

ELECTRIC DEPARTMENT

2022 BUDGET PRESENTATION

AS PRESENTED ON: SEPTEMBER 20th, 2021

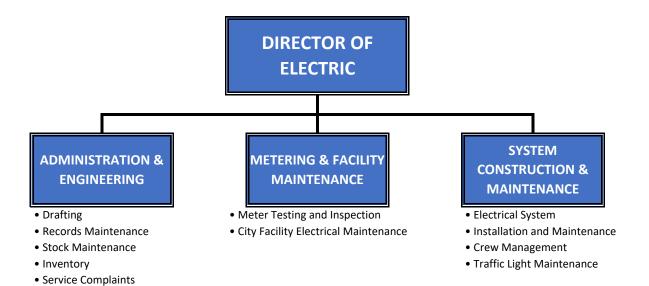
Table of Contents

Department	epartment Organizational Chart 5								
Department	Narrative	6							
Department	t 2021 Accomplishments	7							
Department	t 2022 Goals	8							
2022 Budget	t Documents - Electric Fund - Electric Department	9							
	Executive Summary	10-11							
Gen	eral Operating Budget - Electric Fund - Electric Department	12							
	Summary	13							
	Personnel Services	14							
	Position Detail	15							
	Materials and Supplies	16							
	Contractual Services	17							
	Other Charges Inter-Dept. Charges Department Totals	18							
	This page was left intentionally blank	19							
Сарі	ital Improvements Program (2022-2026) - Electric Fund - Electric Department	20							
	2022-2026 CIP Summary	21							
	E2201 - New Lines and Services	22							
	E2201 (Supporting Documentation #1)	23							
	E2202 - Electric Warehouse	24							
	E2202 (Supporting Documentation #1)	25							
	E2204 - Vehicle #110 - 3-Wheel Wire Trailer Replacement	26							
	E2204 (Supporting Documentation #1)	27							
	E2204 (Supporting Documentation #2)	28							
	E2204 (Supporting Documentation #3)	29							
	E2205 - Fleet addition: #117 - Small Trencher	30							
	E2206 - Secondary Cable Replacement/ Rejuvenate at Villa Belmont	31							
	E2206 (Supporting Documentation #1)	32							
	E2206 (Supporting Documentation #2)	33							

Table of Contents

Сар	ital Improvements Program (2022-2026) - Electric Fund - Electric Department (continued)	
	E2002 - New Substation	34
	E2002 (Supporting Documentation #1)	35
	E1911 - 35kV Line 3402 Capacity Upgrade	36
	E1901 (Supporting Documentation #1)	37
	This page was left intentionally blank	38
	E1912 - 35kV Disconnect Switches Replacement - Kershaw Substation	39
	E1805 - Line Extension Across UD Farm	40
	E1805 (Supporting Documentation #1)	41
	E1806 - Christianstead Underground Primary Cable Addition	42
	E1806 (Supporting Documentation #1)	43
	E1807 - Relay Replacements - Kershaw Substation	44
	E1808 - Voltage Upgrade - North College Avenue	45
	E1810 - Lightning Arrestor Replacement	46
	E1602 - Circuit Breaker Replacement	47
	E1502 - Underground Distribution - UD Star Campus	48
	E1502 (Supporting Documentation #1)	49
	E1203 - CAD Software	50
	E1105 - Upgrade Substation Transformers and Breakers	51
	E0503 - SCADA and Automatic Switching	52
	EEQSF - Equipment Replacement Program	53
	EEQSF (Supporting Documentation #1)	54
	EEQSF (Supporting Documentation #2)	55
Appendices		5€
	Appendix A: 7131 and 8131 - Information Technology Detail - Electric Department	

CITY OF NEWARK, DELAWARE ELECTRIC DEPARTMENT ORGANIZATIONAL CHART



CITY OF NEWARK, DELAWARE ELECTRIC DEPARTMENT 2022 DEPARTMENTAL NARRATIVE

The City of Newark operates its own electric utility to provide electric services to 13,000 meters, supporting commercial and residential customers within city limits. Power is purchased on the wholesale power market and delivered by the City. The electric department maintains 175 miles of electric lines and coordinates its services through several programs. They include:

Meter Relay and Electrical Maintenance Program:

Responsible for installing and maintaining electrical systems in city buildings, water wells, water, and wastewater pumping stations, traffic lights and control systems, meters, and other facilities.

Electrical Line Construction and Maintenance Program:

Responsible for maintaining the City's electric lines, substation sites, substation units, circuit breakers, and transformers.

In addition to maintaining the City's electrical distribution system, new power lines, substations, and underground electric utilities are constructed and installed to expand services to new customers. Additional departmental responsibilities include maintaining and installing street lights and traffic signals, trimming trees along the electric right-of-way, and providing distribution and sub-transmission switching and sectionalizing. The electric department's staff is also responsible for plans review, drawings, and engineering analysis for construction work.

CITY OF NEWARK, DELAWARE ELECTRIC DEPARTMENT 2021 DEPARTMENTAL ACCOMPLISHMENTS

Key accomplishments in 2021 include:

- The Electric Vehicle charging station infrastructure has been installed at the City Hall parking Lot and Parking Lot # 1 behind the Galleria. Two dual-port charging stations will be installed at the City Hall. The infrastructure at the City Hall can handle up to 5 dual-port stations (10 cars). One dual-port charging station will be installed at Lot # 1. The infrastructure at this location can handle up to four dual-port stations (8 cars). The project is in progress, and we are on track to complete this project by the end of 2021.
- An engineering firm completed a system analysis of electric distribution system to determine the current electric system strengths, weaknesses, and recommendations for future system planning.
- An additional underground high voltage cable will be installed at Christiansted to balance the load during emergency conditions when the existing high voltage cable fails. The project is in progress, and we are on track to complete it by the end of 2021.
- The new 35kV circuit breaker at the Fremont Road substation will be installed. The new circuit breaker will replace the 45-year-old 35kV oil circuit breaker. The project is in progress, and we are on track to complete it by the end of 2021.
- We have also completed the following development projects throughout the City:
 - o 321 Hillside Road The Rail Yard
 - 46 new meters were installed for the townhouses
 - 50 new meters were installed for the apartment buildings
 - o 1364 Marrows Road Martin Honda
 - o 287 East Main Street Fulton Bank
 - 3 new meters were installed for the commercial space
 - 30 new meters were installed for the apartments
 - o 401 Bellevue Road SAFStor
 - o US Armed Forces Reserve Center Ogletown Rd
 - Newark Senior Center on Barksdale Rd

CITY OF NEWARK, DELAWARE ELECTRIC DEPARTMENT 2022 DEPARTMENTAL GOALS

Goals for 2022 include:

- Replace 40 years old 35kV disconnect switches at Kershaw Substation.
- A new 12,470-volt circuit will be constructed from Old South Chapel Street to South College
 Avenue through the University of Delaware Farm. This project will increase the capacity and
 reliable backup capacity to the Star Campus, the University of Delaware South Campus, and City
 customers on South College Avenue. This project is based on approval from the University of
 Delaware.
- Implementation of Outage Management System (OMS). With this application, we will be able to
 efficiently track outages, reduce downtime, and proactively and safely guide field crews during
 restoration activities. The application comes with a customer outage portal. With this portal,
 customers will be able to access real-time status updates detailing the estimated time of
 restoration, scheduled outages, and other outage-related activities.
- Installation of electric distribution lines in new developments.
 - o College Square Shopping Center
 - o 62 North Chapel
 - o Green Mansion
 - o Fintech at STAR campus



ELECTRIC DEPARTMENT

2022 BUDGET DOCUMENTS

CITY OF NEWARK, DELAWARE 2022 OPERATING BUDGET ELECTRIC DEPARTMENT

EXECUTIVE SUMMARY

EXPENDITURE BUDGET	FY2021	FY2022	FY2021 Appr'd	% +/- over	
Object Level Detail:	Appr'd	Rec'd	vs. FY2022 Rec'd	FY2021 Appr'd	Comments
Full-time Wages	1,866,375	2,024,839	158,464	8.49%	*FY22 increase is a result of step increases and advancements, along with pesronnel changes
Other Wages	272,271	 277,899	5,628	2.07%	and an additional FTE (Distribution Engineer I) being added. *FY22 overall increase is largely a result of additions in the amounts of \$4,265 to line item 6580 (Service Award), \$1,944 to line item 6619 (Standby Pay), \$600 to line item 6800 (Uniform Allowance) and \$300 for line item 6885 (Device Reimbursements). These increases are partially offset due to a small reduction of -\$1,481 to line item 6590 (Sick Pay).
Benefits	1,306,619	 1,430,434	123,815	9.48%	*FY22 increase is largely due to increases of \$12,596 to line item 6930 (Social Security Taxes), \$25,187 to line item 6940 (City Pension), \$68,719 to line item 6960 (Group Hospitalization Insurance) and \$6,073 to line item 6965 (OPEB).
Personnel Services	\$ 3,445,265	\$ 3,733,172	287,907	8.36%	*Sum of above listed wages and benefits
Utility Purchases	\$ 31,804,486	\$ 32,122,531	318,045	1.00%	*Finance Calculation
Materials and Supplies	\$ 322,955	\$ 313,844	(9,111)	-2.82%	*FY22 overall decrease is largely due to a reduction of -\$47,450 to line item 7270 (Station Maintenance). This large reduction is partially offset by additions of \$3,500 to line item 7131 (Information Technology Supplies), \$1,500 to line item 7140 (Uniforms), \$5,000 to line item 7150 (Office Supplies) and \$26,844 to line item 7260 (Line Maintenance). See Appendix A for additional 7131 - IT Supplies detail.
Contractual Services	\$ 1,785,710	\$ 1,887,013	101,303	5.67%	*Impacting the FY22 increase are City-Wide changes related to our insurance coverage. Insurance lines increased by a total of \$24,377. Additionally, increases of \$17,372 to item 8131 (Information Technology Contractual), \$72,629 to item 8312 (Fleet and Facilities Services) and \$12,679 to line item 8420 (Tree Removal) were added in 2022. These additions were partially offset by a reduction of -\$27,000 to line item 8270 (Station Maintenance). See Appendix A for additional 8131 - IT Contractual detail.
Other - Depreciation	\$ 194,273	\$ 252,282	58,009	29.86%	*Finance Calculation
Other - Debt Service (Principal)	\$ 572,183	\$ 638,719	66,536	11.63%	*Finance Calculation
Other - Debt Service (Interest)	\$ 132,045	\$ 119,829	(12,216)	-9.25%	*Finance Calculation
Other Expenditures	\$ 456,782	\$ 364,153	(92,629)	-20.28%	*FY22 decrease is largely due to reductions of -\$5,000 to line item 9004 (Subvention - Newark Senior Center) and -\$87,889 to line item 9010 (Bad Debt Expense). Both of these items are Finance Calculations.
Subtotal:	\$ 38,713,699	\$ 39,431,543	\$ 717,844	1.85%	
Inter-Dept. Charges	\$ 682,705	\$ 1,082,556	399,851	58.57%	Reflects the cost share of City overhead which includes: Administrative Overhead, Billings and Accounting, Electricity, Information Technology, Other Indirect Charges, Printing and Reproduction, Street Lights and Traffic Signals and Warehousing.
Inter-Dept. Sales	\$ 413,100	\$ 561,651	148,551	35.96%	*Finance Calculation
Total Operating Expenses:	\$ 39,809,504	\$ 41,075,750	\$ 1,266,246	3.18%	

CITY OF NEWARK, DELAWARE 2022 OPERATING BUDGET ELECTRIC DEPARTMENT

EXECUTIVE SUMMARY (continued)

EXPENDITURE BUDGET (continued)				
	FY2021	FY2022	FY2021 Appr'd	% +/- over	
Object Level Detail:	Appr'd	Rec'd	vs. FY2022 Rec'd	FY2021 Appr'd	Comments
Full-time Positions	23	24	1		*For FY22, staffing increased by one FTE. Personnel changes include:
					+ 1 FTE - Distribution Engineer I (added in 2022)
					+ 1 FTE - Lineman 2nd Class from 2021 to 2022.
					+ 1 FTE - Junior Lineman from 2021 to 2022.
					-2 FTE - Electric Groundhands from 2021 to 2022.
					Please reference the Wage and Salary Budget Data for additional details.

CAPITAL IMPROVEMENT P	LAN (CIP)	
Project ID:	Project Description:	Comments
New projects:		
E2201	New Lines and Services	Perpetual Project. New Project sheet added in 2022-2026 Capital Improvement Program
E2202	Electric Warehouse	New Project added in 2022-2026 Capital Improvement Program
E2204	Vehicle #110 - 3-Wheel Wire Trailer Replacement	New Project added in 2022-2026 Capital Improvement Program
E2205	Fleet addition: #117 - Small Trencher	New Project added in 2022-2026 Capital Improvement Program
E2206	Secondary Cable Replacement/ Rejuvenate at Villa Belmont	New Project added in 2022-2026 Capital Improvement Program
Ongoing projects:		
E2002	New Substation	Project listed in 2022-2026 CIP - (Est. Completion Date: 2024)
E1911	35kV Line 3402 Capacity Upgrade	Project listed in 2022-2026 CIP - (Est. Completion Date: 2024)
E1912	35kV Disconnect Switches Replacement - Kershaw Substation	Project listed in 2022-2026 CIP - (Est. Completion Date: 2024)
E1805	Line Extension Across UD Farm	Project listed in 2022-2026 CIP - (Est. Completion Date: 2022)
E1806	Christianstead Underground Primary Cable Addition	Approved carryover funding from 2021. Project scheduled to be completed by EOY 2021
E1807	Relay Replacements - Kershaw Substation	Project listed in 2022-2026 CIP - (Est. Completion Date: 2023)
E1808	Voltage Upgrade - North College Avenue	Approved carryover funding from 2021. Project scheduled to be completed by EOY 2021
E1810	Lightning Arrestor Replacement	Project listed in 2022-2026 CIP - (Est. Completion Date: 2023)
E1602	Circuit Breaker Replacement	Approved carryover funding from prior to 2021. Project scheduled to be completed by EOY 2021
E1502	Underground Distribution - UD Star Campus	Project listed in 2022-2026 CIP - (Est. Completion Date: 2026)
E1203	CAD Software	Approved carryover funding from prior to 2021. Project scheduled to be completed by EOY 2021
E1105	Upgrade Substation Transformers and Breakers	Approved carryover funding from prior to 2021. Project scheduled to be completed by EOY 2021
E0503	SCADA and Automatic Switching	Project listed in 2022-2026 CIP - (Est. Completion Date: 2023)
EEQSF	Equipment Replacement Program	Perpetual Project



ELECTRIC DEPARTMENT

2022 OPERATING EXPENDITURES

CITY OF NEWARK, DELAWARE 2022 OPERATING BUDGET

Electric Fund - Electric Department

Summary:

ELECTRIC DEPARTMENT - SUMMARY	TMENT - SUMMARY 2017 2018 2019 ACTUAL ACTUAL ACTUAL ACTUAL		2020 ACTUAL	2021 BUDGET AS AMENDED	2022 BUDGET	\$ DIFFERENCE FROM 2021-22	% DIFFERENCE FROM 2021-22	
REVENUES								
Sale of Electricity	\$ 52,050,273	\$ 51,257,574	\$ 51,944,374	\$ 50,236,347	\$ 53,534,629	\$ 52,263,169	\$ (1,271,460)	-2.4%
No. of K.W.H.'s (Thousands)	413,594	425,591	424,291	402,097	432,208	437,178	N/A	N/A
Inter-Dept. Sales	555,400	508,100	506,900	545,700	413,100	561,651	148,551	36.0%
Penalties	96,723	91,298	125,605	106,420	98,800	100,000	1,200	1.2%
Service Fees	84,697	99,378	74,543	71,260	81,800	80,000	(1,800)	-2.2%
New Services	133,631	853,486	437,110	1,086,097	250,000	250,000	-	0.0%
Application Fees	102,210	100,230	128,070	100,260	102,000	110,000	8,000	7.8%
Solar Revenues	77,627	73,913	37,286	36,004	36,600	37,000	400	1.1%
Other Revenues	125,308	22,156	105,261	95,413	35,500	26,500	(9,000)	-25.4%
Interest Revenue	122,330	169,286	224,471	251,856	151,100	175,000	23,900	15.8%
Subtotal	\$ 53,348,199	\$ 53,175,421	\$ 53,583,620	\$ 52,529,357	\$ 54,703,529	\$ 53,603,320	\$ (1,100,209)	-2.0%
Less: Electricity Purchased	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
No. of K.W.H.'s (Thousands)	445,869	464,741	461,483	433,533	469,378	469,378	N/A	N/A
Gross Operating Revenue	\$ 53,348,199	\$ 53,175,421	\$ 53,583,620	\$ 52,529,357	\$ 54,703,529	\$ 53,603,320	\$ (1,100,209)	-2.0%
OPERATING EXPENSES								
Personnel Services	\$ 2,977,781	\$ 3,324,613	\$ 3,462,234	\$ 4,295,203	\$ 3,445,265	\$ 3,733,172	\$ 287,907	8.4%
Utility Purchases	33,699,575	33,547,114	31,549,199	29,267,161	31,804,486	32,122,531	318,045	1.0%
Materials and Supplies	238,318	215,348	286,865	216,996	322,955	313,844	(9,111)	-2.8%
Contractual Services	1,330,729	1,862,752	1,434,585	1,540,160	1,785,710	1,887,013	101,303	5.7%
Other Charges	1,097,567	1,046,899	1,269,135	1,179,223	1,355,283	1,374,983	19,700	1.5%
Subtotal	\$ 39,343,970	\$ 39,996,726	\$ 38,002,018	\$ 36,498,743	\$ 38,713,699	\$ 39,431,543	\$ 717,844	1.9%
Inter-Departmental Charges (net of Inter-Departmental Sales)	1,010,354	1,173,798	1,494,948	1,015,954	1,095,805	1,644,207	548,402	50.0%
Total Operating Expenses	\$ 40,354,324	\$ 41,170,524	\$ 39,496,966	\$ 37,514,697	\$ 39,809,504	\$ 41,075,750	\$ 1,266,246	3.2%
Net Operating Margin (Before Capital Costs)	\$ 12,993,875	\$ 12,004,897	\$ 14,086,654	\$ 15,014,660	\$ 14,894,025	\$ 12,527,570	\$ (2,366,455)	-15.9%

CITY OF NEWARK, DELAWARE 2022 OPERATING BUDGET

Electric Fund - Electric Department

PERSONNEL SER	VICES		2017 ACTUAL		2018 ACTUAL		2019 ACTUAL		2020 ACTUAL	21 BUDGET S AMENDED	2022 BUDGET
5195102	6020	Supervisory	\$ 308,336	\$	211,475	\$	219,566	\$	241,068	\$ 243,449	\$ 258,517
5195102	6030	Engineering/Technical	285,154	·	297,420	·	301,424	·	370,091	335,552	412,165
5195102	6040	Warehousing	56,197		58,056		61,617		68,979	69,613	70,915
5195102	6080	Clerical	61,977		65,066		65,245		71,471	71,381	72,489
5195102	6200	Line Maintenance	789,806		983,398		912,378		1,075,543	1,146,380	1,210,753
5195102	6580	Service Award	40,470		37,752		39,484		42,081	45,132	49,397
5195102	6590	Sick Pay	22,798		21,386		21,183		28,599	27,372	25,891
5195102	6619	Standby Pay	29,658		35,357		38,867		42,556	38,867	40,811
5195102	6620	Overtime	143,861		141,999		237,848		303,089	145,000	145,000
5195102	6622	Holiday Premium	1,283		699		2,837		727	-	-
5195102	6880	Uniform Allowance	9,450		10,600		10,600		10,400	10,200	10,800
5195102	6885	Device Reimbursement	-		5,725		5,900		5,775	5,700	6,000
5195102	6920	Unemployment Comp. Ins.	7,962		6,890		7,118		7,264	6,748	7,128
5195102	6930	Social Security Taxes	142,315		145,958		156,768		168,403	157,819	170,415
5195102	6940	City Pension Plan	437,000		695,008		777,382		1,284,990	450,003	475,190
5195102	6941	Defined Contribution 401(a) Plan	21,093		22,360		26,077		28,180	30,224	38,976
5195102	6950	Term Life Insurance	7,485		7,378		8,920		8,922	9,193	8,464
5195102	6960	Group Hospitalization Ins.	405,814		408,707		445,550		448,894	489,427	558,146
5195102	6961	Long-Term Disability Ins.	2,991		2,997		3,882		3,987	4,164	2,555
5195102	6962	Dental Insurance	25,855		23,930		24,417		23,438	25,315	27,522
5195102	6963	Flexible Spending Account	184		173		189		110	-	63
5195102	6965	Post-Employment Benefits	165,539		132,090		84,405		49,643	120,717	126,790
5195102	6966	Retirement Health Savings Account	6,326		6,350		7,304		7,760	8,366	10,248
5195102	6967	Emergency Room Reimbursements	4,988		2,612		2,000		2,000	3,307	3,480
5195102	6968	Vision Insurance Premiums	1,239		1,227		1,273		1,233	1,336	1,457
TOTAL PERSONNI	EL SERVI	CES	\$ 2,977,781	\$	3,324,613	\$	3,462,234	\$	4,295,203	\$ 3,445,265	\$ 3,733,172

\$ [DIFFERENCE	% DIFFERENCE
FRC	OM 2021-22	FROM 2021-22
,	45.000	C 200
\$	15,068	6.2%
	76,613	22.8%
	1,302	1.9%
	1,108	1.6%
	64,373	5.6%
	4,265	9.5%
	(1,481)	-5.4%
	1,944	5.0%
	-	0.0%
	-	0.0%
	600	5.9%
	300	5.3%
	380	5.6%
	12,596	8.0%
	25,187	5.6%
	8,752	29.0%
	(729)	-7.9%
	68,719	14.0%
	(1,609)	-38.6%
	2,207	8.7%
	63	100.0%
	6,073	5.0%
	1,882	22.5%
	173	5.2%
	121	9.1%
\$	287,907	8.4%

Page Number 15

ELECTRIC DEPARTMENT WAGE AND SALARY BUDGET - 2021

TITLE	UNION AFFILIATION	GRADE	2021 # OF		2021	2022 # OF		2022	POSITION		\$	%
			POSITIONS	A	AS AMENDED	POSITIONS	A	S PROPOSED	DIFFERENCE		DIFFERENCE	CHANGE
FULL TIME POSITIONS												
Director Of Electric	MGMT	34	1.0	\$	123,121	1.0	\$	130,730	0.0	\$	7,609	6.2%
Deputy Director Of Electric	MGMT	31	1.0	\$	120,328	1.0	\$	127,787	0.0	\$	7,459	6.2%
Electric Superintendent	MGMT	26	1.0	\$	102,795	1.0	\$	106,697	0.0	\$	3,902	3.8%
Distribution Engineer I	CWA F/T	22		\$	· -	1.0	\$	70,435	1.0	\$	70,435	100.0%
Engineering Technician	CWA F/T	14	1.0	\$	73,453	1.0	\$	74,608	0.0	\$	1,155	1.6%
Purchasing Assistant	CWA F/T	13	1.0	\$	71,381	1.0	\$	72,489	0.0	\$	1,108	1.6%
Senior Lineman	AFSCME LOCAL 3919 F/T	19	2.0	\$	182,972	2.0	\$	187,364	0.0	\$	4,392	2.4%
Electric Meter Technician	AFSCME LOCAL 3919 F/T	17	1.0	\$	88,270	1.0	\$	89,656	0.0	\$	1,386	1.6%
Electrician 1st Class	AFSCME LOCAL 3919 F/T	17	3.0	\$	260,091	3.0	\$	265,779	0.0	\$	5,688	2.2%
Lineman 1st Class	AFSCME LOCAL 3919 F/T	17	5.0	\$	437,833	5.0	\$	448,684	0.0	\$	10,851	2.5%
Lineman 2nd Class	AFSCME LOCAL 3919 F/T	14	1.0	\$	74,673	2.0	\$	148,885	1.0	\$	74,212	99.4%
Junior Lineman	AFSCME LOCAL 3919 F/T	10	2.0	\$	123,423	3.0	\$	182,181	1.0	\$	58,758	47.6%
Storekeeper	AFSCME LOCAL 3919 F/T	10	1.0	\$	69,613	1.0	\$	70,915	0.0	\$	1,302	1.9%
Electric Groundhand	AFSCME LOCAL 3919 F/T	5	3.0	\$	138,422	1.0	\$	48,629	(2.0)	\$	(89,793)	-64.9%
Total Full Time Positions	•		23.0	\$	1,866,375	24.0	\$	2,024,839	1.0	\$	158,464	8.5%
										-		
<u>OTHER</u>												
Service Award				\$	45,132		\$	49,397		\$	4,265	9.5%
Sick Pay				\$	27,372		\$	25,891		\$	(1,481)	-5.4%
Standby Pay				\$	38,867		\$	40,811		\$	1,944	5.0%
Overtime				\$	145,000		\$	145,000		\$	-	0.0%
Uniform Allowance				\$	10,200		\$	10,800		\$	600	5.9%
Device Reimbursements				\$	5,700		\$	6,000		\$	300	5.3%
Total Other				\$	272,271		\$	277,899		\$	5,628	2.1%
Total All			23.0	\$	2,138,646	24.0	\$	2,302,738	1.0	\$	164,092	7.7%

Page Number 16

CITY OF NEWARK, DELAWARE 2022 OPERATING BUDGET

Electric Fund - Electric Department

MATERIALS AN	D SUPPL	IES		2017 ACTUAL		2018 ACTUAL		2019 ACTUAL		2020 ACTUAL		1 BUDGET AMENDED	ı	2022 BUDGET
5195103	7110	Safety Shoes and Supplies	\$	5,520	\$	6,571	\$	7,425	\$	2,392	\$	7,425	\$	7,500
5195103	7130	Tools, Field Sup., & Small Eq.		37,819		34,672		33,224		35,011		40,000		40,000
5195103	7131	Information Technology Supplies		-		3,227		18,586		-		5,000		8,500
5195103	7140	Uniforms		20,840		20,639		18,750		16,275		20,800		22,300
5195103	7150	Office Supplies		1,257		2,949		3,496		1,744		3,500		8,500
5195103	7160	Books, Periodicals, Etc		1,451		462		166		791		780		800
5195103	7260	Line Maintenance		120,782		98,889		136,844		127,645		110,000		136,844
5195103	7270	Station Maintenance		39,621		26,829		30,449		17,529		78,450		31,000
5195103	7300	Machinery & Equip. Maintenance		-		-		18		-		500		500
5195103	7330	Meter Testing & Repairs		225		150		21		-		2,000		2,000
5195103	7350	Traffic Signal Maintenance		495		-		-		-		-		-
5195103	7370	Street Light Maintenance		8,688		4,200		8,041		10,986		13,000		13,000
5195103	7430	House Service Maintenance		20,719		19,461		29,423		19,228		41,000		41,000
5195103	7480	Communication Equip. Maint.		557		-		5,418		-		500		500
5195103	7540	Inventory Adjustment		(20,648)		(7,970)		(7,756)		(16,003)		-		-
5195103	7550	Miscellaneous Supplies		992		5,269		2,760		1,398		-		1,400
TOTAL MATERIA	SANDS	LIDDITES	¢	238,318	ć	215,348	ć	286,865	ċ	216,996	Ś	322,955	Ś	313,844
TOTAL WATERIA	LO AIND O	OFFLIES	,	230,310	Ą	213,340	Ą	200,003	Ą	210,990	Ą	344,333	Ą	313,044

\$ 0	DIFFERENCE	% DIFFERENCE			
FRO	M 2021-22	FROM 2021-22			
\$	75	1.0%			
	-	0.0%			
	3,500	70.0%			
	1,500	7.2%			
	5,000	142.9%			
	20	2.6%			
	26,844	24.4			
	(47,450)	-60.5%			
	-	0.0%			
	-	0.0%			
	-	0.0%			
	-	0.0%			
	-	0.0%			
	-	0.0%			
	-	0.0%			
	1,400	100.0%			
\$	(9,111)	-2.8%			

CITY OF NEWARK, DELAWARE 2022 OPERATING BUDGET

Electric Fund - Electric Department

CONTRACTUAL	SERVICE	ES .	2017 ACTUAL	2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	21 BUDGET S AMENDED	2022 BUDGET
5195104	8010	Freight	\$ 115	\$ 848	\$ 722	\$ 1,650	\$ 950	\$ 950
5195104	8020	Advertising	749	641	1,745	384	800	800
5195104	8030	Casualty Insurance	19,923	18,083	18,613	19,926	24,100	36,994
5195104	8031	Insurance - Property	27,864	44,008	40,028	47,622	64,952	73,305
5195104	8032	Insurance - Auto	12,740	24,682	23,740	26,171	25,796	29,236
5195104	8033	Insurance - Broker	6,660	8,072	8,054	8,131	5,356	5,746
5195104	8035	Insurance - Worker's Compensation	-	-	66,080	87,195	93,500	92,800
5195104	8040	Merchant Fees and Discounts	529,143	531,696	520,238	564,920	590,000	590,000
5195104	8045	Collection Fees	-	-	-	7,118	-	3,500
5195104	8050	Phone/Communications	10,203	4,434	4,605	3,364	2,950	9,200
5195104	8120	Outside Engineering (1)	40,428	62,430	35,660	22,856	90,000	85,000
5195104	8130	Building & Equipment Rental	10,264	10,888	11,104	11,058	14,000	12,000
5195104	8131	Information Technology Cont'l	168,469	143,454	156,254	228,244	224,555	241,927
5195104	8190	Refuse Disposal	4,063	3,197	3,663	2,598	3,425	3,425
5195104	8260	Line Maintenance	62,826	38,282	62,893	60,431	53,200	60,450
5195104	8270	Station Maintenance	44,479	40,446	25,959	20,092	75,000	48,000
5195104	8300	Machinery & Equip. Maintenance	5,927	4,992	4,392	5,707	8,120	8,100
5195104	8311	Vehicle Accidents	-	(1,450)	-	-	-	
5195104	8312	Fleet & Facilities Services	167,153	716,786	239,348	204,929	236,297	308,926
5195104	8313	Self-Insurance Services	-	75	1,876	500	-	
5195104	8420	Tree Removal	214,520	206,555	202,639	214,905	253,575	266,254
5195104	8480	Communication Equip. Maint.	-	1,115	1,291	150	1,200	1,200
5195104	8550	Misc. Contracted Services	4,203	2,402	4,425	45	5,000	5,000
5195104	8570	Public Relations	-	116	256	1,164	10,000	1,200
5195104	8899	Facilities Mowing	1,000	1,000	1,000	1,000	2,934	3,000
TOTAL CONTRAC	TUAL SEI	RVICES	\$ 1,330,729	\$ 1,862,752	\$ 1,434,585	\$ 1,540,160	\$ 1,785,710	\$ 1,887,013

(700) -0. - 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7. - 0. 7,250 13. (27,000) -36. (20) -0. - 0. 72,629 30. - 0. 12,679 5. - 0. (8,800) -88. 66 2.	.9% .6% .3% .0% .0% .0% .0% .0% .0%
(700) -0. - 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7. - 0. 7,250 13. (27,000) -36. (20) -0. - 0. 72,629 30. - 0. 12,679 5. - 0. (8,800) -88.	.5% .9% .3% .7% .0% .0% .6% .3% .7% .0% .6% .0% .0% .0% .0%
(700) -0 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7 0. 7,250 13. (27,000) -36. (20) -0 0. 72,629 30 0. 12,679 5 0.	.5% .9% .3% .7% .0% .9% .6% .3% .7% .0% .2% .0% .0% .0%
(700) -0. - 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7. - 0. 7,250 13. (27,000) -36. (20) -0. - 0. 72,629 30. - 0. 12,679 5. - 0.	.5% .9% .3% .7% .0% .9% .6% .3% .0% .2% .0% .0% .0%
(700) -0. - 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7. - 0. 7,250 13. (27,000) -36. (20) -0. - 0. 72,629 30. - 0. 12,679 5.	.5% .9% .3% .0% .0% .9% .6% .7% .0% .2% .0% .7% .0%
(700) -0. - 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7. - 0. 7,250 13. (27,000) -36. (20) -0. - 0. 72,629 30. - 0.	.5% .9% .3% .0% .0% .9% .6% .3% .0% .2% .0% .2%
(700) -0. - 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7. - 0. 7,250 13. (27,000) -36. (20) -0. - 0. 72,629 30.	.5% .9% .3% .7% .0% .9% .6% .3% .0% .6% .0% .2%
(700) -0. - 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7. - 0. 7,250 13. (27,000) -36. (20) -0. - 0.	.5% .9% .3% .7% .0% .9% .6% .3% .6% .0% .2%
(700) -0 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7 0. 7,250 13. (27,000) -36.	.5% .9% .3% .7% .0% .9% .6% .3% .7% .6% .0%
(700) -0 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7 0. 7,250 13. (27,000) -36.	.5% .9% .3% .7% .0% .0% .6% .7% .0%
(700) -0 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7 0. 7,250 13.	.5% .9% .3% .3% .0% .0% .9% .6% .7% .0%
(700) -0 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7.	.5% .9% .3% .7% .0% .0% .6% .3% .7%
(700) -0 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14. 17,372 7.	.5% .9% .3% .7% .0% .9% .6% .3%
(700) -0 0. 3,500 100. 6,250 211. (5,000) -5. (2,000) -14.	.5% .9% .3% .7% .0% .0% .9% .6%
(700) -0 0. 3,500 100. 6,250 211. (5,000) -5.	.5% .9% .3% .7% .0% .0% .9%
(700) -0 0. 3,500 100. 6,250 211.	.5% .9% .3% .3% .7% .0% .0%
(700) -0. - 0. 3,500 100.	.5% .9% .3% .3% .7% .0%
(700) -0. - 0.	.5% .9% .3% .3% .7%
(700) -0.	.5% .9% .3% .3%
	.5% .9% .3%
	.5% .9% .3%
3,440 13.	.5% .9%
-7	.5%
,	.0%
- 0.	
\$ - 0.	.0%
FROM 2021-22 FROM 2021	-22
\$ DIFFERENCE % DIFFEREN	NCE

⁽¹⁾ Includes additional funding for 2017 rate study.

CITY OF NEWARK, DELAWARE 2022 OPERATING BUDGET

Electric Fund - Electric Department

OTHER CHARGES			2017 ACTUAL		2018 ACTUAL	2019 ACTUAL		2020 ACTUAL		21 BUDGET AMENDED	2022 BUDGET
5195105 9001	Subvention - Utility Assistance	\$	-	\$	-	\$ 24,720	\$	25,000	\$	25,000	\$ 25,000
5195105 9002	Subvention - Aetna Hook and Ladder		-		-	43,464		49,422		48,400	48,400
5195105 9004	Subvention - Newark Senior Center		-		-	52,832		44,289		60,000	55,000
5195105 9010	Bad Debt Expense		190,119		129,369	277,917		218,438		188,909	101,020
5195105 9020	Mileage & Small Bus. Expense		87		2	127		-		140	150
5195105 9056	Debt Service Principal - Smart Meters		526,828		537,805	549,024		560,477		572,183	498,397
5195105 9057	Debt Service Interest - Smart Meters		93,307		82,305	71,075		59,611		48,486	36,545
5195105 9060	Depreciation Expense		189,580		201,740	206,585		190,135		194,273	252,282
5195105 9070	Training & Continuing Educ/Conf		11,228		9,891	10,833		8,681		10,833	10,833
5195105 9091	Solar Rebate		1,516		1,754	1,442		1,707		1,500	1,750
5195105 9092	Notional Solar Cost		23,724		22,552	21,723		20,778		22,000	22,000
5195105 9093	Subvention Expense		60,134		60,321	5,140		685		-	-
5195105 9094	Conservation Advisory Committee		1,044		1,160	4,253		-		100,000	100,000
5195105 9205	Debt Service - Principal (ESCO)		-		-	-		-		-	140,322
5195105 9206	Debt Service - Interest (ESCO)		-		-	-		-		83,559	83,284
		_		_			_		_		
TOTAL OTHER CHARGES		\$	1,097,567	\$	1,046,899	\$ 1,269,135	Ş	1,179,223	\$	1,355,283	\$ 1,374,983

\$ [DIFFERENCE	% DIFFERENCE
FRC	OM 2021-22	FROM 2021-22
\$	-	0.0%
	-	0.0%
	(5,000)	-8.3%
	(87,889)	-46.5%
	10	7.1%
	(73,786)	-12.9%
	(11,941)	-24.6%
	58,009	29.9%
	-	0.0%
	250	16.7%
	-	0.0%
	-	0.0%
	-	0.0%
	140,322	100.0%
	(275)	-0.3%
	<u> </u>	-
\$	19,700	1.5%
		-

INTER-DEPT. CHARGES		2017 ACTUAL	2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	2021 BUDGET AS AMENDED			2022 BUDGET
Administrative Overhead	\$	672,271	\$ 700,685	\$ 1,151,962	\$ 739,789	\$	738,520	\$	1,232,898
Billings and Accounting		308,049	492,026	391,988	348,530		423,746		437,130
Electricity		(397,166)	(387,895)	(363,400)	(377,385)		(364,285)		(381,155)
Information Technology		83,848	86,381	58,119	67,051		105,561		97,133
Other Indirect Charges		(40,022)	(65,069)	(55,541)	(92,785)		(21,650)		(92,785)
Printing and Reproduction		135	125	116	76		130		130
Street Lights and Traffic Signals		(143,745)	(169,331)	(166,221)	(177,083)		(171,965)		(180,496)
Warehousing		(28,416)	(38,464)	(28,975)	(37,939)		(27,352)		(30,299)
TOTAL INTER-DEPT. CHARGES		454,954	\$ 618,458	\$ 988,048	\$ 470,254	\$	682,705	\$	1,082,556

\$	DIFFERENCE	% DIFFERENCE
FR	OM 2021-22	FROM 2021-22
\$	494,378	66.9%
	13,384	3.2%
	(16,870)	4.6%
	(8,428)	-8.0%
	(71,135)	328.6%
	-	0.0%
	(8,531)	5.0%
	(2,947)	10.8%
\$	399,851	58.6%

OPERATING EXPENSES - ELECTRIC DEPARTMENT	2017 ACTUAL	2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	 21 BUDGET S AMENDED	2022 BUDGET
TOTAL OPERATING EXPENSES	\$ 6,099,349	\$ 7,068,070	\$ 7,440,867	\$ 7,701,836	\$ 7,591,918	\$ 8,391,568

\$ 799,650	10.5%
FROM 2021-22	FROM 2021-22
\$ DIFFERENCE	% DIFFERENCE

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ELECTRIC DEPARTMENT

2022-2026 CAPITAL IMPROVEMENT PROGRAM

CITY OF NEWARK, DELAWARE CAPITAL IMPROVEMENTS PROGRAM 2022-2026

(with current year amended budget)

ELECTRIC FUND - ELECTRIC DEPARTMENT

FUNDING SUMMARY

Total 5 Year

4,320,683

24,645,033

New Funding: *Prior Authorized Balance: 2022-2026 Funding:

			-	_		
2022		2023		2024	2025	2026
1,531,350	\$	1,588,000	\$	16,225,000	\$ 715,000	\$ 265
1,220,683	\$	2,000,000	\$	1,100,000	\$ -	\$
2,752,033	\$	3,588,000	\$	17,325,000	\$ 715,000	\$ 265
rior Authorized Ba	lance i	ncludes 2021 ca	rrvove	er funding only		

	PROJECT NUMBER	PROJECT NAME	*	2021 BUDGET AS AMENDED	_	202 ES AND UNDING	CU	 RRENT NDING		2022		2023		2024		2025		2026		TOTAL
	2201	New Lines and Services	D	\$ 135,000	\$	-	\$	140,000	\$	140,000	\$	145,000	\$	145,000	\$	145,000	\$	145,000	\$	720,000
	2202	Electric Warehouse	D	-		-		-		-		80,000		800,000		-		-		880,000
	2204	Vehicle #110 - 3-Wheel Wire Trailer Replacement	D	-		-		130,000		130,000		-		-		-		-		130,000
	2205	Fleet addition: #117 - Small Trencher	D	-		-		50,000		50,000		-		-		-		-		50,000
	2206	Secondary Cable Replacement/ Rejuvenate at Villa Belmont	D	-		-		125,000		125,000		-		-		-		-		125,000
D	2002	New Substation	В	200,000		440,000		-		440,000		2,000,000		15,700,000		-		-		18,140,000
מ	1911	35kV Line 3402 Capacity Upgrade	D	-		-		-		-		300,000		300,000		-		-		600,000
D	1912	35kV Disconnect Switches Replacement - Kershaw Substation	D	-		-		160,000		160,000		160,000		160,000		-		-		480,000
É	1805	Line Extension Across UD Farm	D	-		320,000		50,000		370,000		-		-		-		-		370,000
3	1806	Christianstead Underground Primary Cable Addition	D	60,000		-		-		-		-		-		-		-		-
5	1807	Relay Replacements - Kershaw Substation	D	50,000		-		50,000		50,000		50,000		-		-		-		100,000
<u>-</u>	1808	Voltage Upgrade - North College Avenue	D	75,000		-		-		-		-		-		-		-		-
د	1810	Lightning Arrestor Replacement	D	-		-		-		-		235,000		-		-		-		235,000
	1602	Circuit Breaker Replacement	D	-		-		-		-		-		-		-		-		-
	1502	Underground Distribution - UD Star Campus	D	120,000		120,000		-		120,000		120,000		120,000		120,000		120,000		600,000
	1203	CAD Software	D	-		-		-		-		-		-		-		-		-
	1105	Upgrade Substation Transformers and Breakers	D	-		-		-		-		-		-		-		-		-
	E0503	SCADA and Automatic Switching	D	-		460,683		-		460,683		225,000		-		-		-		685,683
	EQSF	Equipment Replacement Program	D	30,000		377,529		328,821	_	706,350		273,000		100,000		450,000		-		1,529,350
	Total Elec	ctric Fund - Electric Department		\$ 670,000	\$ 1,	718,212	\$:	1,033,821	\$	2,752,033	\$	3,588,000	\$	17,325,000	\$	715,000	\$	265,000	\$	24,645,033
	PLANNED I	FINANCING SOURCES																		
		GROSS CAPITAL IMPROVEMENTS		\$ 670,000	\$ 1,	718,212	\$	1,033,821	\$	2,752,033	\$	3,588,000	\$	17,325,000	\$	715,000	\$	265,000	\$	24,645,033
		LESS: USE OF RESERVES		-	(1,	220,683)		-		(1,220,683)		(2,000,000)		(1,100,000)		-		-		(4,320,683)
		VEHICLE & EQUIPMENT REPLACEMENT		(11,281)	(377,529)		-		(377,529)		(194,312)		(56,576)		(372,620)		-		(1,001,037)
		GRANTS		-		-		-		-		-		-		-		-		-
		BOND ISSUES		-		-		-		-		-		-		-		-		-
		AMERICAN RESCUE PLAN ACT		-		-		-		-		-		-		-		-		-
		OTHER FINANCING SOURCES		(120,000)	(120,000)			_	(120,000)		(120,000)		(14,720,000)		(120,000)		(120,000)		(15,200,000)
		NET CAPITAL IMPROVEMENTS		\$ 538,719	ė	_	,	1,033,821	ć	1,033,821	ċ	1,273,688	ċ	1,448,424	ċ	222,380	ċ	145,000	¢	4,123,313

^{*} Justification Codes:

A - Return on Investment

B - Public Safety

C - Community Health

D - Efficiency/Other

*Prior Authorized Balance includes 2021 carryover funding only.

NEWARK

PROJECT NO: E2201

PROJECT TITLE: New Lines and Services

FUNDING SUMMARY:	2022	2023	2024	2025	2026	T	otal 5 Year
New Funding:	\$ 140,000	\$ 145,000	\$ 145,000	\$ 145,000	\$ 145,000	\$	720,000
*Prior Authorized Balance:	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
2022-2026 Funding:	\$ 140,000	\$ 145,000	\$ 145,000	\$ 145,000	\$ 145,000	\$	720,000

PROJECT STATUS: Reoccurring (with no end date)

CAPITAL BUDGET - PROJECT DETAIL									
DEPARTMENT:	Electric								
DIVISION: Electric									
FUND: Electric									
PROJECT LOCATION:	Various locations in the City								
PROJECT PRIORITY:	1 - Highest Priority Level								
Project underway and must be completed									
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:									
Sustainable Community									

§ 806.1(3) SUMMARY OF PROJECT DATA							
First Year in Program:		Perpetual					
Est. Completion Date:		Perpetual					
Est. Useful Life (in years):		30 Yrs.					
Est. Total Cost:	\$	855,000					
Est. Spend @ 12/31/2021 (if underway):	\$	135,000					
% Complete (if underway):		15.8%					
Balance to be funded¹:	\$	720,000					

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

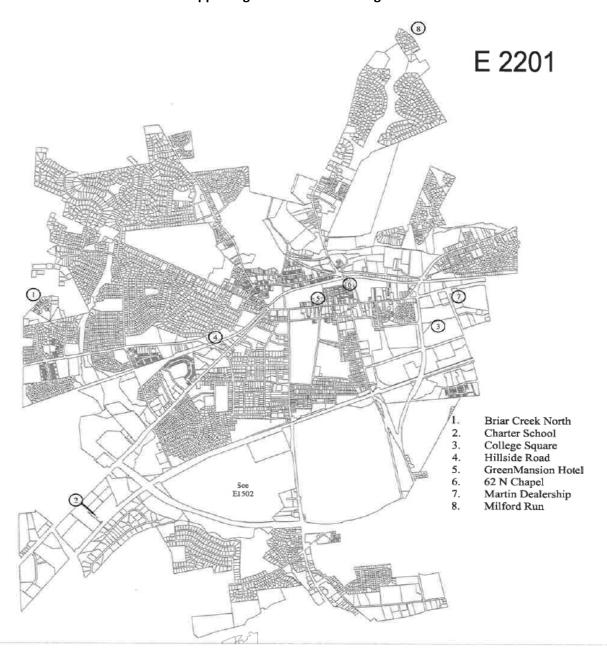
PROJECT COST BY CATEGORY							
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT				
Labor:	5195106.9860	\$	388,800				
Materials:	5195106.9760	\$	331,200				
Other Contracts:		\$	-				
TOTAL PRO	\$	720,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:
Installation of electric distribution lines in new developments. This includes both overhead and underground primary and secondary service lines. This project is required based on the obligation to serve new customers in the City.

	N YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Expenditures	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	135,000	-	135,000	\$ -	140,000	145,000	145,000	145,000	145,000	\$ 720,000
CAPITAL RESERVES	-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	-	-	\$ -	-	-	1	-	-	\$ -
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	1	-	-	\$ -
BOND ISSUES	-	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	-	-	-	-	\$ -
OTHER (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:	\$ 135,000	\$ -	\$ 135,000	\$ -	\$ 140,000	\$ 145,000	\$ 145,000	\$ 145,000	\$ 145,000	\$ 720,000
§ 806.1(4) ESTIMATED ANNUAL COST O	§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:				2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	OPERATING / MAINTAINING PROJECT OR ASSET INCREMENTAL COSTS (NET SAVINGS)				-	-	-	-	-	\$ -

E2201: New Lines and Services Supporting Documentation - Page 1



PROJECT NO: PROJECT TITLE

E2202

PROJECT TITLE: Electric Warehouse

PROJECT STATUS: New Project

FUNDING	SUMMA

New Funding:

*Prior Authorized Balance:

2022-2026 Funding:

\$

*Prior Authorized Balance includes 2021 carryover funding only.
2022 2023 2024 20

 2024
 2025
 2026
 Total 5 Year

 800,000
 \$
 \$
 \$
 880,000

 \$
 \$
 \$
 \$

 800,000
 \$
 \$
 \$
 880,000

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

\$

80,000

80,000 \$

The existing Building #2 is running out of space. The lack of storage space is leading to an unorganized, overcrowded situation. Due to the limited space inside the building, we have to keep the expensive pad mounted switches, transformers and wires outside. Keeping these expensive equipment outside in extreme weather conditions can cause damage to the equipment. This CIP project will allow us to expand the existing warehouse. This will be a two phase project.

Phase 1: Design Services for Construction of Building #2 Expansion (2023) - Estimate \$80,000

Phase 2: Construction of Building #2 Expansion on (2024) - \$800,000

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Electric				
DIVISION:	Electric				
FUND:	Electric				
PROJECT LOCATION:	Field Operations Complex				
PROJECT PRIORITY:	3 - Medium-High				
The City would be taking	g a calculated risk in the deferral of this item				
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
Not Applicable					

§ 806.1(3) SUMMARY OF PROJECT DATA						
First Year in Program:	2022					
Est. Completion Date:	2024					
Est. Useful Life (in years):	20					
Est. Total Cost:	\$ 880,000					
Est. Spend @ 12/31/2021 (if underway) ¹ :	\$ -					
% Complete (if underway):	0.0%					
Balance to be funded¹:	\$ 880,000					

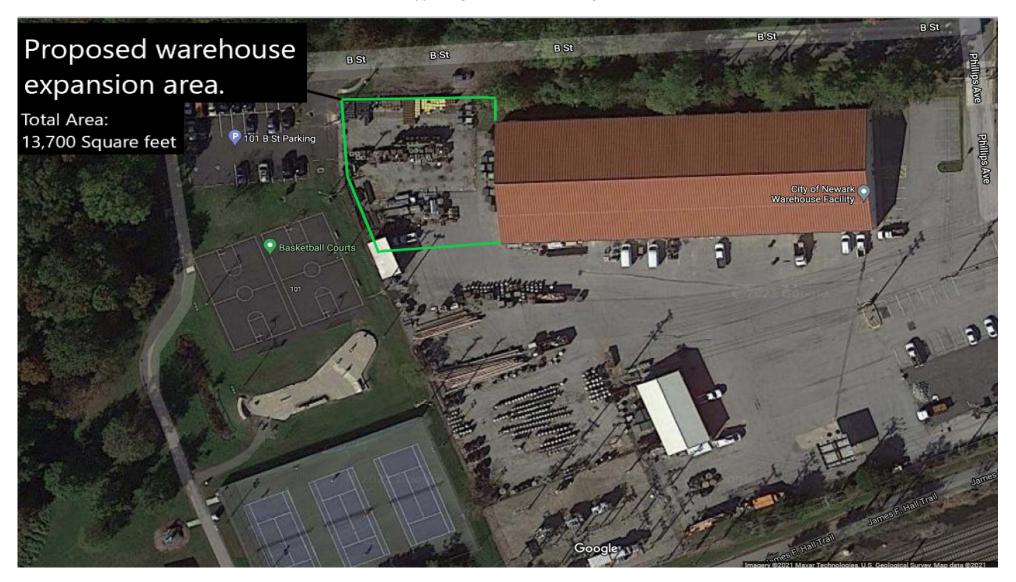
¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY						
CLASSIFICATION		AMOUNT				
Labor:		\$	-			
Materials:		\$	-			
Other Contracts:	5195106.9960	\$	880,000			
TOTAL PRO	\$	880,000				

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	-	1	-	\$ -	-	80,000	800,000	1	-	\$ 880,000
CAPITAL RESERVES	-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES	-	1	-	\$ -	-	-	-	1	-	\$ -
STATE REVOLVING LOAN	-	1	-	\$ -	-	-	-	1	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	-	-	-	-	\$ -
OTHER (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,000	\$ 800,000	\$ -	\$ -	\$ 880,000
§ 806.1(4) ESTIMATED ANNUAL COST OF			OPERATING IMPACT:		2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SET	INCREMENT	AL COSTS (NET S	AVINGS)	-	-	-	-	-	\$ -

E2202: Electric Warehouse Supporting Documentation - Page 1



PROJECT NO: E2204

PROJECT TITLE: Vehicle #110 - 3-Wheel Wire Trailer

Replacement

PROJECT STATUS: New Project

*Prior Authorized Balance includes 2021 carryover funding only. **FUNDING SUMMARY:** 2022 2023

New Funding *Prior Authorized Balance 2022-2026 Funding

	2022	2023	3	2024	1	2025	20	26	To	tal 5 Year
g:	\$ 130,000	\$	-	\$	-	\$ -	\$	1	\$	130,000
e:	\$	\$	-	\$	-	\$ -	\$	1	\$	-
g:	\$ 130,000	\$	-	\$	-	\$ -	\$	-	\$	130,000

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**

The City's Electric Department has a 1984 wire trailer. The trailer was built in-house and is used to carry wire/cable reels during the wire/cable installation. This Trailer has reached the end of its life cycle. The steel frame is rusted and broken, and It has become a safety issue.

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Electric				
DIVISION:	Electric				
FUND:	Electric				
PROJECT LOCATION:	Various				
PROJECT PRIORITY:	2 - High Priority Level				
Critical need to remediate failing service, prevent failure, or generate savings					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:					
Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT DATA							
First Year in Program:		2022					
Est. Completion Date:		2022					
Est. Useful Life (in years):		30					
Est. Total Cost:	\$	130,000					
Est. Spend @ 12/31/2021 (if underway):	\$	-					
% Complete (if underway):		0.0%					
Balance to be funded¹:	\$	130,000					

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION		AMOUNT					
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	5195106.9960	\$	130,000				
TOTAL PRO	\$	130,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

	PROJECT FINANCING BY PLAN YE				IN YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	\$ -	130,000	-	-	1	-	\$ 130,000
CAPITAL RESERVES	-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES	-	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	-	1	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	-	-	1	-	\$ -
OTHER (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ 130,000	\$ -	\$ -	\$ -	\$ -	\$ 130,000
§ 806.1(4) ESTIMATED ANNUAL	COST OF	OPE	RATING IMPACT	:	2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJE	CT OR ASSET	INCREMENT	AL COSTS (NET S	AVINGS)	-	-	-	-	-	\$ -

E2204: Vehicle #110 - 3-Wheel Wire Trailer Replacement Supporting Documentation - Page 1 of 3



E2204: Vehicle #110 - 3-Wheel Wire Trailer Replacement Supporting Documentation - Page 2 of 3



E2204: Vehicle #110 - 3-Wheel Wire Trailer Replacement Supporting Documentation - Page 3 of 3



*Prior Authorized Balance includes 2021 carryover funding only. PROJECT NO: E2205 FUNDING SUMMARY: 2022 2023 2024

PROJECT TITLE: Fleet addition: #117 - Small Trencher

 ING SUMMARY:
 2022
 2023
 2024
 2025
 2026

 New Funding:
 \$ 50,000
 \$ - \$ - \$ - \$
 - \$
 - \$
 - \$

 *Prior Authorized Balance:
 \$ - \$ - \$ - \$ - \$
 - \$
 - \$
 - \$
 - \$

 2022-2026 Funding:
 \$ 50,000
 \$ - \$ - \$
 - \$
 - \$
 - \$

Total 5 Year

50.000

50,000

PROJECT STATUS: New Project

CAPITAL BUDGET - PROJECT DETAIL							
DEPARTMENT:	Electric						
DIVISION:	Electric						
FUND:	Electric						
PROJECT LOCATION:	Various						
PROJECT PRIORITY:	2 - High Priority Level						
Critical need to remediate failing service, prevent failure, or generate savings							
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:							
	Sustainable Community						

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2022
Est. Completion Date:	2022
Est. Useful Life (in years):	30
Est. Total Cost:	\$ 50,000
Est. Spend @ 12/31/2021 (if underway) :	\$ -
% Complete (if underway):	0.0%
Balance to be funded¹:	\$ 50,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT				
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	5195106.9960	\$	50,000				
TOTAL PRO	\$	50,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

The City's Electric Department needs a mini trencher. The trencher will be used to dig a trench during an emergency to fix a bad underground cable. Currently, we have to rely on the contractor, and sometimes they are not available when we need them, especially during the off-hours. If the contractor is not available during the off-hours, we have to leave the live wire in the customer's yard to bring the power back, which is always a hazard. Getting our own trencher will help complete the emergency work on time, and we don't have to rely on the contractor. In addition, it will help us with our regular work, such as fixing a bad underground street light cable and running new underground cable lines.

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**

				PROJECT FIN	ANCING BY PLA	IN YEAR					
§ 806.1(3) SOURCE OF FUN	DS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES		-	-	-	\$ -	50,000	1	-	-	-	\$ 50,000
CAPITAL RESERVES		-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMEN	Т	-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS	(SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES		-	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN		-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN	ACT	-	-	-	\$ -	-	1	-	-	-	\$ -
OTHER	(SPECIFY)	-	-	_	\$ -	-	-	-	-	1	\$ -
TOTAL:		\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
§ 806.1(4) ESTIN	MATED ANNUAL COST O	F	OPE	RATING IMPACT	:	2022	2023	2024	2025	2026	TOTAL
OPERATING / MAIN	TAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)	_	-	_	-	-	\$ -

PROJECT NO: E2206

PROJECT TITLE: Secondary Cable Replacement/

Rejuvenate at Villa Belmont

PROJECT STATUS: New Project

*Prior Authorized Balance includes 2021 carryover funding only.

FUNDING SUMMARY:	2022	2023	2	024	2025	2026	To	tal 5 Year
New Funding:	\$ 125,000	\$ -	\$	-	\$ -	\$ -	\$	125,000
*Prior Authorized Balance:	\$ -	\$ -	\$	-	\$ -	\$ -	\$	-
2022-2026 Funding:	\$ 125,000	\$ •	\$	-	\$ -	\$ •	\$	125,000

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Electric					
DIVISION:	Electric					
FUND:	Electric					
PROJECT LOCATION:	Villa Belmont Condominiums					
PROJECT PRIORITY:	3 - Medium-High					
The City would be taking	g a calculated risk in the deferral of this item					
COMPREHENSIVE DEVE	LOPMENT PLANNING VISION ELEMENT:					
	Not Applicable					

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2022
Est. Completion Date:	2022
Est. Useful Life (in years):	45
Est. Total Cost:	\$ 125,000
Est. Spend @ 12/31/2021 (if underway):	\$ -
% Complete (if underway):	0.0%
Balance to be funded¹:	\$ 125,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT				
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	5195106.9960	\$	125,000				
TOTAL PRO	\$	125,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Villa Belmont was built in 1968. The City owns the underground wiring to the transformers and the buildings. Over the years, a lot of the wiring has failed and been repaired with new pieces and splices. There is proven technology that uses a gel injected into old cables that rejuvenates them to a like new state. This project would take as many of the old cables as possible and restore them to avoid the repeated electrical outages. Some of the cables are direct buried under the slabs and foundations of the buildings which would make them problematic to fix. The only alternative to the injection technology is to open cut and or bore in cables, which would be inconvenient to the residents and would be just as costly.

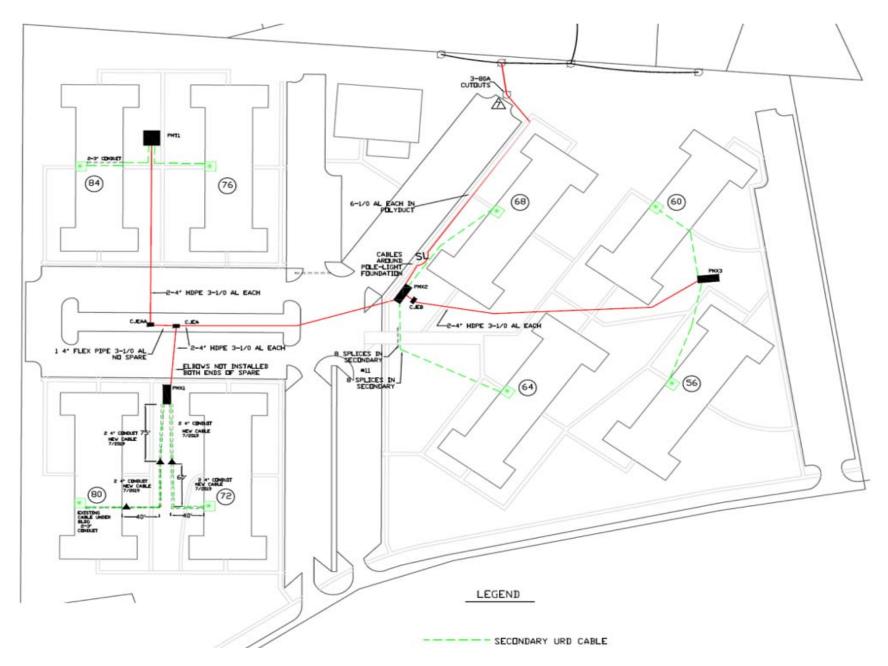
*Please be advised that this project was added following the 8/30/2021 City-wide budget overview presented to Council.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	\$ -	125,000	-	-	-	-	\$ 125,000
CAPITAL RESERVES	-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES	-	-	-	\$ -	1	-	-	-	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	-	-	-	-	\$ -
OTHER (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000
§ 806.1(4) ESTIMATED ANNUAL COST	OF	OPE	RATING IMPACT	:	2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR A	ASSET	INCREMENT	AL COSTS (NET S	SAVINGS)	-	-	-	-	-	\$ -

E2206: Secondary Cable Replacement/ Rejuvenate at Villa Belmont Supporting Documentation - Page 1 of 2



E2206: Secondary Cable Replacement/ Rejuvenate at Villa Belmont Supporting Documentation - Page 2 of 2



*Prior Authorized Balance includes 2021 carryover funding only. PROJECT NO: E2002 FUNDING SUMMARY: 2022 2023 2024

NEWARK

PROJECT TITLE: New Substation

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:	2022	2023	2024	2025	2026	Total 5 Year
New Funding:	\$ 1	\$ -	\$ 14,600,000	\$ -	\$ -	\$ 14,600,000
*Prior Authorized Balance:	\$ 440,000	\$ 2,000,000	\$ 1,100,000	\$ -	\$ -	\$ 3,540,000
2022-2026 Funding:	\$ 440,000	\$ 2,000,000	\$ 15,700,000	\$ •	\$ •	\$ 18,140,000

CAPITAL	BUDGET - PROJECT DETAIL
DEPARTMENT:	Electric
DIVISION:	Electric
FUND:	Electric
PROJECT LOCATION:	Transfer Station on Old S. Chapel St.
PROJECT PRIORITY:	2 - High Priority Level
Critical need to remediate f	ailing service, prevent failure, or generate savings
COMPREHENSIVE DEVE	LOPMENT PLANNING VISION ELEMENT:
	Sustainable Community

§ 806.1(3) SUMMARY OF PROJECT DATA									
First Year in Program:	2020								
Est. Completion Date:	2024								
Est. Useful Life (in years):	50								
Est. Total Cost:	\$ 18,200,000								
Est. Spend @ 12/31/2021 (if underway) ¹ :	\$ 60,000								
% Complete (if underway):	0.3%								
Balance to be funded¹:	\$ 18,140,000								

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION	ACCOUNT NUMBER	AMOUNT						
Labor:								
Materials:								
Other Contracts:	5195106.9730	\$	18,140,000					
TOTAL PRO	\$	18,140,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

The City Electric Department recently completed an electric system analysis of the distribution system to determine its current electric system strengths and weaknesses. To perform this analysis, the City utilized Sargent & Lundy's (S&L) services. Considering projected 2030 future system loading plus EV adoption, there is 37.5% loading margin that remains when two of the three 112 MVA rated Kershaw Station transformers, T3, T4 and T5, supply the entire distribution system. As T4 and T5 are fed from the same 138 kV DPL ring bus section, the potential for a single transformer feeding the distribution system is possible. If a single transformer (T3) feeds the entire distribution system, there is an overload of approximately 25.3%. Therefore, S&L recommends that the City consider constructing an additional 138/34.5kV station prior to 2026, in order to provide additional margin and to increase system reliability, especially considering the planned expansion of STAR Campus, as well as the increased adoption of EVs.

*Please be that the carryover reserves of \$3,540,000 currently budgeted are reserved for the actual construction of the substation. Any use of reserves prior to these funds comes from capital reserves.

PROJECT FINANCING BY PLAN YEAR										
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	200,000	-	-	\$ 200,000	-	1	-	1	-	\$ -
CAPITAL RESERVES	3,400,000	60,000	-	\$ 3,340,000	440,000	2,000,000	1,100,000	-	-	\$ 3,540,000
EQUIPMENT REPLACEMENT	1	1	-	\$ -	-	1	-	1	-	\$ -
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	-	-	_	\$ -
BOND ISSUES	-	-	-	\$ -	-	1	-	1	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	1	-	1	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	1	-	-	-	\$ -
OTHER DEMEC	1	-	-	\$ -	-	-	14,600,000	-	-	\$ 14,600,000
TOTAL:	\$ 3,600,000	\$ 60,000	\$ -	\$ 3,540,000	\$ 440,000	\$ 2,000,000	\$ 15,700,000	\$ -	\$ -	\$ 18,140,000
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:			2022	2023	2024	2025	2026	TOTAL		
OPERATING / MAINTAINING PROJECT OR ASSET INCREMENTAL COSTS (NET SAVINGS)			-	-	-	-	-	\$ -		

E2002: New Substation
Supporting Documentation - Page 1



*Prior Authorized Balance includes 2021 carryover funding only.

2025

2026

\$

Total 5 Year

600.000

600,000

NEWAK

PROJECT NO: E1911

PROJECT TITLE: 35kV Line 3402 Capacity Upgrade

 FUNDING SUMMARY:
 2022
 2023
 2024

 New Funding:
 \$ - \$ 300,000
 \$ 300,000
 \$

 *Prior Authorized Balance:
 \$ - \$ - \$
 \$ - \$
 \$

 2022-2026 Funding:
 \$ - \$ 300,000
 \$ 300,000
 \$

PROJECT STATUS: In Progress (with end date)

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Electric					
DIVISION:	Electric					
FUND:	Electric					
PROJECT LOCATION:	Various locations in the City					
PROJECT PRIORITY:	4 - Medium					
This project is a NEED and not a	WANT, but no significant risk in the deferral of this item					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:						
Sustainable Community						

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2019
Est. Completion Date:	2024
Est. Useful Life (in years):	30
Est. Total Cost:	\$ 600,000
Est. Spend @ 12/31/2021 (if underway):	\$ -
% Complete (if underway):	0.0%
Balance to be funded¹:	\$ 600,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

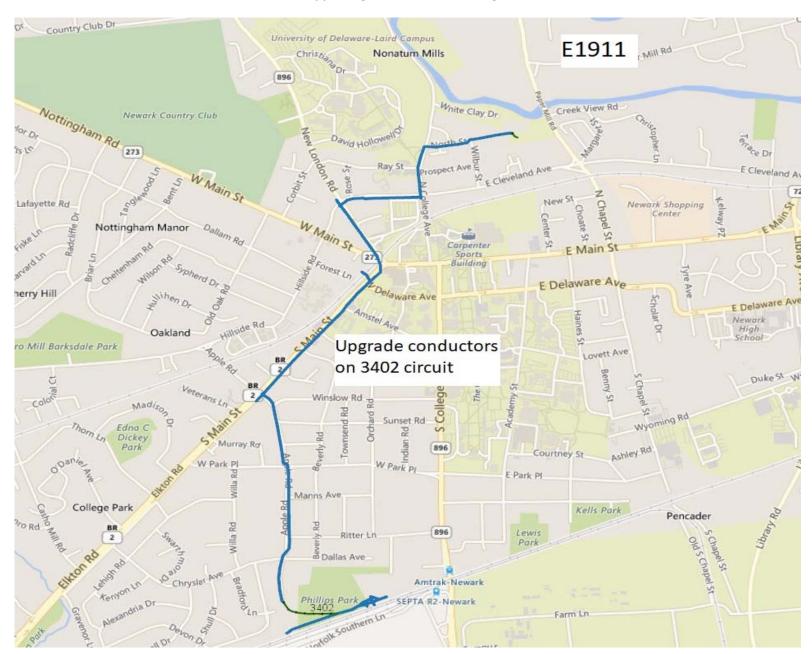
PROJECT COST BY CATEGORY								
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT					
Labor:	5195106.9860	\$	200,000					
Materials:	5195106.9760	\$	400,000					
Other Contracts:		\$	-					
TOTAL PRO	\$	600,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION:**This project will upgrade the 34,000 volt aerial and underground cable to increase capacity and reliable back-up capacity to the Phillips substation, Chestnut Hill substation, Sandy Brae substation and West Main substation. This upgrade will also allow us to tie this feeder to the new substation in the future if needed.

PROJECT FINANCING BY PLAN YEAR											
§ 806.1(3) SOURCE OF FUN	DS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES		-	-	-	\$ -	-	300,000	300,000	-	-	\$ 600,000
CAPITAL RESERVES		-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	<u>T</u>	-	-	-	\$ -	-	_	-	-	-	\$ -
GRANTS	(SPECIFY)	-	1	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES		-	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN		-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN A	ACT	-	-	-	\$ -	-	-	-	-	-	\$ -
OTHER	(SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ 600,000
§ 806.1(4) ESTIMATED ANNUAL COST OF OPER		RATING IMPACT	:	2022	2023	2024	2025	2026	TOTAL		
OPERATING / MAINTAINING PROJECT OR ASSET INCREMENTAL COSTS (NET :			SAVINGS)	_	-	-	-	-	\$ -		

E1911: 35kV Line 3402 Capacity Upgrade Supporting Documentation - Page 1



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PROJECT NO: PROJECT TITLE:

E1912

PROJECT STATUS: In Progress (with end date)

35kV Disconnect Switches

Replacement - Kershaw Substation

*Prior Authorized Balance includes 2021 carryover funding only.

FUNDING SUMMARY: 2023 2025 2026 **Total 5 Year** New Funding: 160,000 160,000 160,000 480.000 \$ *Prior Authorized Balance: 160,000 \$ 480,000 2022-2026 Funding: \$ 160,000 \$ 160,000 \$

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Electric				
DIVISION:	Electric				
FUND:	Electric				
PROJECT LOCATION:	Kershaw Substation				
PROJECT PRIORITY:	3 - Medium-High				
The City would be taking	a calculated rick in the deferral of this item				

The City would be taking a calculated risk in the deferral of this item COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: Sustainable Community

§ 806.1(3) SUMMARY OF PROJECT DATA							
First Year in Program:	2019						
Est. Completion Date:	2024						
Est. Useful Life (in years):	20						
Est. Total Cost:	\$ 480,000						
Est. Spend @ 12/31/2021 (if underway) :	\$ -						
% Complete (if underway):	0.0%						
Balance to be funded¹:	\$ 480,000						

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT					
Labor:	5195106.9830	\$	150,000					
Materials:	5195106.9730	\$	330,000					
Other Contracts:		\$	-					
TOTAL PRO	JECT COST	\$	480,000					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**

This project will replace 40 year old 35kV disconnect switches at Kershaw Substation.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	\$ -	160,000	160,000	160,000	-	-	\$ 480,000
CAPITAL RESERVES	-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	-	1	-	\$ -
BOND ISSUES	-	-	-	\$ -	-	-	-	1	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	-	1	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	-	1	ı	-	\$ -
OTHER (SPECIFY)	-	-	-	\$ -	-	-	1	-	-	\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ 160,000	\$ 160,000	\$ 160,000	\$ -	\$ -	\$ 480,000
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	:	2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR A	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)	-	-	-	-	-	\$ -

2022

PROJECT NO: E1805

PROJECT TITLE: Line Extension Across UD Farm **FUNDING SUMMARY:** New Funding: *Prior Authorized Balance:

50,000 \$ 50,000 \$ 320,000 320,000 370,000 \$ 370,000 2022-2026 Funding: \$

2025

2026

Total 5 Year

PROJECT STATUS: In Progress (with end date)

CAPITAL BUDGET - PROJECT DETAIL					
DEPARTMENT:	Electric				
DIVISION:	Electric				
FUND:	Electric				
PROJECT LOCATION:	University of Delaware: Farm				
PROJECT PRIORITY:	4 - Medium				
This project is a NEED and not a WANT, but no significant risk in the deferral of this item					
COMPREHENSIVE DEV	ELOPMENT PLANNING VISION ELEMENT:				

Sustainable Community

§ 806.1(3) SUMMARY OF PROJECT DATA							
First Year in Program:		2018					
Est. Completion Date:		2022					
Est. Useful Life (in years):		30					
Est. Total Cost:	\$	370,000					
Est. Spend @ 12/31/2021 (if underway) :	\$	-					
% Complete (if underway):		0.0%					
Balance to be funded¹:	\$	370,000					

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION		AMOUNT						
Labor:	5195106.9860	\$	160,000					
Materials:	5195106.9760	\$	160,000					
Other Contracts:	5195106.9960	\$	50,000					
TOTAL PRO	JECT COST	\$	370,000					

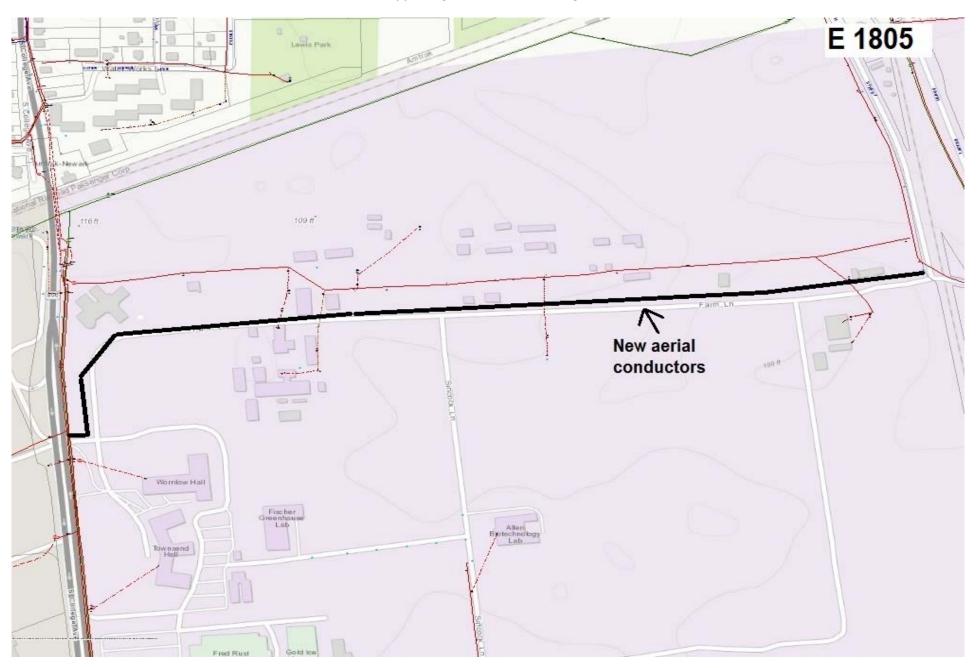
² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

A new 12,470 volt circuit will be constructed from Old South Chapel Street to South College Avenue through the University of Delaware Farm. This project will increase the capacity and reliable back-up capacity to the Star Campus, the University of Delaware South Campus and City customers on South College Avenue. This project is based on approval from the University of Delaware.

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Expenditures	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	-	ı	-	\$ -	50,000	-	-	-	-	\$ 50,000
CAPITAL RESERVES	320,000	1	-	\$ 320,000	320,000	-	-	-	-	\$ 320,000
EQUIPMENT REPLACEMENT	-	ı	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	-	ı	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES	-	ı	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN	-	ı	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN ACT	-	Ī	-	\$ -	-	-	-	-	-	\$ -
OTHER (SPECIFY)	-	ı	_	\$ -	-	-	-	-	-	\$ -
TOTAL:	\$ 320,000	\$ -	\$ -	\$ 320,000	\$ 370,000	\$ -	\$ -	\$ -	\$ -	\$ 370,000
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	:	2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	AVINGS)	-	-	-	-	-	\$ -

E1805: Line Extension - UD Farm Supporting Documentation - Page 1



*Prior Authorized Balance includes 2021 carryover funding only. PROJECT NO: E1806 FUNDING SUMMARY: 2022 2023 2024

NEWARK

PROJECT TITLE: Christianstead Underground Primary

Cable Addition

PROJECT STATUS: In Progress (with end date)

INDING SUMMARY:	2022	2023	2024	2025	2026	Total 5 Year
New Funding:	\$ 1	\$ -	\$ -	\$ -	\$ -	\$ -
*Prior Authorized Balance:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2022-2026 Funding:	\$	\$.	\$ -	\$ -	\$ -	\$ -

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Electric					
DIVISION:	Electric					
FUND:	Electric					
PROJECT LOCATION:	Christianstead					
PROJECT PRIORITY:	4 - Medium					
This project is a NEED and not a	WANT, but no significant risk in the deferral of this item					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:						
Sustainable Community						

§ 806.1(3) SUMMARY OF PROJECT DATA						
First Year in Program:		2018				
Est. Completion Date:		2021				
Est. Useful Life (in years):		30				
Est. Total Cost:	\$	60,000				
Est. Spend @ 12/31/2021 (if underway) :	\$	60,000				
% Complete (if underway):		100.0%				
Balance to be funded¹:	\$	-				

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION		AMOUNT						
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:		\$	-					
TOTAL PRO	DJECT COST	\$	-					

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION :
An additional underground high voltage cable is needed in Christianstead to balance load during emergency conditions when an existing high
voltage cable fails. When we experience a cable failure, the remaining cable can not be fused properly to coordinate with upstream fuses.

PROJECT FINANCING BY PLAN YEAR											
§ 806.1(3) SOURCE OF FUNDS:		Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES		60,000	-	60,000	\$ -	-	-	-	-	-	\$ -
CAPITAL RESERVES		-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	T	-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS	(SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES		-	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN		-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN A	ACT	-	-	-	\$ -	-	1	-	1	-	\$ -
OTHER	(SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:		\$ 60,000	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
§ 806.1(4) ESTIN	MATED ANNUAL COST O	F		RATING IMPACT		2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR ASSET INCREMENTAL COSTS (NET SAVINGS)				-	-	-	-	-	\$ -		

E1806: Christianstead Underground Primary Cable Addition Supporting Documentation - Page 1



PROJECT NO: E1807 FUNDING SUMMARY: *Prior Authorized Balance includes 2021 carryover funding only. *Project Authorized Balance includes 2021 carryover funding only. *2022 2023 2024

NEWARK

PROJECT TITLE: Relay Replacements - Kershaw

Substation

PROJECT STATUS: In Progress (with end date)

UNDING SUMMARY:	2022	2023	2024	2025	2026	To	otal 5 Year
New Funding:	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$	100,000
*Prior Authorized Balance:	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
2022-2026 Funding:	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$	100,000

CAPITAL BUDGET - PROJECT DETAIL							
DEPARTMENT:	Electric						
DIVISION:	Electric						
FUND:	Electric						
PROJECT LOCATION:	Kershaw Substation						
PROJECT PRIORITY:	2 - High Priority Level						
Critical need to remediate failing service, prevent failure, or generate savings							
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:							
	Sustainable Community						

§ 806.1(3) SUMMARY OF PROJECT DATA							
First Year in Program:	2018						
Est. Completion Date:	2023						
Est. Useful Life (in years):	20						
Est. Total Cost:	\$ 200,000						
Est. Spend @ 12/31/2021 (if underway):	\$ 100,000						
% Complete (if underway):	50.0%						
Balance to be funded¹:	\$ 100,000						

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT					
Labor:	5195106.9830	\$	35,000					
Materials:	5195106.9730	\$	65,000					
Other Contracts:		\$	-					
TOTAL PRO	\$	100,000						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

This project will replace electro mechanical relays on circuit breakers 7, 8 and 9 at Kershaw Substation and connect them to the SCADA
system. This will allow us to see breaker status and also have remote control

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**

PROJECT FINANCING BY PLAN YEAR											
§ 806.1(3) SOURCE OF FUNDS:		Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES		50,000	-	50,000	\$ -	50,000	50,000	-	-	-	\$ 100,000
CAPITAL RESERVES		50,000	-	50,000	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT		-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS	(SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES		-	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN		-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN ACT	•	-	-	-	\$ -	-	-	-	-	-	\$ -
OTHER	(SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:		\$ 100,000	\$ -	\$ 100,000	\$ -	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 100,000
§ 806.1(4) ESTIMA	TED ANNUAL COST O	F	OPE	RATING IMPACT	:	2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTA	INING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)	-	-	-	-	-	\$ -

PROJECT NO:

E1808

PROJECT TITLE: Voltage Upgrade - North College

Avenue

PROJECT STATUS: In Progress (with end date)

*Prior Authorized Balance includes 2021 carryover funding only.

FUNDING SUMMARY:	202	2	2023		2024	2025	2026	Total 5 Year	
New Funding:	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -	
*Prior Authorized Balance:	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -	
2022-2026 Funding:	\$		\$	-	\$ -	\$ -	\$ -	\$ -	

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Electric					
DIVISION:	Electric					
FUND:	Electric					
PROJECT LOCATION:	North College Avenue					
PROJECT PRIORITY:	5 - Low					
This project is a NEED and not	a WANT, but it can start in year two of this CIP or later					

This project is a NEED and not a WANT, but it can start in year two of this CIP or later

COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:

Sustainable Community

§ 806.1(3) SUMMARY OF PROJECT DATA							
First Year in Program:	2018						
Est. Completion Date:	2021						
Est. Useful Life (in years):	30						
Est. Total Cost:	\$ 75,000						
Est. Spend @ 12/31/2021 (if underway) ¹ :	\$ 75,000						
% Complete (if underway):	100.0%						
Balance to be funded¹:	\$ -						

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY								
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT					
Labor:		\$	-					
Materials:		\$	-					
Other Contracts:		\$	-					
TOTAL PRO	\$	-						

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Replace poles on North College Avenue and install a primary metering pole in preparation for a 4,160 volt to 12,470 volt upgrade of University buildings (Willard Hall, McDowell Hall, Taylor Hall, and University Delaware Museums) on North College Avenue. Currently, we still have 1,234 KVA of 4,160 volt load. This voltage upgrade will reduce this load to 792 KVA.

			PROJECT FIN	ANCING BY PLA	IN YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Expenditures	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	25,000	-	25,000	\$ -	-	-	1	-	-	\$ -
CAPITAL RESERVES	50,000	-	50,000	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES	-	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	-	-	-	-	\$ -
OTHER (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:	\$ 75,000	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:					2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR ASSET INCREMENTAL COSTS (NET SAVINGS)					_	-	-	-	-	\$ -

PROJECT NO:

E1810

PROJECT TITLE: Lightning Arrestor Replacement

FUNDING SUMMARY:

*Prior Authorized Balance includes 2021 carryover funding only.

New Funding:

*Prior Authorized Balance:
2022-2026 Funding:

	2022	2023	2024	2025	2026	10	tai 5 fea
:	\$ -	\$ 235,000	\$ 1	\$ -	\$ 1	\$	235,00
:	\$ -	\$ -	\$	\$ -	\$	\$	
:	\$ -	\$ 235,000	\$ •	\$ -	\$ •	\$	235,00

PROJECT STATUS: In Progress (with end date)

CAPITAL BUDGET - PROJECT DETAIL DEPARTMENT: Electric DIVISION: Electric FUND: Electric PROJECT LOCATION: Various locations in the City PROJECT PRIORITY: 5 - Low This project is a NEED and not a WANT, but it can start in year two of this CIP or later

This project is a NEED and not a WANT, but it can start in year two of this CIP or later

COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:

Sustainable Community

§ 806.1(3) SUMMARY OF PROJECT DATA							
First Year in Program:	2018						
Est. Completion Date:	2023						
Est. Useful Life (in years):	30						
Est. Total Cost:	\$ 235,000						
Est. Spend @ 12/31/2021 (if underway) :	\$ -						
% Complete (if underway):	0.0%						
Balance to be funded¹:	\$ 235,000						

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT				
Labor:	5195106.9860	\$	180,000				
Materials:	5195106.9760	\$	55,000				
Other Contracts: \$ -							
TOTAL PROJECT COST \$ 235,000							

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION :
Replace older lightning arrestors on the 12.47kV system. This will prevent power outages and improve lightning protection on the distribution
system.

	PROJECT FINANCING BY PLAN YEAR									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Expenditures	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	\$ -	-	235,000	-	-	-	\$ 235,000
CAPITAL RESERVES	-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES	-	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	1	-	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	-	1	-	-	\$ -
OTHER (SPECIFY)	-	-	-	\$ -	-	-	1	-	-	\$ -
TOTAL:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 235,000	\$ -	\$ -	\$ -	\$ 235,000
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:				2022	2023	2024	2025	2026	TOTAL	
OPERATING / MAINTAINING PROJECT (OR ASSET	INCREMENT	AL COSTS (NET S	SAVINGS)	-	-	-	-	-	\$ -

PROJECT NO:

E1602

PROJECT TITLE: Circuit Breaker Replacement

*Prior Authorized Balance includes 2021 carryover funding only.

 FUNDING SUMMARY:
 2022
 2023
 2024
 2025
 2026
 Total 5 Year

 New Funding:
 \$ - \$ - \$ - \$ - \$ - \$
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NEWARK

PROJECT STATUS: In Progress (with end date)

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Electric					
DIVISION:	Electric					
FUND:	Electric					
PROJECT LOCATION:	Fremont Road Substation					
PROJECT PRIORITY:	3 - Medium-High					
The City would be taking	g a calculated risk in the deferral of this item					
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:						
	Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT DATA						
First Year in Program:	2016					
Est. Completion Date:	2021					
Est. Useful Life (in years):	30					
Est. Total Cost:	\$ 70,000					
Est. Spend @ 12/31/2021 (if underway):	\$ 70,000					
% Complete (if underway):	100.0%					
Balance to be funded¹:	\$ -					

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT				
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	\$	-					
TOTAL PROJECT COST \$							

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

The 35kV oil circuit breaker installed in 1975 feeding transformer 47 at the Fremont Road Substation does not always open and close properly. Due to this problem and its age, it is recommended it be replaced with a vacuum type breaker.

			PROJECT FIN	ANCING BY PLA	IN YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	70,000	37,132	32,868	\$ -	-	-	-	-	-	\$ -
CAPITAL RESERVES	-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES	-	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	-	-	-	-	\$ -
OTHER (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:	\$ 70,000	\$ 37,132	\$ 32,868	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:				T:	2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT (OR ASSET	INCREMENT	AL COSTS (NET S	SAVINGS)	-	-	_	-	-	\$ -

NEWARK

PROJECT TITLE: Underground Distribution - UD Star

Campus

E1502

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:	2022	2023	2024	2025	2026	To	tal 5 Year
New Funding:	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$	600,000
*Prior Authorized Balance:	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
2022-2026 Funding:	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$	600,000

CAPITAL BUDGET - PROJECT DETAIL							
DEPARTMENT:	Electric						
DIVISION:	Electric						
FUND:	Electric						
PROJECT LOCATION:	University of Delaware: Star Campus						
PROJECT PRIORITY:	1 - Highest Priority Level						
,	Project underway and must be completed						
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:							
	Sustainable Community						

PROJECT NO:

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2015
Est. Completion Date:	2026
Est. Useful Life (in years):	30
Est. Total Cost:	\$ 840,000
Est. Spend @ 12/31/2021 (if underway):	\$ 240,000
% Complete (if underway):	0.0%
Balance to be funded¹:	\$ 600,000

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

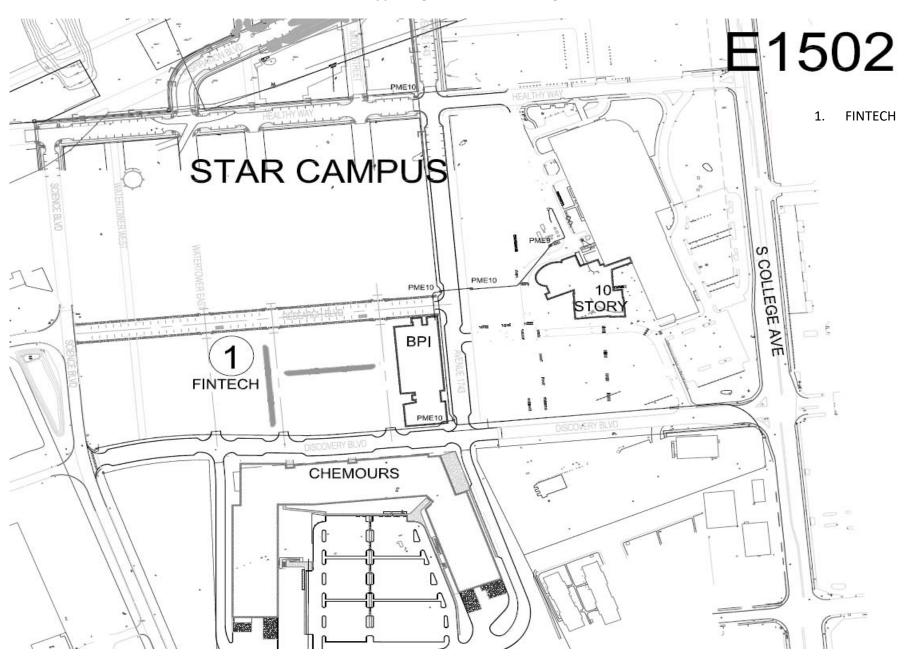
PROJECT COST BY CATEGORY							
CLASSIFICATION		AMOUNT					
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:	5195106.9760	\$	600,000				
TOTAL PRO	\$	600,000					

 $^{^2}$ Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Ì	Underground electrical distribution equipment is needed for the Star Campus. Expenditures to be reimbursed by the Developer or Customer.

	PROJECT FINANCING BY									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Estimated Expenditures 04/01/21 - 12/31/21	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	\$ -	-	-	-	-	-	\$ -
CAPITAL RESERVES	-	-	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	1	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	-	1	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES	-	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN ACT	-	1	-	\$ -	-	-	-	-	-	\$ -
OTHER Developer or Customer	120,000	-	120,000	\$ -	120,000	120,000	120,000	120,000	120,000	\$ 600,000
TOTAL:	\$ 120,000	\$ -	\$ 120,000	\$ -	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 600,000
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:					2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	AVINGS)	-	-	-	-	-	\$ -

E1502: Underground Distribution - UD Star Campus Supporting Documentation - Page 1



PROJECT NO: E1203

PROJECT TITLE: CAD Software

*Prior Authorized Balance includes 2021 carryover funding only.

FUNDING SUMMARY:	202	22	2023		2024	2025	2026	Total 5 Year	
New Funding:	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-
*Prior Authorized Balance:	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-
2022-2026 Funding:	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-

PROJECT STATUS: In Progress (with end date)

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Electric					
DIVISION:	Electric					
FUND:	Electric					
PROJECT LOCATION:	Municipal Building					
PROJECT PRIORITY:	1 - Highest Priority Level					
Project underway and must be completed						
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:						
Sustainable Community						

§ 806.1(3) SUMMARY OF PROJECT DATA								
First Year in Program:	2012							
Est. Completion Date:	2021							
Est. Useful Life (in years):	15							
Est. Total Cost:	\$ 40,444							
Est. Spend @ 12/31/2021 (if underway) :	\$ 40,444							
% Complete (if underway):	100.0%							
Balance to be funded¹:	\$ -							

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY							
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT				
Labor:		\$	-				
Materials:		\$	-				
Other Contracts:		\$	-				
TOTAL PRO	\$	-					

 $^{^2}$ Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:								
This software is needed to model the city's electric distribution system. This software has engineering modules to assist in fault calculations,								
voltage drop calculations, coordination studies and feeder optimization.								

	PROJECT FINANCING BY PLA									
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Expenditures	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	-	ı	-	\$ -	-	1	1	-	-	\$ -
CAPITAL RESERVES	40,444	ı	40,444	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	ı	-	\$ -	-	1	1	-	-	\$ -
GRANTS (SPECIFY)	-	ı	-	\$ -	-	1	1	-	-	\$ -
BOND ISSUES	-	ı	-	\$ -	-	1	1	-	-	\$ -
STATE REVOLVING LOAN	-	ı	-	\$ -	-	1	1	-	-	\$ -
AMERICAN RESCUE PLAN ACT	-	ı	-	\$ -	-	1	1	-	-	\$ -
OTHER (SPECIFY)	_	ı	_	\$ -	-	1	-	-	-	\$ -
TOTAL:	\$ 40,444	\$ -	\$ 40,444	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:					2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR AS	SSET	INCREMENT	AL COSTS (NET S	AVINGS)	-	-	-	-	-	\$ -

*Prior Authorized Balance includes 2021 carryover funding only. PROJECT NO: E1105 FUNDING SUMMARY: 2022 2023 2024

NEWARK

PROJECT TITLE: Upgrade Substation Transformers and

Breakers

PROJECT STATUS: In Progress (with end date)

JNDING SUMMARY:	2022	2023		2024		2025		2026		Total 5 Year
New Funding:	\$ -	\$	-	\$	-	\$	-	\$	1	\$ -
*Prior Authorized Balance:	\$ -	\$	-	\$		\$	-	\$	-	\$ -
2022-2026 Funding:	\$ -	\$		\$	•	\$	-	\$		\$ -

CAPITAL BUDGET - PROJECT DETAIL						
DEPARTMENT:	Electric					
DIVISION:	Electric					
FUND:	Electric					
PROJECT LOCATION:	Various					
PROJECT PRIORITY:	1 - Highest Priority Level					
Project underway and must be completed						
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:						
Sustainable Community						

§ 806.1(3) SUMMARY OF PROJECT	DAT	4
First Year in Program:		2011
Est. Completion Date:		2021
Est. Useful Life (in years):		30
Est. Total Cost:	\$	3,499,000
Est. Spend @ 12/31/2021 (if underway) :	\$	3,499,000
% Complete (if underway):		100.0%
Balance to be funded¹:	\$	-

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY											
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT								
Labor:		\$	-								
Materials:		\$	-								
Other Contracts:		\$	-								
TOTAL PRO	DJECT COST	\$	-								

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Due to the load increase on Cleveland Avenue, which consumed most of the City's back-up capacity between West Main Street Substation transformer 76 and East Main Street Substation transformer 80, a new substation transformer is required at the West Main Street Substation. This will allow the load to be split on circuit 80-1 which feeds Cleveland Avenue at Paper Mill Road. Approximately 1000kW of 4kV load will be upgraded to 12.47kV on West Main Street and in Nottingham Green.

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**

In order to meet upcoming load increases on the Star Campus and reinforce the distribution system by providing back-up power, a new substation transformer is required at the Chestnut Hill Road substation. A new line extension from the substation to South College Avenue will also be built. The new transformer will back-up Chestnut Hill Road feeders 74-1 and 74-2, Phillips 7 and Phillips 86-2.

Also includes (previous CIP E1803) - South Chapel Transformer Replacement:

- Transformer 11 at South Chapel Street Substation is a 2500/3500kVA transformer installed in 1969. Recent electrical tests and oil testing has shown the transformer is at its end of life. The unit is a back-up to South Chapel 13 (5000kVA) which has a 3100kVA load on it. Unit 11 is close to not being able to back-up 13 in an emergency. It is proposed to replace unit 11 with a 10,000kVA transformer. This new transformer will back-up transformer 13 at South Chapel Substation, unit 74 at Chestnut Hill Road substation and unit 82 at Wyoming Road Substation. Unit 11 is a sister unit of West Main unit 41 which has failed 3 times in its lifetime.

			PROJECT FIN	ANCING BY PLA	IN YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Expenditures	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	\$ -	-	-	1	1	-	\$ -
CAPITAL RESERVES	20,372	-	20,372	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	-	-	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	1	-	-	\$ -	-	-	1	-	-	\$ -
BOND ISSUES	-	-	-	\$ -	-	-	1	1	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	1	1	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	-	1	1	-	\$ -
OTHER (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:	\$ 20,372	\$ -	\$ 20,372	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
§ 806.1(4) ESTIMATED ANNUAL COST O	§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:					2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR ASSET INCREMENTAL COSTS (NET SAVINGS)					_	-	-	-	-	\$ -

PROJECT NO: E0503

PROJECT TITLE: **SCADA and Automatic Switching** **FUNDING SUMMARY:** New Funding: *Prior Authorized Balance 2022-2026 Funding: \$

225.000 \$ 225.000 \$ 460.683 Ś 460.683 460.683 \$ 225.000 S 685.683

2025

2026

Total 5 Year

PROJECT STATUS: In Progress (with end date)

CAPITAL BUDGET - PROJECT DETAIL									
DEPARTMENT:	Electric								
DIVISION:	Electric								
FUND:	Electric								
PROJECT LOCATION:	Various locations in the City								
PROJECT PRIORITY:	3 - Medium-High								
The City would be taking	a calculated risk in the deferral of this item								

COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:

Sustainable Community

§ 806.1(3) SUMMARY OF PROJECT	DAT	Д
First Year in Program:		2005
Est. Completion Date:		2023
Est. Useful Life (in years):		20
Est. Total Cost:	\$	2,962,351
Est. Spend @ 12/31/2021 (if underway) :	\$	2,276,668
% Complete (if underway):		76.9%
Balance to be funded¹:	\$	685,683

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY											
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT								
Labor:	5195106.9860	\$	137,137								
Materials:	5195106.9760	\$	473,121								
Other Contracts:	5195106.9960	\$	75,425								
TOTAL PRO	DJECT COST	\$	685,683								

Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**

The auto transfer system will allow intelligent transfer of substations on the 34.5kV sub transmission system using reclosers to isolate a faulted circuit and switch a substation to a different circuit if all logic conditions are met. Large outages will be reduced to about a minute and a notification of a transfer will be sent to on call personnel to investigate.

Also includes (previous CIP E1802) - 15kV Automatic Switching. Capital project E1802's description listed below:

2022

This project will add 8 - 15kV reclosers to the existing automation software in 2018 to improve reliability to customers at the Delaware Technology Park and customers on Bellevue Road. The reclosers will automatically isolate a faulted circuit and switch the customers to a different circuit if the alternate circuit is available. In 2019, 11 reclosers (roughly \$22,700 each) will be installed to improve reliability to the UD Center Campus and North Campus. In 2022, 10 reclosers (roughly \$45,000 each) were installed on South College and the Christina Parkway to improve reliability to the UD South Campus and the Star Campus.

Our existing SCADA system has become a legacy system so our SCADA provider has proposed to the City to upgrade our existing SCADA system to a newer platform in order to keep up with the industrial standards.

			PROJECT FIN	ANCING BY PLA	N YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Expenditures	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	\$ -	-	225,000	-	-	-	\$ 225,000
CAPITAL RESERVES	613,134	70,843	81,608	\$ 460,683	460,683	-	-	-	-	\$ 460,683
EQUIPMENT REPLACEMENT		-	-	\$ -	-	-	-	-	-	\$ -
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
BOND ISSUES	1	-	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN ACT	-	-	-	\$ -	-	-	-	-	-	\$ -
OTHER (SPECIFY)	-	-	-	\$ -	-	-	-	-	-	\$ -
TOTAL:	\$ 613,134	\$ 70,843	\$ 81,608	\$ 460,683	\$ 460,683	\$ 225,000	\$ -	\$ -	\$ -	\$ 685,683
§ 806.1(4) ESTIMATED ANNUAL COST O	F	OPE	RATING IMPACT	Γ:	2022	2023	2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR A	SSET	INCREMENT	AL COSTS (NET S	SAVINGS)	-	-	-	-	-	\$ -

NEWARK

PROJECT NO: EEQSF
PROJECT TITLE: Equipr

Equipment Replacement Program

FUNDING SUMMARY:

New Funding:

New Funding: \$
*Prior Authorized Balance: \$
2022-2026 Funding: \$

 2022
 2023
 2024

 706,350
 \$ 273,000
 \$ 100,000

 \$ \$

273,000 \$

100,000 \$ 450,000 \$ - \$ 1,529,350 - \$ - \$ - \$ -100,000 \$ 450,000 \$ - \$ 1,529,350

2026

Total 5 Year

2025

PROJECT STATUS: Reoccurring (with no end date)

DEPARTMENT: Electric DIVISION: Electric FUND: Electric PROJECT LOCATION: Various PROJECT PRIORITY: 1 - Highest Priority Level Project underway and must be completed COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:						
DEPARTMENT:	Electric					
DIVISION:	Electric					
FUND:	Electric					
PROJECT LOCATION:	Various					
PROJECT PRIORITY:	1 - Highest Priority Level					
Project und	erway and must be completed					
COMPREHENSIVE DEVI	ELOPMENT PLANNING VISION ELEMENT:					
	Sustainable Community					

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	Perpetua
Est. Completion Date:	Perpetua
Est. Useful Life (in years):	Variou
Est. Total Cost:	\$ 1,809,721
Est. Spend @ 12/31/2021 (if underway):	\$ 280,371
% Complete (if underway):	15.5%
Balance to be funded :	\$ 1,529,350

¹ For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJE	CT COST BY CATEGORY	
CLASSIFICATION	ACCOUNT NUMBER	AMOUNT
Labor:		\$ -
Materials:		\$ -
Other Contracts:	5195106.9623	\$ 1,529,350
TOTAL PRO	DJECT COST	\$ 1,529,350

² Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

Charter § 806.1(2) **DESCRIPTION & JUSTIFICATION**:

Planned advance funding accumulated through depreciation to replace essential equipment when necessary.

706,350 \$

Please reference the supporting documentation on the following page for the Vehicle Replacement Program Schedule (2022-2026).

Additionally, regarding the budgeted replacement in 2022 for City Trailer #113:

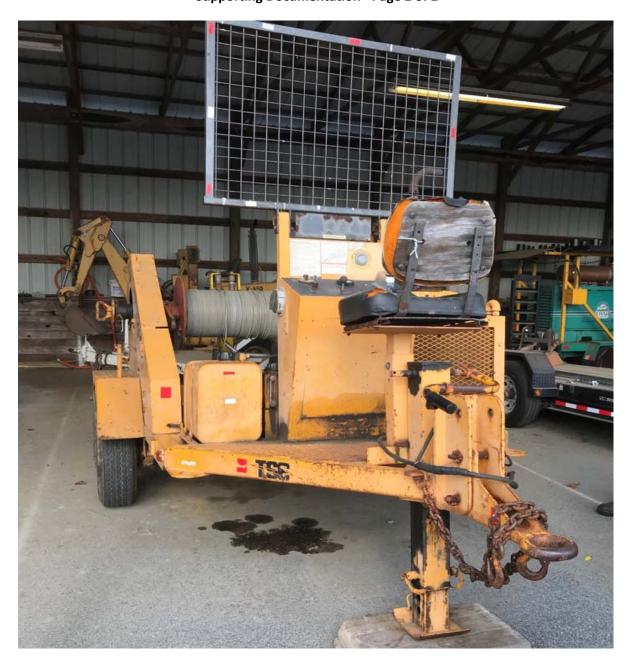
The City's Electric Department has a 1988 Wire Tension Trailer. The Trailer is used to pull the underground electric cables and overhead electric wires. The Trailer is very old and has reached the end of its life cycle. The engine is obsolete, not reliable, and not safe. The muffler is extremely loud to work around and makes communication very difficult during use, which is a safety issue.

			PROJECT FIN	ANCING BY PLA	IN YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized ²	Actual Funds Utilized as of 03/31/21	Expenditures	Estimated Authorized Balance ² 12/31/21	2022	2023	2024	2025	2026	TOTAL 5 Year CIP
CURRENT RESOURCES	18,719	-	18,719	\$ -	328,821	78,688	43,424	77,380	-	\$ 528,313
CAPITAL RESERVES	2,483	2,483	-	\$ -	-	-	-	-	-	\$ -
EQUIPMENT REPLACEMENT	233,669	233,669	-	\$ -	377,529	194,312	56,576	372,620	-	\$ 1,001,037
GRANTS (SPECIFY)	-	-	-	\$ -	-	-	1	1	-	\$ -
BOND ISSUES	-	1	-	\$ -	-	-	-	-	-	\$ -
STATE REVOLVING LOAN	-	-	-	\$ -	-	-	-	-	-	\$ -
AMERICAN RESCUE PLAN ACT	-	ı	-	\$ -		-	1	1	-	\$ -
OTHER (SPECIFY)	25,500	25,500	-	\$ -	-	-	-	-	-	\$ -
TOTAL:	\$ 280,371	\$ 261,652	\$ 18,719	\$ -	\$ 706,350	\$ 273,000	\$ 100,000	\$ 450,000	\$ -	\$ 1,529,350
§ 806.1(4) ESTIMATED ANNUAL COST O	§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:						2024	2025	2026	TOTAL
OPERATING / MAINTAINING PROJECT OR ASSET INCREMENTAL COSTS (NET SAVINGS)						-	-	-	-	\$ -

CITY OF NEWARK, DELAWARE **VEHICLE REPLACEMENT PROGRAM SCHEDULE 2022-2026 ELECTRIC UTILITY**

					MILEAGE	RECOM'D	NORMAL	NORMAL	BUDGET	EQUIPMENT					
VEHICLE		ALT FUEL	PURCHASE	PURCHASE	AS OF	MILEAGE	YEARS	REPL	REPL	SINKING			CEMENT		
NUMBER	DESCRIPTION	VEHICLE	DATE	PRICE	9/30/2020	AT REPL	LIFE	YEAR	YEAR	FUND BASIS	2022	2023	2024	2025	2026
	STAFF VEHICLES														
103	2018 Dodge Ram 2500, 4x4 Crew Cab		09/07/18	31,676	19,334	70,000	5	2018	2024	31,676			50,000		
116	2021 Nissan Leaf S Plus	EV	06/06/08	11,281	65,320	10,000	9	2021	2030	11,281					
120	2012 Toyota Camry Hybrid	Hybrid	03/19/12	24,718	16,801	70,000	10	2022	2023	24,718		38,000			
	LINE TRUCKS														
100	1997 Int'l 4700 Stake Truck		b. 03/14/97	39,285	57,470	110,000				39,285					
101	2017 Int'l 4300 Bucket Truck		01/13/17	174,983	22,471	75,000	8	2025	2025	174,983				225,000	
104	2013 International 7400 Digger		a. 09/21/12	228,003	44,772	75,000	8	2020	2021	228,003					
105	2020 Freightliner M2 Class 8		10/28/19	267,258	2,345		8	2019	2027	267,258					
115	2008 EZ Hauler 4100 Mini Digger Derrick		09/12/08	120,732			8	2016	2023	120,732	-	155.000			
122	2017 Int'l 4300 Bucket Truck		01/13/17	197,637	21,496	65,000	8	2025	2025	197,637				225,000	
124	2020 Int'l MV607 Versalift VN-55		04/24/20	220,644	1,361	100,000	8	2020	2028	220,644					
126	2018 Dodge Ram 2500, 4x4 Crew Cab		09/07/18	32,729	25,232	90,000	8	2018	2027	32,729					
130	2013 Ford F750 Aerial Lift Bucket Truck		01/14/14	176,500	35,254	75,000	8	2022	2022	176,500	250,000				
147	2015 Ford F750 Bucket Truck		07/31/15	164,100	27,621	75,000	8	2023	2022	164,100	250,000	-			
	PICK-UPS & VANS														
129	2011 Ford 3/4 Ton Utility Body		07/02/10	27,412	45,665	90,000	10	2020	2023	27,412		50,000			
132	2008 GMC Sierra 2500 Pickup Truck	EV - proposed	10/03/08	20,579	45,583	65,000	10	2018	2022	20,579	60,000				
145	2017 Ford F250 Super Duty Utility Body 4x4		08/11/17	37,552	11,895	65,000	10	2027	2027	37,552					
	OTHER EQUIPMENT														
112	2002 Self-Loading Cable Trailer		07/26/02	8,950			25	2027	2027	8,950					
113	1988 Int'l Wire Tensioner Trailer DPT30B		08/26/88	16,350			30	2018	2022	16,350	146,350				
154	2005 Daewoo 5K Forklift	EV	10/14/05	21,450			10	2015	2023	21,450	-	30,000			
155	2008 Komatsu FG45T 10K Forklift		11/30/15	24,900			10	2019	2024	24,900			50,000		
TOTAL ELEC	TRIC UTILITY						GROSS AC	QUISITION C	OST		\$ 706,350	\$ 273,000	\$ 100,000	\$ 450,000	\$
							LESS: USI	OF CAPITAL	RESERVES		-	-	-	-	
ā	. This vehicle is scheduled to be replaced in 2021.						LESS: US	OF CURREN	IT RESOUR	CES	(328,821)	(78,688)	(43,424)	(77,380)	
ŀ	o. This vehicle will not be replaced.						NET EQUIP	MENT SINK	NG FUND 1	OTAL	\$ 377,529	\$ 194,312	\$ 56,576	\$ 372,620	Ś

EEQSF: Equipment Replacement Program | Vehicle #113 - Tension Machine Replacement Supporting Documentation - Page 2 of 2





ELECTRIC DEPARTMENT

APPENDICES

CITY OF NEWARK, DELAWARE ELECTRIC DEPARTMENT

APPENDIX A - OBJECT CODE 7131 AND 8131 - (2021 AND 2022 BUDGET COMPARISON)

ELECTRIC DEPARTMENT

Code 2022 IT Annual Operating Expense	Renewal	2021 Budget	2022 Budget	+/- Prior Year	Description
				2 702 22	
7131 Honeywell Field Equipment	One Time		3,500.00	3,500.00	CT60 for FieldSense application
7131 Smart Meter Equipment Maintenance	As Needed	5,000.00	5,000.00	-	Proactive maintenance on smart meter wifi-network as well as batteries for 17 gatekeepers
8131 Auto Restoration System Software Maintenance	Annual	16,600.00	18,100.00	,	Electric Service Auto Restoration Software
8131 AutoDesk (Civil 3D) - 3 licenses - Allocated	Annual	-	2,625.00	,	AutoDesk Civil 3D (autocad) Software Subscription Licenses (Clients and Server)
8131 CYME Software Annual Maintenance	Annual	11,000.00	11,350.00	350.00	Electric Outage Simulation Software
8131 Esri Small Government ELA - Allocated	Annual	5,000.00	5,000.00	-	GIS Server, Client, Cloud Licensing
8131 FieldSense Maintenance	Annual	1,850.00	1,850.00	-	
8131 Harris - Smartworks - Oracle Database Tuning - Allocated	Annual	8,936.00	8,935.87	(0.13)	Smart Meter System - Proactive Oracle Database Maintenance
8131 Harris - Smartworks Software Maintenance - Allocated	Annual	13,925.00	14,621.33	696.33	Smart-Meter System (Middleware)
8131 Harris - NorthStar Annual Maintenance - Allocated	Annual	37,920.00	40,058.71	2,138.71	Utility Billing Software (including Smart-Meter System)
8131 Honeywell Software Maintenance - Connexo Allocated	Annual	13,742.00	13,742.00	-	Smart-Meter System (Radio Infrastructure)
8131 Oracle Software Subscription Renewal (Not Harris) - Allocated	Annual	2,584.00	2,587.60	3.60	Smart Meter - Oracle Database Software License
8131 Redhat Software Maintenance - Allocated	Annual	1,100.00	1,100.00	-	Smart Meter - Linux Operating System for Servers
8131 SagLine Software	Annual	1,000.00	1,000.00	-	Electrical Engineering Utility Weight and Span Software
8131 Scada System Licensing Maintenance	Annual	53,400.00	53,400.00	-	Electric SCADA HMI and Device Licenses
8131 Tropos Software Maintenance - Allocated	Annual	35,000.00	31,500.00	(3,500.00)	Smart-Meter System (Wireless Infrastructure)
8131 Tyler Technologies Munis Annual Maintenance - Allocated	Annual	8,309.54	8,856.36	546.82	Tyler Technologies Munis - Finance and Accounting, Taxes, Permitting, Licenses, Work Order Management
8131 Verizon - Annual License Maintenance	Monthly	-	7,500.00	7,500.00	License for IoT dimming, outage reporting, and other lighting controls (for 811 new pole toppers and 2000 existing cobra head nodes)
8131 Verizon - Cellular/Data - Allocated	Monthly	10,716.00	16,200.00	5,484.00	Computer Mobile Internet Connectivity
8131 VOIP Networks - Cloud9 VOIP Subscription - Allocated	Monthly	3,472.22	3,500.00	27.78	VOIP Phone System
7131 and 8131 Subtotals:		229,554.76	250,426.87	20,872.11	
		\$ 229,555.00	\$ 250,427.00		
7131 Subtotal:		5,000.00	8,500.00	3,500.00	
8131 Subtotal:		224,555.00	241,927.00	17,372.00	