 188,387 | 88,000 | 2,033,613 | - | - | 2,310,000 |
| Private Developer | - | 218,000 | - | - | - | - | 218,000 |
| MoDOT Loan | - | - | 5,000,000 | - | - | - | 5,000,000 |
| TOTAL | 9,270,000 | 21,218,227 | 21,659,500 | 11,750,033 | 18,979,500 | 5,080,000 | 78,687,260 |

GREAT OAKS BLVD. EXTENSION DESIGN

Fund: Transportation

Department: Administration

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

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

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

Anticipated Benefit: Improved safety and access for residents and emergency services into the City.



| FUNDING SCHEDULE | | | | | |
|------------------|-----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$180,000 | \$180,000 | - | - | - | - |

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 | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$2,841,000 | \$581,000 | \$2,260,000 | - | - | - | - |
| Federal STP | \$290,000 | \$1,130,000 | - | - | - | - |
| County | \$232,000 | \$904,000 | - | - | - | - |

WEST MEYER ROAD – PHASE III

Fund: Transportation

Department: Administration

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

Project Cost: \$5,842,700 | **Outside Funding:** \$4,674,200 | **City Cost:** \$1,168,500

Planning and Engineering - \$535,200

Pre-Construction - \$300,000

Construction - \$5,007,500

Cost Share with St. Charles County (80/20) - \$4,674,200

Description: Complete reconstruction of West Meyer Road from North Point Prairie Road to City constructed bridge west of Rotary Park. Application for additional Federal funding assistance will be completed in spring of 2017 to reduce the overall fiscal impact to both the City and County. The participation percentage will be evaluated to provide the most competitive project possible.

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

| | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
|----------------------|-----------|-------------|------|------|------|------|
| Total \$5,842,700 | \$835,200 | \$5,007,500 | - | - | - | - |
| County | \$668,200 | \$4,006,000 | - | - | - | - |

PEINE ROAD SAFETY IMPROVEMENTS

Fund: Transportation

Department: Administration

Location: Peine Road from Somerset Manor Drive to Highway 61

Project Cost: \$2,300,000 | **Outside Funding:** \$1,840,000 | **City Cost:** \$460,000

Planning/Engineering - \$156,000

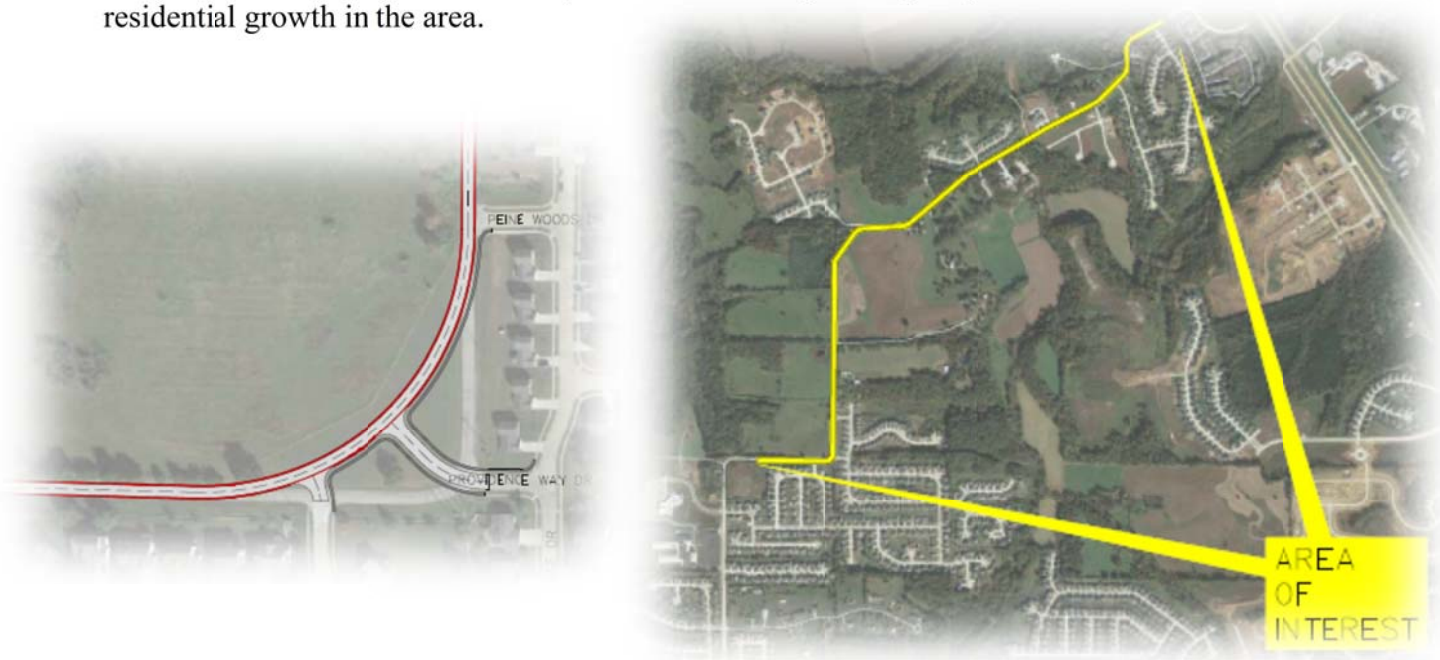
Pre-Construction - \$161,000

Construction - \$1,983,000

St. Charles County (80/20) - \$1,840,000

Description and Justification: This application provides funds to add 3-foot shoulders and overlay Peine Road. The project will also eliminate a 90-degree curve currently between Peine Woods Drive and Stewart Springs Drive. The curve will be softened and re-aligned to the Northwest through City owned property. This project will look to address safety conditions in advance of increased traffic volume anticipated with a completed Peine/P Interchange as well as renewed development interest along the Peine Road corridor.

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



| FUNDING SCHEDULE | | | | | |
|--------------------|-----------|-----------|-------------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$2,300,000 | \$156,000 | \$161,000 | \$1,983,000 | - | - |
| St. Charles County | \$124,000 | \$129,000 | \$1,587,000 | - | - |

WEST PEARCE BLVD. AND MEYER ROAD TRAFFIC SIGNAL

Fund: Transportation

Department: Administration

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

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

Planning/Engineering - \$88,000

Pre-Construction - \$60,000

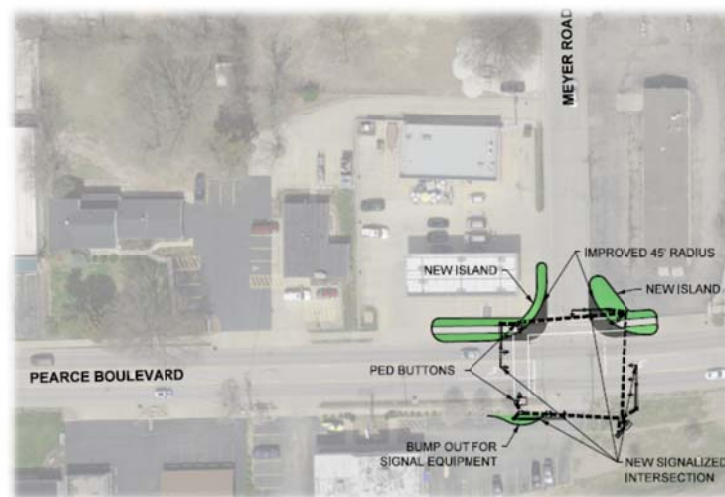
Construction - \$552,000

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

CMAQ (50/50) - \$350,000

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

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



| FUNDING SCHEDULE | | | | | |
|--------------------|----------|----------|-----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$700,000 | \$88,000 | \$60,000 | \$552,000 | - | - |
| St. Charles County | \$35,200 | \$24,000 | \$220,800 | - | - |
| CMAQ | \$44,000 | \$30,000 | \$276,000 | | |

WENTZVILLE PARKWAY SOUTH – PHASE I

Fund: Transportation

Department: Administration

Location: Wentzville Parkway and Veteran's Memorial Parkway

Project Cost: \$5,670,000 | **Outside Funding:** \$4,046,000 | **City Cost:** \$1,624,000

Planning/Engineering - \$360,967

Pre-Construction - \$915,000

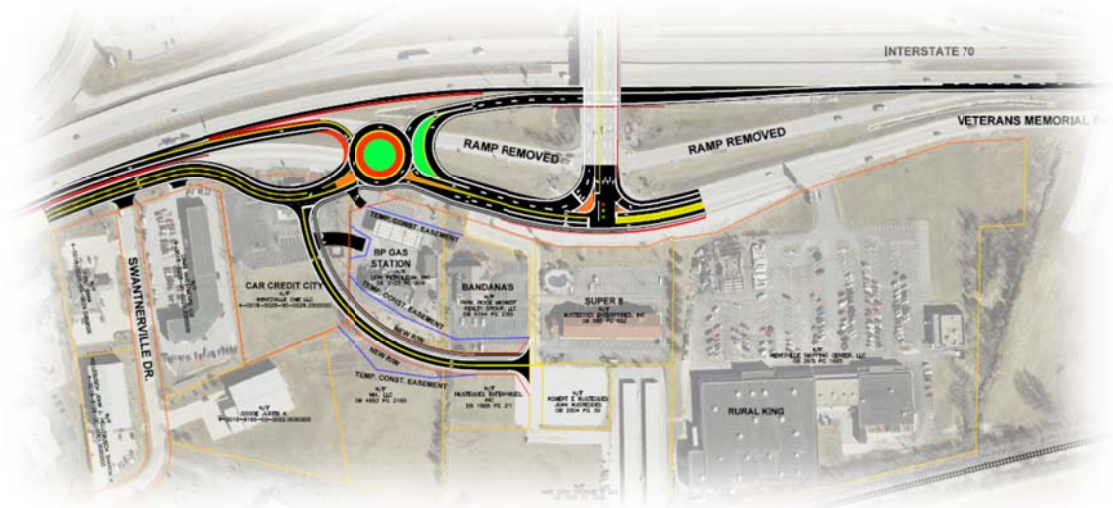
Construction - \$4,394,033

St. Charles County (30/70) - \$1,470,000

CMAQ (40/60) - \$1,960,000

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

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



| FUNDING SCHEDULE | | | | | | |
|--------------------|-----------|-----------|-----------|-------------|------|------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$5,670,000 | \$770,000 | \$360,967 | \$145,000 | \$4,394,033 | - | - |
| St. Charles County | \$616,000 | \$108,290 | \$43,500 | \$1,318,210 | - | - |
| CMAQ | - | \$144,387 | \$58,000 | \$1,757,613 | - | - |

WENTZVILLE PARKWAY SOUTH – PHASE II

Fund: Transportation

Department: Administration

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

Project Cost: \$12,800,000 | **Outside Funding:** \$10,239,800 | **City Cost:** \$2,560,200

Planning/Engineering - \$969,000

Pre-Construction - \$310,000

Construction - \$8,721,000

St. Charles County (80/20) - \$10,239,800

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

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



| FUNDING SCHEDULE | | | | | | |
|--------------------|-------------|-----------|------|-----------|-------------|------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$12,800,000 | \$2,800,000 | \$969,000 | - | \$310,000 | \$8,721,000 | - |
| St. Charles County | \$2,240,000 | \$775,000 | - | \$248,000 | \$6,976,800 | - |

WENTZVILLE PARKWAY SOUTH – PHASE 2A

Fund: Transportation

Department: Administration

Location: Interstate Drive to 1,200' South

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

Planning/Engineering - \$50,560

Pre-Construction - \$25,000

Construction - \$686,440

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

Private Developer - \$218,000

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

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



| FUNDING SCHEDULE | | | | | |
|--------------------|-----------|------|------|------|------|
| Total \$762,000 | 2019 | 2020 | 2021 | 2022 | 2023 |
| | \$762,000 | - | - | - | - |
| St. Charles County | \$326,000 | - | - | - | - |
| Private Developer | \$218,000 | - | - | - | - |

HISTORIC DOWNTOWN REVITALIZATION – PEARCE/ALLEN CORRIDOR

Fund: Transportation

Department: Administration

Location: Historic Downtown

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

Pre-Construction - \$500,000

Construction - \$2,500,000

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

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



| FUNDING SCHEDULE | | | | | | |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$3,000,000 | \$250,000 | \$500,000 | \$500,000 | \$500,000 | \$750,000 | \$750,000 |

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

Fund: Transportation

Department: Administration

Location: Historic Downtown

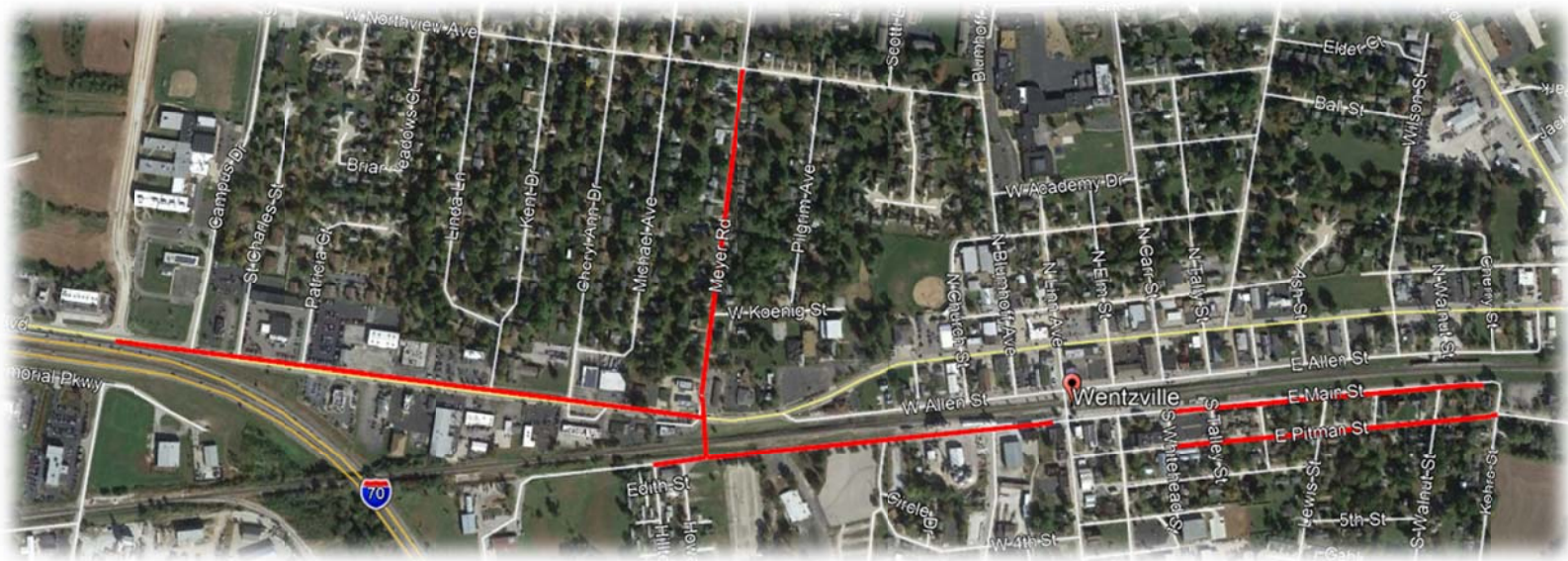
Project Cost: \$3,000,000 | **Outside Funding:** \$-0- | **City Cost:** \$3,000,000

Pre-Construction - \$250,000

Construction - \$2,750,000

Description and Justification: Intersection improvements at W. Pearce and Meyer Road to include review of new at-grade railroad crossing to connect with Main Street via traffic signal or roundabout. This project may be eligible for partial CMAQ and/or Road Board funding and may require closure of lower quality at-grade railroad crossings at Hepperman and/or Wilmer Road after Wentzville Parkway South Extension is complete. This project pairs well with Mar Lee Drive redevelopment and future development of undeveloped parcels south of Pitman with potential for interstate access improvements at Pitman and Luetkenhaus under Envision I-70 planning by MoDOT. This cost estimate is for roundabout option at Meyer. There would be ROW and construction cost savings if constructed as traffic signal. Resurfacing work on Pearce to Schroeder Creek Blvd. may also be eligible for STP funding.

Anticipated Benefit: Improved accessibility, increased ADT and expanded parking and economic development opportunity for the Historic Downtown.



| FUNDING SCHEDULE | | | | | | |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$3,000,000 | \$250,000 | \$500,000 | \$500,000 | \$500,000 | \$750,000 | \$750,000 |

DAVID HOEKEL PARKWAY – PHASE 2ABC

Fund: Transportation

Department: Administration

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

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

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

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

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

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

MoDOT Cost Share - \$5,000,000

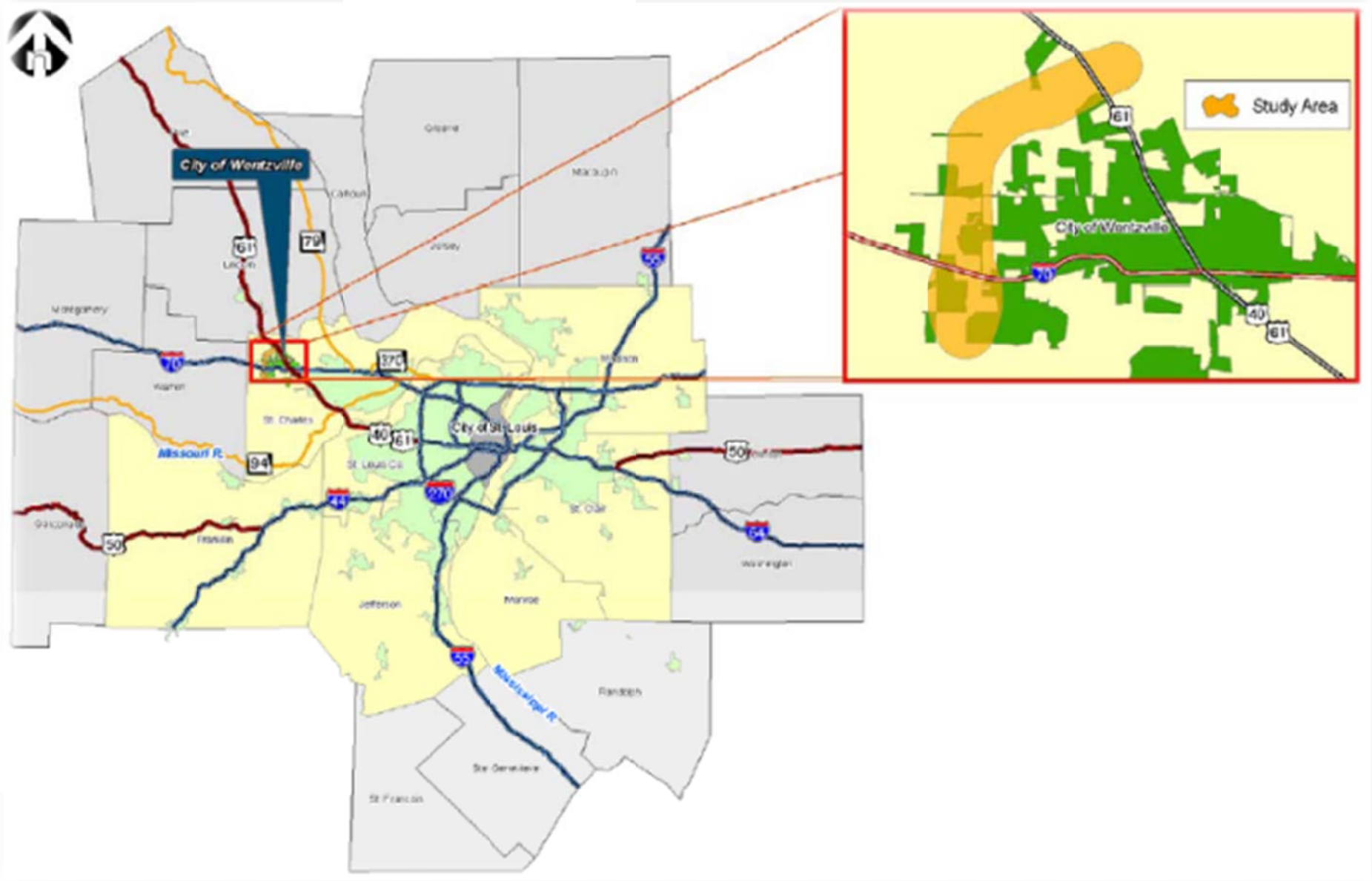
MoDOT Loan - \$5,000,000

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

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

| FUNDING SCHEDULE | | | | | | |
|------------------|--------------|----------------------|----------------------|------|------|------|
| | | DHP 2A and DHP 2B | DHP 2B and DHP 2C | | | |
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$25,010,000 | \$ 1,695,000 | \$7,085,000 | \$16,230,000 | - | - | - |
| County | \$ 1,356,000 | \$4,820,000 | \$6,591,000 | - | - | - |
| MoDOT Cost Share | - | \$2,500,000 | \$2,500,000 | - | - | - |
| MoDOT Loan | - | - | \$5,000,000 | - | - | - |

DAVID HOEKEL PARKWAY – PHASE 2ABC



DAVID HOEKEL PARKWAY – PHASE 2D

Fund: Transportation

Department: Administration

Location: David Hoekel Parkway between Goodfellow Road and West Meyer

Project Cost: \$5,500,000 | **Outside Funding:** \$4,400,000 | **City Cost:** \$1,100,000

Planning and Engineering (2020) - \$500,000

Construction (2022) – \$5,000,000

Cost Share with St. Charles County (80/20) - \$4,400,000

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|-----------|------|-------------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$5,500,000 | - | \$500,000 | - | \$5,000,000 | - |
| County | - | \$400,000 | - | \$4,400,000 | - |

PUBLIC WORKS FACILITY

Fund: Capital, Transportation, Water

Department: Public Works – Administration

Location: TBD

Project Cost: \$3,980,000 | **Outside Funding:** \$-0- | **City Cost:** \$3,980,000

Capital Fund - \$2,908,000

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

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

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

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



| FUNDING SCHEDULE | | | | | | |
|------------------|-----------|-----------|-------------|------|------|------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$3,980,000 | \$800,000 | \$500,000 | \$2,680,000 | - | - | - |

WEST PEARCE BLVD. – MAY ROAD TO GOODFELLOW ASPHALT OVERLAY

Fund: Transportation

Department: Streets

Location: West Pearce Boulevard

Project Cost: \$700,000 | **Outside Funding:** \$500,000 | **City Cost:** \$200,000
East West Gateway - \$500,000

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|----------|-----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$700,000 | - | - | \$70,000 | \$630,000 | - |
| Outside Funding | - | - | - | \$500,000 | - |

HIGHWAY Z/I-70 INTERCHANGE IMPROVEMENTS

Fund: Transportation

Department: Administration

Location: I-70 Highway Z Interchange from Wagner to Interstate Drive

Project Cost: \$6,000,000 | **Outside Funding:** \$4,000,000 | **City Cost:** \$2,000,000

Planning and Engineering - \$500,000

Pre-Construction - \$100,000 (2024)

Construction - \$5,400,000 (2025)

Congestion Mitigation Air Quality (CMAQ) funding administered through EWGCOCG - \$2,000,000

St. Charles County - \$2,000,000

Description and Justification: Complete design and construction of improvements to alleviate congestion and delay as well as improve safety and access.

Anticipated Benefit: Improved access into the City for both residents and visitors, overall improvement in safety and reduction in delay and congestion.



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|-----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$500,000 | - | - | - | - | \$500,000 |

CONTRACTED STREET AND SIDEWALK MAINTENANCE – ASPHALT AND CONCRETE REPLACEMENT

Fund: Transportation

Department: Streets

Location: Citywide

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|-------------|-------------|-------------|-------------|-------------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$14,000,000 | \$2,800,000 | \$2,800,000 | \$2,800,000 | \$2,800,000 | \$2,800,000 |

SWEEPER

Fund: Transportation

Department: Streets and Stormwater

Project Cost: \$324,000 | **Outside Funding:** \$-0- | **City Cost:** \$324,000

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 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. Street sweeping is an integral part of compliance with the City's MS4 stormwater permit.

| FUNDING SCHEDULE | | | | | |
|------------------|-----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$324,000 | \$324,000 | - | - | - | - |

SINGLE-AXLE DUMP TRUCK WITH PLOW AND SPREADER

Fund: Transportation

Department: Transportation – Streets

Project Cost: \$648,000 | **Outside Funding:** \$-0- | **City Cost:** \$648,000

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|-----------|-----------|-----------|-----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$648,000 | \$153,000 | \$160,000 | \$165,000 | \$170,000 | - |

BACKHOE

Fund: Transportation

Department: Transportation – Streets

Project Cost: \$195,760 | **Outside Funding:** \$-0- | **City Cost:** \$195,760

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

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

| FUNDING SCHEDULE | | | | | |
|---|-----------|------|------|-------------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$195,760 | \$55,760* | | - | \$140,000** | - |
| * Lease payoff of 5-year leased machine | | | | | |
| **Purchase of new machine | | | | | |

TANDEM-AXLE DUMP TRUCK WITH PLOW AND SPREADER

Fund: Transportation

Department: Transportation – Streets

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

Description and Justification: Tandem-axle dump truck with plow and spreader. This dump truck will replace an outdated 2007 model that exhibits considerable wear and tear, and is accompanied by high maintenance costs due to age and use. Dump truck is a material hauler and snow plow vehicle, which is considered heavy duty.

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|-----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$190,000 | - | - | \$190,000 | - | - |

LED INFORMATION SIGN

Fund: Capital

Department: Transportation – Streets

Project Cost: \$71,000 | **Outside Funding:** \$-0- | **City Cost:** \$71,000

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|----------|----------|----------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$71,000 | \$17,000 | \$17,500 | \$18,000 | \$18,500 | - |

VIBRATORY ROLLER

Fund: Capital

Department: Transportation – Streets

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

Description: Purchase of a vibratory roller.

Justification: Replacement of an outdated 2002 model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by high-maintenance costs due to age and use.

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|----------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$50,000 | - | \$50,000 | - | - | - |

SKID-STEER LOADER

Fund: Capital

Department: Transportation – Streets

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$63,000 | - | - | \$63,000 | - | - |

CRACK-SEALER MACHINE

Fund: Capital

Department: Transportation – Streets

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$60,000 | - | - | \$60,000 | - | - |

TRACTOR WITH ROW MOWING ARM

Fund: Capital

Department: Transportation – Streets

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

Description: Purchase of a tractor with ROW mowing arm.

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|-----------|------|-----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$300,000 | - | | \$145,000 | - | \$155,000 |

ROW BRUSH HOG

Fund: Capital

Department: Transportation – Streets

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$25,000 | - | - | - | - | \$25,000 |

TRACK SKID LOADER

Fund: Capital

Department: Transportation – Streets

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

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

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$70,000 | - | - | - | - | \$70,000 |

TRAFFIC SIGNAL DETECTION CAMERA

Fund: Capital

Department: Transportation – Streets

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

Description and Justification: Replace an outdated traffic signal detection system that has been in service for more than 15 years and exhibits considerable reliability issues due to wear and tear.

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

| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$30,000 | - | - | - | - | \$30,000 |

Water

WATER

| PROJECT | | | | | | | |
|--------------------------------|---|-----------|-----------|---------|---------|-----------|-----------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Water | 802 E. Pearce Roof Replacement | 17,000 | - | - | - | - | 17,000 |
| Water | Tower #1 Coating Interior and Exterior and Extend Fill Line | 550,000 | - | - | - | - | 550,000 |
| Water | 2 MG GM Ground Storage Tank Coating Interior | - | 270,000 | - | - | - | 270,000 |
| Water | Public Works Facility (20% Funding Contribution) | - | 536,000 | - | - | - | 536,000 |
| Water | Coating Interior and Exterior of Tower #4 | - | - | 300,000 | - | - | 300,000 |
| Water | 2-MG Water Storage Tank | - | - | - | - | 400,000 | 400,000 |
| Water | East Booster Pump Station Above Ground Rebuild | - | - | - | - | 500,000 | 500,000 |
| Water | Waterline Extensions and Replacement | 970,000 | 730,000 | - | 450,000 | 300,000 | 2,450,000 |
| Water Funded Equipment: | | | | | | | |
| Water | Metrotech vLoc/9800 Locator | 5,200 | - | - | - | 5,500 | 10,700 |
| Water | Orion Meter Reading System | 18,000 | - | - | - | - | 18,000 |
| Water | Trackhoe | - | - | - | 180,000 | - | 180,000 |
| Water | Electro-Fusion Processor | - | - | - | 10,000 | - | 10,000 |
| TOTAL | | 1,560,200 | 1,536,000 | 300,000 | 640,000 | 1,205,500 | 5,241,700 |

WATER

| EQUIPMENT | | | | | | | |
|------------|--|---------|--------|--------|--------|--------|-----------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Water | 3/4-Ton 4x4 Pickup Truck | 76,000 | 80,000 | - | - | - | 156,000 |
| Water | Skid Loader | 65,000 | - | - | - | - | 65,000 |
| Water | Rotary Cutter | 15,000 | - | - | - | - | 15,000 |
| Water | Tandem-Axle Dump Truck w/Snow Removal Set-Up | 178,000 | - | - | - | - | 178,000 |
| Water | Hydraulic Hammer | - | - | 15,000 | - | - | 15,000 |
| Water | Box Truck | - | - | - | 65,000 | - | 65,000 |
| Water | 20' Mac Lander Trailer | - | - | - | - | 20,000 | 20,000 |
| TOTAL | | 334,000 | 80,000 | 15,000 | 65,000 | 20,000 | 514,000 |

| TOTAL PROJECTS AND EQUIPMENT | | | | | | |
|------------------------------|-----------|-----------|---------|---------|-----------|--------------------|
| | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| TOTAL | 1,894,200 | 1,616,000 | 315,000 | 705,000 | 1,225,500 | 5,755,700 |

| FUNDING SOURCE | | | | | | |
|----------------|-----------|-----------|---------|---------|-----------|--------------------|
| | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Capital Fund | 334,000 | 80,000 | 15,000 | 65,000 | 20,000 | 514,000 |
| Water Fund | 1,560,200 | 1,536,000 | 300,000 | 640,000 | 1,205,500 | 5,241,700 |
| TOTAL | 1,894,200 | 1,616,000 | 315,000 | 705,000 | 1,225,500 | 5,755,700 |

802 E. PEARCE ROOF REPLACEMENT

Fund: Water and Wastewater

Department: Water

Location: 802 E. Pearce

Project Cost: \$26,000 | **Outside Funding:** \$-0- | **City Cost:** \$26,000

Water Fund - \$17,000

Wastewater Fund - \$9,000

Description and Justification: The building roof at 802 E. Pearce Blvd. is leaking in the location where the City's SCADA controls are stored for the water system.

Anticipated Benefit: The roof replacement will protect the SCADA electrical controls from possible water damage.

| FUNDING SCHEDULE | | | | | |
|------------------|----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$17,000 | \$17,000 | - | - | - | - |

TOWER #1 COATING INTERIOR AND EXTERIOR AND EXTEND FILL LINE

Fund: Water

Department: Water

Location: Medical Drive

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

Description: Take water tower #1 out of service to extend fill line to the top of the tank 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 when the City runs an emergency well water supply to this tower and to keep water fresh without needing 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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$550,000 | \$550,000 | - | - | - | - |

2 MG GM GROUND STORAGE TANK COATING INTERIOR

Fund: Water

Department: Water

Location: East Booster Station (Edinger Road)

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

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|-----------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$270,000 | - | \$270,000 | - | - | - |

PUBLIC WORKS FACILITY

Fund: Capital, Transportation, Water

Department: Public Works – Administration

Location: TBD

Project Cost: \$3,980,000 | **Outside Funding:** \$-0- | **City Cost:** \$3,980,000

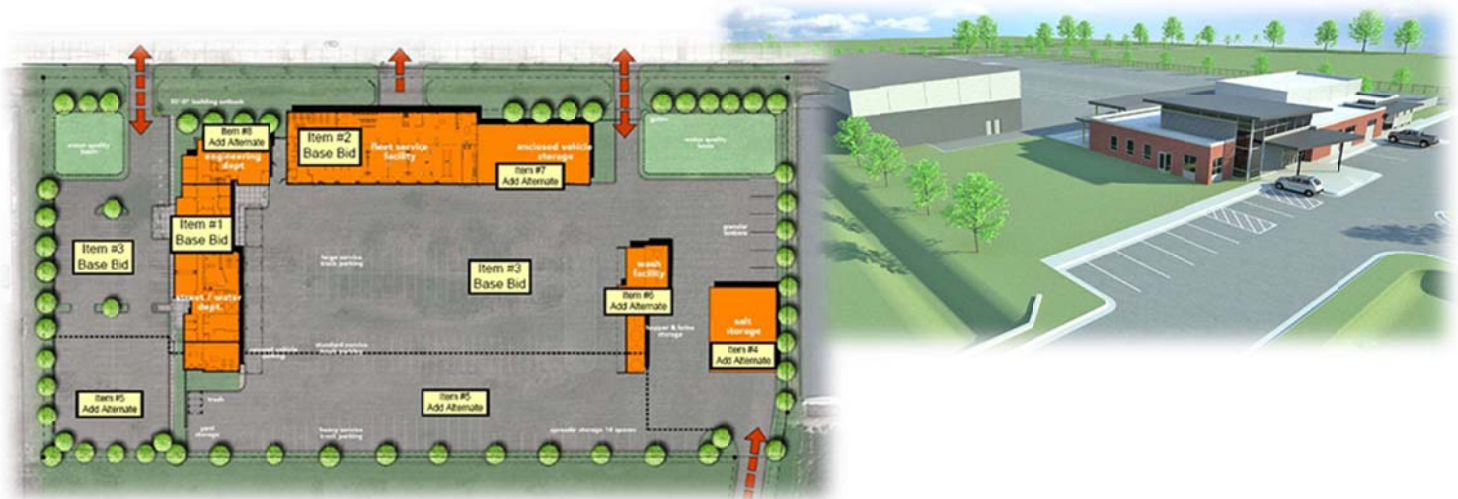
Capital Fund - \$2,908,000

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

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

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

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



| FUNDING SCHEDULE | | | | | | |
|------------------|-----------|-----------|-------------|------|------|------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$3,980,000 | \$800,000 | \$500,000 | \$2,680,000 | - | - | - |

COAT INTERIOR AND EXTERIOR OF TOWER #4

Fund: Water

Department: Water

Location: 802 East Pearce Boulevard

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

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|-----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$300,000 | - | - | \$300,000 | - | - |

2-MG WATER STORAGE TANK

Fund: Water

Department: Water

Location: Wilmer Rd.

Project Cost: \$3,400,000 | **Outside Funding:** \$-0- | **City Cost:** \$3,400,000

Design - \$400,000

Construction - \$3,000,000 (2024)

Description: Construct a new above-ground water storage tank.

Justification: The construction of a new above-ground water storage tank will provide the City with a cost effective and reliable water storage supply during peak demand months and they will serve as a year-round water storage source to protect against water storage during mechanical or equipment failure. The City has experienced water shortage or pressure loss conditions associated with the PWSD #2 supply system failures every year for the last four years. These source supply failures are the result of PWSD #2 operating with low transmission system redundancy and limited elevated storage capacity to serve their growing customer base in addition to Wentzville's expanding needs. This condition is particularly evident during peak summer season. The City's summer consumption during July, July and August is more than twice the winter consumption in January, February and March.

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|-----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$400,000 | | - | - | - | \$400,000 |

EAST BOOSTER PUMP STATION ABOVE GROUND REBUILD

Fund: Water

Department: Water

Location: Edinger Road

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

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|-----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$500,000 | - | - | - | - | \$500,000 |

WATERLINE EXTENSIONS AND REPLACEMENTS

Fund: Water

Department: Water

Location: City Wide

Project Cost: \$2,450,000 | **Outside Funding:** \$-0- | **City Cost:** \$2,450,000

| PROJECT DESCRIPTION | | | | | |
|---------------------|--|-----------|------------|---------------------|-----------|
| YEAR | LOCATION | SIZE (IN) | LENTH (FT) | IN HOUSE WORK (Y/N) | COST (\$) |
| 2019 | Cherokee Lake Estates | 8 | | N | 215,000 |
| 2019 | E. Pearce Blvd. from W. Allen St. to Meyer Rd. | 12 | 500 | Y | 90,000 |
| 2019 | N. Pointe Prairie Rd. to Goodfellow | 12 | 880 | N | 165,000 |
| 2019 | Prairie Bluffs to Albany upsize 8 to 12 | 12 | 8,000 | N | 500,000 |
| 2020 | DHP Phase 2 Casing & Main Extension | 12 | 4,000 | N | 600,000 |
| 2020 | Parr St. from Luetkenhaus Blvd. to Wall St. | 8 | 800 | Y | 130,000 |
| 2022 | David Hoekel Parkway Phase 2 upsize 8 to 12 upsize | 12 | 2,000 | N | 250,000 |
| 2022 | Wall Street 8-inch waterline replacement | 8 | | | 200,000 |
| 2023 | Great Oaks waterline extension | 12 | | | 300,000 |

Justification: Projects include replacement and upsizing of deteriorated water main sections and completing transmission main system loops to increase pressure and fire flow capability while reducing maintenance cost and system repair downtime. By utilizing City staff to complete several of these projects, waterlines can be installed at a lower cost than hiring a contractor.

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$2,450,000 | \$970,000 | \$730,000 | - | \$450,000 | \$300,000 |

WATERLINE EXTENSIONS AND REPLACEMENTS MAPS

2019



METROTECH VLOC/9800 LOCATOR

Fund: Water

Department: Water

Location: Citywide

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

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|---------|------|------|------|---------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$10,700 | \$5,200 | - | - | - | \$5,500 |

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$18,000 | \$18,000 | - | - | - | - |

REPLACE BACKHOE WITH TRACKHOE

Fund: Water

Department: Water

Location: Citywide

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|-----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$180,000 | - | - | - | \$180,000 | - |

ELECTRO-FUSION PROCESS

Fund: Water

Department: Water

Location: Citywide

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$10,000 | - | - | - | \$10,000 | - |

4X4 PICKUP TRUCK

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$156,000 | **Outside Funding:** \$-0- | **City Cost:** \$156,000

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.

- 2019: 3/4-ton 4x4 pickup trucks (2)
- 2020: 3/4-ton 4x4 pickup trucks (2)

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|----------|----------|------|------|------|
| TOTAL | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$156,000 | \$76,000 | \$80,000 | - | - | - |

SKID LOADER

Fund: Capital

Department: Water

Location: Citywide

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

Description: Replacement of CT332 Skid Loader.

Justification: This 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. Recommend transfer of CT332 Skid Loader to Wastewater Division for moving biosolids.

Anticipated Benefit: Allows the Water Division to maintain the highest level of service to our residents when having new and reliable equipment on water repairs.



| FUNDING SCHEDULE | | | | | |
|------------------|----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$65,000 | \$65,000 | - | - | - | - |

ROTARY CUTTER

Fund: Capital

Department: Water

Location: Citywide

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

Description: Replacement of rotary cutter attachment for the skid loader.

Justification: This attachment is used to cut brush on utility easements. It is important to perform regular easement maintenance to ensure the Water Department can gain access during emergency repairs to water and wastewater systems.

Anticipated Benefit: Allows the Water Department to maintain reliable easement maintenance equipment to reduce the time and cost during emergency repairs and waterline construction projects that require vegetation clearing.



| FUNDING SCHEDULE | | | | | |
|------------------|----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$15,000 | \$15,000 | - | - | - | - |

TANDEM-AXLE DUMP TRUCK W/SNOW REMOVAL SET-UP

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$178,000 | **Outside Funding:** \$-0- | **City Cost:** \$178,000

Description and Justification: The Water Division currently borrows tandem-axle dump trucks from the Street Division to perform emergency water outages or main installation projects. Having a tandem axle would save the amount of trips needed to haul spoil dirt in comparisons to a single-axle. The truck would also be outfitted with a snow plow and salt spreader which would add a vehicle to the snow fighting fleet and assist the Street Division in snow removal.

Anticipated Benefit: More efficient water repairs and replacement projects in addition to adding a snow removal vehicle to the fleet or haul vehicle for in-house storm or street projects.



| FUNDING SCHEDULE | | | | | |
|------------------|-----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$178,000 | \$178,000 | - | - | - | - |

HYDRAULIC HAMMER

Fund: Capital

Department: Water

Location: Citywide

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

Description: Replacement of hydraulic hammer attachment with adapter plates.

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$15,000 | - | - | \$15,000 | - | - |

BOX TRUCK

Fund: Capital

Department: Water

Location: Citywide

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$65,000 | - | - | - | \$65,000 | - |

20' MAC LANDER TRAILER

Fund: Capital

Department: Water

Location: Citywide

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$20,000 | - | - | - | - | \$20,000 |

Wastewater

WASTEWATER

| PROJECT | | | | | | | |
|-------------------------------------|--|------------------|------------------|------------------|------------------|------------------|-------------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Wastewater | 802 E. Pearce Roof Replacement | 9,000 | - | - | - | - | 9,000 |
| Wastewater | Westhaven Off-Site Sewer Cost Share | 304,674 | - | - | - | - | 304,674 |
| Wastewater | MSP Lift Station Replacement | 1,600,000 | - | - | - | - | 1,600,000 |
| Wastewater | Highway P Lift Station Sluice Gate | 200,000 | - | - | - | - | 200,000 |
| Wastewater | Wet Weather Storage Basin | 3,000,000 | - | - | - | - | 3,000,000 |
| Wastewater | Reclamation Center Expansion – Ph. II and Bio-Solids | 2,000,000 | 5,100,000 | - | 390,000 | 2,215,000 | 9,705,000 |
| Wastewater | East Lift Station Replacement | - | 115,000 | 750,000 | - | - | 865,000 |
| Wastewater | Water Reclamation Center Land Acquisition | - | - | 250,000 | - | - | 250,000 |
| Wastewater | St. Lukes Lift Station | - | - | 150,000 | - | - | 150,000 |
| Wastewater | Norfolk and Southern Lift Station | - | - | 500,000 | - | - | 500,000 |
| Wastewater | Legion Lift Station | - | - | - | 500,000 | - | 500,000 |
| Wastewater | Bypass Trunk Relief | - | - | - | 200,000 | 2,100,000 | 2,300,000 |
| Wastewater | Crossroads Trunk Relief – Phase I | - | - | - | - | 60,000 | 60,000 |
| Wastewater | Boone Trail Sewer Extension | - | - | - | - | 490,000 | 490,000 |
| Wastewater Funded Equipment: | | | | | | | |
| Wastewater | Lift Station Spare Pumps, VFDs and Replacement | 112,000 | 245,000 | 104,000 | 122,000 | 86,000 | 669,000 |
| Wastewater | Bio-Solids Tanker Truck | - | 185,000 | - | - | - | 185,000 |
| Wastewater | Metrotech vLoc/9800 Locator | - | 5,200 | - | - | 5,500 | 10,700 |
| TOTAL | | 7,225,674 | 5,650,200 | 1,754,000 | 1,212,000 | 4,956,500 | 20,798,374 |

WASTEWATER

| EQUIPMENT | | | | | | | |
|------------|------------------------|--------|---------|---------|------|---------|-----------------|
| Department | Description | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Wastewater | One-Ton 4x4 Dump Truck | 70,000 | - | - | - | - | 70,000 |
| Wastewater | Crane Truck | - | 86,000 | - | - | - | 86,000 |
| Wastewater | Sewer Jet Trailer | - | 80,000 | - | - | - | 80,000 |
| Wastewater | ¾-Ton 4x4 Pickup Truck | - | 40,000 | 42,000 | - | 42,000 | 124,000 |
| Wastewater | Portable Generator | - | - | 115,000 | - | - | 115,000 |
| Wastewater | Bio-Solids Tractor | - | - | - | - | 136,000 | 136,000 |
| TOTAL | | 70,000 | 206,000 | 157,000 | - | 178,000 | 611,000 |

| TOTAL PROJECTS AND EQUIPMENT | | | | | | |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| TOTAL | 7,295,674 | 5,856,200 | 1,911,000 | 1,212,000 | 5,134,500 | 21,409,374 |

| FUNDING SOURCE | | | | | | |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------------|
| | 2019 | 2020 | 2021 | 2022 | 2023 | Five Year Total |
| Capital Fund | 70,000 | 206,000 | 157,000 | - | 178,000 | 611,000 |
| Wastewater Fund | 6,971,264 | 5,650,200 | 1,754,000 | 1,212,000 | 4,956,500 | 20,543,964 |
| Private Developer | 254,410 | - | - | - | - | 254,410 |
| TOTAL | 7,295,674 | 5,856,200 | 1,911,000 | 1,212,000 | 5,134,500 | 21,409,374 |

802 E. PEARCE ROOF REPLACEMENT

Fund: Water and Wastewater

Department: Wastewater

Location: 802 E. Pearce

Project Cost: \$26,000 | **Outside Funding:** \$-0- | **City Cost:** \$26,000

Water Fund - \$17,000

Wastewater Fund - \$9,000

Description and Justification: The building roof at 802 E. Pearce Blvd. is leaking in the location where the City's SCADA controls are stored for the water system.

Anticipated Benefit: The roof replacement will protect the SCADA electrical controls from possible water damage.

| FUNDING SCHEDULE | | | | | |
|------------------|---------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$9,000 | \$9,000 | - | - | - | - |

WESTHAVEN OFF-SITE SEWER COST SHARE

Fund: Wastewater

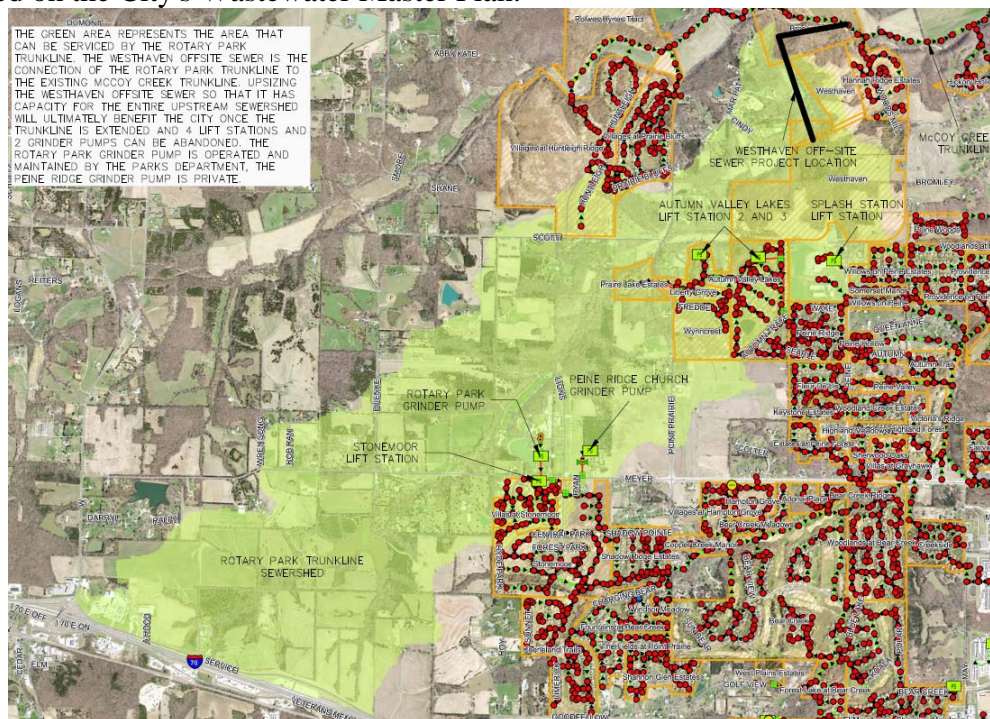
Department: Wastewater

Location: Along McCoy Creek and Tributary, West of Hannah's Ridge

Project Cost: \$304,674 | **Outside Funding:** \$254,410 | **City Cost:** \$50,264
Private Developer - \$254,410

Description and Justification: Cost share to increase the pipe size of the development driven sanitary sewer to provide capacity for the future Rotary Park trunkline. The gravity sewer main construction will enable the City to provide gravity sanitary service to a sewershed that extends beyond Rotary Park, see attached sewershed map. This trunkline, once extended, could take four existing lift stations out of service and negate the need of other planned lift stations.

Anticipated Benefit: Provide the opportunity for gravity sewer connections to a large sewershed that would otherwise be serviced by lift stations. The Rotary Park trunkline was identified on the City's Wastewater Master Plan.



| FUNDING SCHEDULE | | | | | |
|-------------------|-----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$304,674 | \$304,674 | - | - | - | - |
| Private Developer | \$254,410 | | | | |

MSP LIFT STATION REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: 2355 Mette Rd.

Project Cost: \$1,721,000 | **Outside Funding:** \$-0- | **City Cost:** \$1,721,000

Description: Replace existing dry well lift station with submersible lift station and control panel and upgrade to 14 to 16-MGD per Wastewater Masterplan capital recommendations.

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

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



| FUNDING SCHEDULE | | | | | | |
|------------------|-----------|-------------|------|------|------|------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$1,721,000 | \$121,000 | \$1,600,000 | - | - | - | - |

HIGHWAY P LIFT STATION SLUICE GATE

Fund: Wastewater

Department: Wastewater

Location: Highway P Lift Station

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

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|-----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$200,000 | \$200,000 | - | - | - | - |

WET WEATHER STORAGE BASIN

Fund: Wastewater

Department: Wastewater

Location: Wastewater Reclamation Center

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

Design - \$300,000

Construction - \$3,000,000

Description and Justification: Design and construct a wet weather basin near the Water Reclamation Center (WRC) to attenuate and detain wet weather sanitary sewer flows associated with inflow and infiltration entering the collection system for 2-year storm even flows. Reduction in flows will improve operation of the WRC during wet weather events to assist in meeting effluent limit requirements.

Anticipated Benefit: Detaining wet weather flows will improve operation of the WRC in achieving effluent limit requirements.

| FUNDING SCHEDULE | | | | | |
|------------------|-------------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$3,000,000 | \$3,000,000 | - | - | - | - |

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

Fund: Wastewater

Department: Wastewater

Location: 2455 Mette Rd.

Project Cost: \$10,305,000 | **Outside Funding:** \$-0- | **City Cost:** \$10,305,000

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 future growth and development.



| FUNDING SCHEDULE | | | | | | |
|------------------|-----------|-------------|-------------|------|-----------|-------------|
| Total | PRIOR | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$10,305,000 | \$600,000 | \$2,000,000 | \$5,100,000 | - | \$390,000 | \$2,215,000 |

EAST LIFT STATION REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: 1520 E. Pitman Avenue

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

Planning/Engineering - \$115,000

Construction - \$750,000

Description: This is a replacement of a 1977 lift station that runs inefficiently and has safety issues. Project will replace 37-year-old, dry-well lift station with submersible pumps and controls and reroute that station's force main to discharge a manhole on Edinger Road. The concrete wet well at this station is showing high deterioration from the hydrogen sulfide (H₂S). The Engineering Division recommends replacement with the addition of an eight-hour retention tank.

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|-----------|-----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$865,000 | | \$115,000 | \$750,000 | - | - |

WATER RECLAMATION CENTER LAND ACQUISITION

Fund: Wastewater
Department: Wastewater
Location: TBD

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|-----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$250,000 | - | - | \$250,000 | - | - |

ST. LUKES LIFT STATION

Fund: Wastewater

Department: Wastewater

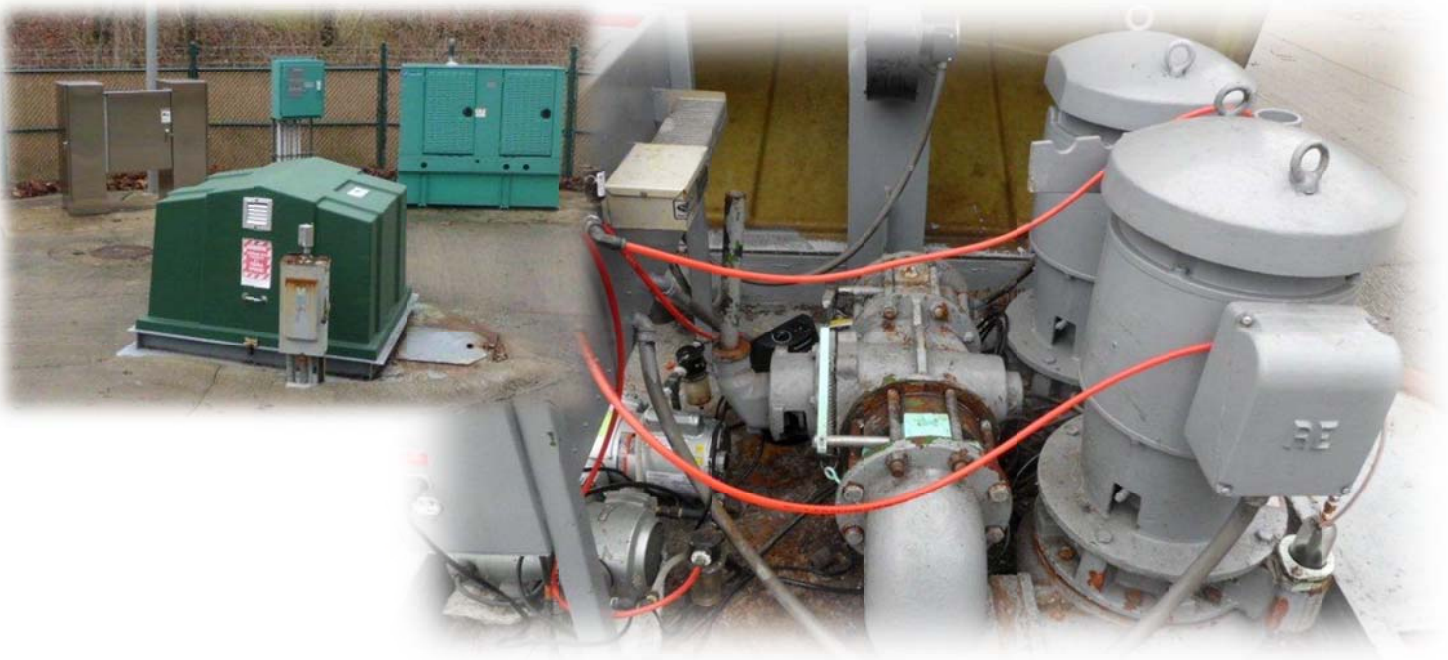
Location: St. Luke's Lift Station

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

Description: Replace Smith and Loveless Lift Station (34 years old in 2019). Lift station frame (can unit) has deteriorated to the point replacement is required. Note: Station was constructed in 1985.

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|-----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$150,000 | - | - | \$150,000 | - | - |

NORFOLK AND SOUTHERN LIFT STATION

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

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|-----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$500,000 | - | - | \$500,000 | - | - |

LEGION LIFT STATION REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: 506 Luetkenhaus Blvd.

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|-----------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$500,000 | - | - | - | \$500,000 | - |

BYPASS TRUNK RELIEF

Fund: Wastewater

Department: Wastewater

Location: Wastewater Reclamation Center

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|-----------|-------------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$2,300,000 | - | - | - | \$200,000 | \$2,100,000 |

CROSSROADS TRUNK RELIEF – PHASE I

Fund: Wastewater
Department: Wastewater
Location: Highway 61, MSP and Highway P Lift Station

Project Cost: \$60,000 | **Outside Funding:** \$-0- | **City Cost:** \$60,000
Phase I Planning/Engineering - \$60,000 (2023)
Phase II Planning/Engineering - \$180,000 (2024 and beyond)
Phase I Construction - \$650,000 (2024 and beyond)
Phase II Construction - \$1,400,000 (2024 and beyond)

Description: Gravity sewer main construction that will enable the Reclamation Center to receive increasing flows as the city experiences increased growth in the related sewer sheds. Will reduce all operations and maintenance costs associated with the existing main and improve system capacity and enable WRC Lift Station to receive the flows related to the increased growth.

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$60,000 | - | - | - | - | \$60,000 |

BOONE TRAIL SEWER EXTENSION

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

Project Cost: \$490,000 | **Outside Funding:** \$-0- | **City Cost:** \$490,000
Phase I Planning/Engineering - \$60,000 (2022)
Phase II Planning/Engineering - \$180,000 (2023, 2024 and beyond)
Phase I Construction - \$650,000 (2023)
Phase II Construction - \$1,400,000 (2024 and beyond)

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

Anticipated Benefit: Avoids costly replacement maintenance expenses.



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|-----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$490,000 | - | - | - | - | \$490,000 |

LIFT STATION SPARE PUMPS, VFDs & REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: Lift Stations Citywide

Project Cost: \$669,000 | **Outside Funding:** \$-0- | **City Cost:** \$669,000

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|---------|---------|---------|---------|--------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$669,000 | 112,000 | 245,000 | 104,000 | 122,000 | 86,000 |

BIO-SOLIDS TANKER TRUCK

Fund: Wastewater

Department: Wastewater

Location: Water Reclamation Center

Project Cost: \$185,000 | **Outside Funding:** \$-0- | **City Cost:** \$185,000

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|-----------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$185,000 | - | \$185,000 | - | - | - |

METROTECH VLOC/9800 LOCATOR

Fund: Wastewater
Department: Wastewater
Location: Citywide

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

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|---------|------|------|---------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$10,700 | - | \$5,200 | - | - | \$5,500 |

ONE-TON 4X4 DUMP TRUCK

Fund: Capital

Department: Wastewater

Location: Wastewater Reclamation Center

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

Description and Justification: The Collection Division will use the one-ton dump for transporting manhole rings and manhole extension for manhole repair projects, haul dirt and rock to project sites and tow jet trailer and emergency generator to lift station as needed.

Anticipated Benefit: The Collection Division will be able to schedule more manhole repairs and other projects and complete in a timelier manner without having to schedule with other departments to use their equipment and not having it available during snow seasons.

| UNDING SCHEDULE | | | | | |
|-----------------|----------|------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$70,000 | \$70,000 | - | - | - | - |

CRANE TRUCK 4X4

Fund: Capital

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 2020 will reduce repair cost and improve reliability for emergency service.



| FUNDING SCHEDULE | | | | | |
|------------------|------|----------|------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$86,000 | - | \$86,000 | - | - | - |

SEWER JET TRAILER

Fund: Capital

Department: Wastewater

Location: Wastewater Reclamation Center

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

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

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



| FUNDING SCHEDULE | | | | | |
|-------------------|------|----------|------|------|------|
| Total \$80,000 | 2019 | 2020 | 2021 | 2022 | 2023 |
| | - | \$80,000 | - | - | - |

3/4-TON 4X4 PICKUP

Fund: Capital

Department: Wastewater

Project Cost: \$82,000 | **Outside Funding:** \$-0- | **City Cost:** \$82,000

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 | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$82,000 | - | \$40,000 | \$42,000 | - | \$42,000 |

PORTABLE GENERATOR

Fund: Capital

Department: Wastewater

Location: Wastewater Reclamation Center

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

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

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

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

| UNDING SCHEDULE | | | | | |
|-----------------|------|------|-----------|------|------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$115,000 | - | - | \$115,000 | - | - |

BIO-SOLIDS TRACTOR

Fund: Capital

Department: Wastewater

Location: Wastewater Reclamation Center

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

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

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



| FUNDING SCHEDULE | | | | | |
|------------------|------|------|------|------|-----------|
| Total | 2019 | 2020 | 2021 | 2022 | 2023 |
| \$136,000 | - | - | - | - | \$136,000 |



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