ELECTRIC DEPARTMENT

2023 BUDGET PRESENTATION

TO CITY COUNCIL

AS PRESENTED ON:
SEPTEMBER 19th, 2022

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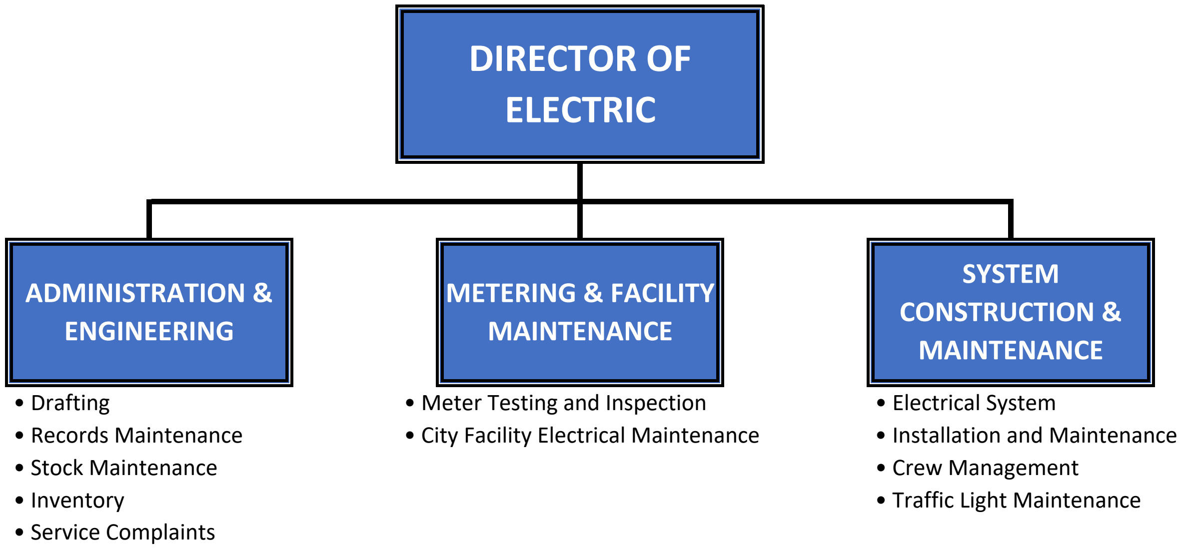
CITY OF NEWARK, DELAWARE
ELECTRIC DEPARTMENT
ORGANIZATIONAL CHART



CITY OF NEWARK, DELAWARE
ELECTRIC DEPARTMENT
2023 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
2022 DEPARTMENTAL ACCOMPLISHMENTS

Key accomplishments in 2022 include:

- The City of Newark Electric Department received the American Public Power Association's (APPA) Safety Award of Excellence for safe operating practices in 2021. The Department won first place in Group C, which has 30,000 to 59,999 worker-hours of exposure, and was recognized at the APPA Engineering and Operations Conference today.

  318 utilities from across the country entered the annual Safety Awards. Entrants were placed in categories according to their number of worker-hours and ranked based on the most incident-free records during 2021. The incident rate, which is used to judge entries, is based on its number of work-related reportable injuries or illnesses and the number of worker-hours during 2021 as defined by the occupational Safety and Health Administration (OSHA).

- The City of Newark Electric Department has received national recognition for achieving exceptional electric reliability in 2021. The recognition comes from the American Public Power Association (APPA), a trade group that represents more than 2,000 not-for-profit, community-owned electric utilities.

  APPA helps electric utilities track power outage and restoration data through its subscription-based eReliability Tracker service. Once per year, APPA’s Reliability Team compares this data to national statistics tracked by the U.S. Energy Information Administration for all types of electric utilities.

- Successfully moved South Chapel substation from the old Supervisory Control and Data Acquisition (SCADA) system to the new SCADA system. We will transfer the other eight substations to the new SCADA system in 2023.

- The new 35kV circuit breaker at the Fremont Road substation will be installed. The new circuit breaker will replace the 45 years old 35kV oil circuit breaker. We are also upgrading the communication hardware at this substation so that we can transfer this substation to the new SCADA system. The project is in progress, and we are on track to complete this project by the end of 2023.

- 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. The project is in progress, and we are on track to complete it by the end of the first quarter of 2023.

<u>Key accomplishments in 2022 include (continued):</u>

- CIP E1807 – Relay replacements at Kershaw Substation - This project's scope includes replacing the existing 138/34 kV T4 transformer and 139kV circuit breaker electromechanical relays with new digital microprocessor relays at Kershaw Substation. We have completed 90% of the engineering drawings for 138/34 kV transformer T4. The project is in progress. This is a multi-year project. All the engineering work will be completed by the first quarter of 2023. We will start the fieldwork in the year 2023.

- CIP E2002 – New Substation – We have completed a feasibility study for the new 138kV/34.5/12.47kV substation. We have also developed the project schedule and working on developing engineering and construction bidding documents.

- We have also completed the following development projects throughout the City:
    - College Square Shopping Center
        - 87 new meters were installed for apartment building 1
    - Newark Senior Center on Barksdale Rd
    - 279 Orchard Road
    - 511 Valley Road
    - Newark Charter School
    - Fintech at STAR Campus
    - Raising Cane's – in process
    - Briarcreek North – in process
    - Green Mansion – in process

CITY OF NEWARK, DELAWARE
ELECTRIC DEPARTMENT
2023 DEPARTMENTAL GOALS

Goals for 2023 include:

- Install new communication devices at the following substations so they can be transferred to New Supervisory Control and Data Acquisition (SCADA) system.
    - Wyoming Substation
    - Sandy Brae Substation
    - Chestnut Hill Substation
    - East Main Substation
    - West Main Substation
    - Phillips Substation
    - Kershaw Substation

- CIP - E2202- Electric Warehouse expansion, design the warehouse expansion of building #2.

- CIP - E1807 – Start the relay replacement for Transformer T4 at Kershaw Substation.

- CIP - E1810 – Replace older lighting arrestors on the 12.47kV system.

- CIP - E2303 – Replace the old underground 12,470-volt single-phase primary cable at Devon.

- CIP - E2302 – Replace 12,470 colt aerial spacer cable along Barksdale Road from Apple Road to Chasho Mill Road. The aerial cable is a bundled type of spacer cable which means the wires are installed close to each other. This cable has many cracks in it and has failed several times.

- Installation of electric distribution lines in new developments.
    - College Square Shopping Center
    - 62 North Chapel
    - 302 Markus Ct.
    - 320 Markus Ct.
    - 207 Mason Drive
    - Milford Run

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ELECTRIC DEPARTMENT

2023 BUDGET DOCUMENTS

CITY OF NEWARK, DELAWARE
2023 OPERATING BUDGET
ELECTRIC DEPARTMENT

EXECUTIVE SUMMARY

EXPENDITURE BUDGET								
Object Level Detail:		**2022 BUDGET *As Amended**		**2023 BUDGET **As Proposed**		**$ +/- 2022* over 2023****	**% +/- 2022* over 2023****	**Comments**
Personnel Services Detail:								
Full-time Wages		*2,024,839*		*2,027,816*		*2,977*	*0.15%*	**Step increases and advancements. No real budgeted change, overall increase of $2,977 (+0.15%).*
Other Wages		*277,899*		*368,079*		*90,180*	*32.45%*	**FY23 increase is due to an increase of $91,000 to our line item 6620 (Overtime).*
Benefits		*1,317,329*		*1,381,855*		*64,526*	*4.90%*	**FY23 increase is due City-wide allocations changes to our line items 6940 (City Pension Plan), 6960 (Group Hospitalization Ins.) and 6965 (Post-Employment Benefits).*
Personnel Services	$	3,620,067	$	3,777,750		157,683	4.36%	*Sum of above listed wages and benefits
Utility Purchases	$	32,230,531	$	35,817,690		3,587,159	11.13%	*Finance Calculation
Materials and Supplies	$	313,844	$	336,800		22,956	7.31%	*Two new line items were created for 2023. $2,500 was added to new line item 7255 (Vandalism Supplies) and $12,000 was added to new line item 7271 (SCADA System Maintenance Supplies) in 2023. Additionally, due to increased Supply costs seen across the board, several other line items were increased in FY23.
Contractual Services	$	1,925,565	$	1,961,474		35,909	1.86%	*Two new line items were created for 2023. $2,500 was added to new line item 8255 (Vandalism Contractual) and $10,000 was added to new line item 8271 (SCADA System Maintenance Contractual) in 2023. Additionally, due to increased Contractual costs seen across the board, several other line items were increased in FY23.
Other - Depreciation	$	252,282	$	357,890		105,608	41.86%	*Finance Calculation
Other - Debt Service (Principal)	$	638,719	$	393,041		(245,678)	-38.46%	*Finance Calculation
Other - Debt Service (Interest)	$	119,829	$	838,290		718,461	599.57%	*Finance Calculation. Large FY23 increase (+$730,000) related to new Electric Substation Debt Service Interest line.
Other Expenditures	$	364,153	$	357,513		(6,640)	-1.82%	*FY23 decreased overall largely due to a reduction of -$18,357 to line item 9010 (Bad Debt Expense). This was partially offset due to line item 9070 (Training & Continuing Education/Conferences) increasing by $11,667 in FY23.
Subtotal:	**$**	**39,464,990**	**$**	**43,840,448**	**$**	**4,375,458**	**11.09%**	
Inter-Dept. Charges	$	607,689	$	650,818		43,129	7.10%	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	$	529,251	$	378,781		(150,470)	-28.43%	*Finance Calculation. Kept flat in FY23.
Total Operating Expenses:	**$**	**40,601,930**	**$**	**44,870,047**	**$**	**4,268,117**	**10.51%**	
Full-time Positions		24		24		0		*No change in total FTE from FY2022 to FY2023.

CITY OF NEWARK, DELAWARE
2023-2027 CAPITAL IMPROVEMENTS PROGRAM SUMMARY
ELECTRIC DEPARTMENT

EXECUTIVE SUMMARY (continued)

CAPITAL IMPROVEMENT PLAN (CIP)

Project ID:	Project Description:	Comments
New projects:		
E2301	New Lines and Services	Perpetual Project. New project sheet added in 2023-2027 Capital Improvement Program
E2302	Spacer Cable Replacement	Perpetual Project. New project sheet added in 2023-2027 Capital Improvement Program
E2303	Underground Cable Replacement	New Project added in 2023-2027 Capital Improvement Program - (Est. Completion Date: 2024)
E2304	Meter Replacement	Perpetual Project. New project sheet added in 2023-2027 Capital Improvement Program
Ongoing projects:		
E2202	Electric Warehouse	Project listed in 2023-2027 CIP - (Est. Completion Date: 2024)
E2204	Vehicle #110 - 3-Wheel Wire Trailer Replacement	Project listed in 2022-2026 CIP - (Est. Completion Date: 2022)
E2205	Fleet addition: #117 - Small Trencher	Project listed in 2022-2026 CIP - (Est. Completion Date: 2022)
E2206	Secondary Cable Replacement/ Rejuvenate at Villa Belmont	Project listed in 2022-2026 CIP - (Est. Completion Date: 2022)
E2001	City Hall - Electric Vehicle Charging Station Wiring	Project listed in 2023-2027 CIP - (Est. Completion Date: 2023)
E2002	New Substation	Project listed in 2023-2027 CIP - (Est. Completion Date: 2024)
E1911	35kV Line 3402 Capacity Upgrade	Project listed in 2023-2027 CIP - (Est. Completion Date: 2025)
E1912	35kV Disconnect Switches Replacement - Kershaw Substation	Project listed in 2022-2026 CIP - (Est. Completion Date: 2022)
E1805	12 kV Line Extension	Project listed in 2022-2026 CIP - (Est. Completion Date: 2022)
E1807	Relay Replacements - Kershaw Substation	Project listed in 2023-2027 CIP - (Est. Completion Date: 2023)
E1810	Lightning Arrestor Replacement	Project listed in 2023-2027 CIP - (Est. Completion Date: 2024)
E1502	Underground Distribution - UD Star Campus	Project listed in 2023-2027 CIP - (Est. Completion Date: 2027)
E0503	SCADA and Automatic Switching	Project listed in 2023-2027 CIP - (Est. Completion Date: 2024)
EEQSF	Equipment Replacement Program	Perpetual Project.

Electric Fund - Electric Department

Summary:

* as amended ** as proposed

ELECTRIC DEPARTMENT - SUMMARY	2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	2021 ACTUAL	2022 BUDGET *	2023 BUDGET **	$ DIFFERENCE FROM 2022-23	% DIFFERENCE FROM 2022-23
REVENUES								
Sale of Electricity	$ 51,257,574	$ 51,944,374	$ 50,236,347	$ 52,290,337	$ 53,996,000	$ 57,675,550	$ 3,679,550	6.8%
No. of K.W.H.'s (Thousands)	425,591	424,291	402,097	445,918	445,918	446,000	N/A	N/A
Inter-Dept. Sales	508,100	506,900	545,700	529,251	529,251	378,781	(150,470)	-28.4%
Penalties	91,298	125,605	106,420	157,939	100,000	100,000	-	0.0%
Service Fees	99,378	74,543	71,260	71,922	80,000	80,000	-	0.0%
New Services	853,486	437,110	1,086,097	1,142,795	250,000	250,000	-	0.0%
Application Fees	100,230	128,070	100,260	137,280	110,000	130,000	20,000	18.2%
Solar Revenues	73,913	37,286	36,004	59,363	37,000	37,000	-	0.0%
Other Revenues	22,156	105,261	95,413	228,482	134,500	472,500	338,000	251.3%
Interest Revenue	169,286	224,471	251,856	231,223	175,000	200,000	25,000	14.3%
Subtotal	$ 53,175,421	$ 53,583,620	$ 52,529,357	$ 54,848,592	$ 55,411,751	$ 59,323,831	$ 3,912,080	7.1%
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)	464,741	461,483	433,533	433,533	469,378	469,378	N/A	N/A
Gross Operating Revenue	$ 53,175,421	$ 53,583,620	$ 52,529,357	$ 54,848,592	$ 55,411,751	$ 59,323,831	$ 3,912,080	7.1%
OPERATING EXPENSES								
Personnel Services	$ 3,324,613	$ 3,462,234	$ 4,295,203	$ 2,599,310	$ 3,620,067	$ 3,777,750	$ 157,683	4.4%
Utility Purchases	33,547,114	31,549,199	29,267,161	30,929,837	32,230,531	35,817,690	3,587,159	11.1%
Materials and Supplies	215,348	286,865	216,996	213,179	313,844	336,800	22,956	7.3%
Contractual Services	1,862,752	1,434,585	1,540,160	1,596,895	1,925,565	1,961,474	35,909	1.9%
Other Charges	1,046,899	1,269,135	1,179,223	1,238,547	1,374,983	1,946,734	571,751	41.6%
Subtotal	$ 39,996,726	$ 38,002,018	$ 36,498,743	$ 36,577,768	$ 39,464,990	$ 43,840,448	$ 4,375,458	11.1%
Inter-Departmental Charges (net of Inter-Departmental Sales)	1,126,558	1,494,948	1,015,954	1,018,250	1,136,940	1,029,599	(107,341)	-9.4%
Total Operating Expenses	$ 41,123,284	$ 39,496,966	$ 37,514,697	$ 37,596,018	$ 40,601,930	$ 44,870,047	$ 4,268,117	10.5%
Net Operating Margin (Before Capital Costs)	**$ 12,052,137**	**$ 14,086,654**	**$ 15,014,660**	**$ 17,252,574**	**$ 14,809,821**	**$ 14,453,784**	**$ (356,037)**	**-2.4%**

CITY OF NEWARK, DELAWARE
2023 OPERATING BUDGET

Electric Fund - Electric Department

Expenditures: * as amended ** as proposed

PERSONNEL SERVICES			2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	2021 ACTUAL	2022 BUDGET *	2023 BUDGET **	$ DIFFERENCE FROM 2022-23	% DIFFERENCE FROM 2022-23
5195102	6020	Supervisory	$ 211,475	$ 219,566	$ 241,068	$ 241,377	$ 258,517	$ 272,699	$ 14,182	5.5%
5195102	6030	Engineering/Technical	297,420	301,424	370,091	382,083	412,165	454,140	41,975	10.2%
5195102	6040	Warehousing	58,056	61,617	68,979	73,333	70,915	72,991	2,076	2.9%
5195102	6080	Clerical	65,066	65,245	71,471	71,107	72,489	73,899	1,410	1.9%
5195102	6200	Line Maintenance	983,398	912,378	1,075,543	1,295,071	1,210,753	1,154,087	(56,666)	-4.7%
5195102	6580	Service Award	37,752	39,484	42,081	45,129	49,397	42,608	(6,789)	-13.7%
5195102	6590	Sick Pay	21,386	21,183	28,599	21,461	25,891	21,871	(4,020)	-15.5%
5195102	6619	Standby Pay	35,357	38,867	42,556	42,782	40,811	50,000	9,189	22.5%
5195102	6620	Overtime	141,999	237,848	303,089	200,769	145,000	236,000	91,000	62.8%
5195102	6622	Holiday Premium	699	2,837	727	801	-	800	800	100.0%
5195102	6880	Uniform Allowance	10,600	10,600	10,400	10,450	10,800	10,800	-	0.0%
5195102	6885	Device Reimbursement	5,725	5,900	5,775	5,800	6,000	6,000	-	0.0%
5195102	6920	Unemployment Comp. Ins.	6,890	7,118	7,264	6,780	7,128	6,801	(327)	-4.6%
5195102	6930	Social Security Taxes	145,958	156,768	168,403	179,709	170,415	172,965	2,550	1.5%
5195102	6940	City Pension Plan	695,008	777,382	1,284,990	(440,381)	427,671	452,560	24,889	5.8%
5195102	6941	Defined Contribution 401(a) Plan	22,360	26,077	28,180	29,422	38,976	53,937	14,961	38.4%
5195102	6950	Term Life Insurance	7,378	8,920	8,922	8,492	8,464	8,198	(266)	-3.1%
5195102	6960	Group Hospitalization Ins.	408,707	445,550	448,894	463,537	505,239	513,951	8,712	1.7%
5195102	6961	Long-Term Disability Ins.	2,997	3,882	3,987	3,228	2,555	2,500	(55)	-2.2%
5195102	6962	Dental Insurance	23,930	24,417	23,438	23,275	27,522	24,472	(3,050)	-11.1%
5195102	6963	Flexible Spending Account	173	189	110	126	63	63	-	0.0%
5195102	6965	Post-Employment Benefits	132,090	84,405	49,643	(76,739)	114,111	126,790	12,679	11.1%
5195102	6966	Retirement Health Savings Account	6,350	7,304	7,760	7,769	10,248	14,860	4,612	45.0%
5195102	6967	Emergency Room Reimbursements	2,612	2,000	2,000	2,680	3,480	3,480	-	0.0%
5195102	6968	Vision Insurance Premiums	1,227	1,273	1,233	1,249	1,457	1,278	(179)	-12.3%
TOTAL PERSONNEL SERVICES			**$ 3,324,613**	**$ 3,462,234**	**$ 4,295,203**	**$ 2,599,310**	**$ 3,620,067**	**$ 3,777,750**	**$ 157,683**	**4.4%**

CITY OF NEWARK, DELAWARE
2023 OPERATING BUDGET

Electric Fund - Electric Department

Expenditures: * as amended ** as proposed

MATERIALS AND SUPPLIES			2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	2021 ACTUAL	2022 BUDGET *	2023 BUDGET **	$ DIFFERENCE FROM 2022-23	% DIFFERENCE FROM 2022-23
5195103	7110	Safety Shoes and Supplies	$ 6,571	$ 7,425	$ 2,392	$ 5,835	$ 7,500	$ 7,500	$ -	0.0%
5195103	7130	Tools, Field Sup., & Small Eq.	34,672	33,224	35,011	38,698	40,000	40,000	-	0.0%
5195103	7131	Information Technology Supplies	3,227	18,586	-	-	8,500	5,000	(3,500)	-41.2%
5195103	7140	Uniforms	20,639	18,750	16,275	18,147	22,300	23,000	700	3.1%
5195103	7150	Office Supplies	2,949	3,496	1,744	2,134	8,500	2,600	(5,900)	-69.4%
5195103	7160	Books, Periodicals, Etc	462	166	791	272	800	800	-	0.0%
5195103	7255	Vandalism Supplies	-	-	-	-	-	2,500	2,500	100.0%
5195103	7260	Line Maintenance	98,889	136,844	127,645	112,295	136,844	145,000	8,156	6.0%
5195103	7270	Station Maintenance	26,829	30,449	17,529	18,803	31,000	31,000	-	0.0%
5195103	7271	SCADA System Maintenance Supplies	-	-	-	-	-	12,000	12,000	100.0%
5195103	7300	Machinery & Equip. Maintenance	-	18	-	-	500	500	-	0.0%
5195103	7330	Meter Testing & Repairs	150	21	-	351	2,000	2,000	-	0.0%
5195103	7350	Traffic Signal Maintenance	-	-	-	297	-	-	-	0.0%
5195103	7370	Street Light Maintenance	4,200	8,041	10,986	8,231	13,000	13,000	-	0.0%
5195103	7430	House Service Maintenance	19,461	29,423	19,228	33,559	41,000	50,000	9,000	22.0%
5195103	7480	Communication Equip. Maint.	-	5,418	-	210	500	500	-	0.0%
5195103	7540	Inventory Adjustment	(7,970)	(7,756)	(16,003)	(26,951)	-	-	-	0.0%
5195103	7550	Miscellaneous Supplies	5,269	2,760	1,398	1,298	1,400	1,400	-	0.0%
TOTAL MATERIALS AND SUPPLIES			**$ 215,348**	**$ 286,865**	**$ 216,996**	**$ 213,179**	**$ 313,844**	**$ 336,800**	**$ 22,956**	**7.3%**

CITY OF NEWARK, DELAWARE
2023 OPERATING BUDGET

Electric Fund - Electric Department

Expenditures: * as amended ** as proposed

CONTRACTUAL SERVICES			2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	2021 ACTUAL	2022 BUDGET *	2023 BUDGET **	$ DIFFERENCE FROM 2022-23	% DIFFERENCE FROM 2022-23
5195104	8010	Freight	$ 848	$ 722	$ 1,650	$ 1,216	$ 950	$ 950	$ -	0.0%
5195104	8020	Advertising	641	1,745	384	897	800	800	-	0.0%
5195104	8030	Casualty Insurance	18,083	18,613	19,926	27,660	36,994	41,081	4,087	11.0%
5195104	8031	Insurance - Property	44,008	40,028	47,622	62,932	73,305	82,026	8,721	11.9%
5195104	8032	Insurance - Auto	24,682	23,740	26,171	27,152	29,236	33,120	3,884	13.3%
5195104	8033	Insurance - Broker	8,072	8,054	8,131	6,128	5,746	6,046	300	5.2%
5195104	8035	Insurance - Worker's Compensation	-	66,080	87,195	87,421	92,800	81,200	(11,600)	-12.5%
5195104	8040	Merchant Fees and Discounts	531,696	520,238	564,920	579,672	590,000	630,000	40,000	6.8%
5195104	8045	Collection Fees	-	-	7,118	1,770	3,500	3,500	-	0.0%
5195104	8050	Phone/Communications	4,434	4,605	3,364	2,737	9,200	3,000	(6,200)	-67.4%
5195104	8120	Outside Engineering	62,430	35,660	22,856	2,400	85,000	85,000	-	0.0%
5195104	8130	Building & Equipment Rental	10,888	11,104	11,058	11,650	12,000	12,000	-	0.0%
5195104	8131	Information Technology Cont'l	143,454	156,254	228,244	220,877	241,927	254,929	13,002	5.4%
5195104	8190	Refuse Disposal	3,197	3,663	2,598	2,439	3,425	3,500	75	2.2%
5195104	8255	Vandalism Cont'l	-	-	-	-	-	2,500	2,500	100.0%
5195104	8260	Line Maintenance	38,282	62,893	60,431	69,715	60,450	65,000	4,550	7.5%
5195104	8270	Station Maintenance	40,446	25,959	20,092	47,717	73,000	50,400	(22,600)	-31.0%
5195104	8271	SCADA System Maintenance Cont'l	-	-	-	-	-	10,000	10,000	100.0%
5195104	8300	Machinery & Equip. Maintenance	4,992	4,392	5,707	7,412	8,100	9,000	900	11.1%
5195104	8311	Vehicle Accidents	(1,450)	-	-	-	-	-	-	0.0%
5195104	8312	Fleet & Facilities Services	716,786	239,348	204,929	236,538	322,478	296,825	(25,653)	-8.0%
5195104	8313	Self-Insurance Services	75	1,876	500	93	-	-	-	0.0%
5195104	8420	Tree Removal	206,555	202,639	214,905	197,272	266,254	279,567	13,313	5.0%
5195104	8480	Communication Equip. Maint.	1,115	1,291	150	450	1,200	1,200	-	0.0%
5195104	8550	Misc. Contracted Services	2,402	4,425	45	1,520	5,000	5,000	-	0.0%
5195104	8570	Public Relations	116	256	1,164	227	1,200	1,200	-	0.0%
5195104	8899	Facilities Mowing	1,000	1,000	1,000	1,000	3,000	3,630	630	21.0%
TOTAL CONTRACTUAL SERVICES			**$ 1,862,752**	**$ 1,434,585**	**$ 1,540,160**	**$ 1,596,895**	**$ 1,925,565**	**$ 1,961,474**	**$ 35,909**	**1.9%**

CITY OF NEWARK, DELAWARE
2023 OPERATING BUDGET

Electric Fund - Electric Department

Expenditures:

* as amended ** as proposed

OTHER CHARGES			2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	2021 ACTUAL	2022 BUDGET *	2023 BUDGET **	$ DIFFERENCE FROM 2022-23	% DIFFERENCE FROM 2022-23
5195105	9001	Subvention - Utility Assistance	$ -	$ 24,720	$ 25,000	$ -	$ 25,000	$ 25,000	$ -	0.0%
5195105	9002	Subvention - Aetna Hook and Ladder	-	43,464	49,422	47,147	48,400	48,400	-	0.0%
5195105	9004	Subvention - Newark Senior Center	-	52,832	44,289	46,933	55,000	55,000	-	0.0%
5195105	9010	Bad Debt Expense	129,369	277,917	218,438	132,053	101,020	82,663	(18,357)	-18.2%
5195105	9020	Mileage & Small Bus. Expense	2	127	-	54	150	150	-	0.0%
5195105	9056	Debt Serv. Prin. - Smart Meters	537,805	549,024	560,477	572,169	498,397	249,168	(249,229)	-50.0%
5195105	9057	Debt Serv. Int. - Smart Meters	82,305	71,075	59,611	47,908	36,545	28,641	(7,904)	-21.6%
5195105	9060	Depreciation Expense	201,740	206,585	190,135	183,081	252,282	357,890	105,608	41.9%
5195105	9070	Training & Continuing Educ/Conf	9,891	10,833	8,681	4,156	10,833	22,500	11,667	107.7%
5195105	9091	Solar Rebate	1,754	1,442	1,707	1,364	1,750	1,800	50	2.9%
5195105	9092	Notional Solar Cost	22,552	21,723	20,778	20,998	22,000	22,000	-	0.0%
5195105	9093	Subvention Expense	60,321	5,140	685	-	-	-	-	0.0%
5195105	9094	Conservation Advisory Committee	1,160	4,253	-	98,919	100,000	100,000	-	0.0%
5195105	9142	Debt Serv. Int. - Electric Substation (E2002)	-	-	-	-	-	730,000	730,000	100.0%
5195105	9205	Debt Serv. Prin. - (ESCO)	-	-	-	-	140,322	143,873	3,551	2.5%
5195105	9206	Debt Serv. Int. - (ESCO)	-	-	-	83,765	83,284	79,649	(3,635)	-4.4%
TOTAL OTHER CHARGES			**$ 1,046,899**	**$ 1,269,135**	**$ 1,179,223**	**$ 1,238,547**	**$ 1,374,983**	**$ 1,946,734**	**$ 571,751**	**41.6%**

* as amended ** as proposed

INTER-DEPT. CHARGES	2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	2021 ACTUAL	2022 BUDGET *	2023 BUDGET **	$ DIFFERENCE FROM 2022-23	% DIFFERENCE FROM 2022-23
Administrative Overhead	$ 700,685	$ 1,151,962	$ 739,789	$ 663,242	$ 716,955	$ 736,062	$ 19,107	2.7%
Billings and Accounting	492,026	391,988	348,530	345,908	388,638	416,649	28,011	7.2%
Electricity	(387,895)	(363,400)	(377,385)	(326,313)	(348,755)	(378,781)	(30,026)	8.6%
Information Technology	86,381	58,119	67,051	80,829	95,431	174,352	78,921	82.7%
Other Indirect Charges	(65,069)	(55,541)	(92,785)	(32,171)	(29,316)	(32,180)	(2,864)	9.8%
Printing and Reproduction	125	116	76	95	130	130	-	0.0%
Street Lights and Traffic Signals	(169,331)	(166,221)	(177,083)	(212,877)	(180,496)	(239,180)	(58,684)	32.5%
Warehousing	(38,464)	(28,975)	(37,939)	(29,714)	(34,898)	(26,234)	8,664	-24.8%
TOTAL INTER-DEPT. CHARGES	**$ 618,458**	**$ 988,048**	**$ 470,254**	**$ 488,999**	**$ 607,689**	**$ 650,818**	**$ 43,129**	**7.1%**

* as amended ** as proposed

OPERATING EXPENSES - ELECTRIC DEPARTMENT	2018 ACTUAL	2019 ACTUAL	2020 ACTUAL	2021 ACTUAL	2022 BUDGET *	2023 BUDGET **	$ DIFFERENCE FROM 2022-23	% DIFFERENCE FROM 2022-23
TOTAL OPERATING EXPENSES	**$ 7,068,070**	**$ 7,440,867**	**$ 7,701,836**	**$ 6,136,930**	**$ 7,842,148**	**$ 8,673,576**	**$ 831,428**	**10.6%**

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ELECTRIC DEPARTMENT

2023-2027 CAPITAL IMPROVEMENT PROGRAM

CITY OF NEWARK, DELAWARE
CAPITAL IMPROVEMENTS PROGRAM 2023-2027
(with current year amended budget)

ELECTRIC FUND - ELECTRIC DEPARTMENT

FUNDING SUMMARY

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 14,308,000	$ 18,295,000	$ 1,265,000	$ 515,000	$ 1,263,000	$ 35,646,000
*Prior Authorized Balance:	$ 92,894	$ -	$ -	$ -	$ -	$ 92,894
2023-2027 Funding:	$ 14,400,894	$ 18,295,000	$ 1,265,000	$ 515,000	$ 1,263,000	$ 35,738,894

*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NUMBER	PROJECT NAME	*	2022 BUDGET AS AMENDED	2023 RESERVES AND OTHER FUNDING	2023 CURRENT FUNDING	2023	2024	2025	2026	2027	TOTAL
E2301	New Lines and Services	D	$ 140,000	$ -	$ 170,000	$ 170,000	$ 170,000	$ 170,000	$ 170,000	$ 170,000	$ 850,000
E2302	Spacer Cable Replacement	D	-	-	170,000	170,000	170,000	125,000	125,000	-	590,000
E2303	Underground Cable Replacement	D	-	-	155,000	155,000	155,000	-	-	-	310,000
E2304	Meter Replacement	D	-	-	100,000	100,000	100,000	100,000	100,000	100,000	500,000
E2202	Electric Warehouse	D	-	-	200,000	200,000	1,200,000	-	-	-	1,400,000
E2204	Vehicle #110 - 3-Wheel Wire Trailer Replacement	D	130,000	-	-	-	-	-	-	-	-
E2205	Fleet addition: #117 - Small Trencher	D	50,000	-	-	-	-	-	-	-	-
E2206	Secondary Cable Replacement/ Rejuvenate at Villa Belmont	D	125,000	-	-	-	-	-	-	-	-
E2001	City Hall - Electric Vehicle Charging Station Wiring	B	92,894	592,894	-	592,894	-	-	-	-	592,894
E2002	New Substation	B	440,000	12,000,000	-	12,000,000	15,700,000	-	-	-	27,700,000
E1911	35kV Line 3402 Capacity Upgrade	D	-	-	-	-	300,000	300,000	-	-	600,000
E1912	35kV Disconnect Switches Replacement - Kershaw Substation	D	160,000	-	-	-	-	-	-	-	-
E1805	12 kV Line Extension	D	370,000	-	-	-	-	-	-	-	-
E1807	Relay Replacements - Kershaw Substation	D	50,000	-	200,000	200,000	-	-	-	-	200,000
E1810	Lightning Arrestor Replacement	D	-	-	100,000	100,000	100,000	-	-	-	200,000
E1502	Underground Distribution - UD Star Campus	D	120,000	120,000	-	120,000	120,000	120,000	120,000	120,000	600,000
E0503	SCADA and Automatic Switching	D	508,641	-	250,000	250,000	150,000	-	-	-	400,000
EEQSF	Equipment Replacement Program	D	756,350	180,004	162,996	343,000	130,000	450,000	-	873,000	1,796,000
	Total Electric Fund - Electric Department		**$ 2,942,885**	**$ 12,892,898**	**$ 1,507,996**	**$ 14,400,894**	**$ 18,295,000**	**$ 1,265,000**	**$ 515,000**	**$ 1,263,000**	**$ 35,738,894**

PLANNED FINANCING SOURCES	2022 BUDGET AS AMENDED	2023 RESERVES AND OTHER FUNDING	2023 CURRENT FUNDING	2023	2024	2025	2026	2027	TOTAL
GROSS CAPITAL IMPROVEMENTS	$ 2,942,885	$ 12,892,898	$ 1,507,996	$ 14,400,894	$ 18,295,000	$ 1,265,000	$ 515,000	$ 1,263,000	$ 35,738,894
LESS: USE OF RESERVES	(1,289,477)	(20,836)	-	(20,836)	-	-	-	-	(20,836)
VEHICLE & EQUIPMENT REPLACEMENT	(377,529)	(180,004)	-	(180,004)	(78,026)	(372,620)	-	(420,710)	(1,051,360)
GRANTS	(21,000)	(521,000)	-	(521,000)	-	-	-	-	(521,000)
BOND ISSUES	-	-	-	-	-	-	-	-	-
AMERICAN RESCUE PLAN ACT	-	-	-	-	-	-	-	-	-
OTHER FINANCING SOURCES	(221,058)	(12,171,058)	-	(12,171,058)	(16,120,000)	(420,000)	(120,000)	(120,000)	(28,951,058)
NET CAPITAL IMPROVEMENTS	$ 1,033,821	$ -	$ 1,507,996	$ 1,507,996	$ 2,096,974	$ 472,380	$ 395,000	$ 722,290	$ 5,194,640

* Justification Codes:
A - Return on Investment
B - Public Safety
C - Community Health
D - Efficiency/Other

*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E2301

PROJECT TITLE: New Lines and Services

PROJECT STATUS: Reoccurring (with no end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 170,000	$ 170,000	$ 170,000	$ 170,000	$ 170,000	$ 850,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ 170,000	$ 170,000	$ 170,000	$ 170,000	$ 170,000	$ 850,000

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

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.

§ 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:	$ 990,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ 140,000
% Complete (if underway):	14.1%
Balance to be funded[1]:	$ 850,000

[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	$ 390,000
Materials:	5195106.9760	$ 460,000
Other Contracts:		$ -
TOTAL PROJECT COST		$ 850,000

[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."

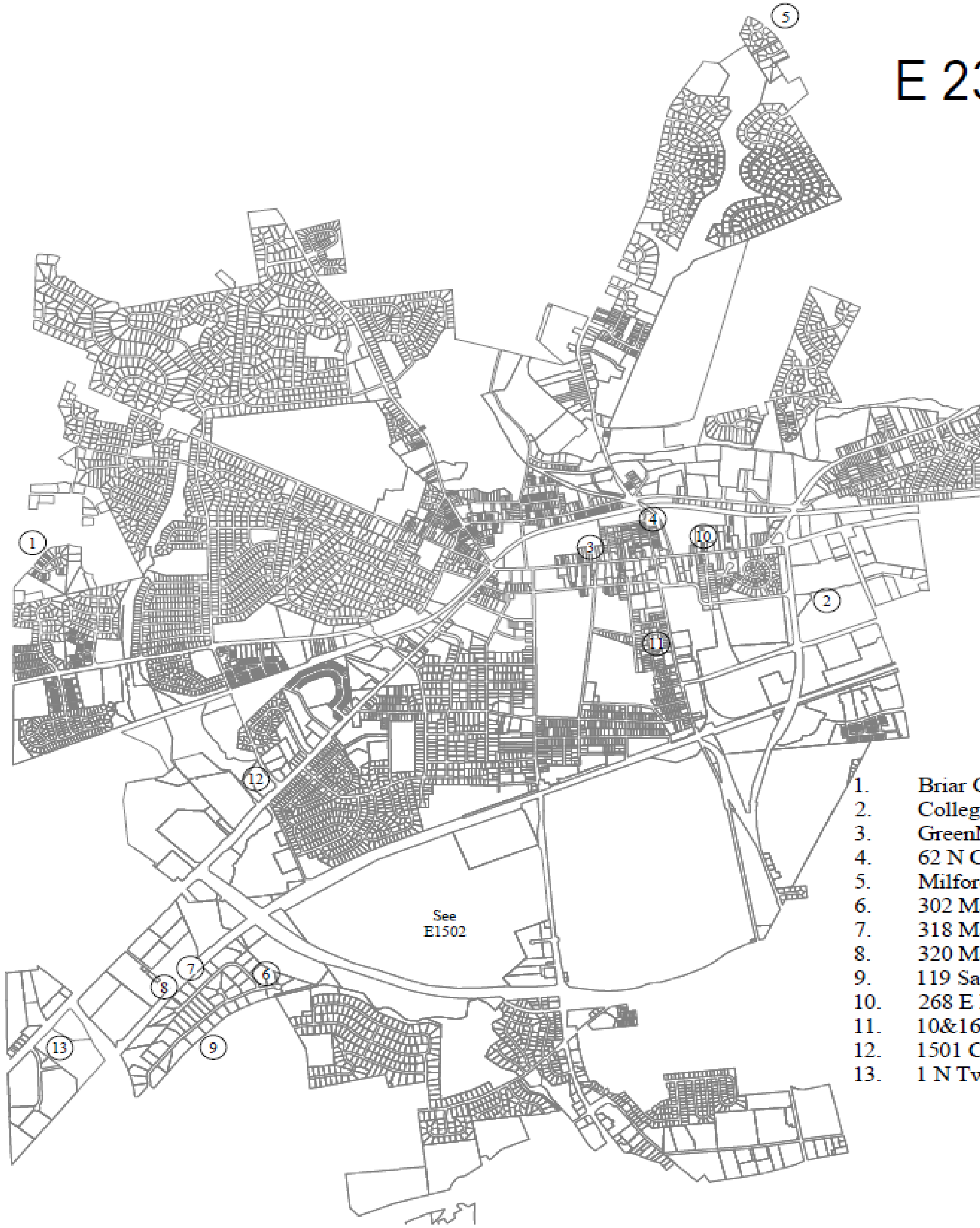
PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) **SOURCE OF FUNDS:**	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	140,000	-	140,000	$ -	170,000	170,000	170,000	170,000	170,000	$ 850,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 140,000	$ -	$ 140,000	$ -	$ 170,000	$ 170,000	$ 170,000	$ 170,000	$ 170,000	$ 850,000

§ 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET**	**OPERATING IMPACT:**	**2023**	**2024**	**2025**	**2026**	**2027**	**TOTAL**
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

E2301: New Lines and Services
Supporting Documentation - Page 1

E 2301



1. Briar Creek North
2. College Square
3. GreenMansion Hotel
4. 62 N Chapel
5. Milford Run
6. 302 Markus Ct
7. 318 Markus Ct
8. 320 Markus Ct
9. 119 Sandy Dr
10. 268 E Main St
11. 10&16 Benny St
12. 1501 Casho Mill Rd
13. 1 N Twin Lakes

*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E2302

PROJECT TITLE: Spacer Cable Replacement

PROJECT STATUS: New Project

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 170,000	$ 170,000	$ 125,000	$ 125,000	$ -	$ 590,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ 170,000	$ 170,000	$ 125,000	$ 125,000	$ -	$ 590,000

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	Electric
DIVISION:	Electric
FUND:	Electric
PROJECT LOCATION:	Along Barksdale Road from Apple Road t
PROJECT PRIORITY:	2 - High Priority Level
Critical need to remediate failing service, prevent failure, or generate savings	
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:	Sustainable Community

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

This project will replace the 12,470-volt spacer cable in our distribution system at various locations. The aerial cable is a bundled type of spacer cable which means the wires are installed close to each other. This cable has many cracks in it and has failed several times. It is proposed to replace the existing spacer cable with flat crossarm construction. The attached supporting document shows the location of the existing aerial Spacer cable.

§ 806.1(3) SUMMARY OF PROJECT DATA

First Year in Program:	2023
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	30 Yrs.
Est. Total Cost:	$ 590,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 590,000

[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	$ 317,380
Materials:	5195106.9760	$ 272,620
Other Contracts:		$ -
TOTAL PROJECT COST		$ 590,000

[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

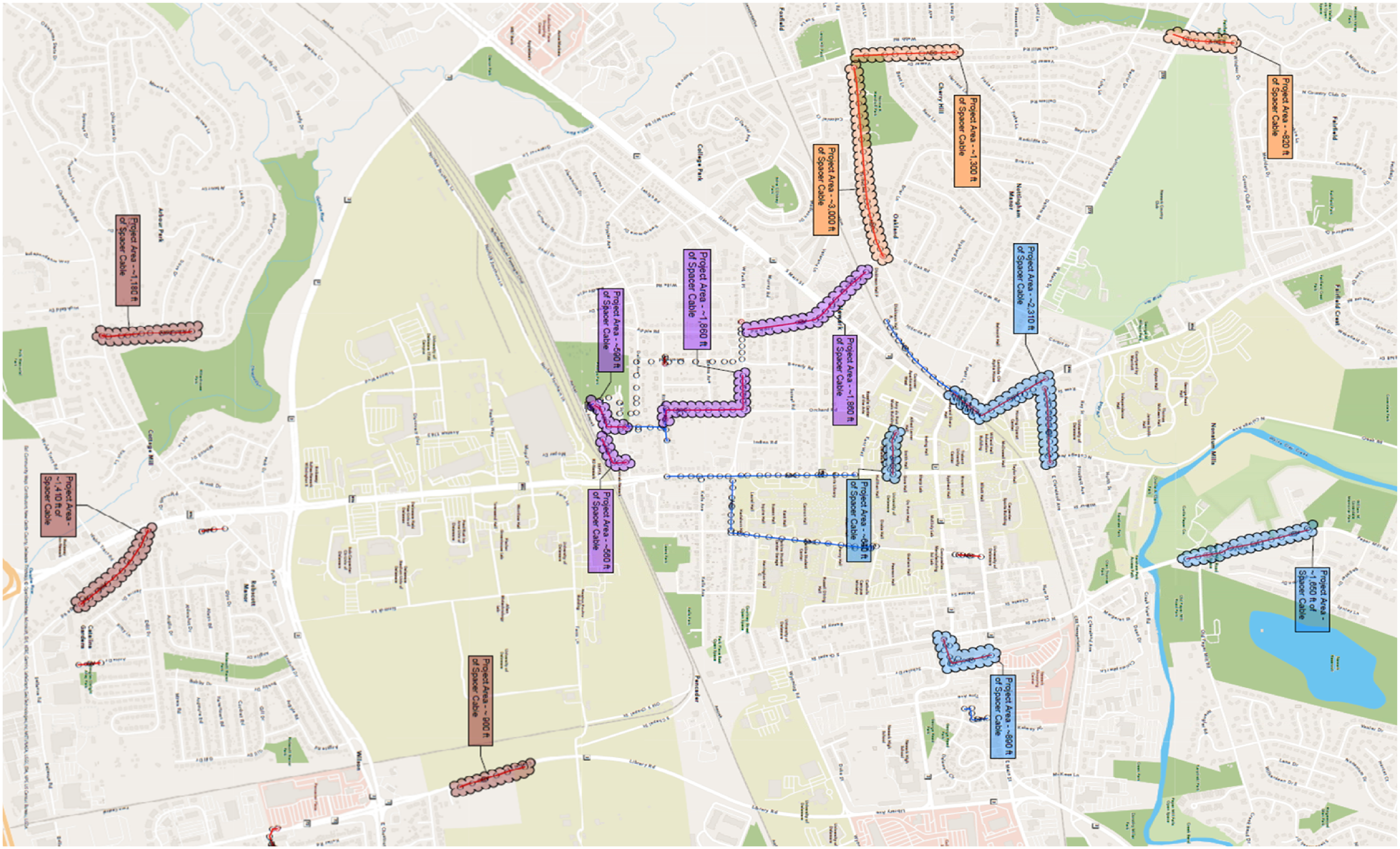
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	170,000	170,000	125,000	125,000	-	$ 590,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ -	$ -	$ -	$ -	$ 170,000	$ 170,000	$ 125,000	$ 125,000	$ -	$ 590,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

E2302: Spacer Cable Replacement

Supporting Documentation - Page 1

(Below map is horizontal for sizing and spacing purposes)



*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E2303

PROJECT TITLE: Underground Cable Replacement

PROJECT STATUS: New Project

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 155,000	$ 155,000	$ -	$ -	$ -	$ 310,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ 155,000	$ 155,000	$ -	$ -	$ -	$ 310,000

CAPITAL BUDGET - PROJECT DETAIL

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

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

This project will replace old underground 12,470 volt single phase primary cable at Devon. The underground cable at this development is very old and has many splices. It has failed several times. It is proposed the existing underground cable with new a new cable.

§ 806.1(3) SUMMARY OF PROJECT DATA

First Year in Program:	2023
Est. Completion Date:	2024
Est. Useful Life (in years):	30 Yrs.
Est. Total Cost:	$ 310,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 310,000

[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	$ 30,000
Materials:	5195106.9760	$ 40,000
Other Contracts:	5195106.9960	$ 240,000
TOTAL PROJECT COST		$ 310,000

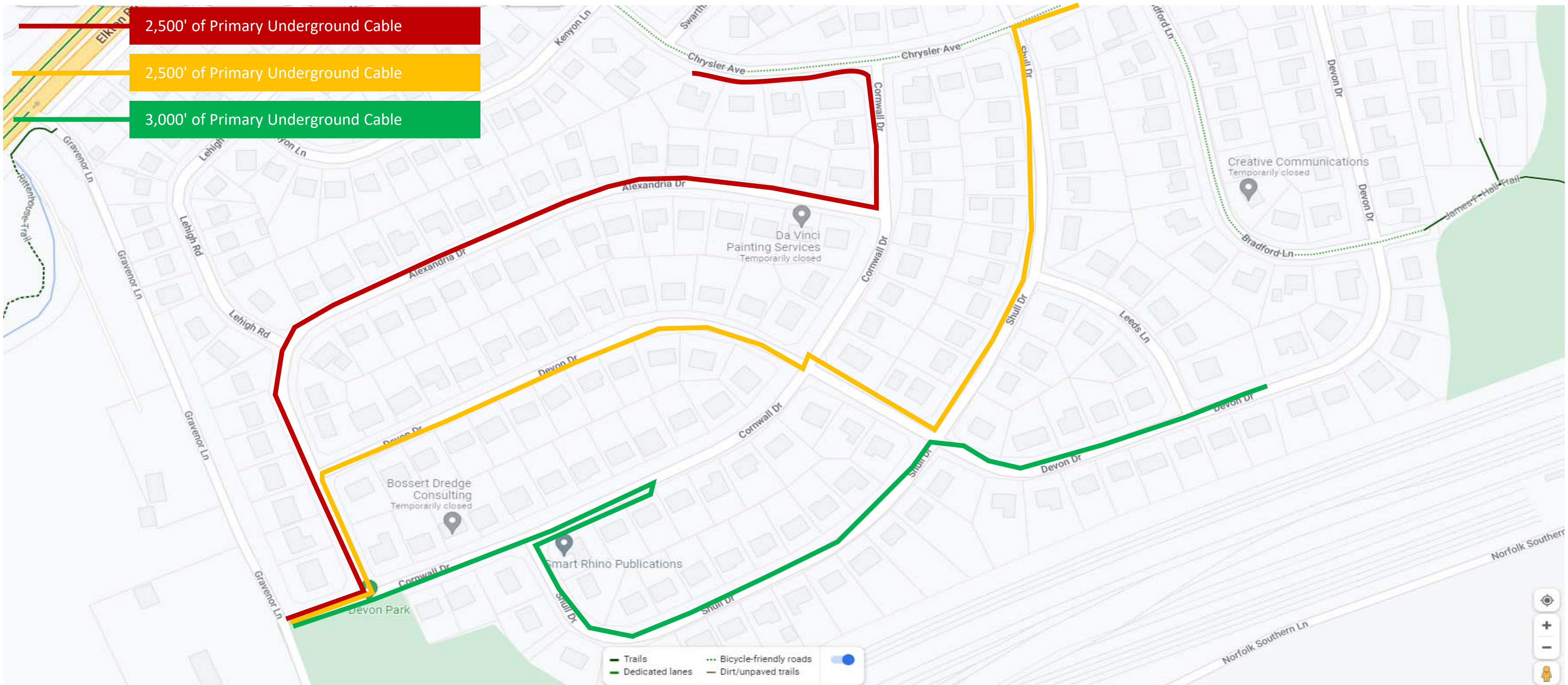
[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	155,000	155,000	-	-	-	$ 310,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ -	$ -	$ -	$ -	$ 155,000	$ 155,000	$ -	$ -	$ -	$ 310,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

E2303: Underground Cable Replacement
Supporting Documentation - Page 1



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*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E2304

PROJECT TITLE: Meter Replacement

PROJECT STATUS: New Project

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 500,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 500,000

CAPITAL BUDGET - PROJECT DETAIL

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

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

The City's electric meters will begin reaching the end of their useful lives over the next 6 years. At the moment, about out two-thirds of the City's electric meters do not have remote disconnect technology. As we begin replacing older meters, new meters will have the ability to be activated remotely, which will increase the efficiency of City staff.

§ 806.1(3) SUMMARY OF PROJECT DATA

First Year in Program:	2023
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	15-20
Est. Total Cost:	$ 500,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 500,000

[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	$ 36,000
Materials:	5195106.9760	$ 464,000
Other Contracts:		$ -
TOTAL PROJECT COST		$ 500,000

[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 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	100,000	100,000	100,000	100,000	100,000	$ 500,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ -	$ -	$ -	$ -	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 500,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E2202

PROJECT TITLE: Electric Warehouse

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 200,000	$ 1,200,000	$ -	$ -	$ -	$ 1,400,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ 200,000	$ 1,200,000	$ -	$ -	$ -	$ 1,400,000

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 a calculated risk in the deferral of this item

COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: Not Applicable

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

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 $200,000
Phase 2: Construction of Building #2 Expansion on (2024) - $1,200,000

§ 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:	$ 1,400,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 1,400,000

[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	$ 1,400,000
TOTAL PROJECT COST		$ 1,400,000

[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 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	200,000	1,200,000	-	-	-	$ 1,400,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ -	$ -	$ -	$ -	$ 200,000	$ 1,200,000	$ -	$ -	$ -	$ 1,400,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

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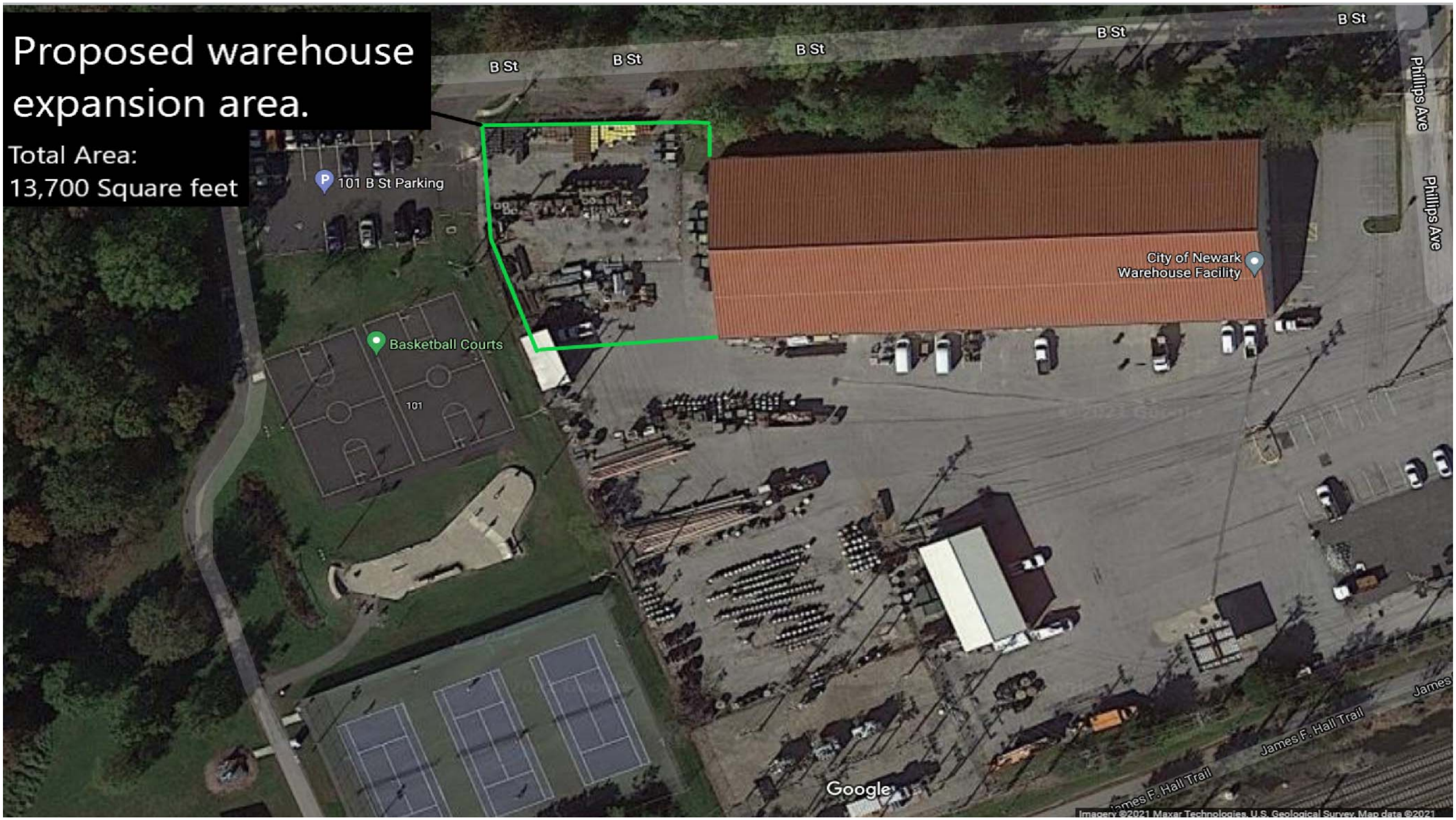
E2202: Electric Warehouse
Supporting Documentation - Page 1



*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E2204

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

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ -	$ -	$ -	$ -	$ -	$ -
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ -	$ -	$ -	$ -	$ -	$ -

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

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.

§ 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 @ 12/31/2022 (if underway)[1]:	$ 130,000
% Complete (if underway):	100.0%
Balance to be funded[1]:	$ -

[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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	130,000	-	130,000	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 130,000	$ -	$ 130,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -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1/0 SOL AL 4000'
15 KV

E2204: Vehicle #110 - 3-Wheel Wire Trailer Replacement
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E2204: Vehicle #110 - 3-Wheel Wire Trailer Replacement
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*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E2205

PROJECT TITLE: Fleet addition: #117 - Small Trencher

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ -	$ -	$ -	$ -	$ -	$ -
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ -	$ -	$ -	$ -	$ -	$ -

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 @ 12/31/2022 (if underway)[1]:	$ 50,000
% Complete (if underway):	100.0%
Balance to be funded[1]:	$ -

[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 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.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	50,000	-	50,000	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 50,000	$ -	$ 50,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E2206

PROJECT TITLE: Secondary Cable Replacement/ Rejuvenate at Villa Belmont

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ -	$ -	$ -	$ -	$ -	$ -
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ -	$ -	$ -	$ -	$ -	$ -

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 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:	2022
Est. Useful Life (in years):	45
Est. Total Cost:	$ 125,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ 125,000
% Complete (if underway):	100.0%
Balance to be funded[1]:	$ -

[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:

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.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	125,000	-	125,000	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 125,000	$ -	$ 125,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

E2206: Secondary Cable Replacement/ Rejuvenate at Villa Belmont
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E2206: Secondary Cable Replacement/ Rejuvenate at Villa Belmont
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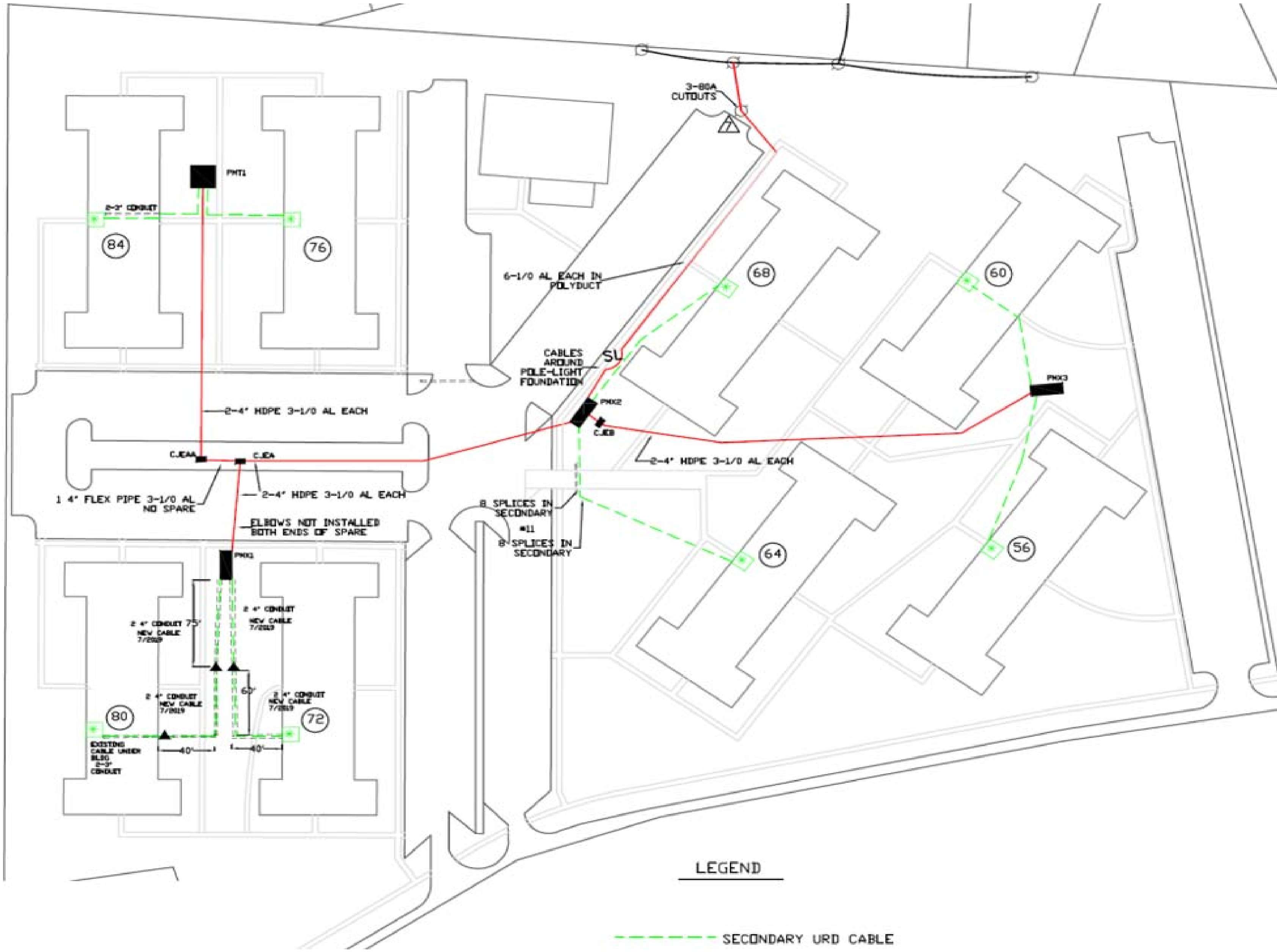

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*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E2001

PROJECT TITLE: City Hall - Electric Vehicle Charging Station Wiring

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 500,000	$ -	$ -	$ -	$ -	$ 500,000
*Prior Authorized Balance:	$ 92,894	$ -	$ -	$ -	$ -	$ 92,894
2023-2027 Funding:	$ 592,894	$ -	$ -	$ -	$ -	$ 592,894

CAPITAL BUDGET - PROJECT DETAIL

DEPARTMENT:	Electric
DIVISION:	Electric
FUND:	Electric
PROJECT LOCATION:	City Municipal Building
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 DATA

First Year in Program:	2020
Est. Completion Date:	2023
Est. Useful Life (in years):	7
Est. Total Cost:	$ 623,011
Est. Spend @ 12/31/2022 (if underway)[1]:	$ 30,117
% Complete (if underway):	4.8%
Balance to be funded[1]:	$ 592,894

[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:	6006016.9621	$ 194,800
Materials:	6006016.9621	$ 398,094
Other Contracts:		$ -
TOTAL PROJECT COST		$ 592,894

[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:

Significant grant funding is available from the Delaware Sustainable Electric Utility (DESEU) for the state's FY23 ($500,000 per municipality).

Some of the locations targeted for charging station expansion are:

- City Hall
- Lot 1
- Phillips Park
- Maintenance Yard (internal facing)
- Handloff Park
- Folk Park
- Preston's Playground/Newark Reservoir
- Kells Park
- Dickey Park
- George Wilson Center

***Please be advised this project, E2001 - City Hall - Electric Vehicle Charging Station Wiring, was previously listed under Facilities Maintenance Division as project N2001. This project was transferred and renamed to align with the new Department.**

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	20,836	-	-	$ 20,836	20,836	-	-	-	-	$ 20,836
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS DESEU Grants	21,000	-	-	$ 21,000	521,000	-	-	-	-	$ 521,000
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER Green Energy Fund	51,058	-	-	$ 51,058	51,058	-	-	-	-	$ 51,058
TOTAL:	$ 92,894	$ -	$ -	$ 92,894	$ 592,894	$ -	$ -	$ -	$ -	$ 592,894

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

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*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E2002

PROJECT TITLE: New Substation

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 12,000,000	$ 15,700,000	$ -	$ -	$ -	$ 27,700,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ 12,000,000	$ 15,700,000	$ -	$ -	$ -	$ 27,700,000

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 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:	2020
Est. Completion Date:	2024
Est. Useful Life (in years):	50
Est. Total Cost:	$ 28,140,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ 440,000
% Complete (if underway):	1.6%
Balance to be funded[1]:	$ 27,700,000

[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	$ 27,700,000
TOTAL PROJECT COST		$ 27,700,000

[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. The City utilized Sargent & Lundy's (S&L) services to perform this analysis. Based on S&L analysis, we do not have enough capacity to serve any new large loads. Based on our 2018 peak load, we have about 6 MVA capacity left when a single 100 MVA transformer feeds the distribution system.

Considering projected 2030 future system loading plus EV adoption, We have a 37.5% loading margin that remains when two of the three 100 MVA-rated Kershaw station transformers, T3, T4, and T5, supply the entire distribution system. If a single transformer (T3) feeds the entire distribution system, there is an overload of approximately 25.3%. 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.

Based on this, S&L recommends that the City consider constructing an additional 138/34.5kV/12.47kV station before 2026 to provide extra margin and to increase system reliability, especially considering the planned expansion of STAR Campus, as well as the increased adoption of EVs.

Early this year, we completed the feasibility study for this project. As part of this study, we developed the general substation arrangement plans and project schedule. Again we utilized Sargent & Lundy's (S&L) services to perform this study.

***Please be advised 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 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	440,000	-	440,000	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER DEMEC	-	-	-	$ -	12,000,000	15,700,000	-	-	-	$ 27,700,000
TOTAL:	$ 440,000	$ -	$ 440,000	$ -	$ 12,000,000	$ 15,700,000	$ -	$ -	$ -	$ 27,700,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

E2002: New Substation
Supporting Documentation - Page 1

*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E1911

PROJECT TITLE: 35kV Line 3402 Capacity Upgrade

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ -	$ 300,000	$ 300,000	$ -	$ -	$ 600,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ -	$ 300,000	$ 300,000	$ -	$ -	$ 600,000

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:	2025
Est. Useful Life (in years):	30
Est. Total Cost:	$ 600,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 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 PROJECT COST		$ 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:

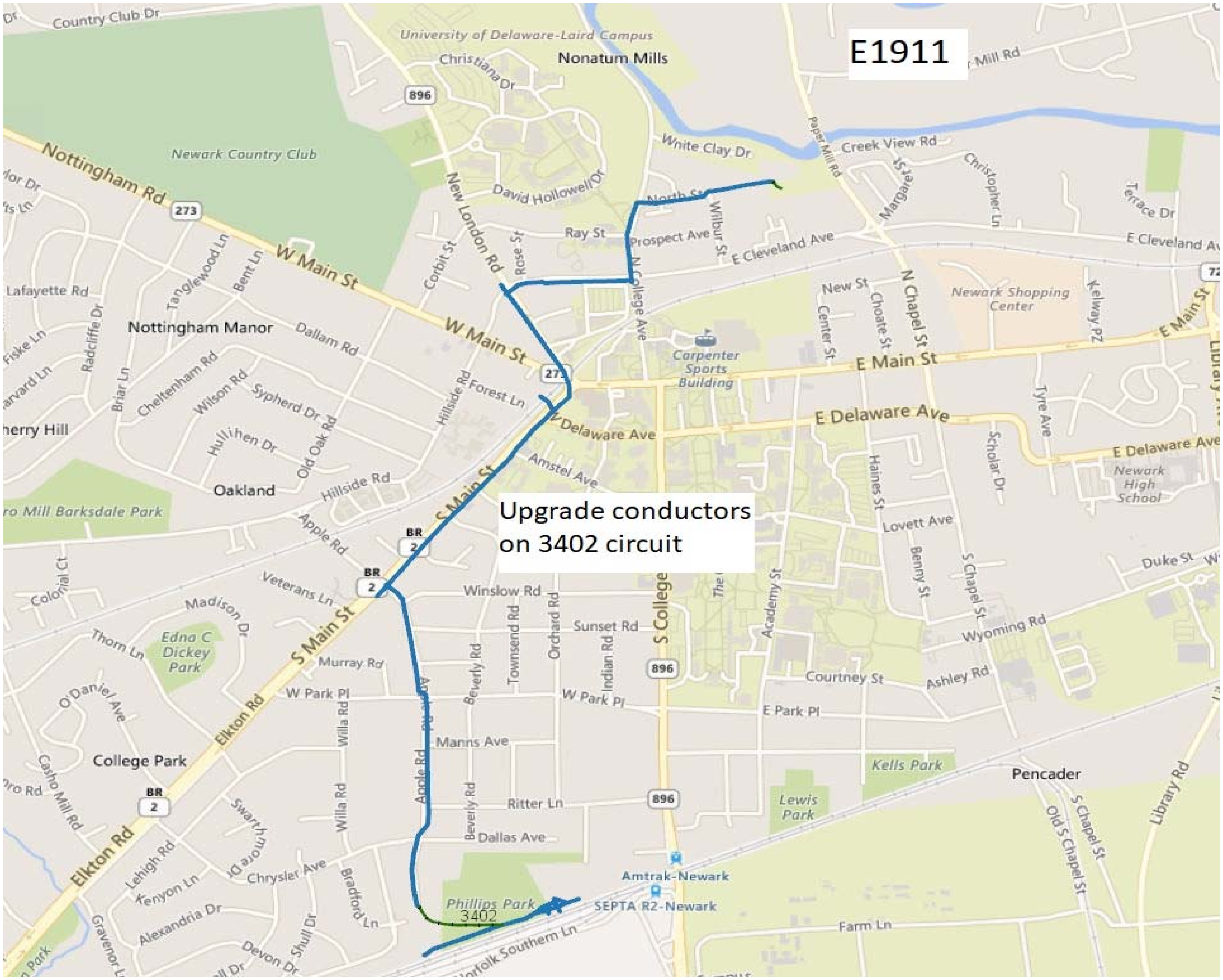
This project will upgrade the 34,000 volt aerial and underground cable to increase capacity and reliable back-up capacity to the Phillips substation, Chestnut Hill substation, Sandy Brae substation and West Main substation. This upgrade will also allow us to tie this feeder to the new substation in the future if needed.

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) **SOURCE OF FUNDS:**	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER DEMEC	-	-	-	$ -	-	300,000	300,000	-	-	$ 600,000
TOTAL:	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ 300,000	$ -	$ -	$ 600,000

§ 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET**	**OPERATING IMPACT:**	**2023**	**2024**	**2025**	**2026**	**2027**	**TOTAL**
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

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



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*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E1912

PROJECT TITLE: 35kV Disconnect Switches Replacement - Kershaw Substation

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ -	$ -	$ -	$ -	$ -	$ -
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ -	$ -	$ -	$ -	$ -	$ -

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 risk in the deferral of this item	
COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:	Sustainable Community

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

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

§ 806.1(3) SUMMARY OF PROJECT DATA

First Year in Program:	2019
Est. Completion Date:	2022
Est. Useful Life (in years):	20
Est. Total Cost:	$ 160,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ 160,000
% Complete (if underway):	100.0%
Balance to be funded[1]:	$ -

[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."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	160,000	-	160,000	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 160,000	$ -	$ 160,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E1805

PROJECT TITLE: 12 kV Line Extension

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ -	$ -	$ -	$ -	$ -	$ -
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ -	$ -	$ -	$ -	$ -	$ -

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 DEVELOPMENT PLANNING VISION ELEMENT:	Sustainable Community

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

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.

§ 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 @ 12/31/2022 (if underway)[1]:	$ 370,000
% Complete (if underway):	100.0%
Balance to be funded[1]:	$ -

[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		$ -

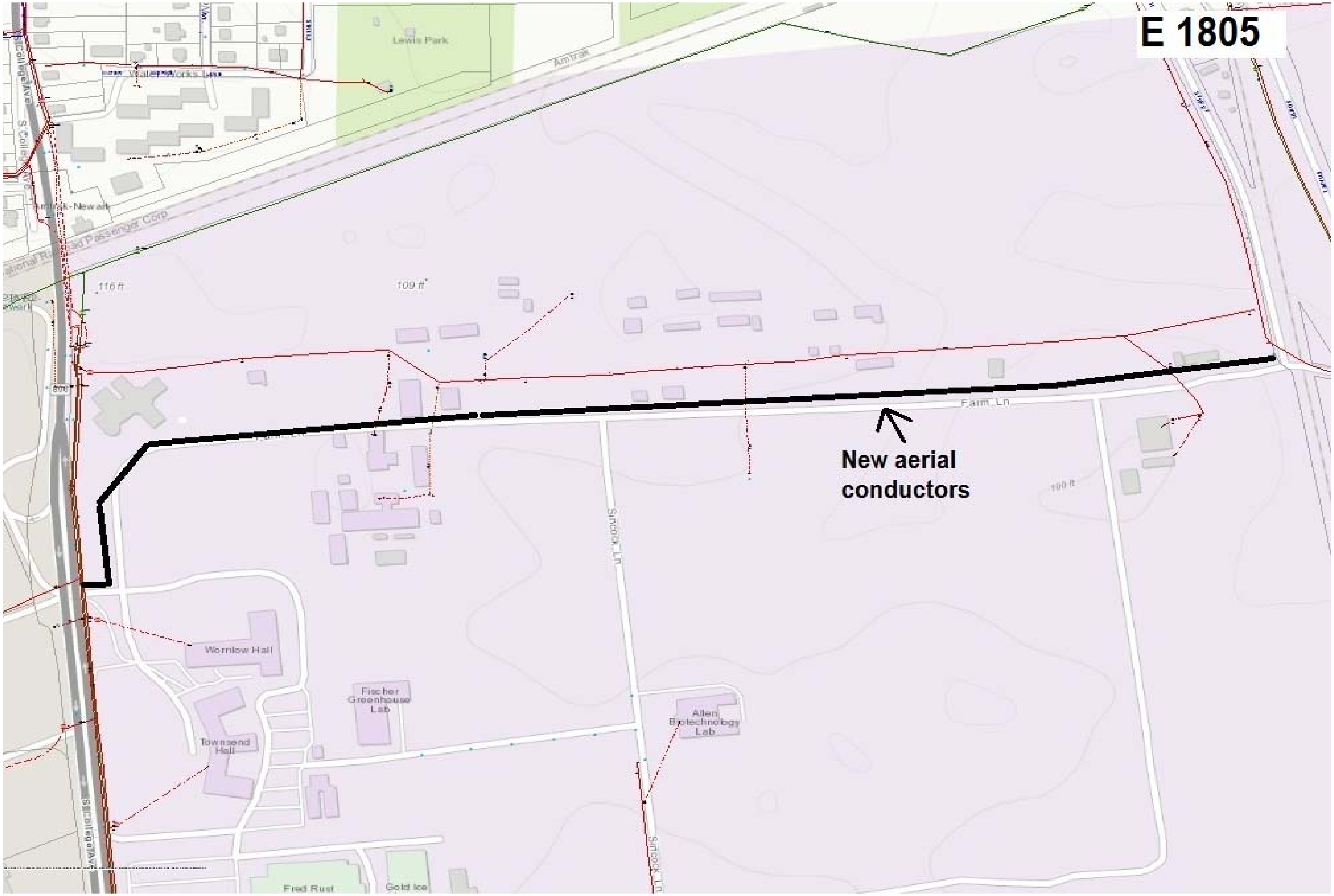
[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) **SOURCE OF FUNDS:**	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	50,000	-	50,000	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	320,000	-	320,000	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 370,000	$ -	$ 370,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -

§ 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET**	**OPERATING IMPACT:**	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

E1805: 12 kV Line Extension
Supporting Documentation - Page 1



*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E1807

PROJECT TITLE: Relay Replacements - Kershaw Substation

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 200,000	$ -	$ -	$ -	$ -	$ 200,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ 200,000	$ -	$ -	$ -	$ -	$ 200,000

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

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

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.

§ 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:	$ 250,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ 50,000
% Complete (if underway):	20.0%
Balance to be funded[1]:	$ 200,000

[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	$ 75,000
Materials:	5195106.9730	$ 125,000
Other Contracts:		$ -
TOTAL PROJECT COST		$ 200,000

[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 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	50,000	-	-	$ 50,000	200,000	-	-	-	-	$ 200,000
CAPITAL RESERVES	-	5,986	44,014	$ (50,000)	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 50,000	$ 5,986	$ 44,014	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ 200,000

§ 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET**	**OPERATING IMPACT:**	**2023**	**2024**	**2025**	**2026**	**2027**	**TOTAL**
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E1810

PROJECT TITLE: Lightning Arrestor Replacement

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 100,000	$ 100,000	$ -	$ -	$ -	$ 200,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ 100,000	$ 100,000	$ -	$ -	$ -	$ 200,000

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

COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: Sustainable Community

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.

§ 806.1(3) SUMMARY OF PROJECT DATA

First Year in Program:	2018
Est. Completion Date:	2024
Est. Useful Life (in years):	30
Est. Total Cost:	$ 200,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ -
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 200,000

[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	$ 98,000
Materials:	5195106.9760	$ 102,000
Other Contracts:		$ -
TOTAL PROJECT COST		$ 200,000

[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 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	100,000	100,000	-	-	-	$ 200,000
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ -	$ -	$ -	$ -	$ 100,000	$ 100,000	$ -	$ -	$ -	$ 200,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E1502

PROJECT TITLE: Underground Distribution - UD Star Campus

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 120,000	$ 120,000	$ 120,000	$ 120,000	$ 120,000	$ 600,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 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

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

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

§ 806.1(3) SUMMARY OF PROJECT DATA

First Year in Program:	2015
Est. Completion Date:	2027
Est. Useful Life (in years):	30
Est. Total Cost:	$ 840,000
Est. Spend @ 12/31/2022 (if underway)[1]:	$ 240,000
% Complete (if underway):	0.0%
Balance to be funded[1]:	$ 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:		$ -
Materials:		$ -
Other Contracts:	5195106.9760	$ 600,000
TOTAL PROJECT COST		$ 600,000

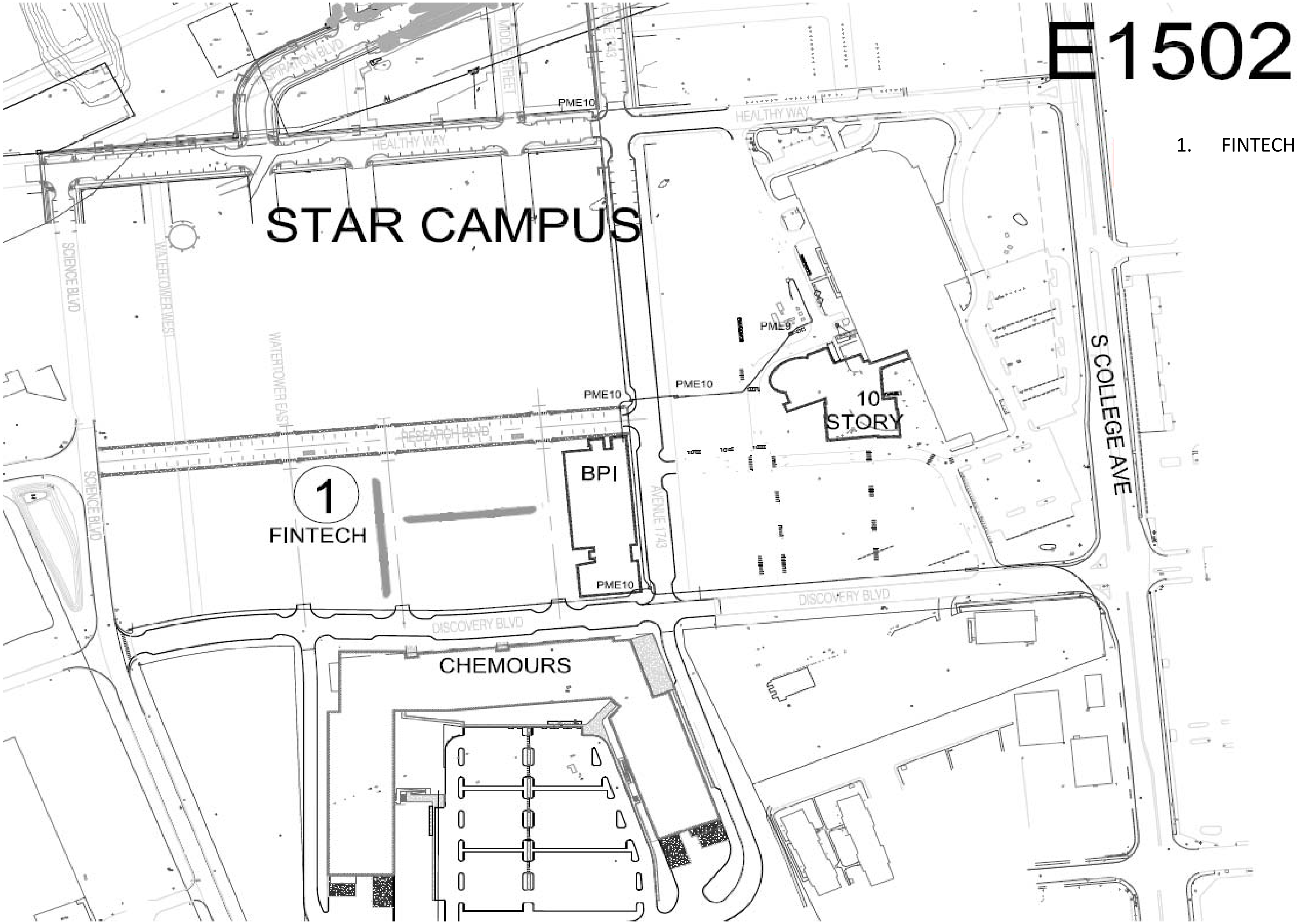
[2] Council is not required to authorize budget year funding for this portion, but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

PROJECT FINANCING BY PLAN YEAR

§ 806.1(3) **SOURCE OF FUNDS:**	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	-	-	-	-	-	$ -
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	-	-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
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 / MAINTAINING PROJECT OR ASSET**	**OPERATING IMPACT:**	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

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



1. FINTECH

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*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: E0503

PROJECT TITLE: SCADA and Automatic Switching

PROJECT STATUS: In Progress (with end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 250,000	$ 150,000	$ -	$ -	$ -	$ 400,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ 250,000	$ 150,000	$ -	$ -	$ -	$ 400,000

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

Charter § 806.1(2) DESCRIPTION & JUSTIFICATION:

This project will replace old communication devices at nine city substations. This will allow us to move the substations from our old SCADA system to the new SCADA system. This project will also replace all the older feeder and transformer protection relays at nine substations.

§ 806.1(3) SUMMARY OF PROJECT DATA

First Year in Program:	2005
Est. Completion Date:	2024
Est. Useful Life (in years):	20
Est. Total Cost:	$ 3,137,351
Est. Spend @ 12/31/2022 (if underway)[1]:	$ 2,737,351
% Complete (if underway):	87.3%
Balance to be funded[1]:	$ 400,000

[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	$ 77,200
Materials:	5195106.9760	$ 280,360
Other Contracts:	5195106.9960	$ 42,440
TOTAL PROJECT COST		$ 400,000

[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 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	-	-	-	$ -	250,000	150,000	-	-	-	$ 400,000
CAPITAL RESERVES	508,641	-	508,641	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT		-	-	$ -	-	-	-	-	-	$ -
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
TOTAL:	$ 508,641	$ -	$ 508,641	$ -	$ 250,000	$ 150,000	$ -	$ -	$ -	$ 400,000

§ 806.1(4) **ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET**	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

*Prior Authorized Balance includes 2022 carryover funding only.

PROJECT NO: EEQSF

PROJECT TITLE: Equipment Replacement Program

PROJECT STATUS: Reoccurring (with no end date)

FUNDING SUMMARY:

	2023	2024	2025	2026	2027	Total 5 Year
New Funding:	$ 343,000	$ 130,000	$ 450,000	$ -	$ 873,000	$ 1,796,000
*Prior Authorized Balance:	$ -	$ -	$ -	$ -	$ -	$ -
2023-2027 Funding:	$ 343,000	$ 130,000	$ 450,000	$ -	$ 873,000	$ 1,796,000

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 DATA

First Year in Program:	Perpetual
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	Various
Est. Total Cost:	$ 2,532,350
Est. Spend @ 12/31/2022 (if underway)[1]:	$ 756,350
% Complete (if underway):	29.9%
Balance to be funded[1]:	$ 1,776,000

[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:	5195106.9623	$ 1,776,000
TOTAL PROJECT COST		$ 1,776,000

[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:

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

Please reference the supporting documentation on the following page for the Vehicle Replacement Program Schedule (2023-2027).

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 FINANCING BY PLAN YEAR

§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized[2]	Actual Funds Utilized as of 03/31/22	Estimated Expenditures 04/01/22 - 12/31/22	Estimated Authorized Balance[2] 12/31/22	2023	2024	2025	2026	2027	TOTAL 5 Year CIP
CURRENT RESOURCES	328,821	-	-	$ 328,821	162,996	51,974	77,380	-	452,290	$ 744,640
CAPITAL RESERVES	-	-	-	$ -	-	-	-	-	-	$ -
EQUIPMENT REPLACEMENT	377,529	-	706,350	$ (328,821)	180,004	78,026	372,620	-	420,710	$ 1,051,360
GRANTS (SPECIFY)	-	-	-	$ -	-	-	-	-	-	$ -
BOND ISSUES	-	-	-	$ -	-	-	-	-	-	$ -
STATE REVOLVING LOAN	-	-	-	$ -	-	-	-	-	-	$ -
AMERICAN RESCUE PLAN ACT	-	-	-	$ -	-	-	-	-	-	$ -
OTHER (SPECIFY)	50,000	-	50,000	$ -	-	-	-	-	-	$ -
TOTAL:	$ 756,350	$ -	$ 756,350	$ -	$ 343,000	$ 130,000	$ 450,000	$ -	$ 873,000	$ 1,796,000

§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING / MAINTAINING PROJECT OR ASSET	OPERATING IMPACT:	2023	2024	2025	2026	2027	TOTAL
	INCREMENTAL COSTS (NET SAVINGS)	-	-	-	-	-	$ -

CITY OF NEWARK, DELAWARE
VEHICLE REPLACEMENT PROGRAM SCHEDULE 2023 - 2027
ELECTRIC UTILITY

VEHICLE NUMBER	DESCRIPTION		PURCHASE DATE	PURCHASE PRICE	NORMAL YEARS LIFE	NORMAL REPL YEAR	BUDGET REPL YEAR	EQUIPMENT SINKING FUND BASIS	REPLACEMENT COSTS 2023	2024	2025	2026	2027
	STAFF VEHICLES												
103	2018 Dodge Ram 2500, 4x4 Crew Cab		09/07/18	31,676	5	2024	2024	31,676		50,000			
116	2021 Nissan Leaf S Plus		05/12/21	29,710	9	2030	2030	29,710					
120	2008 Ford Focus Sedan		06/06/08	11,281	9	2017	2023	11,281	38,000				
	LINE TRUCKS												
100	1997 Int'l 4700 Stake Truck	b.	03/14/97	39,285	--	--	--	39,285					
101	2017 Int'l 4300 Bucket Truck		01/13/17	174,983	8	2025	2025	174,983			225,000		
104	2013 International 7400 Digger	a.	09/21/12	228,003	8	2020	2022	228,003					
105	2020 Freightliner M2 Class 8		10/28/19	267,258	8	2019	2027	267,258					500,000
111	2015 Sprinter 3500 Utility Versalift Vantel-29-NE		10/18/16	74,221	8	2024	2027	74,221					185,000
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	8	2025	2025	197,637			225,000		
124	2020 Int'l MV607 Versalift VN-55		04/24/20	220,644	8	2020	2028	220,644					
126	2018 Dodge Ram 2500, 4x4 Crew Cab		09/07/18	32,729	8	2018	2027	32,729					78,000
130	2013 Ford F750 Aerial Lift Bucket Truck	a.	01/14/14	176,500	8	2022	2022	176,500					
147	2015 Ford F750 Bucket Truck	a.	07/31/15	164,100	8	2023	2022	164,100					
	PICK-UPS & VANS												
129	2011 Ford 3/4 Ton Utility Body		07/02/10	27,412	10	2020	2023	27,412	50,000				
132	2008 GMC Sierra 2500 Pickup Truck		10/03/08	20,579	10	2018	2023	20,579	100,000				
145	2017 Ford F250 Super Duty Utility Body 4x4		08/11/17	37,552	10	2027	2027	37,552					90,000
	OTHER EQUIPMENT												
112	2002 Self-Loading Cable Trailer		07/26/02	8,950	25	2027	2027	8,950					20,000
113	2022 Sherman Tension Trailer		07/12/22	117,670	10	2032	2032	117,670					
117	2022 Case CX 260 Mini Excavator		07/28/22	45,617	10	2032	2032	45,617					
154	2005 Daewoo 5K Forklift		10/14/05	21,450	10	2015	2024	21,450		30,000			
155	2008 Komatsu FG45T 10K Forklift		11/30/15	24,900	10	2019	2024	24,900		50,000			
TOTAL ELECTRIC UTILITY					**GROSS ACQUISITION COST**				**$ 343,000**	**$ 130,000**	**$ 450,000**	**$ -**	**$ 873,000**
					LESS: USE OF CAPITAL RESERVES				-	-	-	-	-
					LESS: USE OF CURRENT RESOURCES				(162,996)	(51,974)	(77,380)	-	(452,290)
					NET EQUIPMENT SINKING FUND TOTAL				**$ 180,004**	**$ 78,026**	**$ 372,620**	**$ -**	**$ 420,710**

a. This vehicle is scheduled to be replaced in 2022.
b. This vehicle will not be replaced.

NEWARK
DELAWARE
Committed to Service Excellence

ELECTRIC DEPARTMENT

APPENDICES

CITY OF NEWARK, DELAWARE
ELECTRIC DEPARTMENT
APPENDIX A - OBJECT CODE 7131 AND 8131 - (2022 AND 2023 BUDGET COMPARISON)

ELECTRIC DEPARTMENT

Code	2023 IT Annual Operating Expense	Renewal	2022 Budget	2023 Budget	+/- Prior Year	Description
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	18,100.00	18,950.00	850.00	Electric Service Auto Restoration Software
8131	AutoDesk (AEC & Civil 3D) - 2 & 4 licenses - Allocated	Annual	2,625.00	2,720.00	95.00	AutoDesk Civil 3D (autocad) Software Subscription Licenses (Clients and Server)
8131	Bluebeam	Annual	-	298.00	298.00	
8131	CYME Software Annual Maintenance	Annual	11,350.00	11,651.52	301.52	Electric Outage Simulation Software
8131	Esri Small Government ELA - Allocated	Annual	5,000.00	5,500.00	500.00	GIS Server, Client, Cloud Licensing
8131	Harris - Smartworks - Oracle Database Tuning - Allocated	Annual	8,935.87	8,936.00	0.13	Smart-Meter System - Proactive Oracle Database Maintenance
8131	Harris - Smartworks Software Maintenance - Allocated	Annual	14,621.33	15,352.00	730.67	Smart-Meter System (Middleware)
8131	Harris - NorthStar Annual Maintenance - Allocated	Annual	40,058.71	42,061.66	2,002.95	Utility Billing Software (including Smart-Meter System)
8131	Honeywell Software Maintenance - Connexo Allocated	Annual	15,592.00	22,050.00	6,458.00	Smart-Meter System (Radio Infrastructure) & FieldSense
8131	Oracle Software Subscription Renewal (Not Harris) - Allocated	Annual	2,587.60	-	(2,587.60)	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	1,200.00	200.00	Electrical Engineering Utility Weight and Span Software
8131	Scada System Licensing Maintenance	Annual	53,400.00	57,553.15	4,153.15	Electric SCADA HMI and Device Licenses
8131	Tropos Software Maintenance - Allocated	Annual	31,500.00	31,500.00	-	Smart-Meter System (Wireless Infrastructure)
8131	Tyler Technologies Munis Annual Maintenance - Allocated	Annual	8,856.36	8,856.36	-	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	16,200.00	16,200.00	-	Computer Mobile Internet Connectivity
8131	VOIP Networks - Cloud9 VOIP Subscription - Allocated	Monthly	3,500.00	3,500.00	-	VOIP Phone System
	7131 and 8131 Subtotals:		*250,426.87*	*259,928.69*	*9,501.82*	
			$ 250,427.00	**$ 259,929.00**	**$ 9,502.00**	
	7131 Subtotal:		*8,500.00*	*5,000.00*	*(3,500.00)*	
	8131 Subtotal:		*241,927.00*	*254,929.00*	*13,002.00*	