CITY OF NEWARK

					A3 OF A00031 30, 2021						
								BUDGE	YEAR		
	PROJECT		BUDGET								
#	#	DEPARTMENT	HEARING	TITLE	DIVISION	ELIGIBILITY DETERMINATION	2021	2022	2023	2024	TOTAL
	"		DATE								
1_	W1503	PWWR	9/13/2021	Academy Street Interconnection Pump Station	Water	Infrastructure	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000
2	W9308	PWWR	9/13/2021	Water Main Replacement Program	Water	Infrastructure	<u> </u>	2,000,000	2,000,000	2,000,000	6,000,000
3_	Q2201	PWWR	9/13/2021	Outfall and City Owned SWM Facility Repair	Stormwater	Infrastructure	<u> </u>	300,000	300,000	400,000	1,000,000
4	S0904	PWWR	9/13/2021	Sanitary Sewer Study and Repairs	Sewer	Infrastructure	⊥		2,000,000	2,000,000	4,000,000
5	K2202	Parks & Recreation	8/30/2021	Dickey Park Improvements	Parks & Recreation	Revenue Replacement	⊥		50,000	400,000	450,000
6	K2003	Parks & Recreation	8/30/2021	Handloff Park Trail	Parks & Recreation	Revenue Replacement	⊥		200,000		200,000
7	K1301	Parks & Recreation	8/30/2021	Hard Surface Facilities Improvements	Parks & Recreation	Revenue Replacement	⊥	65,000			65,000
8	K1203	Parks & Recreation	8/30/2021	Old Paper Mill Park Improvements	Parks & Recreation	Revenue Replacement	<u> </u>	1,500,000			1,500,000
9	B2201	Planning & Development	8/30/2021	EnerGov Civic Services Software	Code Enforcement	Revenue Replacement	⊥	644,335			644,335
10	12201	Finance	9/20/2021	Network Enhancement Project	Information Technology	Revenue Replacement	1	205,000			205,000
11	12202	Finance	9/20/2021	Remote Access System	Information Technology	Revenue Replacement	⊥	140,000			140,000
12	12203	Finance	9/20/2021	Virtual Environment Upgrade	Information Technology	Revenue Replacement	<u> </u>	183,000			183,000
13	12204	Finance	9/20/2021	Data Protection	Information Technology	Revenue Replacement	⊥	175,000	100,000		275,000
14	12205	Finance	9/20/2021	Tropos Mesh Network Replacement	Information Technology	Revenue Replacement	<u> </u>	1,300,000			1,300,000
15	12206	Finance	9/20/2021	Upgrade Server OS and Migrate Applications to New Server	Information Technology	Revenue Replacement		52,155	-	-	52,155
16	12207	Finance	9/20/2021	Virtualize MDM Server and Migrate Database from Oracle to Postgres	Information Technology	Revenue Replacement		50,000	-	-	50,000
17	N2201	Administration	8/30/2021	City Hall Access Safety and Security Upgrades	Facilities Maintenance	Revenue Replacement		145,000	-	-	145,000
18	N2002	Administration	8/30/2021	City Hall - Carpet and Lobby Floor Upgrades	Facilities Maintenance	Revenue Replacement	I	50,000	40,000	-	90,000
19	N1803	Administration	8/30/2021	Exterior Paint and Powerwash	Facilities Maintenance	Revenue Replacement		100,000	-	-	100,000
20	n/a	Administration		Operating Expenses related to Covid*	All	Covid19	100,000				100,000
21	12101	Finance		Council Chambers Audio Visual Upgrade*	Information Technology	Covid19	60,000		-	-	60,000
22	n/a	Administration		Employee Covid Vaccination Incentive*	Administration	ARPA	30,000				30,000
23	n/a	Planning & Development		Two additional Planner Positions*	Planning & Development	ARPA	86,000	178,000	188,680		452,680
							\$ 276,000	\$ 7,087,490	\$ 4,878,680	\$ 5,100,000	\$ 17,342,170

^{*} Approved by City Council in 2021.

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#	PROJECT #	TITLE	ELIGIBILITY DETERMINATION	2021 2022	2 20	023	2024	TOTAL	DESCRIPTION & JUSTIFICATION			
1	W1503	Academy Street Interconnection Pump Station	Infrastructure	\$	- \$	- \$	300,000		The City of Newark's drinking water currently comes from one of three sources, the Newark Water Treatment Plant (NWTP), South Well Field (SWF), and interconnections with Suez (formerly United Water) and Artesian Water Companies. If we were to have a long term outage at the NWTP (plant maintenance or failure resulting in NWTP being fully or partially offline for several days), SWF will be unable to keep up with demand, requiring the purchase of water from either Suez or Artesian. NWTP can typically keep up with demand if SWF were to be out of service but may require water purchases if the SWF were to fail during the peak season. Our last need to purchase water was in 2014, during which the old pumps at the interconnection failed, requiring significant repairs. Our interconnection with Suez, located at the intersection of Academy Street and Waterworks Lane, is the existing interconnection location best suited to serve as the backup supply for the NWTP. This project scope was modified in 2017 and beyond due to the relocation of the interconnection because of a relocation of the Suez water interconnection location to the south side of the railroad tracks due to the construction of the new Newark Train Station. The new location features standpipes and valves to which we will connect a portable pump on a temporary basis if the need for water purchases arises. We have an on-call availability agreement with a pump manufacturer to be able to have this interconnection up and running within 24 hours. The planning for the out years contemplates a permanent building and pumps or self contained pump package similar to recent upgrades at the Northwest Booster Station and the Arbour Park Booster Station. 2023 funding includes design and permitting followed by construction. Funding is also needed for the eventual decommisioning and repurposing of the existing pump building on Academy Street and Waterworks Lane. It is adjacent to Lewis Park and the James F. Hall Trail, which positions it well for some type of concession, bathr			
2	W9308	Water Main Replacement Program	Infrastructure	2,000	0,000 2,0	000,000	2,000,000	6,000,000	Ductile and cast iron water mains have an expected lifespan of between 75 and 100 years and make up over 95% of our distribution network. There are a large number of water mains in Newark's system that are either approaching the end of their expected lifespan or have experienced a higher than normal rate of failure (main breaks). In order to properly replace mains with a 100 year lifespan, we should be replacing 1% per year, assuming an even distribution of pipe age. Estimated pricing for replacement of 6" water main was \$240 per foot which means that in order to sustainably manage our distribution network, we should be spending a minimum of \$1,500,000 per year. Although our system was not constructed uniformly over the last 100 years, we use this assumption for budgeting purposes. This project involves either replacing mains or lining the interior to minimize main breaks, improve water quality, and improve fire flow. Due to the Main Street Improvements and Covid-related delays, the East Park work that was contemplated in 2018 and 2019 will be completed in 2022, along with the continuation on the upgraded main in Dallam Road. We have identified segments to be rehabilitated or replaced over the course of this CIP and intend to evaluate several emerging conditions assessment technologies to help guide the decision process for the segments to address in the out-years. Total of \$4,000,000 approved by 2018 referendum. \$1,000,000 loan closed in 2019, with work completed in 2020. \$2,000,000 loan closed in 2020 and work scheduled to be awarded in 2021 and complete in 2022. Total referendum spending for this project was reduced to \$3,000,000 due to SWF supplemental \$1mm approved in July 2020. 2022 Update: Anticipated ARPA funding is included in 2022, 2023 and 2024 APRA Funding Line. SRF Funding was used for SWF Supplemental, therefore, after 2021 encumberence, no SRF funding will be available for water in 2022 (we will have spent \$3mm) Total ARPA Water funding requested will be \$6mm.			
3	Q2201	Outfall and City Owned SWM Facility Repair	Infrastructure	300	0,000 3	300,000	400,000	1,000,000	City owned stormwater facilities and outfalls need rehabilitation per annual inspections. Most major repairs are outside of the scope of in house crew capabilities. This funding can also be used to repair Home Owner Association-owned facilities prior to take over by the City for long term maintenance.			

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#	PROJECT #	TITLE	ELIGIBILITY DETERMINATION	2021	2022	2023	2024	TOTAL	DESCRIPTION & JUSTIFICATION
4	S0904	Sanitary Sewer Study and Repairs	Infrastructure		-	2,000,000	2,000,000	4,000,000	This project affords the continuation of our cleaning and investigation of the condition of the sanitary sewer system and will result in recommendations for repair. To date we have inspected approximately 10 miles of the 95 miles of sanitary sewer main in our system. Using results from 10 miles of inspections we have identified and prioritized approximately \$2,600,000 worth of necessary repairs. To date our inspections have been prioritized based on line size and backup history. As part of the ongoing sanitary sewer master plan project we have completed sanitary sewer flow monitoring in the Christina Basin and the White Clay Basin largely paid for by grant funds throught the State Revolving Loan Fund. This flow monitoring will allow us to target inspections on those areas where we are experiencing the most rainfall derived inflow and infiltration (RDII) which is a good indicator of structural damage in pipes. (rainfall can get into the pipes through cracks and holes). This will allow for a more targeted, data driven approach to investigations. The flow monitoring has also been used for a capacity model that will allow us to target select lines for capacity increases when performing rehabilitation efforts. Completed 8 point repairs and nearly 10,000 linear feet of pipe lining (in progress) in 2021. Referendum and State Revolving Loan Funding was approved over a 3 year period totaling \$3,900,000. Closed on \$1,300,000 loan in 2019. Closed on \$2.6mm loan in 2021. Spending can be spread until 2022 as shown in previous budget to continue the inspection and rehabilitation of the targeted segments.
5	K2202	Dickey Park Improvements	Revenue Replacement		-	50,000	400,000	450,000	Edna C. Dickey Park is located at 60 Madison Drive, Newark, Delaware. Constructed in 1963, Dickey Park is located off Madison Drive and Thorn Lane and is comprised of 8.2 acres. The park needs to be updated to meet with current trends including a paved walking trail around the park, updating the pavilions and handicap accessible pathways throughout the park. The park is one of our most active parks with many youth and adults utilizing the amenities.
6	K2003	Handloff Park Trail	Revenue Replacement		-	200,000	-	200,000	Install a walking trail around Handloff Park. We are proposing a crush and run trail. Trails are the most used amenities based on current data and Newark is an active community with a history of thousands of trail users each year.
7	K1301	Hard Surface Facilities Improvements	Revenue Replacement		65,000	-	-	65,000	The city's inventory of hard surface facilities, such as multi-purpose courts, street hockey courts, tennis courts, parking lots, hard surface trails, basketball courts, etc. are evaluated each year and scheduled for periodic replacement, upgrades and/or resurfacing. 2021 projects scheduled to be completed include the Fairfield Tennis Courts resurfacing, Fairfield Basketball Court asphalt overlay and Fairfield parking lot asphalt overlay.

					BUDGET	YEAR		1	AS OF AUGUST 27, 2021				
#	PROJECT #	TITLE	ELIGIBILITY DETERMINATION	2021	2022	2023	2024	TOTAL	DESCRIPTION & JUSTIFICATION				
8	K1203	Old Paper Mill Park Improvements	Revenue Replacement		1,500,000	-	-	1,500,000	A master plan for this project was completed in 2011, an updated plan will need to be developed. To complete the work tasks associated with the redevelopment of the park, JMT will perform the following tasks: Task 1: Project Management and Coordination Task 2: Updated Site Plan & Conceptual Stormwater Management Design Task 3: Public Meeting Update Task 4: Park and Recreation Plans and Specifications Scope of consultant services include Project Administration, Contract Administration, Information and field assistance, JMT field activity Realistic timeline: Design and engineering completed spring 2022 Park construction to begin winter 2022 Park opening fall 2023				
9	B2201	EnerGov Civic Services Software	Revenue Replacement		644,335	-	-	644,335	EnerGov Civic Services Software From planning, permitting, and licensing to asset management and citizen requests, our industry-leading EnerGov platform uses GIS to automate and connect critical processes, streamline workflow, improve communication, and increase productivity from desk to field. EnerGov Community Development software automates your governmental operations in land use planning, permitting, enforcement case management, and inspections. From your office computer or a screen in the field, the multi-dimensional building permitting software expedites planning, review, and enforcement. Mobility functionality saves processing time and benefits the stakeholders, citizens, agency, and bottom line.				
10	12201	Network Enhancement Project	Revenue Replacement		205,000	-	-	205,000	Replace aged equipment and build additional redundancy in to the city's network. The proposed solution would replace the network spine, the server core, municipal user core and the police user core.				
11	12202	Remote Access System	Revenue Replacement		140,000	-	-	140,000	The city currently maintains two separate VPN solutions due to incompatibilities between some line of business applications and our primary VPN. This tends to create confusion among our users and additional workload for the IT staff. The proposed solution would consolidate the service to a single solution provided by NetMotion.				
12	12203	Virtual Environment Upgrade	Revenue Replacement		183,000	-	-	183,000	Transition from Microsoft's Hyper-V to VMware allowing for better integration with the rest of the Dell product and services stack. As a result, workloads will be more portable and therefore more resilient. The proposed solution includes a Dell VxRail E560F with 4 nodes running production workloads and 2 nodes dedicated to disaster recovery. Along with 2 Dell PowerEdge R540 servers. This system is built entirely on flash storage.				
13	12204	Data Protection	Revenue Replacement		175,000	100,000	-	275,000	Transition our backup and recovery systems to modern services, applications and hardware specifically designed to aid in recovery from malicious actors as well as hardware failure. The recommended solution includes two Dell 48TB DP4400 appliances as well as a 36TB Cyber Recovery Environment.				
14	12205	Tropos Mesh Network Replacement	Revenue Replacement		1,300,000	-	-	1,300,000	Our current fleet of mesh radios and routers are scheduled to reach the end of their service life on June 30, 2023. These devices provide the backhaul for smart meter data to city hall. A replacement for that backhaul needs to be researched, identified and implemented before the end of service date. We intend to use the expanded city wide fiber network to accommodate that data though gaps in coverage are likely. We will need to develop another strategy for those gaps.				

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#	PROJECT #	TITLE	ELIGIBILITY DETERMINATION	2021	2022	2023	2024	TOTAL DESCRIPTION & JUSTIFICATION
15	12206	Upgrade Server OS and Migrate Applications to New Server	Revenue Replacement		52,155	-	-	The City will be upgrading the operating system on two application and one database server from 2012R2 to 2019. The current OS will be end of life in 2023. This upgrade will require technical assistance from the vendor to migration the Northstar CIS, mCare, eDocs and SQL to the new servers. The vendor will: Backup the database from the existing production server. Restore backup and configure database access to new application server. Install Northstar CIS on new server. Install Northstar CIS on new server and redirect to new Northstar CIS server. Install Mcare V6 and eDocs on new server and redirect to new Northstar CIS server. Perform installation sanity testing prior to turning the system over to the City for validation. Provide dedicated support during migration testing. Perform go live cut over. Redirect CustomerConenct to new Northstar server upon go live. Create Northstar, mCare and eDocs TEST instances on new TEST servers. Provide post live support for ten (10) business days.
16	12207	Virtualize MDM Server and Migrate Database from Oracle to Postgres	Revenue Replacement		50,000	-	-	Our meter data management application is currently running on an aged physical server. The City would like to move from a phyisical to a virtual environment for this server. We would also like to migrate the database from Oracle to Postgres. The move from physical to virtual will save the City on our current server extended warranty as well as oracle support and licensing fees.
17	N2201	City Hall Access Safety and Security Upgrades	Revenue Replacement		145,000	-	-	As part of the roofing work completed through the ESCO project, STES identified substantial structural issues with the Municipal Complex's semi-circular structure at the atrium entryway. Specifically, the roof crumbled under the roofers' feet and visible signs of rust and water damage were identified. Upon review of documentation at City Hall, nothing was found related to the original build of the structure, so no further work was done for the structure due to unknown safety and building concerns. Through RFP 16-06, JMT reviewed the structure and took photos inside the structure using a GoPro camera. They found numerous water-related and joint separation issues. JMT recommended demolishing the structure due to the safety issues and unknowns due to lack of proper documentation. To save money for the rebuild, the recommended replacement structure is to be a prefabricated fabric canopy as opposed to a brick structure. Prices are based on JMT's report and increasing costs for material. Due to the safety issues associated with this project, this project is placed for 2022. Staff is hopeful to use ARPA funding for the project. 145,000 In addition to the structural issue, several internal safety upgrades should be made to protect the building, staff, customers, and other residents. This includes adding metal detector(s) to the atrium lobby and/or Court lobby, creating a permanent workstation for the bailiffs in the atrium, a second set of entry doors, and floor replacements throughout the atrium and City Hall lobby. Phase 1: Demo of standing semi-circular entryway structure - Estimate \$50,000 Phase 2: Installation of prefabicated entryway awning and second set of door - Estimate \$115,000 Phase 3: Installation of prefabicated entryway awning and second set of door - Estimate \$15,000 Phase 3: Installation of prefabicated entryway awning and second set of door - Estimate \$20,000 Phase 5: Front lobby floor tile upgrades (PD, atrium, PUBs) - Estimate \$20,000

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18	N2002	City Hall - Carpet and Lobby Floor Upgrades	Revenue Replacement		50,000	40,000	-	90,000	Much of the carpeting at City Municipal Center and the Parking Office downtown is in need of replacement. Since carpeting in areas frequently visited by the public are a priority over lesser seen spaces in Municipal offices, the following phases outline the best way to proceed: Phase 1 (2020): Parking Office - Estimate \$3,000 (completed through inclusion in Parking Office move) Phase 2 (2022): 1st-floor of City Hall (carpet) - Estimate \$20,000* & 2nd-floor of City Hall - Estimate \$30,000 Phase 3 (2023): Newark Police Department - Estimate \$40,000 *Excludes Inspectors' area (fairly new carpeting) and City Council Chambers (previously included in capital project N1702) that was removed from the budget per council in 2019.			
19	N1803	Exterior Paint and Powerwash	Revenue Replacement		100,000	-	-	100,000	City Hall and NPD buildings are in need of a thorough cleaning and painting of the metal cornice surround at the top of each building. These projects constitute a need to maintain our existing building, and are not considered upgrades or consmetic improvements. In years past, these types of projects were disregarded due to cost and budget, however time has caught up with us and the brick is in need of a cleaning and rusted metal is in need of protective paint. Pushed back from 2021 to 2022 to allow for revenues to restabilize. Cost estimate increased to account for pricing increases over time and based on previously authorized similar work at George Wilson Center.			
20	n/a	Operating Expenses related to Covid	Covid19	100,000				100,000	Reimburesment for Covid-related operating expenses. 06/14/2021 https://newarkde.gov/DocumentCenter/View/14899/2J			
21	I2101	Counci Chambers Audio Visual Upgrade*	Covid19	60,000				60,000	Council chambers AV upgrade will allow the City to conduct meetings within the Council Chambers, providing citizens the option to attend in either in person or virtually. The current system does not allow for the proper recordation of meetings with an audience that is participating BOTH remotely and in person. The new system will also have recording benefits not previously available (presentation with speaker), and also provide real-time subtitles of all who are speaking during the meeting, allowing our hearing impaired attendees to participate. The new AV system will run on the Microsoft TEAMS platform. Already approved by Council.			
22	n/a			30,000				30,000	https://newarkde.gov/DocumentCenter/View/15097/2D			

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#	PROJECT #	TITLE	ELIGIBILITY DETERMINATION	2021	2022	2023	2024	TOTAL	DESCRIPTION & JUSTIFICATION
23	s n/a	Two additional Planner positions		86,000	178,000	188,680			https://newarkde.gov/DocumentCenter/View/14944/5B-5C-5D
				\$ 276,000	\$ 7,087,490	\$ 4,878,680	\$ 5,100,000	\$ 17,342,170	

^{*} Approved by City Council in 2021.