Wastewater Management Department

Department Goals
Clean water is fundamental to life and we strive to protect public health, property, and the environment. We will continue to serve our citizens with pride and professionalism. We will provide service utilizing sound financial and natural resource management practices. The Wastewater Management Department manages comprehensive programs to efficiently and effectively operate the collection system and treatment facility for the benefit of the citizens of Spokane and our Environment. The Wastewater Management Department provides essential services and operates an essential community facility for our community.

Contact Information
Wastewater Treatment Department:
Raylene Gennett, Director, 625-7901, rgennett@spokanecity.org
Integrated Capital Management:
Marcia Davis, Principal Engineer- Interim Director, 625-6398, mdavis@spokanecity.org

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Telephone</th>
<th>Email</th>
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<tbody>
<tr>
<td>Chris Peterschmidt</td>
<td>Principal Engineer</td>
<td>625-7803</td>
<td><a href="mailto:cpeterschmidt@spokanecity.org">cpeterschmidt@spokanecity.org</a></td>
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<tr>
<td>Fred Brown</td>
<td>Principal Engineer</td>
<td>625-6307</td>
<td><a href="mailto:fbrown@spokanecity.org">fbrown@spokanecity.org</a></td>
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<tr>
<td>Duane Studer</td>
<td>Principal Engineer</td>
<td>625-7902</td>
<td><a href="mailto:dstuder@spokanecity.org">dstuder@spokanecity.org</a></td>
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<tr>
<td>Mike Cannon</td>
<td>RPWRF Plant Manager</td>
<td>625-4642</td>
<td><a href="mailto:mcannon@spokanecity.org">mcannon@spokanecity.org</a></td>
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Services Provided
The City of Spokane’s Wastewater Treatment Facility receives and treats combined sewage from the City’s Sewer Collection System, Spokane County, and Fairchild Air Force Base (FAFB), as well as septage from private septic tank servicers. The Department is an enterprise fund, which means it provides goods or services at-cost to the public for a fee and is, therefore, self-supporting. The Department employs 120 full-time staff, with an annual operating budget of approximately $32 million dollars (excluding major capital expenditures).

The City of Spokane Wastewater Collection system consist of 870 miles of sanitary sewer lines, 14 miles of sanitary sewer force mains, 357 miles of stormwater lines and 21895 stormwater inlets, and numerous swales and stormwater detention facilities. The City maintains three types of collection pipes: sanitary sewers only, combined sanitary and stormwater sewers and separated stormwater sewers. We have a comprehensive program to operate these systems for the benefit of the citizens and the environment.
**Background**

**Discharge Permits:** The City’s Wastewater Management Department complies with several discharge Permits. The Waste Discharge Permit issued by Ecology governs treated flow leaving the Riverside Park Water Reclamation Facility (RPWRF) and management of the City’s Combined Sewer Overflow (CSO) system. Municipal separated storm sewer (MS4) discharges and land application of biosolids are managed in compliance with General permits, both issued by Ecology. Air emissions from RPWRF comply with a permit from the Spokane Regional Clean Air Agency. Numerous other regulations apply to various aspects of the collection, conveyance, and treatment of wastewater.

**Dissolved Oxygen Total Maximum Daily Load (DO TMDL) Compliance:** Washington State law requires the City’s effluent meet Water Quality Standards (WQS) for the Spokane River. The current National Pollutant Discharge Elimination System (NPDES) Waste Discharge Permit No. WA-0024473 (Permit) was issued to the City by the Washington State Department of Ecology (Ecology) on June 23, 2011. Ecology has determined the TMDL for nutrients affecting DO in the Spokane River and Lake Spokane. These effluent limits for total phosphorus, ammonia, and carbonaceous biochemical oxygen demand are identified in the current Permit along with interim effluent limitations. Lake Spokane’s DO levels do not meet the WQS year-round and, meeting the TMDL requirements from March through October is expected to restore DO to an acceptable level. The renewal Permit currently being developed by Ecology will likely contain additional effluent limitations and requirements, especially regarding polychlorinated biphenyls (PCBs).

**Riverside Park Water Reclamation Facility (RPWRF):** Effluent discharged to the Spokane River must meet the requirements of RPWRF’s Permit. RPWRF treats an average of 30 million gallons a day (MGD) of wastewater, with occasional peak flows over 130 MGD during heavy rain storms. This Permit requires tertiary treatment in addition to the advanced secondary treatment. Just completed an approximately $200MM capital program for the tertiary treatment using membrane filtration which improved the water quality leaving the plant.

**Water Quality:** The City of Spokane has been working to address Spokane River water quality concerns for decades. From 2000 to 2012, the city spent $220 million on clean water improvements, including $175 million in improvements at RPWRF, 40 million to reduce overflows to the river from the combined system and $5 million on stormwater projects. Since then the city has also spent an additional $225 million on the new membrane filtration facility and associated improvements. We also participated in regional efforts to improve DO levels and reduce PCB and Dioxins in the river. We continually meet our National Pollutant Discharge Systems (NPDES) Permits requirements and continually work to improve the water quality within the Spokane River.

**Level of Service Standard**

The level of service (LOS) for sanitary sewage processing is 100 gallons per capita per day (GPCD). This means RPWRF must plan to accommodate 100 gallons of sanitary sewage per day for every person in its service area. Although individual citizens may generate more or less sanitary sewage, 100 GPCD is an accepted average used for planning purposes.

RPWRF has the capacity during dry weather to continually treat 50 million gallons per day (MGD) of regionally generated sanitary sewage. Via Interlocal Agreement, the City has allocated 10 MGD of treatment capacity to Spokane County and about one (1) MGD to FAFB.

We strive to provide excellent customer service 24 hours a day, 7 days a week, 365 days a year.
# Spending by Project Type Summary

## Wastewater Management

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<tr>
<th>Project Type</th>
<th>2023</th>
<th>2024</th>
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Funded Projects
## Summary of Funded Projects

### Wastewater Management

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<th>Project Description</th>
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<th>2024</th>
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Spokane 2023 Capital Improvement Program
## Summary of Funded Projects

### Wastewater Management - Continued

<table>
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<tr>
<th>Project Description</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
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<th>6 Year Estimate</th>
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Spokane 2023 Capital Improvement Program
### Summary of Funded Projects

#### Wastewater Management - Continued

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<th>Project Description</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
<th>2026</th>
<th>2027</th>
<th>2028</th>
<th>6 Year Estimate</th>
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<tbody>
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Spokane 2023 Capital Improvement Program
### Summary of Funded Projects

#### Wastewater Management - Continued

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Spokane 2023 Capital Improvement Program
## Summary of Funded Projects

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Spokane 2023 Capital Improvement Program
## Summary of Funded Projects

### Wastewater Management - Continued

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Total Estimated Costs: $25,860,000 $32,404,000 $26,110,000 $37,052,000 $23,470,000 $22,060,000 $166,956,000
**5200-700 - Sewer**  
**Citywide Ongoing Cure In Place Pipe (CIPP) Project**

**Project Number:** WWM-2012-4  
**Budget Year:** 2023  
**Project Type:** Collections Maintenance  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2012  
**Region:** District 1

**Description**
Rehabilitation of damaged pipe using a polyester felt liner impregnated with a resin that hardens when heated. This method of pipeline rehabilitation does not need the typical open trench excavation and paving by relining the pipe lines in place and usually is finished within two days per location.

**Justification**
Many of the City's sewer lines are approaching 75-100 years of age. As deteriorated pipelines are identified by inspecting sewer lines with remote TV inspection cameras the CIPP (cured in place pipe) is a method that rehabilitates these damaged pipe using a polyester felt liner impregnated with a resin that hardens when heated via steam, hot water or UV Curing. Essentially, CIPP constructs a new pipe within a damaged pipe without resorting to excavating. Many of the existing older sewers are made of vitrified clay that is susceptible to cracking and/or infiltration at the joints. Excavation to replace sewer pipes in congested streets is very expensive, so using CIPP is a cost-effective method to rehabilitate these types of pipes. The purpose of this project is to reduce operation and maintenance costs by replacing damaged and leaking pipes.

**Comprehensive Plan Goals Met**
CFU 1.3 - Capital Facilities and Utilities. CFU 5.4 - Capital Facilities and Utilities Ground Water.

**Funding**

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Spokane 2023 Capital Improvement Program
**5200-700 - Sewer**
**Public Sewer Extensions**

**Project Number:**  WWM-2012-11  
**Budget Year:**  2023  
**Project Type:**  Collections Maintenance  
**Budget Stage:**  Adopted Budget  
**Year Identified:**  2012  
**Region:**  District 1

**Description**
Installation of new public mains in City R/W's increases sewer line capacity in order to eliminate existing private sewers and septic tanks within the City of Spokane's limits.

**Justification**
Private sewers have been built in many locations in the City, but have not been maintained. Often property owners do not know they are connected to a private sewer line. These sewers present a risk to all City citizens if leakage and failures occur. In some locations, properties are still on septic tank systems. This project would extend new public sewers in order to intercept existing private sewers in Public Right of Ways to be part of the City's public sewer system as directed by the Director of Wastewater. Septic tanks would be eliminated by extending public sewers to areas not yet served by the City's system.

**Comprehensive Plan Goals Met**
CFU 1 - Adequate Public Facilities. CFU 3 - Coordination. CFU 5 - Environmental Concerns. NE 1 - Water Quality.

**Funding**

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5200-700 - Sewer
Rehabilitation Project Fund

Project Number: WWM-2012-13
Budget Year: 2023
Project Type: Collections Maintenance
Budget Stage: Adopted Budget
Year Identified: 2012
Region: District 1

Description
Construction for unscheduled repairs and replacements of existing aged systems to meet demands of ICM projects.

Justification
This project makes funds available for repairs from external or internal damaged pipe or sags within the pipe and to replace existing systems in conjunction with ICM projects.

Comprehensive Plan Goals Met
CFU 1.3 - Capital Facilities and Utilities Maintenance. CFU 5.4 - Capital Facilities and Utilities Groundwater.

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5200-700 - Sewer
Bio-Infiltration System Rehabilitation

Description
These projects will restore design depth of the on-site treatment systems known as 208 grass swales to provide additional Capacity by replaces soils and vegetation (grass) of the existing bio-infiltration swales restore proper treatment functions as designed.

Justification
'Bio-Infiltration Systems' or grass percolation areas are commonly known as 'grassy swales' or ?208 swales?. The City maintains approximately 10 acres of grass percolation areas along arterial streets that treat and dispose of stormwater. City staff performs regular maintenance in order to maintain the effectiveness of these facilities. Bio-infiltration systems are expected to need rehabilitation about every 20 years. This project provides for this substantial rehabilitation efforts along arterials. The purpose of this project is to restore storage volumes and to additionally restore the stormwater treatment and infiltration capacity.

Comprehensive Plan Goals Met
CFU 1.3 - Capital Facilities and Utilities Maintenance. CFU 5.3 - Capital Facilities and Utilities. CFU 5.3 - Stormwater. NE 1.2 - Natural Environment Stormwater Techniques.

Funding

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Large Line Rehabilitation from Hydrogen Sulfide Damage

**Description**

Line sewer pipes and manholes that have been damaged by hydrogen sulfide and are at risk of failure and must be rehabilitated to prolong their service life. The most cost effective method to date to accomplish this rehabilitation is with the CIPP (cured in place pipe) process.

**Justification**

Hydrogen sulfide is a gas that is generated by the decomposition of wastewater and its byproduct is Sulfuric Acid which is eroding many of the concrete sewer pipes and manholes within the City. This erosion is occurring to the extent that pipes are collapsing and or being structurally compromised because of it. These pipes which are eroded will be lined with the CIPP method which is an inert material. Other pipes may need to be lined to limit risk due to other project construction, infiltration or severe cracking and identified repairs due to structural holes within the pipes.

**Comprehensive Plan Goals Met**

CFU 1.3 - Capital Facilities and Utilities Maintenance. CFU 5.4 - Capital Facilities and Utilities Ground Water.

**Funding**

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**Description**

This project will construct a gravity sewer pipe from North Pointe lift station to Spokane County's Marion Hay Lift Station.

**Justification**

The force main from the North Pointe Lift Station produces a large amount of hydrogen sulfide gas when it connects to the sewer system near Nevada St and Lyons Ave. The gas is corrosive and is causing both safety concerns and pipe corrosion. A gravity pipe to Spokane County's Marion Hay Lift Station will eliminate the North Pointe Lift Station.

**Comprehensive Plan Goals Met**

CFU 1 - Adequate public facilities. CFU 3 - Coordination. CFU 5 - Environmental Concerns. NE 1 - Water Quality.

**Funding**

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Serpentex Biosolids Conveyor Replacement

Description
Replacement of the Serpentex Biosolids Conveyor Systems.

Justification
This conveyor system takes solids that come from the digesters, are processed by the Belt Filter Presses, and moves them to the Biosolids Trucks for transport to the field application sites. Many parts of the equipment wear out over time and through use. A more complete rebuild of the equipment is needed every 10 to 15 years. The conveyors have been rebuilt as much as possible, now the main structure is failing and needs replacement. The replacement of the conveyors is necessary to ensure that Biosolids can be removed, transported from the RPWRF, and compliance with permitting is maintained.

Comprehensive Plan Goals Met
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

Funding

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5200-700 - Sewer
Perforated Plate Replacement

Project Number: WWM-2012-400
Budget Year: 2023
Project Type: RPWRF Maintenance
Budget Stage: Adopted Budget
Year Identified: 2012
Region: District 3

Description
Replacement of perforated plates in the Headworks of the Advanced Wastewater Treatment Plant (AWWTP).

Justification
The perforated plates in the plant headworks rotate through the influent stream and screen out debris that would otherwise be carried into the plant treatment process. These plates used to wear out about every 3 years, but through the recent modification of the guides, the wear on them is much less and is expected to nearly double their useful life, saving hundreds of thousands of dollars over that time.

Comprehensive Plan Goals Met
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

Funding

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5200-700 - Sewer
Post Street Bridge Rehabilitation

Project Number: WWM-2013-138
Budget Year: 2023
Project Type: Collections Capital
Budget Stage: Adopted Budget
Year Identified: 2013
Region: Multiple

Description
The old 54-inch steel sewer interceptor will be replaced with 450 feet of 60-inch ductile iron pipe within the Post Street Bridge. Sewer must continue to flow during construction. This is an integrated project.

Justification
The Post Street Bridge, located immediately north of City Hall, carries a 54-inch sewer interceptor that transports sewage from the south side of the river to the north side. The bridge needs a significant rehabilitation. Construction of a new bridge will include the replacement of the 54-inch steel pipe with 60-inch between the river banks. The existing pipe during will be in continuous service during construction.

Comprehensive Plan Goals Met
CFU 1 - Adequate public facilities. The project maintains a critical artery in the City's sewer system. CFU 3 - Coordination. The project is integrated with other City infrastructure needs.

Funding

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5200-700 - Sewer  
Combined Sewer Overflow (CSO) Outfall Repair

**Project Number:** WWM-2014-33  
**Budget Year:** 2023  
**Project Type:** Collections Capital  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2014  
**Region:** District 1

**Description**
Repair the existing CSO outfall pipes for CSO 2, 6, 7, 14, 15, 16, 19 20, 22, 23, 26, 38, 41, and 42.

**Justification**
Many of the City CSO outfalls to the Spokane River and Latah Creek pipes area made of corrugated steel that have begun to corrode. Other pipes may need to be lined or require other repairs. Repair of outfall pipes has not incorporated into most of the CSO storage projects to expedite construction.

**Comprehensive Plan Goals Met**
CFU 1.3 - Maintenance.

**Funding**

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5200-700 - Sewer
Study - Sewer Capital Facility Plan

Project Number: WWM-2014-96
Budget Year: 2023
Project Type: Collections Capital
Budget Stage: Adopted Budget
Year Identified: 2014
Region: District 2

Description
A 20-year capital facility plan for the sanitary system collection system will be developed for LINK Utilities.

Justification
The last 20 year plan for the sanitary collection system was completed in the 1990s, before the CSO program began. With the construction of CSO facilities, the operation of the collection system will change. The plan will identify risks and opportunities for infill development.

Comprehensive Plan Goals Met
CFU 2.2 - Concurrency Management System. Requires a Capital Facilities Program.

Funding

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5200-700 - Sewer
RPWRF Building Exterior Rehabilitation and Improvements

Project Number: WWM-2014-112
Budget Year: 2023
Project Type: RPWRF Capital
Budget Stage: Adopted Budget
Year Identified: 2014
Region: District 3

Description
Replace and upgrade the Solids Process Building exterior, and that of a few others, including roofs, windows, insulation, snow canopies, loading docks, and stairways.

Justification
The Solids Process Building exterior is a metal skin over a steel framework and was originally constructed in 1975 through 1977, with a small portion replaced in 2004. It is reaching the end of its service life. Weather-caused water damage has occurred and is a great concern for the building integrity and equipment (Plant control system and solid processing system). In addition, there are chemicals and lab equipment housed in the building that are becoming at risk. A number of associated smaller buildings, of similar age and condition, are also need exterior rehabilitation.

Comprehensive Plan Goals Met
0

Funding

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5200-700 - Sewer
Inflow and Infiltration (I/I) Reduction/ Net Enviro. Benefit

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**Description**
This project will use Cured In Place Pipe (CIPP) techniques to reline pipes throughout the city to reduce infiltration & inflow (I&I) from groundwater and river sources which is required to meet the net environmental benefit requirement for the Next Level Treatment (NLT).

**Justification**
The City has found by line monitoring that portions of the sewer system have river and groundwater influences which flow through joints and cracks into the City system. This project will use CIPP (cured in place pipe) techniques to reline these pipe sections. Infiltration and Inflow (I&I) must be reduced in combined sewer basins to achieve the Net environmental Benefit (NEB) basis granted by Department of Ecology. NEB allowed Next Level of Treatment (NLT) to be a membrane facility with less capacity than the rest of the treatment plant. Additionally if this water does not enter the system it will not require treatment and thus plant costs are lowered. Initially, excess flows during wet weather and high river periods will not receive NLT. These peak flows must be reduced so that all flow receives NLT, otherwise NLT will need to be expanded at a great expense. To date several million gallons of water per day has been removed from the interceptor system especially during high river flows.

**Comprehensive Plan Goals Met**
CFU 1.3 - Capital Facilities and Utilities Maintenance. CFU 5.4 - Capital Facilities and Maintenance Ground Water.

**Funding**

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### 5200-700 - Sewer
#### 2 Combination Sewer Cleaner 2024

**Project Number:** WWM-2014-128  
**Budget Year:** 2023  
**Project Type:** Collections Vehicles and Equipment  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2014  
**Region:** District 1

#### Description

These trucks are used to clean large sewer lines throughout the city and assist other departments with construction or general pumping requirements.

#### Justification

To maintain the integrity and the capacity of the Sanitary Sewer System.

#### Comprehensive Plan Goals Met

CFU 1.3 - Capital Facilities and Utilities Maintenance. CFU 5.4 - Ground Water.

#### Funding

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### 5200-700 - Sewer
#### 100 KW Generator 2024

**Project Number:** WWM-2014-137

**Budget Year:** 2023

**Project Type:** Equipment

**Budget Stage:** Adopted Budget

**Year Identified:** 2014

**Region:** District 1

---

**Description**

This generator can be used for both Wastewater and Water Emergencies.

**Justification**

To maintain the capacity of the sewer pipes and to fill fresh water tanks during periods without power, such as the last wind storm.

**Comprehensive Plan Goals Met**

CFU 1.2 - Operational Efficiency. CFU 5.4 - Groundwater. CFU 3.4 - Natural and Man-Made disasters.

### Funding

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5200-700 - Sewer  
WSDOT I-90 Stormwater Separation

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<th>Description</th>
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<tr>
<td>Stormwater from I90 that currently is conveyed into CSO Basin 34 pipelines will be captured, treated and infiltrated. The 90 percent design for the project was completed in 2021 and was grant funded. This project includes completing the design and constructing the treatment and infiltration facility at 5th and Ray. The treatment facility will consist of Modular Wetland units.</td>
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<table>
<thead>
<tr>
<th>Justification</th>
</tr>
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<tbody>
<tr>
<td>Currently at least 30 acres of stormwater from Interstate 90 are carried into the City's combined sewer system. This project will manage this stormwater in WSDOT right of way and remove from the combined sewer.</td>
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<table>
<thead>
<tr>
<th>Comprehensive Plan Goals Met</th>
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<tbody>
<tr>
<td>CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.</td>
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| Funding |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 6 Year Total |
| Reserves       |      |      |      |      |      |      |             |
| Grant          |      |      |      |      |      |      |             |
| Total          |      |      |      |      |      |      |             |

| Spending |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 6 Year Total |
| Design         |      |      |      |      |      |      |             |
| Construction   |      |      |      |      |      |      |             |
| Total          |      |      |      |      |      |      |             |
5200-700 - Sewer
Cochran Basin Stormwater Piping, TJ Meenach-River to NW Blvd

Project Number: WWM-2015-68
Project Type: Stormwater
Year Identified: 2015
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 3

Description
Stormwater piping will be constructed with the TJ Meenach street project to convey Cochran Basin flows to the Downriver Boat Launch treatment facility. This is an integrated project.

Justification
This project will reduce the direct discharge of stormwater to the Spokane River from the Cochran Basin.

Comprehensive Plan Goals Met
CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

Funding

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**5200-700 - Sewer**

**TJ Meenach, NW Blvd to Pettet Dr, Sewer Upgrade**

**Project Number:** WWM-2015-83  
**Budget Year:** 2023  
**Project Type:** Collections Capital  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2015  
**Region:** District 3

**Description**
Construct a new siphon pipeline parallel to the existing siphon under TJ Meenach Drive, including upstream and downstream vaults, drain appurtenances, and providing for emergency overflow relief to the river in the event of a major break between this location and the Wastewater Treatment Plant.

**Justification**
The existing single barrel siphon pipe conveys most of the Cities major interceptor sewer flows to RPWRF. The existing siphon pipe has sharp angles, very steep sections, which makes it impossible to clean and or repair. All siphons are vulnerable to plugging, which can cause backups, structural damage and complete failure. This project will construct a parallel siphon sewer pipe to provide redundancy, and thus the ability to clean and repair either pipeline while still maintaining flow in the redundant pipeline. CSO 10 dry weather connections will be updated to improve operations at this site.

**Comprehensive Plan Goals Met**
CFU 1.2 - Operational Efficiency. This project improves the operational efficiency by reducing required maintenance. CFU 1.3 - Maintenance. This project rehabilitates an existing capital facility. CFU 3.2 - Utility Installation. This project will be constructed with a street project to reduce cost.

**Funding**

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5200-700 - Sewer
Cochran Basin Treatment Facility-Downriver Boat Launch

**Project Number:** WWM-2015-109

**Budget Year:** 2023

**Project Type:** Stormwater

**Budget Stage:** Adopted Budget

**Year Identified:** 2015

**Region:** District 3

**Description**
This project will construct a stormwater treatment and retention facility to be integrated with the Downriver Boat Launch. Construction will be coordinated with TJ Meenach street reconstruction project.

**Justification**
This project will reduce the direct discharge of stormwater to the Spokane River from the Cochran Basin. By eliminating the discharge of stormwater from the Cochran Basin, approximately 50% of the City of Spokane's stormwater discharge to the Spokane River will be removed. Approximately 90% of stormwater from this basin will be treated to meet the water quality requirements from the Department of Ecology.

**Comprehensive Plan Goals Met**
CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

**Funding**

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### 5200-700 - Sewer Biosolids Tractor

**Project Number:** WWM-2015-111  
**Budget Year:** 2023  
**Project Type:** RPWRF Vehicles and Equipment  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2015  
**Region:** District 3

#### Description
Equipment being replaced is a biosolids Tractor.

#### Justification
Biosolids generated at the Riverside Park Water Reclamation Facility are applied to private farmland in accordance with Federal and State regulations. Replacement of biosolids application equipment is necessary to maintain the reliability necessary to meet biosolids application regulations. The tractor used to spread the solids in the farm fields is used in rough conditions, and heavily, due to the daily requirements of our permits. The service life of this tractor is anticipated to be around 15 to 20 years before replacement is necessary.

#### Comprehensive Plan Goals Met
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

#### Funding

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5200-700 - Sewer
Cochran Basin Treatment Facility-Downriver Disc Golf Course

Project Number: WWM-2016-15
Project Type: Stormwater
Year Identified: 2016

Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 3

Description
This project will construct a stormwater treatment and retention facility to be integrated with the Downriver Disc Golf Course. This project will eliminate the direct discharge of stormwater to the Spokane River from the Cochran Basin.

Justification
This project will eliminate the direct discharge of stormwater to the Spokane River from the Cochran Basin. By eliminating the discharge of stormwater from the Cochran Basin, approximately 50% of the City of Spokane’s stormwater discharge to the Spokane River will be removed. Approximately 90% of stormwater from this basin will be treated to meet the water quality requirements from the Department of Ecology.

Comprehensive Plan Goals Met
CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

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5200-700 - Sewer
Sundance IX Forcemain Replacement

Project Number: WWM-2016-37
Project Type: Collections Maintenance
Year Identified: 2016
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 3

Description
The existing 6-inch Plastic (PVC) forcemain was installed in 1993. This project will replace this PVC pipe with a 6-inch ductile iron pipe. Approximately 1,100-feet of forcemain will be replaced. Pavement patching will occur where necessary in Skagit Ave.

Justification
Older PVC forcemains are prone to splitting and failure. Replacing these pipes with ductile iron, increases the life expectancy of the forcemain and reduces the risk of the pipes failure and sewerage spilling to ground.

Comprehensive Plan Goals Met
CFU 1 - Adequate Public Facilities and Services.

Funding

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5200-700 - Sewer
Lift Station Repair and Upgrade Fund

Project Number: WWM-2016-41
Budget Year: 2023
Project Type: Collections Maintenance
Budget Stage: Adopted Budget
Year Identified: 2016
Region: District 1

Description
Wastewater Management owns, operates and maintains several (29 and counting) lift stations throughout the City. Many of these lift stations are in need of various age related repairs. This fund provides money to make those repairs and upgrades.

Justification
Lift stations are a critical part of the City's wastewater infrastructure. Located at low points, the lift stations are required to 'lift' sanitary sewage to an elevation that it can flow via gravity to the RPWRF. If the lift stations stop functioning, the sewage backs up into Citizens homes and or flows out manholes onto streets and the ground. Upgrading these stations with new pumps, electrical controls and monitors allows the uninterrupted service to those homes and businesses connected to them. These Lift Stations currently identified for will be defined for design and construction based on condition assessments.

Comprehensive Plan Goals Met
CFU 1.3 - Capital Facilities and Utilities Maintenance. CFU 5.4 - Capital Facilities and Utilities Groundwater.

Funding

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5200-700 - Sewer
Napa Street, Sprague to 2nd Stormwater

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**Description**
Stormwater will be separated for treatment and infiltration as part of the street project. This is an integrated project.

**Justification**
Stormwater in this portion of Napa Street flows to the CSO Basin 34. Separating the stormwater from the combined sewer system will improve the quality of the Spokane River by reducing overflows, reduce the volume treated at Riverside Park Water Reclamation Facility, and protect the collection system pipes.

**Comprehensive Plan Goals Met**
CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

**Funding**

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5200-700 - Sewer
Whistalks Way Stormwater Management

Project Number: WWM-2016-46
Project Type: Stormwater
Year Identified: 2016
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 3

Description
This project will include stormwater bioretention along the length of the street project for Fort George Wright. This is an integrated project.

Justification
This project will eliminate untreated stormwater discharge to the Spokane River from an MS4. During the planning phase, alternative methods of stormwater management will be analyzed to determine the most cost effective solution based on life cycle costs.

Comprehensive Plan Goals Met
CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

Funding

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5200-700 - Sewer
4th Avenue, Sunset to Maple, Bioretention

Project Number: WWM-2016-48  
Budget Year: 2023  
Project Type: Stormwater  
Budget Stage: Adopted Budget  
Year Identified: 2016  
Region: District 2

Description
As part of the street project, stormwater will be separated from the Combined Sewer System along both sides of 4th Avenue with bioretention areas between the sidewalks and back of curb. This is an integrated project.

Justification
This project will reduce stormwater flows to the CSO system.

Comprehensive Plan Goals Met
CFU 3.2 - Coordination of utility installations. This project will be constructed with a street project to reduce disruption and protect the infrastructure investment. CFU 5.3 - Stormwater. This project will manage stormwater to return to natural drainage and protect water quality.

Funding

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## 5200-700 - Sewer
### Study - Stormwater Capital Facility Plan

- **Project Number:** WWM-2016-58
- **Budget Year:** 2023
- **Project Type:** Stormwater
- **Budget Stage:** Adopted Budget
- **Year Identified:** 2016
- **Region:** District 1

### Description
A 20 year plan for wet weather systems, including CSO and stormwater, will be developed as part of Link-Utilities. Stormwater basin planning will include computer modeling, collecting flow data for verification, and evaluating alternatives. Most of the study and costs will occur in 2020.

### Justification
This project began to use EPA’s Integrated Plan framework to leverage stormwater projects with CSO projects. On-going planning will continue for stormwater management of future develop.

### Comprehensive Plan Goals Met
CFU 2.2 - Concurrency Management System requires a Capital Facilities Program.

### Funding
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**5200-700 - Sewer**  
**Closed Circuit Television Inspection Truck 2023**

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**Description**
This truck is used to inspect all new Storm and Sanitary sewer pipes as well as routine inspection of existing infrastructure for blockages and structural condition.

**Justification**
To maintain the capacity and integrity of the wastewater collection system.

**Comprehensive Plan Goals Met**
CFU 1.2 - Operational Efficiency. CFU 5.4 - Groundwater.

**Funding**

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**5200-700 - Sewer**

ICP (Inductively Coupled Plasma Mass Spectrometry)

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**Description**

Purchase of updated laboratory equipment.

**Justification**

This analyzer is used to detect metals in the wastewater coming into the plant. This item is for a future replacement which will incorporate improved analytic capabilities by newer technology and will provide better detection limits allowing for better monitoring of permit requirements. This equipment has a useful life of 8-10 years before becoming obsolete, either through age and use or technology improvements which render it no longer useful.

**Comprehensive Plan Goals Met**

Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

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5200-700 - Sewer
Plant-wide Supply Fan Upgrade/Replacement (Occupied Spaces)

Project Number: WWM-2016-121  
Budget Year: 2023  
Project Type: RPWRF Maintenance  
Budget Stage: Adopted Budget  
Year Identified: 2016  
Region: District 3

Description
Upgrading and replacing HVAC supply fans.

Justification
This project will replace HVAC (Heating, Ventilation, and Air Conditioning) fans throughout the treatment plant that supply air to the occupied spaces; where staff work areas are. The existing fans were part of the original plant construction done in the 1970’s and are now at or beyond the end of their service lives. They are breaking down, no longer running efficiently, and do not supply the volumes of filtered air needed. Existing fans will be replaced, three or four per year until the failing fans are upgraded.

Comprehensive Plan Goals Met
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

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5200-700 - Sewer
Air Handling Units Supply and Exhaust (non-occupied)

Project Number: WWM-2016-122
Budget Year: 2023
Project Type: RPWRF Maintenance
Budget Stage: Adopted Budget
Year Identified: 2016
Region: District 3

Description
Replacement and upgrade of Air Handling Units Supply and Exhaust fans for non-occupied areas.

Justification
These fans supply air and ensure air exchanges, necessary for a safe work environment, to spaces in the plant where staff goes, but is not permanently stationed (non-occupied). The existing fans were installed in the 70's and are at the end of their service life. Several have quit working or are under performing. Units will be prioritized and replaced in sequence of greatest need.

Comprehensive Plan Goals Met
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

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5200-700 - Sewer
Headworks Building and Grit Chambers Odor Control System

Project Number: WWM-2016-130
Project Type: RPWRF Capital
Year Identified: 2016
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 3

Description
Construction of odor control system for the Headworks Building and the Grit Chambers.

Justification
The Headworks Building is where raw wastewater enters the AWWTP. The wastewater then passes into the grit chambers next. The wastewater has only begun the treatment process at this point and carries with it strong odors. This project will construct air handling systems which will scrub the odors from the air exiting the Headworks and the Grit Chambers. This is one of the last areas of the plant to have odor control installed.

Comprehensive Plan Goals Met
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

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5200-700 - Sewer Study - Northeast Stormwater

Project Number: WWM-2016-133  
Budget Year: 2023
Project Type: Stormwater  
Budget Stage: Adopted Budget
Year Identified: 2016  
Region: District 1

Description
This portion of the City has many areas where stormwater infiltration is not working. This study will help inform where those areas are and identify potential solutions to fix them.

Justification
The drywells in this area are performing poorly causing localized flooding.

Comprehensive Plan Goals Met
CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

Funding

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# 5200-700 - Sewer
## Aubrey L White Parkway Reconstruction

**Project Number:** WWM-2017-29  
**Budget Year:** 2023  
**Project Type:** RPWRF Capital  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2017  
**Region:** District 3

### Description
Reconstruction of Aubrey L White Parkway from its intersection with Downriver Drive to the Riverside Park Reclamation Facility entrance.

### Justification
The existing roadway is in poor condition, and the heavy construction traffic that will use it over the next few years is expected to damage it further. This project will reconstruct the roadway after the plant construction has been completed. The roadway surface will be cross sloped to the northeast to protect the I-02 Interceptor by preventing runoff over the shoulder that has twice threatened the integrity of the critical pipe. Project includes a concrete gutter along the base of an existing historic rock wall to convey runoff and any surface sewage flows safely to RPWRF without undermining the wall or the I-02 Interceptor. Project may also include I-02 bypass vault at Gate 4 and a 'purple pipe' force main for future potential reclaimed water to the Downriver Golf Course. Project further includes fiber-optic cable and conduit to accommodate electrical and/or communication infrastructure for SCADA.

### Comprehensive Plan Goals Met
CFU 1 - Adequate Public Facilities and Services. This project will maintain adequate public street to protect and existing facility. CFU 1.3 - Maintenance. This project will rehabilitate an existing capital facility.

### Funding

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**5200-700 - Sewer**

**Critical Digester Expansion Joint Replacement**

**Project Number:** WWM-2017-43  
**Budget Year:** 2023

**Project Type:** RPWRF Maintenance  
**Budget Stage:** Adopted Budget

**Year Identified:** 2017  
**Region:** District 3

**Description**

This project will replace expansion joints before they fail and cause major damage/hazards/expense at the treatment facility.

**Justification**

The piping systems that transport sludge and other liquids between treatment plant facilities have expansion joints to absorb vibrations and small movements such that the piping itself does not fail. These expansion joints need to be replaced before they fail as part of regular maintenance.

**Comprehensive Plan Goals Met**

Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

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5200-700 - Sewer
Study - Water Reuse

Project Number: WWM-2017-46  Budget Year: 2023
Project Type: Collections Capital  Budget Stage: Adopted Budget
Year Identified: 2017  Region: District 3

**Description**
This study will investigate options for cost-effective implementation of treated wastewater.

**Justification**
Class A effluent will be produced from the Next Level of Treatment. The opportunities and barriers for using the treated wastewater in cost effective applications will be evaluated.

**Comprehensive Plan Goals Met**
CFU1.2 - Operational Efficiency. Reuse would promote less aquifer pumping and more efficient use of our resources. CFU3.3 - Coordination. Project will require coordination with other utilities and departments. CFU5.2 - Water Conservation. Project will require less aquifer pumping.

**Funding**

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**5200-700 - Sewer**

**Main Avenue Stormwater, Wall to Browne**

**Project Number:** WWM-2017-50  
**Budget Year:** 2023  
**Project Type:** Stormwater  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2017  
**Region:** District 2

**Description**

Stormwater improvements will be constructed associated with the street project. This is an integrated project.

**Justification**

The downtown area has a history of rain related backups and surcharging. This project will provide additional capacity for the rain related issues. The planning analysis will target using the Clean Water drain as an alternative for treated stormwater effluent disposal.

**Comprehensive Plan Goals Met**

CFU 3.2 - Utility Installation. This project will be constructed with a street project to reduce disruption and protect the infrastructure investment. CFU 5.3 - Stormwater. This project will manage stormwater to return to natural drainage and protect water quality.

**Funding**

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Description
This equipment is used to maintain and rehabilitate our existing sanitary sewer and stormwater collection systems. Also used in the citywide snow removal.

Justification
To maintain the capacity of the existing collection systems.

Comprehensive Plan Goals Met
CFU 1.2 - Operational Efficiency. CFU 1.3 - Maintenance. CFU 5.4 - Groundwater.

Funding

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**5200-700 - Sewer**  
**2 Mechanical Sewer Rodders 2027**

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**Description**
Replace Equipment working on Storm and Sewer pipes.

**Justification**
Maintain utilities for our customers.

**Comprehensive Plan Goals Met**
CFU 1.2 - Operational Efficiency. CFU 5.4 - Groundwater.

**Funding**

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5200-700 - Sewer
Liquid Disinfection Building Reskinning

Project Number: WWM-2017-120  
Budget Year: 2023
Project Type: RPWRF Capital  
Budget Stage: Adopted Budget
Year Identified: 2017  
Region: District 3

**Description**

This project would reroof and reside the existing Liquid Disinfection Building at the Riverside Park Water Reclamation Facility (RPWRF).

**Justification**

The Liquid Disinfection Building is experiencing roofing and siding failures, allowing weather and water exposure of critical equipment including electrical controls. Reskinning will preserve critical function of plant equipment as well as improving aesthetics of the facility to match the approved master plan. Reskinning will also allow for modifications to facilitate easier removal and replacement of equipment housed inside. Currently replacement of some equipment is not possible.

**Comprehensive Plan Goals Met**

Capital Facilities and Utilities; CFU1, Adequate Public Facilities and Services, CFU2, Concurrency, CFU3 Coordination, CFU4 Service Provision, CFU5, Environmental Concerns

**Funding**

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5200-700 - Sewer
Broadway Avenue, Cedar to Post Street, Sewer Replacement

Project Number: WWM-2018-51  
Budget Year: 2023

Project Type: Collections Capital  
Budget Stage: Adopted Budget

Year Identified: 2018  
Region: District 3

**Description**
As part of the street reconstruction project, the 8-inch and 10-inch sewer pipe along with the brick manholes will be replaced. This is an integrated project.

**Justification**
The clay sewer lines in Broadway Avenue were installed in 1897 and 1911. This sewer need to be replaced or improved using Cured in Place Pipe (CIPP). Brick manholes in this section of Broadway Avenue will probably not survive construction and need to be replaced.

**Comprehensive Plan Goals Met**
CFU 1.3 - Maintenance. This project will rehabilitate an existing sewer. CFU 3.2 - Utility Installation. This project will be constructed with a street project to reduce disruption and protect the infrastructure investment.

**Funding**

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5200-700 - Sewer
Havana Street, Broadway to Sprague Avenue Sewer Upgrades

Project Number: WWM-2018-52
Project Type: Collections Capital
Year Identified: 2018
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 1

Description
As part of the street reconstruction project, the existing 8-inch sewer pipe in will be replaced.

Justification
The existing 8-inch clay sewer pipe in Havana will probably need to be reconstructed because of its proximity to the water main when the water main is replaced.

Comprehensive Plan Goals Met
CFU 3.2 - Utility Installation. This should be done in coordination with public street projects.

Funding

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5200-700 - Sewer
Spokane Falls Blvd, Post to Division, Sewer Replacement

Project Number: WWM-2018-53  Budget Year: 2023
Project Type: Collections Capital  Budget Stage: Adopted Budget
Year Identified: 2018  Region: District 2

Description
As part of the street reconstruction project, brick manholes will be replaced. This is an integrated project.

Justification
The clay sewer lines in Spokane Falls Boulevard improved using Cured in Place Pipe (CIPP). Brick manholes in this section of this project will probably not survive construction and need to be replaced.

Comprehensive Plan Goals Met
CFU 1.3 - Maintenance. This project will rehabilitate an existing capital facility.

Funding

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5200-700 - Sewer
Mallon Avenue, Monroe to Howard St, Sewer Replacement

Project Number: WWM-2018-54
Project Type: Collections Capital
Year Identified: 2018
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 3

Description
As part of the street reconstruction project, the 10-inch sewer pipe and brick manholes will be replaced. This is an integrated project.

Justification
The clay sewer lines in Mallon Avenue were installed in 1917. This sewer need to be replaced or improved using Cured in Place Pipe (CIPP). Brick manholes in this section of Mallon Avenue will probably not survive construction and need to be replaced. Analysis during the planning phase will determine the sewer needs for growth and the most cost effective alternative for construction.

Comprehensive Plan Goals Met
CFU 1.3 - Maintenance. This project will rehabilitate an existing capital facility. CFU 2.1 - Available Public Facilities. Construction of this project will provide adequate infrastructure at the time of development.

Funding

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Spokane 2023 Capital Improvement Program
5200-700 - Sewer
Thor and Freya, Hartson to Sprague Avenue Sewer Upgrades

Project Number: WWM-2018-55
Project Type: Collections Capital
Year Identified: 2018

Budget Year: 2023
Budget Stage: Adopted Budget
Region: Multiple

Description
Sewer pipe and manhole upgrades associated with the street project. This is an integrated project.

Justification
The street construction is planned to be concrete for Thor and Freya for this project. Utilities need to be upgraded for the life of the concrete pavement. Upgrades will be in conjunction with the street project.

Comprehensive Plan Goals Met
CFU 3.2 - Utility Installation should be coordination with public street projects.

Funding

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5200-700 - Sewer
Riverside Ave, Monroe St to Wall St, Sewer Replacement

Project Number: WWM-2018-60
Project Type: Collections Capital
Year Identified: 2018
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 2

Description
As part of the street reconstruction project, brick manholes and vitrified clay pipe will be replaced and/or lined. This is an integrated project.

Justification
Brick manholes and vitrified clay pipe in this section of Riverside Avenue will probably not survive construction and need to be replaced and/or lined.

Comprehensive Plan Goals Met
CFU 1.3 - Maintenance.

Funding

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5200-700 - Sewer
Broadway, Cedar to Post, Stormwater Separation

**Project Number:** WWM-2018-70  
**Budget Year:** 2023  
**Project Type:** Stormwater  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2018  
**Region:** District 3

**Description**
This project will provide stormwater improvements with the street project. The improvements will include separation and treatment from the combined sewer system. Portions of the project are also located within an area served by separated storm pipe. These areas are being evaluated for treatment.

**Justification**
This project is necessary to reduce sanitary sewer overflows and remove untreated stormwater from the Spokane River and improve water quality.

**Comprehensive Plan Goals Met**
CFU 5.3 - Stormwater. This project will manage stormwater to return to natural drainage and protect water quality.

**Funding**

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**5200-700 - Sewer**  
**Washington Basin Stormwater Project (Knox and Montgomery)**

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**Description**

This project provides the stormwater treatment facilities for the Monroe St project completed in 2018. The facilities are proposed to be Modular Wetlands located off of Monroe Street on Knox Avenue between Wall and Howard. Construction will be completed in fall/winter of 2022.

**Justification**

This project is necessary to remove untreated stormwater from the Spokane River and improve water quality.

**Comprehensive Plan Goals Met**

CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

**Funding**

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5200-700 - Sewer
Study - Indian Trail Stormwater

Project Number: WWM-2018-73
Project Type: Stormwater
Year Identified: 2018
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 3

Description
The Indian trail area continues to have flooding issues. This study will include geotechnical investigation as well as evaluating alternatives to both improve water quality and increase infiltration capacity.

Justification
This study is necessary to relieve flooding in the area as well as improve water quality.

Comprehensive Plan Goals Met
CFU 5.3 - Stormwater. This project will propose a management plan for the Indian Trail area.

Funding

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5200-700 - Sewer
Spokane Falls Blvd, Post to Division

Project Number: WWM-2018-74
Project Type: Stormwater
Year Identified: 2018

Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 2

Description
This project will provide stormwater treatment and separation along Spokane Falls Blvd as part of the street project. The runoff currently drains to the combined sewer system. This is an integrated project.

Justification
The downtown area has a history of rain related backups and surcharging. This project will provide additional capacity for the rain related issues.

Comprehensive Plan Goals Met
CFU 3.2 Utility Installation. This project will be constructed with a street project to reduce disruption and protect the infrastructure inves NE 1 Water Quality. Protect the Aquifer; CFU 5.3 Stormwater. This project will manage stormwater to return to natural drainage and protect water quality.

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**5200-700 - Sewer**  
**Mallon Avenue, Monroe to Howard, Stormwater Management**

**Project Number:** WWM-2018-75  
**Budget Year:** 2023  
**Project Type:** Stormwater  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2018  
**Region:** District 3

**Description**
This project will provide treatment and potential retention of stormwater prior to discharging back into the existing separated storm system. This is an integrated project.

**Justification**
This project will improve the water quality in the Spokane River. Treatment will be provided prior to discharging the runoff. This untreated runoff currently drains through an MS4 to the Spokane River.

**Comprehensive Plan Goals Met**
CFU 3.2-Utility Installation. This project will be constructed with a street project to reduce disruption and protect the infrastructure investm.

NE 1-Water Quality. Protect the Aquifer; CFU 5.3-Stormwater. This project will manage stormwater to return to natural drainage and protect water quality.

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5200-700 - Sewer
Havana Street, Sprague to Broadway Separation

Project Number: WWM-2018-79
Project Type: Stormwater
Year Identified: 2018

Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 1

Description
The project will provide stormwater improvements along Havana within the street project limits. The stormwater improvements will likely include bioretention outside of the right of way. This is an integrated project.

Justification
This area currently drains into the combined sewer system. Separating stormwater from the combined sewer system will reduce the volume treated at the Riverside Park Water Reclamation Facility and better protect the interceptor.

Comprehensive Plan Goals Met
CFU 3.2 - Utility Installation. This project will be constructed with a street project to reduce disruption and protect the infrastructure investment. CFU 5.3 - Stormwater. This project will manage stormwater to return to natural drainage and protect water quality.

Funding

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**5200-700 - Sewer**  
**Boiler Burners and Controls**

**Project Number:** WWM-2018-110  
**Budget Year:** 2023  
**Project Type:** RPWRF Maintenance  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2018  
**Region:** District 3

**Description**  
Plant boilers 1, 2, and 3 need new Burners and Controls to maintain their functionality.

**Justification**  
The existing burner are worn to the point where they no longer function properly and both the existing burners and controls are now old enough that they are obsolete. New repair parts are not available and they can only be kept operational by acquiring used parts. New burners and controls are needed to insure reliability and to meet current emissions and safety standards.

**Comprehensive Plan Goals Met**  
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

**Funding**

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5200-700 - Sewer
4th Avenue, Sunset to Maple St, Sewer Replacement

Project Number: WWM-2018-156
Project Type: Collections Capital
Year Identified: 2018
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 2

Description
As part of the street reconstruction project, 10-inch sewer pipe and brick manholes will be replaced or improved with Cured In Place Pipe (CIPP) This is an integrated project.

Justification
The clay sewer lines in 4th Avenue were installed in 1897. This sewer need to be replaced or improved using Cured in Place Pipe (CIPP). Brick manholes in this section of 4th Avenue will probably not survive construction and need to be replaced.

Comprehensive Plan Goals Met
CFU 1.3 - Maintenance. This project will rehabilitate an existing capital facility.

Funding

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5200-700 - Sewer
Rehabilitation of Combined Sewer Overflow (CSO) Facilities

**Project Number:** WWM-2019-7  
**Budget Year:** 2023  
**Project Type:** Collections Capital  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2019  
**Region:** Multiple

**Description**
As the CSO program approaches completion, several of the earlier constructed facilities are not operating as was expected during the design process. CSO 34-3 Ray, 34-2 Underhill, and CSO 10 need rehabilitation.

**Justification**
CSO 10 Buckeye & Grace needs a PLC to operate the flush gates and the CTI channel to be reshape because of low flow rates. The lid of CSO 34-3 leaks causing corrosion of the rebar. CSO 34-2 needs the CTI reshaped to increase velocity and reduce odors. These facilities require continual and on-going maintenance to operate correctly. Cost estimates will be refined as the project charter is developed.

**Comprehensive Plan Goals Met**
CFU 1.2 - Operational Efficiency. This project will improve the operational efficiency by reducing required maintenance. CFU 1.3 - Maintenance. This project will rehabilitate an existing capital facility.

**Funding**

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5200-700 - Sewer
NSC Planning - Interstate 90 to Sprague Avenue

Project Number: WWM-2019-9  Budget Year: 2023
Project Type: Stormwater  Budget Stage: Adopted Budget
Year Identified: 2019  Region: District 2

Description
Utility planning for relocation or protection of stormwater facilities impacted by the planned North Spokane Corridor (NSC) construction. Examine opportunities for stormwater separation and treatment.

Justification
To relocate or protect stormwater facilities due to conflicts with planned North Spokane Corridor construction. Separate and treat stormwater.

Comprehensive Plan Goals Met
CFU 1 - Adequate Public Facilities and Services. CFU 3 - Coordination.

Funding

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5200-700 - Sewer
Cochran Basin Lift Station and Control Facility

Description
A concrete facility will be constructed to divert flow from Cochran Basin to the bio-retention facilities. A lift station, valves and weir will be included as part of the control strategy.

Justification
By eliminating the discharge of stormwater from the Cochran Basin, approximately 50% of the City of Spokane's stormwater discharge to the Spokane River will be removed. Approximately 90% of stormwater from this basin will be treated to meet water quality requirements from the Department of Ecology.

Comprehensive Plan Goals Met
CFU 5.3 - Stormwater. This project reduces to impacts of urban runoff.

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5200-700 - Sewer
Catch Basin Cleaner Trucks

Project Number: WWM-2019-20
Project Type: Collections Vehicles and Equipment
Year Identified: 2019

Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 1

Description
These trucks are used to clean Storm inlets throughout the city and assist other departments with construction or general pumping requirements.
Includes 2 trucks in 2025, 1-2027, 1 in 2028

Justification
To maintain the integrity and the capacity of the Storm System.

Comprehensive Plan Goals Met
CFU 1.3 - Capital Facilities and Utilities Maintenance. CFU 5.4 - Ground Water.

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5200-700 - Sewer
Heavy Construction Equipment- Backhoe 2025

Project Number: WWM-2019-21  
Budget Year: 2023
Project Type: Collections Vehicles and Equipment  
Budget Stage: Adopted Budget
Year Identified: 2019  
Region: District 1

Description
This equipment is used to maintain and rehabilitate our existing sanitary and stormwater collection systems.

Justification
To maintain the capacity of the aging wastewater and stormwater collection systems.

Comprehensive Plan Goals Met
CFU 1.2 - Operational Efficiency. CFU 1.3 - Maintenance. CFU 5.4 - Groundwater.

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5200-700 - Sewer
Whistalks Way Sewer Upgrades

Project Number: WWM-2019-25
Project Type: Collections Capital
Year Identified: 2019
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 3

Description
The 8-inch sewer in Fort George Wright and siphon under Spokane River will be upgraded with the streets project.

Justification
The existing 8-inch siphon under the Spokane River is near its capacity. Upgrades to the siphon along with the lift stations have occurred as new developments were constructed in the area over the past 15 years. During the planning phase, a comprehensive analysis of the sewer system in the area will be completed to determine the most cost effective alternative to provide sewer service for growth along Ft. George Wright and may include a new lift station, river crossing (either bridge or boring), and connecting piping.

Comprehensive Plan Goals Met
CFU 1.2 - Operational Efficiency. Operational efficiency will be improved by reducing required maintenance. CFU 2.1 - Available Public Facilities. Provide infrastructure at time of development. CFU 3.2 - Utility Installation. Constructed with a street project.

Funding

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Spokane 2023 Capital Improvement Program
5200-700 - Sewer
NSC Planning - Interstate 90 to Sprague Avenue

Project Number: WWM-2019-29  
Budget Year: 2023

Project Type: Collections Capital  
Budget Stage: Adopted Budget

Year Identified: 2019  
Region: District 2

Description
Utility planning for relocation, protection or upgrade of wastewater utility facilities impacted by the planned North Spokane Corridor (NSC).

Justification
To relocate or protect wastewater facilities due to conflicts with planned North Spokane Corridor construction.

Comprehensive Plan Goals Met
CFU 1 - Adequate Public Facilities and Services; CFU 3 - Coordination

Funding

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5200-700 - Sewer
Sunset Blvd Bike Path, Deer Heights to Royal

Project Number: WWM-2019-31
Project Type: Stormwater
Year Identified: 2019

Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 2

Description
The project will include upgrades to the stormwater system associated with the bike path construction. Design will occur in 2019 because of funding constraints. This is an integrated project.

Justification
The stormwater along the length of the project is currently managed in open ditches adjacent to private property. The proposed project will manage stormwater more efficiently and will provide treatment prior to infiltration into the ground.

Comprehensive Plan Goals Met
CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

Funding

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5200-700 - Sewer
Desmet & Superior Sewer Replace Pipe Under R/R & Adj. Lines

Project Number: WWM-2019-42
Project Type: Collections Capital
Year Identified: 2019

Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 1

Description
700 feet of 10-inch pipe to be replaced due to settlement and material deterioration by reduction of cement paste by the generation of significant levels of hydrogen sulfide gas and the end product of sulfuric acid.

Justification
This project is necessary because continued deterioration of the pipe will result in collapse and failure including potential overflow of sewage into the Spokane river.

Comprehensive Plan Goals Met
CFU 1.3 - Maintenance. The project repairs existing assets.

Funding

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5200-700 - Sewer
Underground Injection Control (UIC) Regulation Compliance

Project Number: WWM-2019-44
Budget Year: 2023
Project Type: Stormwater
Budget Stage: Adopted Budget
Year Identified: 2019
Region: District 1

Description
Identification and retrofit of non-compliant UICs (i.e. drywells) throughout the City. The replacement will coordinate with existing construction projects.

Justification
Replacement will be prioritized for the most critical UIC as identified by the UIC registration process, which protects the Spokane Rathdrum Prairie Sole Source Drinking Water Aquifer. Non complying UICs / drywells can impact the aquifer by introducing contaminates below ground without adequate treatment. This program will bring UICs into federal and state compliance.

Comprehensive Plan Goals Met
CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

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5200-700 - Sewer
NSC Planning - Sprague Avenue to Spokane River

Project Number: WWM-2019-46  
Budget Year: 2023

Project Type: Collections Capital  
Budget Stage: Adopted Budget

Year Identified: 2019  
Region: District 1

Description
Utility planning for relocation, protection or upgrade of wastewater utility facilities near the planned North Spokane Corridor. This planning work began in 2019 and will continue through 2022.

Justification
To relocate or protect wastewater facilities due to conflicts with planned North Spokane Corridor construction.

Comprehensive Plan Goals Met
CFU 1 - Adequate Public Facilities and Services. CFU 3 - Coordination.

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5200-700 - Sewer
Biofilter Media Replacement

Project Number:       WWM-2019-56
Project Type:         RPWRF Maintenance
Year Identified:      2019
Budget Year:          2023
Budget Stage:         Adopted Budget
Region:               District 3

Description
The scheduled replacement of the bark media in the odor control Biofilter beds that scrub odors from the air out of the sludge handling building.

Justification
The Biofilter removes the strong odors that come from the sludge processing building. The media used to absorb odors is simply bark, which over time decomposes and loses its ability to continue to scrub the air. Routine replacement of the media is required every few years to maintain proper function of the facility.

Comprehensive Plan Goals Met
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

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**5200-700 - Sewer**
**Turblex Blower Service**

**Project Number:** WWM-2019-67  
**Project Type:** RPWRF Maintenance  
**Year Identified:** 2019

**Budget Year:** 2023  
**Budget Stage:** Adopted Budget  
**Region:** District 3

**Description**
The project is the in-depth full servicing of the aeration basin (AB) blowers.

**Justification**
The AB blowers provide the air to maintain dissolved oxygen levels needed for the activated sludge process. They are complex turbo blowers and factory service is required on 5 year intervals on each of the blowers.

**Comprehensive Plan Goals Met**
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

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5200-700 - Sewer
Silo Digester No. 3 Mixing System

Project Number: WWM-2019-71
Project Type: RPWRF Maintenance
Year Identified: 2019
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 3

Description
This project would add a mixing system to Silo Digester No. 3.

Justification
Silo Digester No. 3 can only be used as a secondary digester (as it has no heating system currently). After the initial running of this digester it was confirmed that without a mixing system that grit and other heavy material settled several feet thick on the bottom and requires difficult, expensive, and potentially dangerous cleaning efforts. A mixing system, similar to the other digesters, will alleviate this problem.

Comprehensive Plan Goals Met
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

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NSC - Greene Basin Storm Improvements

**Description**
Install storm swale at North end of SCC campus near Upriver Drive to reduce flow to Spokane River.

**Justification**
North Spokane Corridor (NSC) construction will eliminate the current Greene Basin outflow into Spokane River. Construction of a swale required to infiltrate stormwater.

**Comprehensive Plan Goals Met**
CFU 5.3 - Implement a stormwater management plan to reduce impacts from urban runoff.

**Funding**

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### 5200-700 - Sewer
### NSC - Trent Interchange Storm and Sewer Reroute

**Project Number:** WWM-2020-9  
**Budget Year:** 2023  
**Project Type:** Collections Capital  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2020  
**Region:** District 1

#### Description
Reroute utilities currently in Trent Ave around new North Spokane Corridor (NSC) Trent Interchange, possibly to include reroutes at Trent/Freya Intersection. The project includes City funds for betterments.

#### Justification
This project will be completed in support of the NSC.

#### Comprehensive Plan Goals Met
CFU 1.2 - Operational Efficiency, Require the development of capital improvement projects that either improve the city's operational efficiency or reduce costs by increasing the capacity, use, and/or life expectancy of existing facilities.

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5200-700 - Sewer
NSC - I-90 Sewer Interceptor Crossings

Project Number: WWM-2020-16  
Project Type: Collections Capital  
Year Identified: 2020  
Budget Year: 2023  
Budget Stage: Adopted Budget  
Region: District 1

Description
Realignment and extension of sewer mains in Stone St. (66-inch) and Lee St. (24-inch) to support the North Spokane Corridor (NSC) Trumpet area and 2nd Ave realignment. Manholes to be installed as needed. Casing pipes may also be required for existing I-90 sewer main crossings per WSDOT; additional evaluation is needed to determine feasibility. Cost impacts are expected if casings are required.

Justification
This project will be completed in support of the NSC.

Comprehensive Plan Goals Met
CFU 1.2 - Operational Efficiency, Require the development of capital improvement projects that either improve the city?s operational efficiency or reduce costs by increasing the capacity, use, and/or life expectancy of existing facilities.

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5200-700 - Sewer
NSC - 2nd Ave and Trumpet Area Sewer Reroutes

**Project Number:** WWM-2020-17  
**Budget Year:** 2023  
**Project Type:** Collections Capital  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2020  
**Region:** District 2

**Description**
Collection system re-routes and abandonments needed on the north side of I-90 to support North Spokane Corridor (NSC) construction. Major elements of work to include installation of new sewer main along 2nd Ave (Freya St. to Stone St.) and abandonment/removal of lines within NSC Trumpet connection footprint. New connections to be provided as needed.

**Justification**
This project will be completed in support of the NSC Sprague Ave to Spokane River Phase II project.

**Comprehensive Plan Goals Met**
CFU 1.2 - Operational Efficiency, Require the development of capital improvement projects that either improve the city’s operational efficiency or reduce costs by increasing the capacity, use, and/or life expectancy of existing facilities.

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### 5200-700 - Sewer
#### 1 1-Ton Dump Truck 2023

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#### Description
This truck is used for a variety of small construction projects by multiple crews.

#### Justification
To maintain, repair and rehabilitate sanitary and stormwater infrastructure.

#### Comprehensive Plan Goals Met
CFU 1.2 - Operational Efficiency.

#### Funding

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5200-700 - Sewer
Skidsteer - 2026

Project Number: WWM-2020-28  Budget Year: 2023
Project Type: Collections Vehicles and Equipment  Budget Stage: Adopted Budget
Year Identified: 2020  Region: District 1

Description
This equipment is used to maintain and rehabilitate our existing sanitary and stormwater collections systems.

Justification
This equipment helps us to maintain the capacity of our aging wastewater and stormwater collections systems.

Comprehensive Plan Goals Met
CFU 1.2 - Operational Efficiency. CFU 1.3 - Maintenance. CFU 5.4 - Groundwater.

Funding

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**5200-700 - Sewer**

**Heavy Construction Van- 2023**

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**Description**

This Vehicles is used to carry construction equipment, supplies and safety equipment to jobsite for the construction crew to work out of while repairing and rehabilitating our existing sanitary and stormwater collection systems.

**Justification**

To maintain the capacity of the aging wastewater and stormwater collection systems.

**Comprehensive Plan Goals Met**

CFU 1.2 - Operational Efficiency. CFU 1.3 - Maintenance. CFU 5.4 - Groundwater.

**Funding**

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# 5200-700 - Sewer
## Heavy Construction Van- 2026

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**Description**
This Vehicles is used to carry construction equipment, supplies and safety equipment to jobsite for the construction crew to work out of while repairing and rehabilitating our existing sanitary and stormwater collection systems.

**Justification**
To maintain the capacity of the aging wastewater and stormwater collection systems.

**Comprehensive Plan Goals Met**
CFU 1.2 - Operational Efficiency. CFU 1.3 - Maintenance. CFU 5.4 - Groundwater.

**Funding**

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Spokane 2023 Capital Improvement Program 489
5200-700 - Sewer
12th Avenue - Deer Heights to Flint

Project Number: WWM-2020-38  
Project Type: Collections Capital  
Year Identified: 2020  
Budget Year: 2023  
Budget Stage: Adopted Budget  
Region: District 2

Description
The project will construct a 12-inch sewer line in 12th Avenue between Deer Height and Flint Roads. This is an integrated project.

Justification
This project is necessary to provide sewer service to proposed development on 12th Avenue and future developments north of 12th Avenue.

Comprehensive Plan Goals Met
CFU 3.3 - Utilities Coordination. The project coordinates utility installations with the larger project.

Funding

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5200-700 - Sewer
Sewer Line Replacement

Project Number: WWM-2020-39  
Project Type: Collections Maintenance  
Year Identified: 2020  
Budget Year: 2023  
Budget Stage: Adopted Budget  
Region: District 1

Description
Sanitary pipes needing to be replaced due to deterioration of pipe and sags within pipe sections throughout the city.

Justification
As sanitary lines are deterioration and have major sags in them causing H2S issues and the need for frequent maintenance to prevent plugging. The increased frequency in cleaning is also causing wear to the pipe.

Comprehensive Plan Goals Met
CFU 1.2 - Operational Efficiency. Operational efficiency will be improved by reducing required maintenance. CFU 1.3 - Maintenance. The project repairs existing assets.

Funding

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5200-700 - Sewer
Northeast Lift Station Forcemain

Project Number: WWM-2020-40  
Project Type: Collections Capital  
Year Identified: 2020  
Budget Year: 2023  
Budget Stage: Adopted Budget  
Region: District 1

Description
The project constructs 3,300 feet of 8-inch forcemain from the intersection of Myrtle/Rowan to the Northeast lift station. The existing forcemain is too large. This project will provide a more appropriately sized pipe to more efficiently move sewage from the lift station.

Justification
This project is necessary because it reduces stagnant sewage in the system. This reduces Hydrogen sulfide in the forcemain which is a health risk.

Comprehensive Plan Goals Met
CFU 1 - Adequate Public Facilities and Services.

Funding

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5200-700 - Sewer
Wind River Force Main Replacement

Project Number: WWM-2020-44
Project Type: Collections Maintenance
Year Identified: 2020
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 3

Description
The existing 3200' of 6-inch Plastic (PVC) forcemain and 940' of 4-inch Plastic (PVC) was installed in 1990. This project will replace this PVC pipe with ductile iron pipe. Approximately 4,100-feet of forcemain will be replaced.

Justification
Older PVC forcemains are prone to splitting and failure. Replacing these pipes with ductile iron, increases the life expectancy of the forcemain and reduces the risk of the pipes failure and sewerage spilling to ground.

Comprehensive Plan Goals Met
CFU 1 - Adequate Public Facilities and Services.

Funding

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5200-700 - Sewer
Combined Sewer Overflow (CSO) 25 Swale Rehabilitation

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**Description**
Construction of the CSO 25 stormwater swales was completed in 2018. The swales have since experienced plugging, resulting in poor infiltration. This project will construct BMPs to manage the sediment loading that is causing the poor infiltration, as well as rehab plugged portions of the swales.

**Justification**
The project is necessary because standing water creates a health hazard to the public.

**Comprehensive Plan Goals Met**
CFU 1.3 - Maintenance. CFU 5.3 - Stormwater.

**Funding**

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5200-700 - Sewer
Regal - 42nd to 44th Sewer Replacement

Project Number: WWM-2020-46  
Budget Year: 2023
Project Type: Collections Maintenance  
Budget Stage: Adopted Budget
Year Identified: 2020  
Region: District 2

Description
685' of 8' concrete sewer pipe need to be replaced due to deterioration of pipe and sags within pipe sections. Stormwater Infrastructure may need some upgrades.

Justification
The 8' sanitary lines are deteriorating and have major sags in them causing H2S issues and the need for frequent maintenance to prevent plugging. The increased frequency in cleaning is also causing wear to the pipe.

Comprehensive Plan Goals Met
CFU 1.2 - Operational Efficiency. Operational efficiency will be improved by reducing required maintenance. CFU 1.3 - Maintenance. The project repairs existing assets.

Funding

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5200-700 - Sewer
Wind River Lift Station Improvements

Project Number: WWM-2020-64  
Budget Year: 2023

Project Type: RPWRF Capital  
Budget Stage: Adopted Budget

Year Identified: 2020  
Region: District 3

Description
The project will replace existing pumps, motors and MCCs within the existing station.

Justification
The equipment and controls at the lift station are beyond their useful life and need to be replaced.

Comprehensive Plan Goals Met
CFU 1.2 - Operational Efficiency. This project improves the operational efficiency of the sewer system. CFU 1.3 - Maintenance. This project maintains an existing asset.

Funding

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**5200-700 - Sewer**
**Francis and Assembly Lift Station Improvements**

Project Number: WWM-2020-65  
Budget Year: 2023  
Project Type: RPWRF Capital  
Budget Stage: Adopted Budget  
Year Identified: 2020  
Region: District 3

**Description**
The project will replace existing pumps, motors and MCCs within the existing station.

**Justification**
The equipment and controls at the lift station are beyond their useful life and need to be replaced.

**Comprehensive Plan Goals Met**
CFU 1.2 - Operational Efficiency. This project improves the operational efficiency of the sewer system. CFU 1.3 - Maintenance. This project maintains an existing asset.

**Funding**

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**5200-700 - Sewer**

**Emergency Overflow Modifications for Digesters 4 and 5**

**Project Number:** WWM-2020-74  
**Budget Year:** 2023  
**Project Type:** RPWRF Maintenance  
**Budget Stage:** Adopted Budget  
**Year Identified:** 2020  
**Region:** District 3

**Description**

This project would increase the capacity of the emergency overflow system for Digesters 4 and 5. If this project gets moved out there is a risk that could be taken. The overflows were designed to small and if the digester has a rapid volume expansion it would cause explosion of digester.

**Justification**

Digesters can experience a rapid volume expansion of the sludge they contain. Without properly sized emergency overflows this can lead to failure of the digester vessel itself. The existing overflow system does not have the capacity to relieve the pressure of a significant expansion event.

**Comprehensive Plan Goals Met**

Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

**Funding**

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5200-700 - Sewer
Crestline Ct. Forcemain Replacement

Project Number: WWM-2020-1523
Project Type: Collections Maintenance
Year Identified: 2020
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 2

Description
The existing 8-inch Plastic (PVC) force main was installed in 1984. This project will replace this PVC pipe with a 8-inch ductile iron pipe. The force main is approximately 750-feet long. Pavement patching will occur in the area of Crestline Ct. and Illinois where necessary.

Justification
Older PVC force mains are prone to splitting and failing. Replacing these pipes with ductile iron, increases the life expectancy of the force main and reduces the risk of the pipes failure which prevents sewage from spilling.

Comprehensive Plan Goals Met
CFU 1: Adequate Public Facilities and Services

Funding

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### 5200-700 - Sewer

**Future Development Sewer Upgrades**

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**Description**

Sewer improvement projects in coordination with developer projects.

**Justification**

It is important to upgrade our sewer system as opportunities become available. Developer projects provide an opportunity and oftentimes costs savings.

**Comprehensive Plan Goals Met**

CFU 1.3 - Maintenance. CFU 2.1 - Available Public Facilities. CFU 3.3 - Utilities Coordination.

**Funding**

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## 5200-700 - Sewer
### West Plains Sewer Lift Station

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### Description
This project is a new regional sewage lift station to serve the West Plains area. Sewer inverts are too low in this area of the West Plains to convey the sewage east into the City's system. There is an expectation that development and the PDA will fund the project.

### Justification
As development continues to the west, the lift station will be required push sewage to the east where it can drain via gravity.

### Comprehensive Plan Goals Met
CFU 2.1 - Available Public Facilities. CFU 6.2 - Economic Development.

### Funding

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## 5200-700 - Sewer
### Study - Downtown Stormwater Relief Phase 2

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### Description
This project is a study that will analyze potential stormwater separation solutions in the downtown area. These solutions, once implemented, will create additional capacity in the sanitary sewer system. This is the second phase of this study which will focus more on western side of the downtown core south of the river.

### Justification
The downtown area generates large amounts of runoff due to the impervious nature of the area. This runoff drains to the combined system and overwhelms the sanitary system during storm events. This project will present solutions to separate runoff from the system and create capacity in the sanitary system.

### Comprehensive Plan Goals Met
CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

### Funding

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Description
This project will construct stormwater facilities throughout the basin to separate stormwater from the Washington outfall, the City's second largest stormwater outfall to the Spokane River. A basin wide study will be performed in 2024 to develop solutions and individual projects.

Justification
This project is necessary to remove untreated stormwater from the Spokane River and improve water quality.

Comprehensive Plan Goals Met
CFU 5.3 - Stormwater. This project will reduce the impacts of urban runoff.

Funding

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5200-700 - Sewer
Drywell Rehabilitation in Wellhead Protection Zones

Project Number: WWM-2021-20
Project Type: Stormwater
Year Identified: 2021

Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 1

Description
There are drywells located within wellhead protection zones that do not meet current Underground Injection Control (UIC) requirements. This project will rehabilitate or replace those drywells to meet current requirements and help protect the aquifer.

Justification
This project is necessary to protect the aquifer from contamination.

Comprehensive Plan Goals Met
CFU 5.3 - Stormwater: Project will manage impacts of runoff. CFU 5.4 - Groundwater: Project will protect groundwater.

Funding

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**5200-700 - Sewer**  
**Closed Circuit Television Inspection Trucks**

- **Project Number:** WWM-2021-28  
- **Budget Year:** 2023  
- **Project Type:** Vehicles and Equipment  
- **Budget Stage:** Adopted Budget  
- **Year Identified:** 2021  
- **Region:** District 1

**Description**

This truck is used to inspect all new Storm and Sanitary sewer pipes as well as routine inspection of existing infrastructure for blockages and structural condition.

**Justification**

To maintain the capacity and integrity of the wastewater collection system.

**Comprehensive Plan Goals Met**

CFU 1.2 - Operational Efficiency. CFU 5.4 - Groundwater.

**Funding**

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5200-700 - Sewer
10 Yard Dump Trucks

Project Number: WWM-2021-29
Project Type: Collections Vehicles and Equipment
Year Identified: 2021
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 1

Description
These trucks are used in the repair process of sanitary and storm sewer systems throughout the city and assist other departments with construction or snow removal requirements.

Justification
To maintain the integrity and the capacity of the Sanitary Sewer System.

Comprehensive Plan Goals Met
CFU 1.3 - Capital Facility and Utility Maintenance. CFU 1.3 - Maintenance. CFU 5.4 - Ground Water.

Funding

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### 5200-700 - Sewer

**WWC SCADA Equipment Upgrades**

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#### Description
Replace and upgrade existing SCADA equipment

#### Justification
Equipment will reach end of support and will need to be replaced and upgraded

#### Comprehensive Plan Goals Met
CFU-1 Adequate Public Facilities and Services; CFU-5 Environmental Concerns

#### Funding

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5200-700 - Sewer
8- F150 4x4 2023 - 2027

Project Number: WWM-2021-45
Project Type: Collections Vehicles and Equipment
Year Identified: 2021

Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 1

Description
These trucks is used for a variety of tasks of by multiple crews

Justification
To maintain, repair, rehabilitate sanitary and stormwater infrastructure. Inspection of capital and private projects and snow removal.

Comprehensive Plan Goals Met
CFU 1.2 Operational Efficiency

Funding

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# 5200-700 - Sewer
## Engineer Tech Equipment

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### Description

Upgrade existing GPS equipment and new LIDAR capability used by Engineer Techs to locate and map assets.

### Justification

Engineering Techs need to be able to accurately locate and measure assets for consistent and accurate map of infrastructure.

### Comprehensive Plan Goals Met

CFU-1 - Adequate Public Facilities and Services. CFU-5 - Environmental Concerns.

### Funding

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5200-700 - Sewer
Biosolids Front End Loader

**Project Number:** WWM-2021-72  
**Project Type:** RPWRF Vehicles and Equipment  
**Year Identified:** 2021  
**Budget Year:** 2023  
**Budget Stage:** Adopted Budget  
**Region:** District 3

**Description**
Equipment being replaced is a Biosolids Front End Loader.

**Justification**
Biosolids generated at the Riverside Park Water Reclamation Facility are applied to private farmland in accordance with Federal and State regulations. Replacement of Biosolids moving equipment is necessary to maintain the reliability necessary to meet Biosolids application regulations. This project is the purchase of a front end loader to replace the one that has reached the end of its service life. The loader is used in rough conditions; daily use, rough dirt roads and fields. The service life is approximately 5 to 6 years.

**Comprehensive Plan Goals Met**
Capital Facilities and Utilities: CFU1 - Adequate Public Facilities and Services. CFU2 - Concurrency. CFU3 - Coordination. CFU4 - Service Provision. CFU5 - Environmental Concerns.

**Funding**

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5200-700 - Sewer
Maintenance and Warehouse Roof Membrane Replacement

Project Number: WWM-2021-85  Budget Year: 2023
Project Type: RPWRF Maintenance  Budget Stage: Adopted Budget
Year Identified: 2021  Region: District 3

Description
This project would renew the roof membrane for the existing Maintenance and Warehouse building areas at the Riverside Park Water Reclamation Facility (RPWRF).

Justification
The Maintenance and Warehouse Building is experiencing roofing failures, allowing weather and water exposure of critical equipment including electrical controls. Replacing the roof membrane will preserve critical function of plant equipment.

Comprehensive Plan Goals Met
Capital Facilities and Utilities; CFU1, Adequate Public Facilities and Services, CFU2, Concurrency, CFU3 Coordination, CFU4, Service Provision, CFU5, Environmental Concerns

Funding

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5200-700 - Sewer
CSO 10/12/Cochran Outfall Repair

Project Number: WWM-2021-1524
Budget Year: 2023
Project Type: Collections Maintenance
Budget Stage: Adopted Budget
Year Identified: 2021
Region: District 3

Description
Repair the existing Combined Sewer Overflow (CSO) 10/12/Cochran Stormwater outfall pipes and headwall.

Justification
Outfall pipe and headwall is made of concrete, but not all sections have reinforcing steel and have started to develop severe cracks and settle due to erosion from river morphology. Repair of outfall pipe and headwall has not been incorporated into other CSO and stormwater projects to expedite their construction.

Comprehensive Plan Goals Met
CFU 1.3: Maintenance

Funding

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**5200-700 - Sewer**

**Exterior Cladding Replacement for Digester Eggs 4 and 5**

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**Description**

Digester Eggs 4 and 5 have an exterior cladding system that is failing and needs replacement in order to continue operating.

**Justification**

The exterior of the digester eggs are covered by metal sheeting that is failing and sections are falling off. This creates both a safety hazard and a risk to the facility. Repairs are being worked on, but a system replacement is necessary in order to extend the useful life of the assets.

**Comprehensive Plan Goals Met**

CFU1: Adequate Public Facilities and Services
CFU2: Concurrency
CFU3: Coordination
CFU4: Service Provision
CFU5: Environmental Concerns

**Funding**

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5200-700 - Sewer
Nine Mile Sewer Re-route

Project Number: WWM-2022-1479
Budget Year: 2023
Project Type: Collections Capital
Budget Stage: Adopted Budget
Year Identified: 2022
Region: District 3

Description
The project will construct approximately 2,700 feet of 8-inch sewer line from Nine Mile Road to Royal Drive. This project will eliminate the lift station at Francis and Assembly.

Justification
The project eliminates the lift station at Francis and Assembly, creating greater system reliability and reducing maintenance costs.

Comprehensive Plan Goals Met
CFU 1.2: Operational Efficiency
CFU 1.3: Maintenance
CFU 3.2: Utility Installation

Funding

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Description
This project includes construction of a stormwater treatment and infiltration facility at the Francis and Assembly intersection. The project separates stormwater from the current Municipal Separate Storm Sewer Systems (MS4) pipe that discharges directly to the Spokane River.

Justification
The project will improve water quality in the Spokane River.

Comprehensive Plan Goals Met
CFU 5.3: Stormwater

Funding

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### Description
The project will improve the Five Mile Regional Infiltration Facility (FMRIF) by installing engineered treatment soil for improved water quality. In addition, the project will install a flow splitter upstream of the facility for potential diversion of additional flows to the facility in the future.

### Justification
The project will improve water quality in the aquifer.

### Comprehensive Plan Goals Met
CFU 5.3: Stormwater  
CFU 5.4: Ground Water

### Funding

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5200-700 - Sewer
Study-Garden Springs Creek Culvert

Project Number: WWM-2022-1484
Project Type: Stormwater
Year Identified: 2022
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 2

Description
This project is a study to evaluate potential solutions to the siltation that occurs in the Garden Springs Creek culvert under I-90. The siltation presents a flooding risk in the area.

Justification
The culvert is an ongoing maintenance issue and presents a flooding risk that needs to be mitigated.

Comprehensive Plan Goals Met
CFU 1.3: Maintenance

Funding

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5200-700 - Sewer
West Plains PDA Stormwater Projects

Project Number: WWM-2022-1485
Project Type: Stormwater
Year Identified: 2022

Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 2

Description
This project will construct stormwater management facilities in the West Plains within the Public Development Authority (PDA) to manage stormwater for current and future development projects.

Justification
These projects will reduce flooding and improve water quality within the service area.

Comprehensive Plan Goals Met
CFU 5.3: Stormwater
CFU 5.4: Groundwater
NE 1.2: Stormwater Techniques
NE 1.5: Natural Water Drainage

Funding

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5200-700 - Sewer
Cheney-Spokane Rd Sewer

Project Number: WWM-2022-1486
Project Type: Collections Capital
Year Identified: 2022

Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 2

Description
This project will construct approximately 4500 linear feet of 21-inch sewer along Cheney-Spokane Road as part of the Marshall Road water project.

Justification
The project is required for planned future development adjacent to Cheney-Spokane Road.

Comprehensive Plan Goals Met
CFU 1.1: Level of Service
CFU 3.3: Utilities Coordination

Funding

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North Spokane Corridor - 3rd Ave Sewer Reroute

Project Number: WWM-2022-1497
Project Type: Collections Capital
Year Identified: 2022
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 2

Description
This project is a sewer realignment on 3rd Ave to enable future North Spokane Corridor (NSC) connection on the I-90 corridor.

Justification
This is needed for the NSC. The City will work on this project in collaboration with the Washington State Department of Transportation (WSDOT).

Comprehensive Plan Goals Met
CFU 1.1: Level of Service
CFU 3.2: Utility Installations
CFU 3.3: Utilities Coordination
CFU 4.3: Underground Utilities

Funding

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5200-700 - Sewer
NW Blvd & Assembly Diversion Modification & PW2 Air Gap

Project Number: WWM-2022-1517
Budget Year: 2023
Project Type: Collections Maintenance
Budget Stage: Adopted Budget
Year Identified: 2022
Region: District 3

Description
This project has two phases; the first is to modify the sewer diversion structure at at NW Blvd & Assembly that was created in the 1980s during the storm separation projects. This improves sewer hydraulics as pipes transition to steep slope down the hill to Aubrey L White.

The second phase will add an air gap with enclosure for source water at the Riverside Park Wastewater Reclamation Facility (RPWRF) in the plant water 2 (PW2) and plant water 3 (PW3) systems. These will be co-located on City property at NW Blvd & Assembly.

Justification
Eliminate potential dry weather overflows and reduce or eliminate daily pumping requirements for PW2 and PW3 RPWRF plant water. This project is necessary to remove untreated relief wastewater from the Spokane River and improve water quality.

Comprehensive Plan Goals Met
CFU 1: Adequate Public Facilities
CFU 3: Coordination
CFU 5: Environmental Concerns
NE 1: Water Quality.

Funding

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5200-700 - Sewer
Shiloh Hills Forcemain replacement

Project Number: WWM-2022-1520
Project Type: Collections Maintenance
Year Identified: 2022
Budget Year: 2023
Budget Stage: Adopted Budget
Region: District 1

Description
The existing 6-inch plastic (PVC) force main in the station at 8115 N. Nevada was installed in 1979. This project will replace this PVC pipe with a 6-inch ductile iron pipe. Approximately 1,000-feet of force main will be replaced. Pavement patching will occur where necessary on Thomas Moore Way.

Justification
Older PVC force mains are prone to splitting and failure, but replacing these pipes with ductile iron increases the life expectancy of the force main and reduces the risk of failure which would result in sewage spilling to ground.

Comprehensive Plan Goals Met
CFU 1: Adequate Public Facilities and Services

Funding

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**5200-700 - Sewer**  
**Manhole Rehab (Cure-in-Place)**

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**Description**

This project will use Cured In Place (CIP) techniques to reline manholes with trenchless methods (polyester felt liner impregnated with a resin or spray-on epoxy/mortar) throughout the city to:

1. Reduce infiltration & inflow (I&I) from groundwater and river sources into catch basins or manholes to help meet the net environmental benefit requirement for the Next Level Treatment (NLT), and
2. Shore up manholes or other structures that have been damaged by hydrogen sulfide and are at risk of failure and must be rehabilitated to prolong their service life.
3. Retrofit seeper catch basins (with holes in them) or non-compliant drywells to be sealed and meet regulatory requirements for two-stage pre-settling device and capture street runoff contaminants/oil prior to reaching the subsurface or downstream sewers. These will be used in conjunction with existing or added drywells that are affected downstream.

**Justification**

Infiltration and Inflow (I&I) must be reduced in combined sewer basins to achieve the Net environmental Benefit basis granted by Department of Ecology, which allowed Next Level of Treatment (NLT) to be a membrane facility with less capacity than the rest of the treatment plant. Additionally if this water does not enter the system it will not require treatment and thus treatment plant costs are lowered. Wet weather peak flows must be reduced to maximize NLT effectiveness. Manholes associated with Cure in Place pipe lining efforts need to be addressed to provide a complete solution to reduce or eliminate sources of infiltration during wet season periods and particularly sewer manholes influenced by high river flows. This same technology is needed for rehabilitating deteriorating manholes in the system where hydrogen sulfide is released, thereby avoiding open-cut removing and replacing asphalt to replace manholes and structures, and will be less disruptive to pedestrian and vehicle traffic during the repair.

**Comprehensive Plan Goals Met**

CFU 1.3: Capital Facilities and Utilities Maintenance  
CFU 5.4: Capital Facilities and Maintenance Ground Water
### 5200-700 - Sewer
Manhole Rehab (Cure-in-Place) - Continued

#### Funding

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**5200-700 - Sewer**

**18th & Perry Sewer Extension**

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**Description**

This project will construct an 8" gravity sewer pipe from 19th Ave to 18th Ave. A pipe stub from 18th is already installed, so impact to the intersection will be minimized.

**Justification**

There is no public sewer main between 19th and 18th Ave in Perry St., where failing septic tanks and cesspools are being used. In addition, there are private sewers in the public right-of-way that aren't being well maintained, and will be intercepted by this new pipe. The proposed gravity sewer will prevent multiple private sewer lift stations that are being implemented and will prevent environmental and public hazards as each system begins to fail. This street has fairly steep topography that lends itself to potential health impacts and nuisance to downstream neighbors.

**Comprehensive Plan Goals Met**

CFU 1.2: Operational Efficiency
CFU 2.1: Available Public Facilities
CFU 3.2: Utility Installation

**Funding**

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### 5200-700 - Sewer
#### Soft Starts for Aeration Basins (AB) Blowers

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**Description**
The controllers that start and stop the blowers that provide the air to the bubbler system in the AB have reached the end of their service life. They can no longer be adequately maintained and need to be replaced.

**Justification**
The aeration basins are critical to the operation of the treatment plant and the treatment of wastewater. Without reliable air supply, the system would fail and the City would violate the conditions of the discharge permit. This equipment will provide operational reliability.

**Comprehensive Plan Goals Met**
CFU1: Adequate Public Facilities and Services  
CFU2: Concurrency  
CFU3: Coordination  
CFU4: Service Provision  
CFU5: Environmental Concerns

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5200-700 - Sewer
Relocate Plant Water Air Gap

Project Number: WWM-2022-1535  
Budget Year: 2023
Project Type: RPWRF Maintenance  
Budget Stage: Adopted Budget
Year Identified: 2022  
Region: Multiple

Description
To protect the City water supply, processed water used at Riverside Park Water Reclamation Facility (RPWRF) goes through an air gap and is then pressurized by pumping. To reduce the need to pump, the air gap will be relocated above the plant to the service point on NW Blvd. These changes will allow gravity to supply most of the pressure needed while preserving the system safety provided by the air gap.

Justification
To protect the City water supply the current system requires energy to be reduced through a pressure reducing valve. The water is then pressurized again though pumping. Moving the location of the air gap to a higher elevation will allow the system to utilize gravity which will save energy that is wasted in the current system.

Comprehensive Plan Goals Met
CFU1: Adequate Public Facilities and Services
CFU2: Concurrency
CFU3: Coordination
CFU4: Service Provision
CFU5: Environmental Concerns.

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Neutanix Server Replacements

Description
The Neutanix Servers used at the Riverside Park Wastewater Reclamation Facility (RPWRF) are at the end of their service life and are no longer being supported by their manufacturer. These servers are critical to plant operations, and need to be replaced before they fail.

Justification
The Neutanix Servers are integral to the operation of the wastewater treatment plant. Without them the plant would not be able to run and the City would violate the conditions of the discharge permit.

Comprehensive Plan Goals Met
CFU1: Adequate Public Facilities and Services
CFU2: Concurrency
CFU3: Coordination
CFU4: Service Provision
CFU5: Environmental Concerns

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5200-700 - Sewer

HVAC Improvements for the Belt Filter Press Area

Project Number: WWM-2022-1537
Budget Year: 2023
Project Type: RPWRF Maintenance
Budget Stage: Adopted Budget
Year Identified: 2022
Region: Multiple

Description
The Belt Filter Press Area processes the sludge produced within the wastewater treatment plant processes. The area is enclosed to control gas and odor issues, but the Heating, Ventilation, and Air Conditioning (HVAC) system is inadequate and will be improved to provide a safer work environment.

Justification
The HVAC system is in need of improvement in order to move and filter enough air out of the Belt Filter Press Area to keep the working environment safe.

Comprehensive Plan Goals Met
CFU1: Adequate Public Facilities and Services
CFU2: Concurrency
CFU3: Coordination
CFU4: Service Provision
CFU5: Environmental Concerns

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5200-700 - Sewer
BioSolids Storage / Alternate Disposal Study

**Project Number:** WWM-2022-1538  **Budget Year:** 2023
**Project Type:** RPWRF Capital  **Budget Stage:** Adopted Budget
**Year Identified:** 2022  **Region:** Multiple

**Description**
This project will conduct a study to identify locations and methods for storing BioSolids during the winter months when we cannot field apply. The study will also identify environmentally beneficial means and methods of disposing of BioSolids.

**Justification**
During the winter months BioSolids cannot be field applied and must be stored. A more efficient storage methodology is being sought, as well as alternatives to field application as a means of ultimate disposal.

**Comprehensive Plan Goals Met**
CFU1: Adequate Public Facilities and Services
CFU2: Concurrency
CFU3: Coordination
CFU4: Service Provision
CFU5: Environmental Concerns

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5200-700 - Sewer
AC Unit for Blower Building

Description
The Air Conditioning (AC) unit for the Blower Building is at the end of its useful life. The unit supplies processed air to the Aeration Basins. The equipment has aged to the point where repairs are no longer economically feasible and must be replaced.

Justification
The blowers in the Blower Building generate the air for the proper function of the Aeration Basins; a critical component in the wastewater treatment system. The blowers also generate a lot of heat during operations. To function properly they need to be cooled. The AC unit on this building needs replacement.

Comprehensive Plan Goals Met
CFU1: Adequate Public Facilities and Services
CFU2: Concurrency
CFU3: Coordination
CFU4: Service Provision
CFU5: Environmental Concerns

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5200-700 - Sewer
Headworks Bypass Automated Trash Rack

Project Number: WWM-2022-1541
Project Type: RPWRF Maintenance
Year Identified: 2022
Budget Year: 2023
Budget Stage: Adopted Budget
Region: Multiple

Description
Wastewater normally flows into the treatment plant through the headworks where debris, rocks, and large items are screened out before the water continues through the treatment processes. There is an emergency bypass should headworks get clogged or go off line. That bypass has a trash rack that can get clogged during a storm when not cleaned. This project would install an automated cleaning system for the emergency bypass.

Justification
The emergency bypass for headworks can get clogged if the trash rack is covered by debris. The bypass is our fail-safe device and needs to operate. This project would ensure operations can continue uninterrupted.

Comprehensive Plan Goals Met
CFU1: Adequate Public Facilities and Services
CFU2: Concurrency
CFU3: Coordination
CFU4: Service Provision
CFU5: Environmental Concerns

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Sewer
Silo Digester No. 3 Exterior Cladding

Project Number: WWM-2022-1542
Project Type: RPWRF Capital
Year Identified: 2022
Budget Year: 2023
Budget Stage: Adopted Budget
Region: Multiple

Description
When Silo Digester No. 3 was constructed, the exterior cladding was removed from the project and deferred to a date in the future. Once the mixing system for this digester is constructed as part of a separate project in the Capital Improvement Plan (CIP), the exterior cladding will be installed as originally planned.

Justification
Exterior cladding on the silo digester will help insulate the digester, increasing operational efficiency. The exterior cladding will also match the aesthetic master plan guidelines for the entire treatment plant.

Comprehensive Plan Goals Met
CFU1: Adequate Public Facilities and Services
CFU2: Concurrency
CFU3: Coordination
CFU4: Service Provision
CFU5: Environmental Concerns.

Funding

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Spending

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## Description

This project will construct real-time monitoring and control at 15 Combined Sewer Overflow (CSO) facilities and 26 sewer lift stations. This project will also construct monitoring along the sewer interceptor and 2 stormwater facilities locations.

## Justification

Wastewater and Stormwater Collection System Supervisory Control and Data Acquisition (SCADA) Master Plan was completed in 2019. Projects were prioritized to meet three competing goals:

1) Protect the main sewer interceptor that conveys sewage to the Wastewater Treatment Facility from surcharge or excessive flows.
2) Further minimize frequency and volume of CSOs at each outfall.
3) Maximize the use of the Next Level of Treatment facility to ensure further environmental benefit to the Spokane River. Design of the first projects started in 2019 and included an isolated SCADA computer system and control center. This system would monitor the interceptor at Chestnut and Bridge, monitor and control for the Springfield Lift Station, CSO 24-1 Facility, and CSO 26-1 Facility. The remaining CSO facilities, lift stations, and monitoring locations have been prioritized to be installed over the next 6 years.

## Comprehensive Plan Goals Met

CFU 1.2: Operational Efficiency
## Sewer
### Sewer Collections SCADA System - Continued

#### Funding

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