

**2016-2021**

**CAPITAL IMPROVEMENTS PROGRAM**



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## **2016-21 CAPITAL IMPROVEMENTS PROGRAM**

A Capital Improvements Program (CIP) is a financial planning tool to help the community direct scarce resources to high priority projects. Through planning, the City will be able to complete projects to improve the quality of life in Monmouth and have the resources to acquire necessary equipment to ensure efficient delivery of services.

Capital improvements include planned purchases of both equipment as well as construction projects for facilities and utility systems.

Capital equipment includes items with a cost over \$5,000 and a useful life greater than 3 years. Examples include the purchase of vehicles, major tools, police cars, copiers, backhoes, dump trucks and bucket trucks.

Capital construction projects include new facilities, remodeling or enlargement of existing facilities, expansion or capacity improvements to utility systems and major system improvements. Maintenance projects, such as the overlay of a street, painting a building or replacing a broken pipe, are not considered capital improvements.

The CIP is a document meant to be revised and updated each year. After each completed year, a new year is added. Only money budgeted in the annual budget is approved for spending for items contained in the CIP.

## **2016-21 CAPITAL IMPROVEMENTS PROGRAM SUMMARY**

The next page contains a summary of all projects. Projects within the CIP are expressed in current dollars and are not adjusted for inflation. Projects contained in future years are not necessarily expected to have precise cost estimates, but reflect a general idea of cost. Costs will be revised as a project moves closer to implementation.

On the right hand side of the Summary are the columns of “strategy” and “secure funding”. If the strategy column contains a yes (y), it means there are identified sources of revenue to fund the project. If the secure funding column is marked yes (y), it means there is reasonable certainty money will be available when the project needs to be funded. Any project requiring voter approval for funding is not considered secure. Items with a “--” in the strategy and secure funding columns are CIP Projects from the prior year that have been completed or removed. A discussion of each of these items will be found on the page following the summary.

2016-2021 Capital Improvements Program

Pg #	PRJ #	TITLE	2016-17	2017-18	2018-19	2019-20	2020-21	Strategy	Secure Funding
<b>GENERAL FUND PROJECTS</b>									
5	3MF00	Rebuild City Hall				3,500,000		n	n
6	1MF16	City Server & Tape Drive Replace	17,500	12,500		20,000		y	y
7	1PD00	Patrol Vehicles & Equipment	70,000	43,000	77,000	44,000	78,000	y	y
8	2PD12	In-Car Cameras for Patrol Vehicles	6,000	12,000	12,000			y	y
9	1PR06	Madrona Park Improvements	10,000		50,000		65,000	y	y
10	4PR00	Main Street Park Improvements				150,000		y	y
11	1SC07	Senior Center Building Expansion	548,000					y	y
12	1SC14	New Senior Center Bus		55,000				y	y
--	1GF13	Purchase Card Lock Fueling System						y	y
<b>TOTAL GENERAL FUND</b>			<b>651,500</b>	<b>122,500</b>	<b>139,000</b>	<b>3,714,000</b>	<b>143,000</b>		
<b>SANITARY SEWER FUND PROJECTS</b>									
13	1PW00	Purchase & Replace Equipment	65,000	19,300	55,000	78,000	60,000	y	y
14	1PWSS05	Wastewater Plant Improvements	130,000					y	y
15	1PWSS06	Effluent Re-use Facility Expansion	25,000					y	y
16	1PWSS07	Gwinn & Suzanna Swr Line Replace	685,000			1,740,000		y	y
17	1PWSS08	Sewer Line Replacements - Ongoing	125,000		210,000			y	y
18	1PWSS16	SCADA Software Licensing	32,000					y	y
<b>TOTAL SANITARY SEWER FUND</b>			<b>1,062,000</b>	<b>19,300</b>	<b>265,000</b>	<b>1,818,000</b>	<b>60,000</b>		
<b>WATER FUND PROJECTS</b>									
13	1PW00	Purchase & Replace Equipment	65,000	19,300	55,000	34,000	60,000	y	y
19	15PWW02	Willamette Well Field	106,000	536,000				y	y
20	15PWW03	Water Line Replacements			424,000	530,000	530,000	y	y
21	15PWW05	Pilot - Automated Meter Reading (AMR)	150,000	150,000				y	y
--	15PWW06	Paint 1M Gallon Steel Reservoir						y	y
22	15PWW09	Marion County Well #1 Improvements	106,000	536,000				y	y
<b>TOTAL WATER FUND</b>			<b>427,000</b>	<b>1,241,300</b>	<b>479,000</b>	<b>564,000</b>	<b>590,000</b>		
<b>STREET FUND PROJECTS</b>									
13	1PW00	Purchase & Replace Equipment	30,000	80,000	25,000	73,000	37,000	y	y
23	9PWST00	West Campus Storm Relief			285,000			y	y
24	10PWST00	Street Extensions/Improvements			150,000			y	y
<b>TOTAL STREET FUND</b>			<b>30,000</b>	<b>80,000</b>	<b>460,000</b>	<b>73,000</b>	<b>37,000</b>		
<b>STORM WATER UTILITY FUND PROJECTS</b>									
13	1PW00	Purchase & Replace Equipment		80,000	14,600	47,000	40,000	y	n
<b>TOTAL URBAN RENEWAL</b>			<b>-</b>	<b>80,000</b>	<b>14,600</b>	<b>47,000</b>	<b>40,000</b>		
<b>ELECTRIC UTILITY PROJECTS</b>									
25	2PL01	Purchase and Replace Equipment	115,000		60,000		25,000	y	y
26	3PL04	New Line Construction	106,400	106,400	106,400	106,400	106,400	y	y
27	5PL04	Conversion and Line Changes	92,750	94,100	117,050	27,500	27,500	y	y
28	8PL04	Distribution Equipment	66,160	66,160	66,160	66,160	66,160	y	y
29	9PL04	Sectionalizing Equipment	30,000					y	y
30	10PL04	Capacitors to Improve Power Factor	30,000					y	y
31	13PL04	Miscellaneous Distribution Items	10,100	3,100	3,100	2,600	1,000	y	y
32	15PL04	Power & Light Facility Headquarters	2,000,000					y	y
33	16PL04	Miscellaneous Operational Items	19,000	5,500		5,000		y	y
<b>TOTAL POWER &amp; LIGHT FUND</b>			<b>2,469,410</b>	<b>275,260</b>	<b>352,710</b>	<b>207,660</b>	<b>226,060</b>		
<b>URBAN RENEWAL DISTRICT PROJECTS</b>									
--	4PR00	Main Street Park Improvements						y	y
<b>TOTAL URBAN RENEWAL</b>									
<b>GRAND TOTAL</b>			<b>4,639,910</b>	<b>1,818,360</b>	<b>1,710,310</b>	<b>6,423,660</b>	<b>1,096,060</b>		

2016-2021 Capital Improvements Program

Pg # PRJ # TITLE FISCAL YEAR 2016-2017 FUNDING SOURCE SUMMARY

GENERAL FUND PROJECTS			Gen Fund	Pks SDC	Grants	FMSC	Total
5	3MF00	Rebuild City Hall					
6	1MF16	City Server & Tape Drive Replace	17,500				17,500
7	1PD00	Patrol Vehicles & Equipment	70,000				70,000
8	2PD12	In-Car Cameras for Patrol Vehicles	6,000				6,000
9	1PR06	Madrona Park Improvements		10,000			10,000
10	4PR00	Main Street Park Improvements					
11	1SC07	Senior Center Building Expansion	220,000		185,000	143,000	548,000
12	1SC14	New Senior Center Bus					
--	1GF13	Purchase Card Lock Fueling System					
<i>Funding Source Totals</i>			<i>313,500</i>	<i>10,000</i>	<i>185,000</i>	<i>143,000</i>	<i>651,500</i>

SANITARY SEWER FUND PROJECTS			Swr Fund	Swr SDC	Total
13	1PW00	Purchase & Replace Equipment	65,000		65,000
14	1PWSS05	Wastewater Plant Improvements	130,000		130,000
15	1PWSS06	Effluent Re-use Facility Expansion		25,000	25,000
16	1PWSS07	Gwinn & Suzanna Swr Line Replace		685,000	685,000
17	1PWSS08	Sewer Line Replacements - Ongoing	125,000		125,000
18	1PWSS16	SCADA Software Licensing	32,000		32,000
<i>Funding Source Totals</i>			<i>352,000</i>	<i>710,000</i>	<i>1,062,000</i>

WATER FUND PROJECTS			Wtr Fund	Wtr SDC	Total
13	1PW00	Purchase & Replace Equipment	65,000		65,000
19	15PWW02	Willamette Well Field		106,000	106,000
20	15PWW03	Water Line Replacements			
21	15PWW05	Pilot - Automated Meter Reading (AMR)	150,000		150,000
--	15PWW06	Paint 1M Gallon Steel Reservoir			
22	15PWW09	Marion County Well #1 Improvements	106,000		106,000
<i>Funding Source Totals</i>			<i>321,000</i>	<i>106,000</i>	<i>427,000</i>

STREET FUND PROJECTS			Strt Fund	Total
13	1PW00	Purchase & Replace Equipment	30,000	30,000
23	9PWST00	West Campus Storm Relief		
24	10PWST00	Street Extensions/Improvements		
<i>Funding Source Totals</i>			<i>30,000</i>	<i>30,000</i>

STORM WATER UTILITY FUND PROJECTS			Total
13	1PW00	Purchase & Replace Equipment	0
<i>Funding Source Totals</i>			<i>0</i>

ELECTRIC UTILITY PROJECTS			P&L	Aid to Con	Total
25	2PL01	Purchase and Replace Equipment	115,000		115,000
26	3PL04	New Line Construction	49,900	56,500	106,400
27	5PL04	Conversion and Line Changes	92,750		92,750
28	8PL04	Distribution Equipment	31,160	35,000	66,160
29	9PL04	Sectionalizing Equipment	30,000		30,000
30	10PL04	Capacitors to Improve Power Factor	30,000		30,000
31	13PL04	Miscellaneous Distribution Items	8,100	2,000	10,100
32	15PL04	Power & Light Facility Headquarters	2,000,000		2,000,000
33	16PL04	Miscellaneous Operational Items	19,000		19,000
<i>Funding Source Totals</i>			<i>2,375,910</i>	<i>93,500</i>	<i>2,469,410</i>

URBAN RENEWAL DISTRICT PROJECTS			Total
--	4PR00	Main Street Park Improvements	0
<i>Funding Source Totals</i>			<i>0</i>

**COLUMN TOTALS** 3,392,410 919,500 185,000 143,000 - - 4,639,910

## 2015-2016 PROJECT STATUS

### GENERAL FUND

1PD00	Patrol Vehicles & Equipment	One patrol vehicle was purchased.
2PD12	In-Car Cameras for Patrol Cars	Anticipate \$10K in Body Worn Camera purchases by 6/30/16.
1PR06	Madrona Park Improvements	Walking trail, arboretum and restroom completed in FY 15-16.
1SC07	Senior Center Expansion	Additional funding was required. Anticipate completion in FY 16-17.
1SC14	New Senior Center Bus	Bus not purchased - waiting until Senior Ctr Expansion is completed.
1GF13	Purchase Card Lock Fueling System	Project Completed in March of 2015.

### SANITARY SEWER FUND

1PW00	Purchase & Replace Equipment	1/2 ton 2wd pickup purchased.
1PWSS05	Wastewater Plant Improvements	Design for dechlorination initiated.
1PWSS06	Effluent Re-use Facility Expansion	Improvements postponed.

### WATER FUND

1PW00	Purchase & Replace Equipment	Purchase of air compressor postponed.
15PWW05	Automatic Meter Pilot Program	AMR meters purchased and installed. Project is ongoing.
15PWW06	Paint 1M Gallon Steel Reservoir	Work completed.
15PWW09	Marion County Well #1 Improvements	Ongoing project.

### STREET FUND

1PW00	Purchase & Replace Equipment	Purchase of air compressor postponed.
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### POWER & LIGHT FUND

2PL01	Purchase & Replace Equipment	Replacement of service truck delayed - considering diesel chassis.
3PL04	New Line Construction	Ongoing construction.
5PL04	Conversion and Line Changes	Ongoing work.
8PL04	Distribution Equipment	Ongoing work.
9PL04	Sectionalizing Equipment	Partial completion - work is ongoing.
13PL04	Miscellaneous Distribution Items	Ongoing work.
15PL04	Power & Light Facility Headquarters	Delineation Report complete. Work is ongoing.
16PL04	Miscellaneous Operational Items	Ongoing work.

### URBAN RENEWAL DISTRICT

4PR00	Main Street Park Improvements	Anticipate the completion of the Amphitheater in FY 15-16.
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**PROJECT NUMBER:** 3MF00

**FUND:** General

**DEPARTMENT:** Management and Finance

**PROJECT TITLE:** Rebuild City Hall

**PROJECT DESCRIPTION:** City Hall is in very poor condition. The Downtown Plan specifies City Hall be rebuilt on the existing site. Much of the space in the building cannot be accessed easily for handicapped individuals or is completely unusable. The mechanical systems within the building do not function well making the work environment very poor, and the layout of the building is not conducive to good customer service.

A review of all City facilities was completed in FY 12-13 and priorities for improvement and/or replacement were established. A new Police Station was constructed in FY 14-15 and a new Power & Light Headquarters building and an addition to the Monmouth Senior Center are planned for FY 16-17. City Hall would come sometime later if funding can be secured.

The estimates shown below were made several years ago and are placeholders only. Both the timing and actual cost of the project would need to be determined. Even with the uncertainty of this project, it is included in the City's capital improvements plan because of its significance.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect				\$200,000		\$200,000
Construction				\$3,000,000		\$3,000,000
Equipment						
Contingency				\$300,000		\$300,000
Total				\$3,500,000		\$3,500,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Interfund Loan				\$3,150,000		\$3,150,000
General Fund				\$350,000		
Total				\$3,500,000		\$3,500,000

**PROJECT NUMBER:** 1MF16

**FUND:** General

**DEPARTMENT:** Management and Finance

**PROJECT TITLE:** Replace the City's Computer Server and Tape Drive Backup Systems

**PROJECT DESCRIPTION:** The City of Monmouth utilizes 2 computer servers to host its data and management systems, and it has a tape drive backup system to provide daily backups of all data.

The City's primary server was purchased not quite 2 years ago when the new finance software was installed. A secondary server is used to back up the primary server should it fail as well as to store additional data not stored on the primary server.

The following schedule indicates the timing of server and tape backup system replacement:

In FY 16-17 – Replace the City's secondary server as it is approaching 7 years in age and will no longer be eligible for warranty and maintenance contract extension.

In FY 17-18 – Replace the City's tape drive backup system as it will also be approaching 7 years in age and won't be eligible for warranty and maintenance extension.

In FY 2019-20 - Replace the City's primary server as it will be approaching 7 years in age.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect						
Construction						
Equipment	\$17,500	\$12,500		\$20,000		\$50,000
Contingency						
Total	17,500	12,500		20,000		50,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
General Fund	\$17,500	\$12,500		\$20,000		\$50,000
Total	17,500	12,500		20,000		50,000

**Project Number:** 1PD00

**Fund:** General

**Department:** Police

**Project Title:** Patrol Vehicle and Equipment

**Project Description:** Purchase of replacement patrol vehicles, administrative vehicles and related equipment/installation.

The anticipated cost of purchasing one new patrol car and one new CSO vehicle this year (2016/2017). The years following 16/17, vehicle purchases would alternate each year from one to two vehicles in order to replace the oldest units in the fleet. Our current fleet of vehicles includes 8 marked patrol cars. Full-time officers, reserve officers, and the Sergeants use these vehicles while on-duty. In addition, the uniform detective uses one unmarked patrol car, the POINT detective uses an unmarked car, the CSO uses a pick-up truck, the Chief has an administrative car and the PD maintains a vehicle used by City employees for travel, training and appointments held outside of the City.

Given increased activities, population increases, and traffic related incidents rising each year, the wear on the patrol cars is immanent. Police patrol cars endure tremendous wear and tear and are a necessity to do the job that is required. Patrol cars must be in excellent working order as a matter of safety. Purchasing two vehicles this year will replace one vehicle that has been in service for 8 years and another for 7 years. This replacement program helps to keep our fleet in good condition and will help minimize repair costs.

**Appropriations**

Year	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect						
Construction						
Equipment	\$70,000	\$43,000	\$77,000	\$44,000	\$78,000	\$312,000
Contingency						
Total	\$70,000	\$43,000	\$77,000	\$44,000	\$78,000	\$312,000

**Revenue**

Year	2016-17	2017-18	2018-19	2019-20	2020-21	Total
General Fund	\$70,000	\$43,000	\$77,000	\$44,000	\$78,000	\$312,000
Total	\$70,000	\$43,000	\$77,000	\$44,000	\$78,000	\$312,000



**Project Number:** 2PD12

**Fund:** General

**Department:** Police

**Project Title:** Vehicle/Body Worn Cameras

**Project Description:** Purchase of Vehicle/Body Worn Cameras this year (16-17) and the following two years. These cameras will be either mounted in patrol vehicles or worn on the uniform of patrol officers.

Vehicle Cameras are permanently mounted video cameras in patrol cars. Body Worn Cameras are worn on the uniform of a patrol officer. They both record audio and video to provide excellent documentation of an officer's contact with citizens during traffic stops, calls for service, and any encounter with people throughout a patrol officer's shift. Examples could include the recording of a DUII traffic stop, an officer responding to a high risk call for service or an officer interviewing and arresting a suspect for a criminal offense. The digital recording is stored as evidence to allow for no discrepancies in what actually occurred and what was said throughout the entire incident. The camera protects both the officer and the defendant, and officers end up spending much less time in court. Both types of cameras are also very useful in recording non-criminal activity, documentation at crime scenes, documentation during crosswalk compliance checks and for surveillance purposes.

**Appropriations**

Year	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect						
Construction						
Equipment	\$ 6,000	\$12,000	\$12,000			\$30,000
Contingency						
Total	\$ 6,000	\$12,000	\$12,000			\$30,000

**Revenue**

Year	2016-17	2017-18	2018-19	2019-20	2020-21	Total
General Fund	\$ 6,000	\$12,000	\$12,000			\$30,000
Total	\$ 6,000	\$12,000	\$12,000			\$30,000

**PROJECT NUMBER:** 1PR06

**FUND:** Parks SDC

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Madrona Park Improvements

**PROJECT DESCRIPTION:** The recently completed Parks Master Plan identified a number of projects to further improve Madrona Park. The Parks Board has prioritized those projects and design and construction documents have been prepared for several amenities. Those include an arboretum, walking trail, urban forest, restroom facilities, and expanded play structures.

FY 2016-17, the department will install drainage and raise the gravel paths in the arboretum.

FY 2018-19, the department will improve the ground surface of the sports complex portion of the park. The area will include donated soccer goals, as well as, plans for a baseball backstop. This area is a delineated wetland. Improvements will require design work, a wetland removal fill permit, and construction. Improvements to surface drainage is necessary to make this surface suitable for use as recreational sports facilities.

FY 2020-21, if funds are available, a toy expansion is planned for this park. This expansion will establish a range of age appropriate equipment.

**BENEFITS:** This is a high use community park requiring improvements. The Master Plan projects stand out as high priorities over the next several years.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect			\$30,000			\$30,000
Construction	\$10,000		\$15,000			\$25,000
Equipment			\$5,000		\$65,000	\$70,000
Land Acquisition						
Total	\$10,000		\$50,000		\$65,000	\$125,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
OR St. Parks Grant						\$0
Parks SDC	\$10,000		\$50,000		\$65,000	\$125,000
Rec Trails Grant						\$0
Donations						\$0
Total	\$10,000		\$50,000		\$65,000	\$125,000

**PROJECT NUMBER:** 4PR00

**FUND:** Parks SDC

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Main Street Park Improvement

**PROJECT DESCRIPTION:** The recently completed Parks Master Plan has identified a number of improvements to Main Street Park. The Parks Board prioritized projects to include construction of a splash fountain, followed by a performance amphitheater. The restroom is also identified for replacement to accommodate increased use in this park. Finally, an expansion of the play structure is to be considered.

In FY 2019-20, if funds are available, the play structure will be expanded.

**BENEFITS:** Main Street Park is a 2.2 acres urban downtown park. Because of its central location, high visibility, and long standing history this park should be viewed as a defining landmark for the City of Monmouth. Further improving the park will enhance the Main Street corridor and provide more amenities for the increase in users.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Development						
Engineering/Architect						
Purchase Property						
Equipment				\$150,000		\$150,000
Total				\$150,000		\$150,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
SDC Fund				\$50,000		\$50,000
General Fund				\$100,000		\$100,000
Grant						
Urban Renewal District						
Total				\$150,000		\$150,000

**PROJECT NUMBER:** 1SC07

**FUND:** General

**DEPARTMENT:** Senior Center

**PROJECT TITLE:** Senior Center Building Expansion

**PROJECT DESCRIPTION:** The Monmouth Senior Center has been working on an expansion for a number of years and the Advisory and Friends Board have decided to scale back the project to approximately 2,100 sq. ft.

The Senior Meal Site program currently requires valuable space in the main room and kitchen making it difficult to offer other senior programs/activities at the same time. Using the space for meals is working out for the most part but valuable space is still needed for more bathrooms, storage and classrooms. Classes continue to expand and at the moment we are using Volunteer Hall at least once a week and would use it more if it were possible.

The estimated cost of construction is \$548,000 and would be paid from Friend's of Monmouth Senior Center fundraising, a donation from the City's general fund, and grants acquired by the Friends of the Monmouth Senior Center. Project completion is anticipated during FY 16-17.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Consulting						
Construction	\$548,000					\$548,000
Equipment						
Contingency						
Total	\$548,000					\$548,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Friends of Mon Sr Ctr	\$143,000					\$143,000
Grants	\$185,000					\$185,000
General Fund	\$220,000					\$220,000
Total	\$548,000					\$548,000

**PROJECT NUMBER:** 1SC14

**FUND:** General

**DEPARTMENT:** Senior Center

**PROJECT TITLE:** Purchase of a Senior Center Shuttle Bus

**PROJECT DESCRIPTION:** The Friends of the Monmouth Senior Center purchased a 15 passenger van back in 2000 for use by the Seniors. It has served the Senior Center well as the Seniors have traveled over 50,000 miles in the van. But the van is getting older and many seniors complain it is hard to get in and out of. For some, doing so is a health hazard.

The Senior Center would like to replace the van with a Shuttle Bus. A Shuttle Bus is designed with a lower point of entry making it much easier for passengers to enter and exit the vehicle. The bus is made by Starcraft and holds 14 passengers. The design has many benefits including:

- A short-step low entry/exit point with handrails that improves accessibility to passengers.
- A wider vehicle design which provides more space for seating and increases comfort on longer trips. The wider design also provides better road stability.
- A flat floor design which improves ease of movement in the vehicle and ensures all seating locations have good leg room.
- A separate luggage area which isolates cargo from the cabin & keeps it stable during driving. Passenger comfort and safety are significantly enhanced as well.
- The bus is under the CDL size requirement so a commercial driver's license is NOT required to drive the vehicle.

The cost of the bus is \$55,000 and the Friends of the Monmouth Senior Center are looking to acquire a grant to pay for the new bus. The grant and bus purchase would be perused in FY 17-18 after the expansion of the Senior Center building has been completed.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Consulting						
Construction						
Equipment		\$55,000				\$55,000
Contingency						
Total		\$55,000				\$55,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
FMSC Grant						
		\$55,000				\$55,000
Total		\$55,000				\$55,000

**PROJECT NUMBER:** 1PW00

**FUND:** Water, Sewer & Street

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Purchase and Replacement of Public Works Equipment

**PROJECT DESCRIPTION:** This project provides for the replacement and purchase of equipment used by Public Works. Over the next five years, the following pieces of equipment are planned to be purchased or replaced. Typical vehicle replacement interval is 10 years. Some equipment is replaced on a 15 or 20 year interval.

**BENEFITS:** This action will ensure that the condition of the equipment used by the department is adequate to perform its function.

2016-17	Backhoe 1 Ton Flat Bed Pickup 3/4 ton 4x4 Pickup	2019-20	Tractor/ boom mower
2017-18	Street Sweeper	2020-21	Lt Duty Dump Truck Service Truck Pickup Truck
2018-19	Line Cleaner/Vacuum (3) Pickup Trucks		

**APPROPRIATIONS**

YEAR	2016-17	2017-78	2018-19	2019-20	2020-21	Total
Engineering/Architect						
Construction						
Equipment	\$160,000	\$198,600	\$149,600	\$232,000	\$197,000	\$937,200
Contingency						
Total	\$160,000	\$198,600	\$149,600	\$232,000	\$197,000	\$937,200

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Sewer Fund	\$65,000	\$19,300	\$55,000	\$78,000	\$60,000	\$277,300
Water Fund	\$65,000	\$19,300	\$55,000	\$34,000	\$60,000	\$233,300
Street Fund	\$30,000	\$80,000	\$25,000	\$73,000	\$37,000	\$245,000
Stormwater Fund	\$0	\$80,000	\$14,600	\$47,000	\$40,000	\$181,600
Total	\$160,000	\$198,600	\$149,600	\$232,000	\$197,000	\$937,200

**PROJECT NUMBER:** 1PWSS05

**FUND:** Sewer

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Wastewater Plant Improvements

**PROJECT DESCRIPTION:** The wastewater treatment plant has received necessary improvements during recent years to keep pace with growth and regulatory requirements. Future regulatory requirements of the City's NPDES discharge permit will require effluent discharged to the Willamette River be free of a chlorine residual. Chlorine is required for disinfection of the effluent, but will need to have the chlorine neutralized prior to leaving the plant.

In FY 16-17, the City will design and install a dechlorination system that will neutralize the chlorine residual in the treatment plant's effluent. During this same project, an ammonia feed system will be moved and incorporated into the new building

**BENEFITS:** The wastewater treatment system will be able to meet regulatory requirements.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect	\$65,000					\$65,000
Construction	\$55,000					\$55,000
Equipment	\$10,000					\$10,000
Contingency	\$0					\$0
Total	\$130,000					\$130,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Sewer Fund	\$130,000					\$130,000
Sewer SDC Fund						
Revenue Bond/Grant						
Total	\$130,000					\$130,000

**PROJECT NUMBER:** 1PWSS06

**FUND:** Sewer SDC

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Effluent Re-use Facility Expansion

**PROJECT DESCRIPTION:** The City and the local farming community will work together to find ways to use recycled wastewater for beneficial use. Under contract, the City will provide up to \$25,000 toward the development and construction of an approved irrigation system. This project will provide the necessary facilities to add an additional 152 acres of available permitted land for the application of recycled water.

In FY 2016-17, if site development is approved by DEQ, the City will share in the development and construction costs of facilities that will increase the available acreage of land for the application of recycled water for beneficial purposes.

Population growth will dictate the necessity and timing of future expansions.

**BENEFITS:** The City's NPDES permit, allows for the beneficial reuse of treated wastewater from the City's treatment plant. The use of recycled water is necessary to handle the increasing volume of wastewater received for treatment during summer months. As Monmouth's population grows, the inventory of additional sites will be necessary for the land application of recycled water during summer months. These periodic expansions will permit the wastewater treatment system to keep pace with growth and regulatory requirements.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect						
Construction						
Equipment	\$25,000					\$25,000
Contingency						
Total	\$25,000					\$25,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Sewer Fund						
Sewer SDC Fund	\$25,000					\$25,000
Total	\$25,000					\$25,000



**PROJECT NUMBER:** 1PWSS07

**FUND:** Sewer SDC

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Master Plan- Sewer Line Replacement (Gwinn St. & Suzanna Ave)

**PROJECT DESCRIPTION:** New construction, upsizing, or replacement of specific sewer lines have been identified in the Sewer System Master Plan as priority improvement to the sewer collection system. These improvements provide for increased capacity to meet the needs associated with increased population. Some of these priority projects are necessary to prevent sanitary sewer overflows resulting from "bottlenecks" within the existing collection system.

In FY 2016-17, the City will construct the SW Pump Station Interceptor. This is a planned 18" line on Gwinn Street from Warren to the east. This line will intercept and reroute flows from the SW Pump Station to avoid sanitary sewer overflows in the downtown core. Construction of previous phases of this interceptor has been shared with development on the south end of town. The final portions of this interceptor will be constructed by the city using Sewer SDC fees.

In FY 2019-20, the City will share in the construction costs of upsizing an existing 12" sanitary line that is at capacity, to an 18" line that will handle new construction upstream. This Suzana Avenue Trunk Line project will allow for planned and future expansion on the WOU campus. Design on this project will begin in FY 2019-20.

**BENEFITS:** As Monmouth's population grows, it will be necessary to handle the increasing volume of wastewater through necessary upgrades. These planned periodic expansions identified in the City's Master Plan will permit the wastewater collection system to keep pace with growth and regulatory requirements.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect	\$160,000			\$75,000		\$235,000
Construction	\$500,000			\$1,625,000		\$2,125,000
Equipment						
Contingency	\$25,000			\$40,000		\$65,000
Total	\$685,000			\$1,740,000		\$2,425,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Sewer Fund				\$540,000		\$540,000
Sewer SDC Fund	\$685,000			\$1,200,000		\$1,885,000
Total	\$685,000			\$1,740,000		\$2,425,000

**PROJECT NUMBER:** 1PWSS08

**FUND:** Sewer

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Sewer Line Replacement (Ongoing)

**PROJECT DESCRIPTION:** Specific sewer lines within the collection system have been identified as having structural issues, excessive inflow and infiltration, or capacity constraints. These lines have been scheduled for replacement to maintain appropriate function of the collection system. These priority projects are necessary to prevent emergency repairs, or sanitary sewer overflows resulting from main line failures.

In FY 2016-17, the City will replace the failing Davis Lane sewer line. This line is located within a basin of the collection system that is experiencing excessive inflow and infiltration during major rain events. Replacing this line will address a portion of the capacity issues at the WWTF headworks located downstream of this collection system basin.

In FY 2018-19, the City will replace the failing Stadium Drive sewer line. This line is located within a basin of the collection system that is experiencing excessive inflow and infiltration during major rain events. Replacing this line will address a portion of the capacity issues associated with the Suzanna Trunk Line, located downstream of this collection system basin.

**BENEFITS:** As Monmouth's sanitary sewer collection system ages it will be necessary to replace failing sewer lines. These planned periodic line replacements will permit the wastewater collection system function and maintain regulatory compliance.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect	\$15,000		\$15,000			\$30,000
Construction	\$100,000		\$185,000			\$285,000
Equipment						
Contingency	\$10,000		\$10,000			\$20,000
Total	\$125,000		\$210,000			\$335,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Sewer Fund	\$125,000		\$210,000			\$335,000
Sewer SDC Fund						
Total	\$125,000		\$210,000			\$335,000

**PROJECT NUMBER:** 1PWSS16

**FUND:** Sewer

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Treatment Plant Telemetry License Renewal

**PROJECT DESCRIPTION:** The wastewater treatment plant is monitored and controlled using SCADA and Telemetry. These operating systems require software licensing. The City's license is expired and needs to be renewed. The system's server and operating software needs to be upgraded at the time of license renewal.

In FY 2016-17, the City will purchase current licensing, upgrade the system server, and operating software.

**BENEFITS:** Operating a system that has current licensing provides opportunity for technical support in the event of system failure. Replacing the systems server at this time will significantly reduce the risk of failure. The current server's operating software is out of date, and no longer supported. A fully functioning and supported SCADA System ensures that support is available in an emergency, and this critical component of the treatment plant controls system will continue uninterrupted operation, and maintain regulatory compliance.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect	\$8,000					\$8,000
Construction						
Equipment	\$24,000					\$24,000
Contingency						
Total	\$32,000					\$32,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Sewer Fund	\$32,000					\$32,000
Sewer SDC Fund						
Total	\$32,000					\$32,000

**PROJECT NUMBER:** 15PWW02

**FUND:** Water SDC

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Willamette Well Field

**PROJECT DESCRIPTION:** The raw water characteristics and volume are adequate to proceed with developing the Willamette Well Field. Testing determined the water from these three wells is under the influence of surface water. The type of treatment required for these wells must be consistent with the source water quality. Pilot testing of the selected filters will be conducted prior to Oregon Health Authority approval. Upon completion of the filter pilot testing, construction of the transmission line from the well field to the 4<sup>th</sup> Street Treatment Facility will begin. Treatment equipment will be located at the 4<sup>th</sup> Street Facility.

During FY 2016-17, the department will be conducting filter pilot testing, and completing design and construction documents for the transmission line from the Willamette Well Field to the 4<sup>th</sup> Street Facility.

During FY 2017-18, the department will construct the transmission line between the Willamette Well Field and the 4<sup>th</sup> Street Facility. Selected filters to treat Willamette Well Field water will be installed in the 4<sup>th</sup> Street Facility.

**BENEFITS:** New sources of water will allow the City to meet the current and future demand on the water system. This project will continue to be a main priority of the department for the next several years.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect	\$70,000	\$40,000				\$110,000
Construction		\$360,000				\$360,000
Equipment	\$30,000	\$116,000				\$146,000
Contingency	\$6,000	\$20,000				\$26,000
Total	\$106,000	\$536,000				\$642,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Water Fund						
Water SDC Fund	\$106,000	\$536,000				\$642,000
Total	\$106,000	\$536,000				\$642,000

**PROJECT NUMBER:** 15PWW03

**FUND:** Water

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Master Plan-Water Line Replacement

**PROJECT DESCRIPTION:** The replacement of specific water lines has been identified in the Water System Master Plan as a priority improvement to the water distribution system. These improvements provide for increased fire flow and improved distribution of water throughout the water system. Replacement of some of the identified lines reduces water loss through replacement of failing water lines.

In FY 2016-17, the City will initiate a major project to replace 14,000 feet of asbestos concrete transmission line. Design and easement acquisition will take a year, with subsequent years constructing this major piece of infrastructure.

In FY 2017-18, The department will continue construction of 14,000 feet of transmission waterline.

In FY 2018-19, The department will continue construction of 14,000 feet of transmission waterline.

**BENEFITS:** These projects will address priority concerns identified in the City’s Water Master Plan. They will improve the movement of water from sources into and through the distribution system. Increased fire protection flows and redundancy within the system will result from these projects. Additionally, these projects will help the water system keep pace with population growth.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect			\$300,000	\$10,000	\$10,000	\$320,000
Construction			\$100,000	\$490,000	\$490,000	\$1,080,000
Equipment						
Contingency			\$24,000	\$30,000	\$30,000	\$84,000
Total			\$424,000	\$530,000	\$530,000	\$1,484,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Water Fund			\$127,000	\$159,000	\$159,000	\$445,000
Water SDC Fund			\$297,000	\$371,000	\$371,000	\$1,039,000
Total			\$424,000	\$530,000	\$530,000	\$1,484,000

**PROJECT NUMBER:** 15PWW05

**FUND:** Water

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Automated Meter Reading (AMR)

**PROJECT DESCRIPTION:** The City has invested in an electric AMR system and compatible utility billing system. It has been planned that when funding was available the water department would convert to a water AMR system. To verify the reliability and functionality of the preferred AMR meter, a pilot project will be used to evaluate the system in FY 2013-14. The City has begun deployment of AMR meters in FY 2014-15.

In FY 2016-17, large institutional and commercial meters will be replaced.

In FY 2017-18, the department will fully deploy AMR meters.

**BENEFITS:** This project will provide the City with an opportunity to test the selected AMR system prior to investing in a system wide deployment of AMR water meters. The selected metering system will get fully deployed. The City will have more monitoring functions, such as leak detection, and will significantly reduce labor hours associated with meter reading and billing.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect						
Construction						
Equipment	\$150,000	\$150,000				\$300,000
Contingency						
Total	\$150,000	\$150,000				\$300,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Water Fund	\$150,000	\$150,000				\$300,000
Water SDC Fund						
Total	\$150,000	\$150,000				\$300,000

**PROJECT NUMBER:** 15PWW09

**FUND:** Water

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Marion County Well #1 Improvements

**PROJECT DESCRIPTION:** Marion County Well #1 is the City's primary potable water source. Untreated water samples from Marion County Well #1 have shown the presence of E.coli. The City has implemented approved interim treatment methods, but is currently not in compliance with the Federal Surface Water Treatment Rule. The City has entered into a compliance agreement with the Oregon Health Authority to correct this deficiency.

To correct this deficiency the City will be required to test and install an approved water filtration system. The filtration system will require a 12 month pilot test to confirm effectiveness prior to installation of the final system to be located at the 4<sup>th</sup> Street Facility.

During FY 2016-17, the City will simultaneously run a pilot test on the proposed filtration system while finalizing design and construction documents for use during installation.

During FY 2017-18, the department will hire a contractor to install the approved filtration equipment at the 4th Street facility.

**BENEFITS:** Taking necessary steps to meet regulatory water quality requirements will allow the City to continue to use this primary water source. These actions will provide the citizens of Monmouth a consistent, safe, and affordable water supply that will meet the current and future demand on the water system.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect	\$70,000	\$40,000				\$110,000
Construction		\$360,000				\$360,000
Equipment	\$30,000	\$116,000				\$146,000
Contingency	\$6,000	\$20,000				\$26,000
Total	\$106,000	\$536,000				\$642,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Water Fund	\$106,000	\$536,000				\$642,000
Water SDC Fund						
Total	\$106,000	\$536,000				\$642,000

**PROJECT NUMBER:** 9PWST00

**FUND:** Storm SDC

**DEPARTMENT:** Public Works

**PROJECT TITLE:** West Campus Storm Relief

**PROJECT DESCRIPTION:** This project includes construction of a storm relief channel along the west edge of WOU. This drainage channel will provide storm relief for water impoundment in Marr Court and at various locations within the WOU campus.

**BENEFITS:** This project will eliminate flooding during heavy rainfall on the west side of the City. It will also become part of the major drainage way as the City develops to the southwest.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect			\$25,000			\$25,000
Construction			\$230,000			\$230,000
Equipment						
Contingency			\$30,000			\$30,000
Total			\$285,000			\$285,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Street Fund			\$85,000			\$80,000
Storm Drain SDC			\$200,000			\$200,000
Total			\$285,000			\$285,000



**PROJECT NUMBER:** 10PWST00

**FUND:** Transportation SDC

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Street Extensions/Improvements

**PROJECT DESCRIPTION:** Numerous projects are identified in the Master Transportation System Plan that was updated in 2009. They are usually driven by development and may include street extensions, improvements to existing streets and partnering with developers to construct new streets.

In FY 2018-19, the department will participate in an ODOT Grant funded pedestrian improvement project through a grant match. This project is along Main Street East (Hwy 51) between Heffley Street and the S Curves. Improvements will include curbs, sidewalks, and the widening of the asphalt surface to create bike lanes and a center turn pocket. The construction phase of this project will span two fiscal years (summer 2019). Total project estimate is \$1.4 million.

**BENEFITS:** Each of the projects identified in the Master Plan will provide for improved pedestrian safety as well as the enhanced livability of Monmouth. As growth occurs, Master Plan improvements will improve the street system allowing vehicle, pedestrian and bicycle traffic to move in a fluid and safe manner. Ongoing planned maintenance will extend the life Monmouth's investment in transportation infrastructure.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Engineering/Architect			\$150,000			\$150,000
Construction						
Equipment						
Contingency						
Total			\$150,000			\$150,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2019-20	Total
Street Fund						
Transportation SDC			\$150,000			\$150,000
STP Fund						
ODOT Grant						
Total			\$150,000			\$150,000

**PROJECT NUMBER:** 2PL01

**FUND:** Power and Light

**DEPARTMENT:** Power and Light

**PROJECT TITLE:** Purchase and Replacement of Power and Light Equipment

**PROJECT DESCRIPTION:** Systematic scheduling of equipment purchases and replacement

- 2016-17      Replace 2006 Ford Service Truck (aerial lift) MPL #60 (chassis purchased – retrofit not completed in 2015-16 due to manufacturer shut-down).
- 2016-17      Replace 1999 Chipper MPL #55; complete retrofit on Service Truck (aerial lift) MPL #60
- 2017-18      No replacements currently projected
- 2018-19      Replace 1979 Chevrolet C70 Chipper Dump Truck MPL #52
- 2019-20      No replacements currently projected
- 2020-21      Replace 2008 Chevrolet Colorado MPL #62

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Equipment	\$115,000		\$60,000		\$25,000	\$200,000
Total	\$115,000		\$60,000		\$25,000	\$200,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Power and Light	\$115,000		\$60,000		\$25,000	\$200,000
Total	\$115,000		\$60,000		\$25,000	\$200,000

**PROJECT NUMBER:** 3PL04

**FUND:** Power and Light

**DEPARTMENT:** Power and Light

**PROJECT TITLE:** New Line Construction

**PROJECT DESCRIPTION:**

3PL04 - #1 Construct 20 miles of single-phase and three-phase distribution line extensions to serve 1,025 new consumers during the next 15 years.

*Note: Although we plan for system improvements, it is not always possible to break this category out into individual projects until developers indicate where they plan to build. We want to avoid stranded costs by providing infrastructure into areas that will not develop out for several more years.*

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
3PL04 - #1	\$106,400	\$106,400	\$106,400	\$106,400	\$106,400	\$532,000
Total	\$106,400	\$106,400	\$106,400	\$106,400	\$106,400	\$532,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Power and Light	\$49,900	\$49,900	\$49,900	\$49,900	\$49,900	\$249,500
Aid to Construction	\$56,500	\$56,500	\$56,500	\$56,500	\$56,500	\$282,500
Total	\$106,400	\$106,400	\$106,400	\$106,400	\$106,400	\$532,000

**PROJECT NUMBER:** 5PL04

**FUND:** Power and Light

**DEPARTMENT:** Power and Light

**PROJECT TITLE:** Conversion and Line Changes

**PROJECT DESCRIPTION:**

- 5PL04 - #9 Rebuild 0.5 miles of existing overhead three-phase 2 ACSR line in the alleys of the downtown core area to 1/0 AL UG.
- 5PL04- #10 Rebuild 1.3 miles of single phase 2ACSR to 1 phase 1/0 AL UG along the Falls City Highway and Fishback Road.
- 5PL04 - #14 Install 0.5 mile 3-phase 1/0 AL UG west along Jackson Street from Highway 99 to Monmouth Avenue to replace the existing overhead line that is being broken down by excessively heavy communications circuits.
- 5PL04 - #15 Install 0.4 mile 3-phase 4/0 ACSR line along Powell Street from Highway 99 to Knox Street to replace the existing 4/0 ACSR line.
- 5PL04 - #19 Install 0.4 mile single-phase 2 AL UG along Main Street from Monmouth Street to the west end of Main Street to replace 2 ACSR overhead line.
- 5PL04 - #20 Install 0.5 mile of new 1-phase 2 AL UG cable in the northeast sector of Monmouth, which includes Candlewood, North Atwater, Cottonwood and Brightwood Streets to replace the existing 2 ACSR overhead conductors.
- 5PL04 - #22 Install 0.2 mile 1-phase 2 AL UG along Caroline Street from Sacre Lane to replace existing single-phase 2 AL UG cable.
- 5PL04 - #24 Replace 4/0 AL UG secondary conductors to multiple apartment complexes in the City.

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
5PL04 - #9	\$25,400	\$13,200	\$13,200	\$13,200	\$13,200	\$78,200
5PL04- #10	\$14,300	\$14,300	\$14,300	\$14,300	\$14,300	\$71,500
5PL04 - #14	\$13,800	\$15,500	\$13,800	\$0	\$0	\$43,100
5PL04 - #15	\$19,400	\$19,400	\$19,400	\$0	\$0	\$58,200
5PL04 - #19	\$18,850	\$9,800	\$18,850	\$0	\$0	\$47,500
5PL04 - #20	\$0	\$12,000	\$30,000	\$0	\$0	\$42,000
5PL04 - #22	\$0	\$8,900	\$6,500	\$0	\$0	\$15,400
5PL04 - #24	\$1,000	\$1,000	\$1,000	\$0	\$0	\$3,000
Total	\$92,750	\$94,100	\$117,050	\$27,500	\$27,500	\$358,900

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Power and Light	\$92,750	\$94,100	\$117,050	\$27,500	\$27,500	\$358,900
Aid to Construction						
Total	\$92,750	\$94,100	\$117,050	\$27,500	\$27,500	\$358,900

*Note: Project costs were formerly distributed over 5 years. This represents costs during year of intended project work.*

**PROJECT NUMBER:** 8PL04

**FUND:** Power and Light

**DEPARTMENT:** Power and Light

**PROJECT TITLE:** Install Distribution Equipment

**PROJECT DESCRIPTION:**

8PL04 - #29            Install 280 new transformers and 1,065 meters to serve new consumers.

8PL04 - #30            Install facilities for increasing the capacity of existing consumers.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
8PL04 - #29	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$270,000
8PL04 - #30	\$12,160	\$12,160	\$12,160	\$12,160	\$12,160	\$60,800
Total	\$66,160	\$66,160	\$66,160	\$66,160	\$66,160	\$330,800

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Power and Light	\$31,160	\$30,660	\$30,660	\$30,660	\$30,660	\$153,800
Aid to Construction	\$35,000	\$35,500	\$35,500	\$35,500	\$35,500	\$177,000
Total	\$66,160	\$66,160	\$66,160	\$66,160	\$66,160	\$330,800

*Note: Projects of this type are ongoing and are typically spread out over several years. Due to nature of construction activity requiring equipment the funds are expended on an as-needed basis. Meters are purchased on a regular basis and although we are experiencing less failures on our older meters we are continuing to change them out due to the expiration of our warranty.*

**PROJECT NUMBER:** 9PL04

**FUND:** Power and Light

**DEPARTMENT:** Power and Light

**PROJECT TITLE:** Install Sectionalizing Equipment

**PROJECT DESCRIPTION:**

9PL04 - #31      Installation of fuses, switches, and circuit reclosers on the distribution system.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
9PL04 - #31	\$30,000					\$30,000
Total	\$30,000					\$30,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Power and Light	\$30,000					\$30,000
Aid to Construction						
Total	\$30,000					\$30,000

**PROJECT NUMBER:** 10PL04

**FUND:** Power and Light

**DEPARTMENT:** Power and Light

**PROJECT TITLE:** Install Capacitors to Improve Power Factor

**PROJECT DESCRIPTION:**

- 10PL04 - #32      Install 3, single-phase 100 KVAR electronically controlled shunt capacitor units on the Ackerman Feeder.
- 10PL04 - #32      Install 3, single-phase 100 KVAR electronically controlled shunt capacitor units on the West Feeder.
- 10PL04 - #32      Install 3, single-phase 100 KVAR electronically controlled shunt capacitor units on the East Feeder.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
10PL04 - #32	\$10,000					\$10,000
10PL04 - #32	\$10,000					\$10,000
10PL04 - #32	\$10,000					\$10,000
Total	\$30,000					\$30,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Power and Light	\$30,000					\$30,000
Aid to Construction						
Total	\$30,000					\$30,000

*Note: At the advice of our engineering firm this project was delayed until 2016-17 budget cycle.*

**PROJECT NUMBER:** 13PL04

**FUND:** Power and Light

**DEPARTMENT:** Power and Light

**PROJECT TITLE:** Miscellaneous Distribution Items

**PROJECT DESCRIPTION:**

13PL04 - #35      Install 30 pole inserts.

13PL04 - #36      Balance feeder loading.

13PL04 - #38      Replace 30 security lights for individual accounts with LED lighting.

*Note: Project #37 was escalated. Over 500 high-pressure sodium street lights were replaced with LED street lighting in budget cycle 2014-15. This resulted in significant energy savings. All new street and security lighting installed will be LED lighting.*

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
13PL04 - #35	\$1,600	\$1,600	\$1,600	\$1,600	\$0	\$6,400
13PL04 - #36	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$5,000
13PL04 - #38	\$7,500	\$500	\$500			\$8,500
						\$0
Total	\$10,100	\$3,100	\$3,100	\$2,600	\$1,000	\$19,900

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Power and Light	\$8,100	\$2,800	\$2,800	\$2,600	\$1,000	\$17,300
Aid to Construction	\$2,000	\$300	\$300			\$2,600
Total	\$10,100	\$3,100	\$3,100	\$2,600	\$1,000	\$19,900



**PROJECT NUMBER:** 15PL04

**FUND:** Power and Light

**DEPARTMENT:** Power and Light

**PROJECT TITLE:** Power & Light Facility Headquarters

**PROJECT DESCRIPTION:**

15PL04 - #40 Construct new MP&L headquarters, crew and equipment facilities and storage area.

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
15PL04 - #40	\$2,000,000					\$2,000,000
Total	\$2,000,000					\$2,000,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Power and Light	\$2,000,000					\$2,000,000
Aid to Construction						
Total	\$2,000,000					\$2,000,000

**PROJECT NUMBER:** 16PL04

**FUND:** Power and Light

**DEPARTMENT:** Power and Light

**PROJECT TITLE:** Miscellaneous Operational Items

**PROJECT DESCRIPTION:**

16PL04 - #41      Develop a detailed computer based mapping and record keeping system.

16PL04 - #41      Develop an updated sectionalizing study. Incorporate with mapping system.

*Mapping project is well underway. Delayed due to change in staffing. Funds requested are carry-over funds from 2015-16. Expected completion on or before 12-15-2016.*

**APPROPRIATIONS**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
16PL04 - #41	\$9,000			\$5,000		\$14,000
16PL04 - #41	\$10,000	\$5,000				\$15,000
						\$0
Total	\$19,000	\$5,000		\$0		\$29,000

**REVENUE**

YEAR	2016-17	2017-18	2018-19	2019-20	2020-21	Total
Power and Light	\$19,000	\$5,000		\$5,000		\$29,000
Aid to Construction						
Total	\$19,000	\$5,000		\$5,000		\$29,000

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