

**2017-2022**

**CAPITAL IMPROVEMENTS PROGRAM**



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## **2017-22 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.

## **2017-22 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.

2017-2022 Capital Improvements Program

Pg #	PRJ #	TITLE	2017-18	2018-19	2019-20	2020-21	2021-22	Strategy	Secure Funding
<b>GENERAL FUND PROJECTS</b>									
6	3MF00	Rebuild City Hall				3,500,000		n	n
7	1MF16	City Server & Tape Drive Replace	17,500			20,000		y	y
8	1PD00	Patrol Vehicles & Equipment	45,000	80,000	46,000	81,000	47,000	y	y
9	2PD12	Vehicle/Body Worn Cameras	6,000	6,000	6,000	6,000		y	y
10	1PR06	Madrona Park Improvements		50,000		65,000		y	y
11	4PR00	Main Street Park Improvements	8,500		150,000			y	y
--	1SC07	Senior Center Building Expansion						y	y
<b>TOTAL GENERAL FUND</b>			<b>77,000</b>	<b>136,000</b>	<b>202,000</b>	<b>3,672,000</b>	<b>47,000</b>		
<b>SANITARY SEWER FUND PROJECTS</b>									
12	1PW00	Purchase & Replace Equipment		20,300	55,000	78,000	60,000	y	y
13	1PWSS05	Wastewater Plant Improvements	235,000					y	y
14	1PWSS06	Effluent Re-use Facility Expansion	25,000					y	y
15	1PWSS07	Gwinn & Suzanna Swr Line Replace	904,400			1,740,000		y	y
16	1PWSS08	Sewer Line Replacements - Ongoing	125,000		210,000			y	y
17	1PWSS16	SCADA Software Licensing	32,000					y	y
<b>TOTAL SANITARY SEWER FUND</b>			<b>1,321,400</b>	<b>20,300</b>	<b>265,000</b>	<b>1,818,000</b>	<b>60,000</b>		
<b>WATER FUND PROJECTS</b>									
12	1PW00	Purchase & Replace Equipment		20,300	55,000	34,000	60,000	y	y
18	15PWW02	Willamette Well Field	106,000	536,000				y	y
19	15PWW03	Water Line Replacements			424,000	530,000	530,000	y	y
20	15PWW05	Pilot - Automated Meter Reading (AMR)	150,000	150,000	150,000	150,000		y	y
21	15PWW09	Marion County Well #1 Improvements	217,000					y	y
22	15PWW10	ODOT Utility Conflict - Wtr Line Replace	280,000					y	y
<b>TOTAL WATER FUND</b>			<b>753,000</b>	<b>706,300</b>	<b>629,000</b>	<b>714,000</b>	<b>590,000</b>		
<b>STREET FUND PROJECTS</b>									
12	1PW00	Purchase & Replace Equipment		84,200	25,000	73,000	37,000	y	y
23	9PWST00	West Campus Storm Relief			285,000			y	y
24	9PWST01	Stormwater Master Plan	30,000	30,000				y	y
25	10PWST00	Street Extensions/Improvements	300,000				150,000	y	y
<b>TOTAL STREET FUND</b>			<b>330,000</b>	<b>114,200</b>	<b>310,000</b>	<b>73,000</b>	<b>187,000</b>		
<b>STORM WATER UTILITY FUND PROJECTS</b>									
12	1PW00	Purchase & Replace Equipment		84,200	14,600	47,000	40,000	y	n
<b>TOTAL URBAN RENEWAL</b>			<b>-</b>	<b>84,200</b>	<b>14,600</b>	<b>47,000</b>	<b>40,000</b>		
<b>ELECTRIC UTILITY PROJECTS</b>									
26	2PL01	Purchase and Replace Equipment	4,200	60,000		25,000		y	y
27	3PL04	New Line Construction	106,400	106,400	106,400	106,400	106,400	y	y
28	5PL04	Conversion and Line Changes	92,750	94,100	117,050	27,500	27,500	y	y
29	8PL04	Distribution Equipment	66,160	66,160	66,160	66,160	66,160	y	y
--	9PL04	Sectionalizing Equipment						y	y
30	10PL04	Capacitors to Improve Power Factor	30,000					y	y
31	13PL04	Miscellaneous Distribution Items	10,100	3,100	3,100		1,000	y	y
32	15PL04	Power & Light Facility Headquarters	1,990,675					y	y
33	16PL04	Miscellaneous Operational Items	10,000	5,000		5,000		y	y
34	17PL07	Highway 99 - New Line Extension	750,000					y	y
<b>TOTAL POWER &amp; LIGHT FUND</b>			<b>3,060,285</b>	<b>334,760</b>	<b>292,710</b>	<b>230,060</b>	<b>201,060</b>		
<b>GRAND TOTAL</b>			<b>5,541,685</b>	<b>1,395,760</b>	<b>1,713,310</b>	<b>6,554,060</b>	<b>1,125,060</b>		

2017-2022 Capital Improvements Program

Pg # PRJ # TITLE FISCAL YEAR 2017-2018 FUNDING SOURCE SUMMARY

GENERAL FUND PROJECTS			Gen Fund	Pks SDC				Total
6	3MF00	Rebuild City Hall						
7	1MF16	City Server & Tape Drive Replace	17,500					17,500
8	1PD00	Patrol Vehicles & Equipment	45,000					45,000
9	2PD12	Vehicle/Body Worn Cameras	6,000					6,000
10	1PR06	Madrona Park Improvements						
11	4PR00	Main Street Park Improvements		8,500				8,500
--	1SC07	Senior Center Building Expansion						
<i>Funding Source Totals</i>			<b>68,500</b>	<b>8,500</b>				<b>77,000</b>

SANITARY SEWER FUND PROJECTS			Swr Fund	Swr SDC				Total
12	1PW00	Purchase & Replace Equipment						
13	1PWSS05	Wastewater Plant Improvements	235,000					235,000
14	1PWSS06	Effluent Re-use Facility Expansion		25,000				25,000
15	1PWSS07	Gwinn & Suzanna Swr Line Replace		904,400				904,400
16	1PWSS08	Sewer Line Replacements - Ongoing	125,000					125,000
17	1PWSS16	SCADA Software Licensing	32,000					32,000
<i>Funding Source Totals</i>			<b>392,000</b>	<b>929,400</b>				<b>1,321,400</b>

WATER FUND PROJECTS			Wtr Fund	Wtr SDC				Total
12	1PW00	Purchase & Replace Equipment						
18	15PWW02	Willamette Well Field		106,000				106,000
19	15PWW03	Water Line Replacements						
20	15PWW05	Pilot - Automated Meter Reading (AMR)	150,000					150,000
21	15PWW09	Marion County Well #1 Improvements	217,000					217,000
22	15PWW10	ODOT Utility Conflict - Wtr Line Replace	280,000					280,000
<i>Funding Source Totals</i>			<b>647,000</b>	<b>106,000</b>				<b>753,000</b>

STREET FUND PROJECTS			Strt Fund	Storm SDC	Trans SDC	STP Fund		Total
12	1PW00	Purchase & Replace Equipment						
23	9PWST00	West Campus Storm Relief						
24	9PWST01	Stormwater Master Plan		30,000				30,000
25	10PWST00	Street Extensions/Improvements			200,000	100,000		300,000
<i>Funding Source Totals</i>				<b>30,000</b>	<b>200,000</b>	<b>100,000</b>		<b>330,000</b>

STORM WATER UTILITY FUND PROJECTS								Total
12	1PW00	Purchase & Replace Equipment						0
<i>Funding Source Totals</i>								<b>0</b>

ELECTRIC UTILITY PROJECTS			P&L	Aid to Con				Total
26	2PL01	Purchase and Replace Equipment	4,200					4,200
27	3PL04	New Line Construction	49,900	56,500				106,400
28	5PL04	Conversion and Line Changes	92,750					92,750
29	8PL04	Distribution Equipment	31,160	35,000				66,160
--	9PL04	Sectionalizing Equipment						0
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	1,990,675					1,990,675
33	16PL04	Miscellaneous Operational Items	10,000					10,000
34	17PL07	Highway 99 - New Line Extension	750,000					750,000
<i>Funding Source Totals</i>			<b>2,966,785</b>	<b>93,500</b>				<b>3,060,285</b>

**COLUMN TOTALS** **4,074,285** **1,167,400** **200,000** **100,000** **5,541,685**

## 2016-2017 PROJECT STATUS

### *GENERAL FUND*

1MF16	City Server & Tape Drive Rplmt	The City's primary server was replaced instead of backup server
1PD00	Patrol Vehicles & Equipment	One patrol vehicle and one CSO pick-up were purchased
2PD12	In-Car Cameras for Patrol Cars	Ten body-worn cameras were purchased
1PR06	Madrona Park Improvements	Improvements will be constructed summer of 2017
1SC07	Senior Center Expansion	Completed in January 2017

### *SANITARY SEWER FUND*

1PW00	Purchase & Replace Equipment	Purchased a 1 ton 4X4 flatbed truck and backhoe (1/3)
1PWSS05	Wastewater Plant Improvements	Improvements started in FY 2016-17, completion in FY 2017-18
1PWSS06	Effluent Re-use Facility Expansion	No expansion required.
1PWSS07	Gwinn & Suzanna Swr Line Replace	Postponed until FY 2017-18
1PWSS08	Sewer Line Replacements - Ongoing	Postponed until FY 2017-18
1PWSS09	SCADA Software Licensing	SCADA Software licensing purchased and upgrades installed

### *WATER FUND*

1PW00	Purchase & Replace Equipment	Purchases a 3/4 ton 4X4 pickup truck and backhoe (1/3)
15PWW02	Willamette Well Field	Postponed until FY 2017-18
15PWW05	Automatic Meter Pilot Program	Ongoing deployment of AMR meters
15PWW09	Marion County Well #1 Improvements	Design completed and submitted for regulatory review and approval

### *STREET FUND*

1PW00	Purchase & Replace Equipment	Purchased a backhoe (1/3)
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### *POWER & LIGHT FUND*

2PL01	Purchase & Replace Equipment	Ford chassis replaced and boom remounted. New chipper due in May
3PL04	New Line Construction	Beverley Estates & Mistletoe complete. Quail Crossing & Hwy 99 begun
5PL04	Conversion and Line Changes	Ongoing
8PL04	Distribution Equipment	Ongoing due to added tracts and customers/equipment
9PL04	Sectionalizing Equipment	Completed
10PL04	Capacitors to Improve Power Factor	Postponed pending new WOU buildings and Hwy 99 upgrade
13PL04	Miscellaneous Distribution Items	Ongoing - feeder balancing adjusts to new tracts installed
15PL04	Power & Light Facility Headquarters	Anticipate completing preliminary stages & construction during 17-18
16PL04	Miscellaneous Operational Items	Mapping nearly complete & sectionalizing study to be done after Hwy 99

## HISTORY OF SIGNIFICANT CAPITAL PURCHASES - LAST 10 YEARS

Description	FISCAL YEAR										Totals	
	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17 *		
Prop Purch - Fire Station (152 Warren)	206,169											206,169
Prop Purch - Appt Bldg (159 S. Monmouth)	110,365	28,475										138,840
Caselle Finance & Court Software							115,265	29,570				144,835
Police Vehicles	72,376	8,934	64,407	39,354	48,472	100,498	40,913	42,492	70,131			487,577
E-Ticket System					56,468							56,468
New Police Station						819,729	3,672,885					4,492,614
Prop Purch - Main St Park Expansion		166,696										166,696
Dog Park					63,923							63,923
Madrona Park Improvements					58,085	570,733						628,818
Main St. Fountain					253,690							253,690
Main St. Amphitheater						1,163,218	106,935					1,270,153
Senior Center Expansion						69,072	450,429					519,501
Sewer Treatment Plant Upgrade					4,013,184							4,013,184
Marion County Well #2		191,800	486,439									678,239
4th St. Reservoir and Pump Station				1,979,026								1,979,026
Willamette Well Field				504,594								504,594
P&L AMR's	666,217											666,217
P&L South Sub Transmission Line		1,096,975										1,096,975
P&L South Substation & Exit Feeders		1,986,040	660,045									2,646,085
P&L Bucket & Line Trucks			168,830	219,267					80,944			469,041
New P&L Headquarters							350,000		9,325			359,325
S-Curve Overlay and Sidewalk			455,394									455,394
Downtown Streetscape					764,403							764,403
										Grand Total		21,855,598

\* Estimated

**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 an expansion of the Senior Center was completed in FY 16-17. A new Power & Light Headquarters building is planned for FY 17-18. 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	2017-18	2018-19	2019-20	2020-21	2020-22	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	2017-18	2018-19	2019-20	2020-21	2020-22	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 replaced in FY 16-17 and the City's backup server is planned for replacement in FY 17-18. 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 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 2020-21 - Replace the City's primary server as it will be approaching 5 years in age.

**APPROPRIATIONS**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect						
Construction						
Equipment	\$17,500			\$20,000		\$37,500
Contingency						
Total	17,500			20,000		37,500

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
General Fund	\$17,500			\$20,000		\$37,500
Total	17,500			20,000		37,500



**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 this year (2017/2018). The years following 17/18, 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 one vehicle this year will replace one vehicle that has been in service for 8 years. This replacement program helps to keep our fleet in good condition and will help minimize repair costs.

**Appropriations**

Year	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect						
Construction						
Equipment	\$45,000	\$80,000	\$46,000	\$81,000	\$47,000	\$299,000
Contingency						
Total	\$45,000	\$80,000	\$46,000	\$81,000	\$47,000	\$299,000

**Revenue**

Year	2017-18	2018-19	2019-20	2020-21	2021-22	Total
General Fund	\$45,000	\$80,000	\$46,000	\$81,000	\$47,000	\$299,000
Total	\$45,000	\$80,000	\$46,000	\$81,000	\$47,000	\$299,000

**Project Number:** 2PD12

**Fund:** General

**Department:** Police

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

**Project Description:** Purchase of Vehicle/Body Worn Cameras this year (17-18) and the following 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, capturing unexpected crimes in progress and for surveillance purposes.

### Appropriations

Year	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect						
Construction						
Equipment	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000		\$24,000
Contingency						
Total	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000		\$24,000

### Revenue

Year	2017-18	2018-19	2019-20	2020-21	2021-22	Total
General Fund	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000		\$24,000
Total	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000		\$24,000

**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 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	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect		\$10,000				\$10,000
Construction		\$20,000				\$20,000
Equipment		\$20,000		\$65,000		\$85,000
Land Acquisition						
Total		\$50,000		\$65,000		\$115,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
OR St. Parks Grant						\$0
Parks SDC		\$50,000		\$65,000		\$115,000
Rec Trails Grant						\$0
Donations						\$0
Total		\$50,000		\$65,000		\$115,000

**PROJECT NUMBER:** 4PR00

**FUND:** Parks SDC

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Main Street Park Improvement

**PROJECT DESCRIPTION:** The 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. Next, to accommodate the increased use in the park, the restroom would be replaced with a larger heated facility for year around use. Finally, an expansion of the play structure to accommodate a wider range of ages was to be considered.

In FY 2017-18, the play structure will be expanded to include three additional toddler appropriate rocking toys. This will require expanding the play area with additional border and fall material.

In FY 2020-21, if funds are available, the play structure will be further 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 at the park, and in the downtown core.

**APPROPRIATIONS**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Development						\$0
Engineering/Architect						
Purchase Property						
Equipment	\$8,500		\$150,000			\$158,500
Total	\$8,500		\$150,000			\$158,500

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
SDC Fund	\$8,500		\$75,000			\$83,500
General Fund			\$75,000			\$75,000
Grant						
Urban Renewal District						\$0
Total	\$8,500		\$150,000			\$158,500

**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.

2017-18	No Equipment Purchases	2020-21	Tractor/ boom mower
2018-19	Street Sweeper	2021-22	Lt Duty Dump Truck Service Truck Pickup Truck
2019-20	Line Cleaner/ Vacuum (3) Pickup Trucks		

**APPROPRIATIONS**

YEAR	2017-78	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect						
Construction						
Equipment		\$209,000	\$149,600	\$232,000	\$197,000	\$787,600
Contingency						
Total		\$209,000	\$149,600	\$232,000	\$197,000	\$787,600

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Sewer Fund		\$20,300	\$55,000	\$78,000	\$60,000	\$213,300
Water Fund		\$20,300	\$55,000	\$34,000	\$60,000	\$169,300
Street Fund		\$84,200	\$25,000	\$73,000	\$37,000	\$219,200
Stormwater Fund		\$84,200	\$14,600	\$47,000	\$40,000	\$185,800
Total		\$209,000	\$149,600	\$232,000	\$197,000	\$787,600

**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 17-18, the City will complete construction of 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	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect	\$30,000					\$30,000
Construction	\$200,000					\$200,000
Equipment						\$0
Contingency	\$5,000					\$5,000
Total	\$235,000					\$235,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Sewer Fund	\$235,000					\$235,000
Sewer SDC Fund						
Revenue Bond/Grant						
Total	\$235,000					\$235,000

**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 2017-18, 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	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect						
Construction						
Equipment	\$25,000					\$25,000
Contingency						
Total	\$25,000					\$25,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	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 2017-18, 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 2020-21, 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 Suzanna Avenue Trunk Line project will allow for planned and future expansion on the WOU campus. Design on this project will begin in FY 2020-21.

**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	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect	\$155,400			\$75,000		\$230,400
Construction	\$734,000			\$1,625,000		\$2,359,000
Equipment						
Contingency	\$15,000			\$40,000		\$55,000
Total	\$904,400			\$1,740,000		\$2,644,400

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Sewer Fund				\$540,000		\$540,000
Sewer SDC Fund	\$904,400			\$1,200,000		\$2,104,400
Total	\$904,400			\$1,740,000		\$2,644,400



**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 2017-18, 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 2019-20, 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 Suzana 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	2017-18	2018-19	2019-20	2020-21	2021-22	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	2017-18	2018-19	2019-20	2020-21	2021-22	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 2017-18, 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	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect	\$8,000					\$8,000
Construction						
Equipment	\$24,000					\$24,000
Contingency						
Total	\$32,000					\$32,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	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 2017-18, 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 2018-19, 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	2017-18	2018-19	2019-20	2020-21	2021-22	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	2017-18	2018-19	2019-20	2020-21	2021-22	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 2019-20, 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 2020-21, The department will continue construction of 14,000 feet of transmission waterline.

In FY 2021-22, 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	2017-18	2018-19	2019-20	2020-21	2021-22	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	2017-18	2018-19	2019-20	2020-21	2021-22	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 department has been deploying AMR water meters throughout town. The new meters can be read remotely using radio frequency, and are compatible with our utility billing system. It has been planned that as funding and personnel are available the department would continue installing the AMR meter reading system.

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

In FY 2018-19, the department will continue to deploy AMR meters.

In FY 2019-20, the department will continue to deploy AMR meters.

In FY 2020-21, the department will fully deploy AMR meters.

**BENEFITS:** Once fully deployed, the department will be able to read all system meters in two hours using one employee. 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	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect						
Construction						
Equipment	\$150,000	\$150,000	\$150,000	\$150,000		\$600,000
Contingency						
Total	\$150,000	\$150,000	\$150,000	\$150,000		\$600,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Water Fund	\$150,000	\$150,000	\$150,000	\$150,000		\$600,000
Water SDC Fund						
Total	\$150,000	\$150,000	\$150,000	\$150,000		\$600,000

**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. Marion County Well #1 has been determined to be under the influence of surface water, and is required to have filtration equipment added for treatment. 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 install an approved water filtration system. The filtration system will be located at the department's 4<sup>th</sup> Street Facility.

During FY 2017-18, the department will install the approved filtration equipment at the 4th Street facility. Additional replacement cartridge filters will be purchased with the initial project.

**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	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect	\$20,000					\$20,000
Construction	\$50,000					\$50,000
Equipment	\$137,000					\$137,000
Contingency	\$10,000					\$10,000
Total	\$217,000					\$217,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Water Fund	\$217,000					\$217,000
Water SDC Fund						
Total	\$217,000					\$217,000

**PROJECT NUMBER:** 15PWW10

**FUND:** Water

**DEPARTMENT:** Public Works

**PROJECT TITLE:** ODOT Utility Conflict-Water Line Replacement

**PROJECT DESCRIPTION:** Specific water lines that conflict with proposed improvements along Highway 99W are required to be relocated prior to construction of the highway improvements beginning in the summer of 2018. It is Monmouth's responsibility to address the utility conflicts at expense to the City.

In FY 2017-18, the department will be required to relocate or adjust portions of waterlines located within the highway 99W right of way. At this time it is unclear how much of the City's waterlines will need to be replaced. An estimate of potential cost is provided. The potential range could be \$150,000 - \$1 million.

**BENEFITS:** This project will relocate the City's waterlines in a manner and location that will prevent them from being damaged during construction. This project will reduce the potential for emergency water outages due to damage during construction.

**APPROPRIATIONS**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect	\$30,000					\$30,000
Construction	\$250,000					\$250,000
Equipment						\$0
Contingency						\$0
Total	\$280,000					\$280,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Water Fund	\$280,000					\$280,000
Water SDC Fund						\$0
Total	\$280,000					\$280,000

**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	2017-18	2018-19	2019-20	2020-21	2021-22	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	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Street Fund			\$85,000			\$80,000
Storm Drain SDC			\$200,000			\$200,000
Total			\$285,000			\$285,000



**PROJECT NUMBER:** 9PWST01

**FUND:** Storm SDC

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Stormwater Master Plan

**PROJECT DESCRIPTION:** This initiative requires hiring qualified consultants to assist the City in developing a long term plan for stormwater conveyance and treatment facilities within the city limits of Monmouth. This plan will identify deficiencies in the City's current conveyance network, as well as, important projects related to future growth and regulatory requirements. This plan will also help the City develop a list of capital projects the City will need to plan for over the next 20 years.

**BENEFITS:** This initiative will provide the City with a roadmap for the timing of future capital projects, and the financial resources that will be needed to address both deficiencies and growth related improvements.

**APPROPRIATIONS**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect	\$30,000	\$30,000				\$60,000
Construction						\$0
Equipment						
Contingency						\$0
Total	\$30,000	\$30,000				\$60,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Street Fund						\$80,000
Storm Drain SDC	\$30,000	\$30,000				\$60,000
Total	\$30,000	\$30,000				\$60,000

**PROJECT NUMBER:** 10PWST00

**FUND:** Transportation SDC

**DEPARTMENT:** Public Works

**PROJECT TITLE:** Warren Street 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 2017-18, two significant properties along South Warren Street are being considered for development. These properties are adjacent to the section of Warren not fully improved. Should City Council determine that full street improvements are in the best interest of Monmouth residents, funds have been set aside for the City to participate with developers in full street improvements.

In FY 2021-22, 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. 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	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Engineering/Architect	\$65,000				\$150,000	\$215,000
Construction	\$235,000					\$235,000
Equipment						
Contingency						
Total	\$300,000				\$150,000	\$450,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Street Fund						
Transportation SDC	\$200,000				\$150,000	\$350,000
STP Fund	\$100,000					\$100,000
ODOT Grant						
Total	\$300,000				\$150,000	\$450,000

**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

- 2017-18 Purchase large scanner attachment for plotter
- 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
- 2021-22 No replacements currently projected

**APPROPRIATIONS**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Equipment	\$4,200	\$60,000		\$25,000		\$89,200
Total	\$4,200	\$60,000		\$25,000		\$89,200

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Power and Light	\$4,200	\$60,000		\$25,000		\$89,200
Total	\$4,200	\$60,000		\$25,000		\$89,200

**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	2017-18	2018-19	2019-20	2020-21	2021-22	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	2017-18	2018-19	2019-20	2020-21	2021-22	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.

**APPROPRIATIONS**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	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			\$43,100
5PL04 - #15	\$19,400	\$19,400	\$19,400			\$58,200
5PL04 - #19	\$18,850	\$9,800	\$18,850			\$47,500
5PL04 - #20		\$12,000	\$30,000			\$42,000
5PL04 - #22		\$8,900	\$6,500			\$15,400
5PL04 - #24	\$1,000	\$1,000	\$1,000			\$3,000
Total	\$92,750	\$94,100	\$117,050	\$27,500	\$27,500	\$358,900

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	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 new transformers and meters to serve new consumers.

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

Projects on the table include:

- Edwards Addition phase 7 – 22 units and a line extension; +/- \$46,179
- Quail Crossing – 36 units – and a line extension; +/- \$79,203

Projects on the table include:

- Former Albin Tract on Ecols – estimated \$80,000  
     10 triplex units  
     22 single family units
- Housing proposed North of Whitaker Rd on Riddell Rd – in excess of \$100,000  
     1 Bedroom – 44 units  
     2 Bedroom – 66 units  
     3 Bedroom – 128 units  
     4 Bedroom – 106 units  
     28 buildings in all with 373 meters

**APPROPRIATIONS**

YEAR	2017-18	2018-19	2019-20	2019-20	2021-22	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	2017-18	2018-19	2019-20	2019-20	2021-22	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:** 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	2017-18	2018-19	2019-20	2020-21	2021-22	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	2017-18	2018-19	2019-20	2020-21	2021-22	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 2017-18 budget cycle to allow for new larger load to be balanced out within the electric system..*

**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.

**APPROPRIATIONS**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
13PL04 - #35	\$1,600	\$1,600	\$1,600			\$4,800
13PL04 - #36	\$1,000	\$1,000	\$1,000		\$1,000	\$4,000
13PL04 - #38	\$7,500	\$500	\$500			\$8,500
Total	\$10,100	\$3,100	\$3,100		\$1,000	\$17,300

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Power and Light	\$8,100	\$2,600	\$2,300		\$1,000	\$14,000
Aid to Construction	\$2,000	\$500	\$800			\$3,300
Total	\$10,100	\$3,100	\$3,100		\$1,000	\$17,300



**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	2017-18	2018-19	2019-20	2020-21	2021-22	Total
15PL04 - #40	\$1,990,675					\$1,990,675
Total	\$1,990,675					\$1,990,675

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Power and Light	\$1,990,675					\$1,990,675
Total	\$1,990,675					\$1,990,675

**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.

*Note: Sectionalizing study delayed due to larger subdivisions planned and Hwy 99 project coordination.*

**APPROPRIATIONS**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
16PL04 - #41				\$5,000		\$5,000
16PL04 - #41	\$10,000	\$5,000				\$15,000
Total	\$10,000	\$5,000		\$5,000		\$20,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Power and Light	\$10,000	\$5,000		\$5,000		\$20,000
Total	\$10,000	\$5,000		\$5,000		\$20,000

**PROJECT NUMBER:** 17PL01

**FUND:** Power and Light

**DEPARTMENT:** Power and Light

**PROJECT TITLE:** Highway 99 - New Line Construction

**PROJECT DESCRIPTION:**

1PL17 – Reroute portions of existing power line along Highway 99W to accommodate the ODOT highway improvement project. This project includes just north of Gentle Woods Park south to approximately Gwinn Street. Existing overhead lines will be placed underground and many existing underground facilities will be relocated per ODOT request.

**APPROPRIATIONS**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
1PL17	\$750,000					\$750,000
Total	\$750,000					\$750,000

**REVENUE**

YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	Total
Power & Light	\$750,000					\$750,000
Total	\$750,000					\$750,000