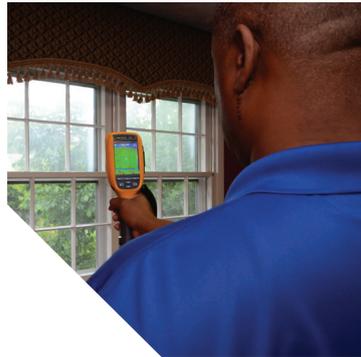


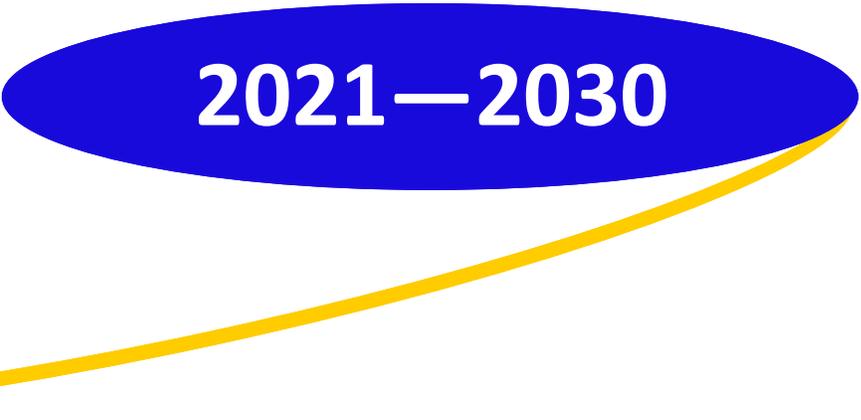
Service Strong



Capital Improvement Program 2021-2030

Fayetteville Public Works Commission





2021—2030

Capital Improvement Program

Commissioners

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Wade Fowler, Vice Chairman
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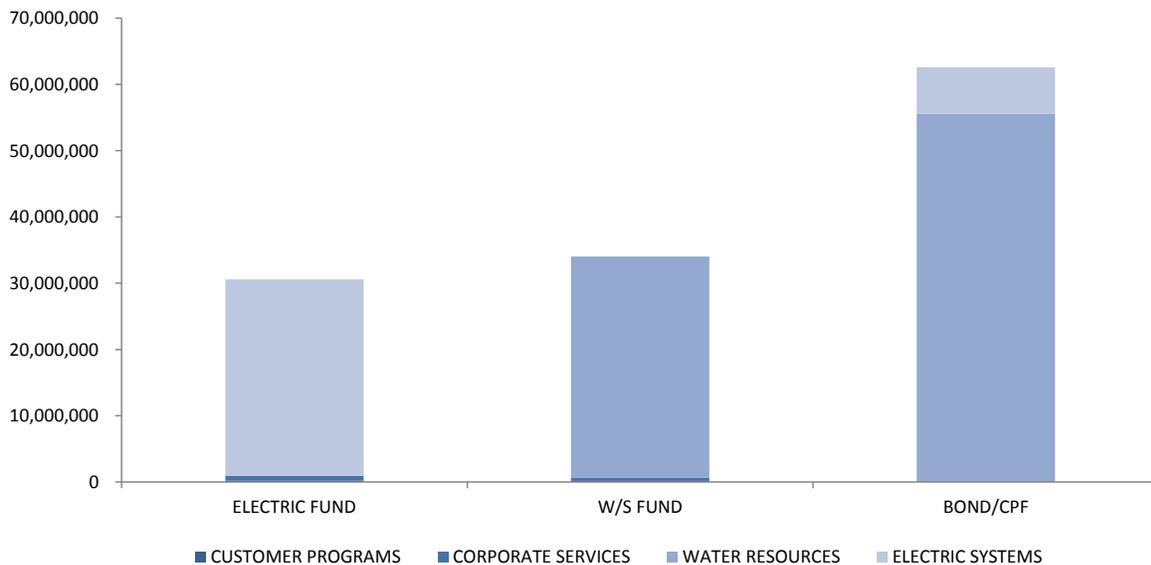
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CIP BY CATEGORY ALL FUNDS

<i>DIVISION</i>	<i>ACCOUNT</i>	<i>ELECTRIC FUND</i>	<i>W/S FUND</i>	<i>ELECTRIC & W/S FUNDS</i>	<i>BOND FUND / NC STATE LOAN / CPF</i>	<i>TOTAL ALL FUNDS</i>
CUSTOMER PROGRAMS	<i>ELECTRIC DISTRIBUTION</i>	215,000		215,000		215,000
	<i>WATER DISTRIBUTION</i>		283,000	283,000		283,000
	TOTAL CUSTOMER PROGRAMS	215,000	283,000	498,000		498,000
CORPORATE SERVICES	<i>STRUCTURES & IMPROVEMENTS</i>	720,000	350,000	1,070,000		1,070,000
	TOTAL CORPORATE SERVICES	720,000	350,000	1,070,000		1,070,000
WATER RESOURCES	<i>LAND & LAND RIGHTS-W/S</i>		40,000	40,000		40,000
	<i>WATER DISTRIBUTION</i>		14,971,000	14,971,000	5,303,000	20,274,000
	<i>SANITARY SEWER COLLECTION</i>		13,948,000	13,948,000	46,995,000	60,943,000
	<i>GLENVILLE LAKE PLANT</i>					
	<i>P.O. HOFFER WATER PLANT</i>				3,256,000	3,256,000
	<i>CROSS CREEK TRMT. PLANT</i>					
	<i>ROCKFISH TRMT. PLANT</i>		4,415,000	4,415,000	40,000	4,455,000
TOTAL WATER RESOURCES		33,374,000	33,374,000	55,594,000		88,968,000
ELECTRIC SYSTEMS	<i>LAND & LAND RIGHTS-ELEC</i>	150,000		150,000		150,000
	<i>GENERATION PLANT</i>	6,280,000		6,280,000		6,280,000
	<i>TRANSMISSION PLANT</i>	5,200,000		5,200,000		5,200,000
	<i>DISTRIBUTION PLANT</i>	16,400,000		16,400,000	7,000,000	23,400,000
	<i>TELECOM-CABLE INFRASTRUCTURE</i>	600,000		600,000		600,000
	<i>COMMUNICATIONS EQUIPMENT</i>	250,000		250,000		250,000
	<i>INHOUSE COMPUTER SYSTEMS</i>	750,000		750,000		750,000
	TOTAL ELECTRIC SYSTEMS	29,630,000		29,630,000	7,000,000	
TOTAL CIP		30,565,000	34,007,000	64,572,000	62,594,000	127,166,000

FY 2021 CIP FUNDING SOURCE BY DIVISION



PROJECT FUNDING SUMMARY

<i>REF. #</i>	<i>2021 PROJECT LISTING</i>	<i>ELECTRIC FUND</i>	<i>W/S FUND</i>	<i>BOND FUND / NC DOT RESERVE / CPF</i>	<i>TOTAL</i>
CUSTOMER PROGRAMS					
CP 1	Electric Meters and Metering Equipment	215,000	-	-	215,000
	ELECTRIC DISTRIBUTION	215,000	-	-	215,000
CP 2	Water Meters	-	283,000	-	283,000
	WATER DISTRIBUTION	-	283,000	-	283,000
	TOTAL CUSTOMER PROGRAMS	215,000	283,000	-	498,000
CORPORATE SERVICES					
CS 2	Fleet Bay Expansion	205,000	205,000	-	410,000
CS 4	Upgrade Warehouse Yard	50,000	50,000	-	100,000
CS 5	Replace Fuel Island Diesel Storage Tank	95,000	95,000	-	190,000
CS 6	Emergency Operations Facility	220,000	-	-	220,000
CS 7	Relocate King Street Pole Yard	150,000	-	-	150,000
	STRUCTURES & IMPROVEMENTS	720,000	350,000	0	1,070,000
	TOTAL CORPORATE SERVICES	720,000	350,000	-	1,070,000
WATER RESOURCES					
WS 1	Land and Land Rights - Water	-	20,000	-	20,000
WS 45	Land and Land Rights - Sewer	-	20,000	-	20,000
	LAND & LAND RIGHTS	-	40,000	-	40,000
WS 2	New Water Service Laterals and Water Main Extensions	-	600,000	-	600,000
WS 3	Water Lateral Renewals (PWC Forces)	-	900,000	-	900,000
WS 4	New Hydrant and Valve Installation	-	125,000	-	125,000
WS 5	Water Distribution System Rehabilitation	-	6,000,000	-	6,000,000
WS 7	Phase V Annexation - Water Main Extension	-	-	4,010,000	4,010,000
WS 8	Replace Existing Water Mains not Encased Under Railroad Crossings	-	890,000	-	890,000
WS 9	Chicken Foot Road 16" Water Main Interconnect	-	678,000	-	678,000
WS 10	West Fayetteville Pressure Zone Improvements	-	210,000	-	210,000
WS 12	Cliffdale Road Transmission Water Main Improvements	-	930,000	-	930,000
WS 14	US HWY 401 North - Booster Pump Station (Contract 2)	-	-	670,000	670,000
WS 15	US HWY 401 North - Elevated Water Tank (Contract 3)	-	-	18,000	18,000
WS 16	High Pressure Zone Transmission Water Main Improvements	-	265,000	-	265,000
WS 26	Utility Improvements for City of Fayetteville Storm Drainage Improvements - W:	-	150,000	-	150,000
WS 27	Hurricane Matthew Improvement of Water Mains	-	-	605,000	605,000
WS 28	Utility Improvements for the Town of Hope Mills Stormwater Projects - Water	-	25,000	-	25,000
WS 29	Utility Improvements for NCDOT Resurfacing and Stormwater	-	50,000	-	50,000
WS 30	NCDOT U-6001 NC 59 Widening, Parkton Road to US 301 - Water	-	330,000	-	330,000
WS 33	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks Drive to Fairway C	-	585,000	-	585,000
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South of US 401 to South	-	18,000	-	18,000
WS 35	NCDOT U-4403 Ramsey Street Widening - Water	-	1,000,000	-	1,000,000
WS 36	NCDOT U-4404 Cliffdale Road Widening - Water	-	180,000	-	180,000
WS 37	NCDOT U-4900 Murchison Road Widening - Water	-	530,000	-	530,000
WS 39	DOTR U-5798 A - Gillis Hill Rd Widening - Water	-	200,000	-	200,000
WS 40	NCDOT U-5798 B - Gillis Hill Road Widening - Water	-	205,000	-	205,000
WS 41	NCDOT U-3422 Camden Rd Widening - Water	-	1,000,000	-	1,000,000
WS 42	NCDOT U-2519A A/AB - Fayetteville Outer Loop from South of SR 1003 (Cam	-	20,000	-	20,000
WS 43	NCDOT U-4414 - All American Freeway Widening from Owen Drive (SR 1151)	-	50,000	-	50,000
WS 44	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - Water	-	30,000	-	30,000
	WATER DISTRIBUTION	-	14,971,000	5,303,000	20,274,000
WS 46	New Sewer Service Laterals and Sewer Main Extensions	-	480,000	-	480,000
WS 47	Sewer Lateral Renewals (PWC Forces)	-	750,000	-	750,000
WS 48	Lift Station Rehabilitation	-	610,000	-	610,000
WS 49	Sanitary Sewer Manhole Rehabilitation	-	2,100,000	-	2,100,000
WS 50	Sanitary Sewer Main Rehabilitation	-	6,000,000	-	6,000,000
WS 51	Line 54" Outfall - Research Drive to I-95	-	5,000	-	5,000
WS 52	Rockfish Creek Basin Peak Flow Facilities	-	98,000	5,500,000	5,598,000

PROJECT FUNDING SUMMARY

REF. #	2021 PROJECT LISTING	ELECTRIC FUND	W/S FUND	BOND FUND / NC DOT RESERVE / CPF	TOTAL
WS 53	Freedom Town Center Sewer Replacement	-	540,000	-	540,000
WS 54	Kennedy Street Aerial Sewer Replacement	-	211,000	-	211,000
WS 55	Phase V Annexation	-	-	29,777,000	29,777,000
WS 56	Replacement of the Shadowlawn Aerial Sewer Crossing	-	185,000	-	185,000
WS 61	Murchison Road Sewer Improvements, (Jasper St. to Murchison Rd.)	-	5,000	-	5,000
WS 66	Line the Cross Creek Outfall, Blue Street to Gale Street	-	-	2,595,000	2,595,000
WS 67	Replacement of the Cross Creek Outfall, Greensboro Street to Hillsboro Street	-	315,000	-	315,000
WS 76	Big Rockfish Sanitary Sewer Outfall	-	180,000	8,247,000	8,427,000
WS 77	Big Rockfish Sanitary Sewer Outfall - Lift Station Eliminations	-	10,000	386,000	396,000
WS 78	Sewer Main Rehab - Mintz Pond and Kornbow Lake	-	5,000	-	5,000
WS 80	North Fayetteville Lift Station Upgrades - Phase 4	-	210,000	-	210,000
WS 88	Longview Lift Station and Force Main Upgrade	-	45,000	-	45,000
WS 89	Hurricane Matthew Improvement of Sewer Mains	-	-	450,000	450,000
WS 90	Utility Improvements for City of Fayetteville Storm Drainage Improvements - Se	-	100,000	-	100,000
WS 91	Utility Improvements for the Town of Hope Mills Stormwater Projects - Sewer	-	25,000	-	25,000
WS 92	Utility Improvements for NCDOT Resurfacing and Stormwater Projects - Sewer	-	10,000	-	10,000
WS 94	NCDOT U-2519B A/BB Fayetteville Outer Loop from South of US 401 to South	-	10,000	-	10,000
WS 95	NCDOT U-4403 Ramsey Street Widening - Sewer	-	340,000	-	340,000
WS 96	NCDOT U-4404 Cliffdale Road Widening - Sewer	-	70,000	-	70,000
WS 97	NCDOT U-4900 Murchison Road Widening - Sewer	-	170,000	-	170,000
WS 99	DOTR U-5798 A - Gillis Hill Rd Widening - Sewer	-	63,000	20,000	83,000
WS 100	NCDOT U-5798 B - Gillis Hill Road Widening - Sewer	-	43,000	20,000	63,000
WS 101	NCDOT U-3422 Camden Rd Widening - Sewer	-	120,000	-	120,000
WS 103	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks Drive to Fairway L	-	1,220,000	-	1,220,000
WS 104	NCDOT U-4414 - All American Freeway Widening from Owen Dr (SR 1151) to	-	18,000	-	18,000
WS 105	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - Sewer	-	10,000	-	10,000
SANITARY SEWER COLLECTION		-	13,948,000	46,995,000	60,943,000
WS 23	PO Hoffer WTF Capacity Expansion, Phase 3 – Residuals Facilities Expansion	-	-	315,000	315,000
WS 25	PO Hoffer WTP / Glenville Lake WTP Reliability Improvements	-	-	2,941,000	2,941,000
P.O. HOFFER WATER PLANT		-	-	3,256,000	3,256,000
WS 84	Rockfish Creek WRF Expansion Phase 3	-	-	40,000	40,000
WS 85	Rockfish Creek WRF Screening Improvements	-	1,870,000	-	1,870,000
WS 106	Replace Standby Power Generator at the Rockfish Creek WRF	-	2,545,000	-	2,545,000
ROCKFISH TREATMENT PLANT		-	4,415,000	40,000	4,455,000
TOTAL WATER RESOURCES		-	33,374,000	55,594,000	88,968,000
ELECTRIC SYSTEMS					
EL 38	ROW Additions Distribution	150,000	-	-	150,000
LAND AND LAND RIGHTS		150,000	-	-	150,000
EL 45	Heat Exchanger Upgrade	430,000	-	-	430,000
EL 46	BWGP Heat Recovery Steam Generator Boiler Tube Replacement	5,000,000	-	-	5,000,000
EL 47	BWGP Water Purification System	350,000	-	-	350,000
EL 48	Battery Storage	500,000	-	-	500,000
GENERATION PLANT		6,280,000	-	-	6,280,000
EL 21	Sub-Transmission Pole Replacement	1,500,000	-	-	1,500,000
EL 23	66 kV System Sectionalizing Improvements	300,000	-	-	300,000
EL 25	T/D Sub Differential and Back-Up Overcurrent Relay Replacement	150,000	-	-	150,000
EL 39	POD V 230-66 kV Substation Property Acquisition	3,000,000	-	-	3,000,000
EL 40	POD I 230 kV Switch Replacement	250,000	-	-	250,000
TRANSMISSION PLANT		5,200,000	-	-	5,200,000
EL 1	Underground Distribution Infrastructure Installations – New	1,500,000	-	-	1,500,000
EL 2	Overhead Infrastructure Installation - New	25,000	-	-	25,000
EL 3	LED Area Lights - New Installations	450,000	-	-	450,000
EL 4	LED Area Lights - Replacements/Conversion	100,000	-	-	100,000
EL 5	Padmount Transformers	1,000,000	-	-	1,000,000

PROJECT FUNDING SUMMARY

REF. #	2021 PROJECT LISTING	ELECTRIC FUND	W/S FUND	BOND FUND / NC DOT RESERVE / CPF	TOTAL
EL 6	Overhead Transformers	400,000	-	-	400,000
EL 7	Underground Infrastructure Replacement - Residential	2,500,000	-	-	2,500,000
EL 8	Underground Infrastructure Replacement - Non Residential	500,000	-	-	500,000
EL 9	Underground Distribution Infrastructure Replacements (Non-Cable)	850,000	-	-	850,000
EL 10	UG Feeder Exit Replacement Substations	500,000	-	-	500,000
EL 11	Overhead Distribution System Circuit Improvements	75,000	-	-	75,000
EL 12	Distribution System Sectionalizing	700,000	-	-	700,000
EL 13	Overhead Infrastructure Improvements	1,000,000	-	-	1,000,000
EL 14	Thoroughfare LED Lighting - New Installations	50,000	-	-	50,000
EL 15	Thoroughfare LED Roadway Lighting-Conversion	200,000	-	-	200,000
EL 16	Conservation Load Reduction (CVR)	500,000	-	-	500,000
EL 17	System Reactive Power Compensation	600,000	-	-	600,000
EL 20	Distribution Automation	750,000	-	-	750,000
EL 22	Distribution Circuit Breaker Replacement	350,000	-	-	350,000
EL 24	Distribution Substation Equipment Replacement	100,000	-	-	100,000
EL 26	T/D Sub 66 kV Power Transformer Protection Equipment Upgrade	400,000	-	-	400,000
EL 27	T/D Substation Control Building Replacement	400,000	-	-	400,000
EL 29	Bordeaux 67-12 kV Substation Rebuild	-	-	100,000	100,000
EL 30	Black & Decker Substation Rebuild	-	-	2,000,000	2,000,000
EL 31	Cumberland Road 66 -12 kV Substation Rebuild	-	-	100,000	100,000
EL 32	PO Hoffer 66-12 kV Substation Rebuild	-	-	1,000,000	1,000,000
EL 33	FTI 66-12 kV Substation Rebuild and Relocation	-	-	50,000	50,000
EL 35	Distribution Substation 66-12 kV Power Transformer	-	-	1,750,000	1,750,000
EL 41	Downtown UG Infrastructure Reliability Improvements	1,000,000	-	-	1,000,000
EL 42	Underground Distribution / Streetscape Improvement	50,000	-	-	50,000
EL 52	NCDOT Rowan Street Bridge Replacement	250,000	-	-	250,000
EL 53	NCDOT U-4405 Raeford Road Widening	-	-	2,000,000	2,000,000
EL 54	NCDOT U-4403B Ramsey Street Widening	500,000	-	-	500,000
EL 55	NCDOT U-5798A Gillis Hill Road Widening	1,100,000	-	-	1,100,000
EL 56	NCDOT U-5798B Gillis Hill Road Widening	250,000	-	-	250,000
EL 60	NCDOT U-4403C Ramsey Street Widening US 401 By-Pass to Slocomb Road	300,000	-	-	300,000
DISTRIBUTION PLANT		16,400,000	-	7,000,000	23,400,000
EL 18	Fiber Optic Cable Line Extensions for Electric System Automation PWC Smart	600,000	-	-	600,000
TELECOM-CABLE INFRASTRUCTURE		600,000	-	-	600,000
EL 19	SONET Communications for Smart Grid	250,000	-	-	250,000
COMMUNICATIONS EQUIPMENT		250,000	-	-	250,000
EL 44	DMS Software and Implementation	750,000	-	-	750,000
INHOUSE COMPUTER SYSTEMS		750,000	-	-	750,000
TOTAL ELECTRIC SYSTEMS		29,630,000	-	7,000,000	36,630,000
TOTAL ALL PROJECTS		30,565,000	34,007,000	62,594,000	127,166,000

SUMMARY BY PROJECT

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
(Dollars in thousands)										
CUSTOMER PROGRAMS										
CP 1	Electric Meters and Metering Equipment	215	218	220	222	224	1,155	228	370	2,852
CP 2	Water Meters	283	289	297	299	304	1,635	384	350	3,841
TOTAL CUSTOMER PROGRAMS		498	507	517	521	528	2,790	612	720	6,693
CORPORATE SERVICES										
CS 1	Robert C. Williams Business Center Upfit	0	60	60	60	60	300	20	0	560
CS 2	Fleet Bay Expansion	410	0	0	0	0	0	661	8,001	9,072
CS 3	Multipurpose Building	0	0	300	8,910	1,140	0	0	0	10,350
CS 4	Upgrade Warehouse Yard	100	0	0	0	0	0	424	565	1,089
CS 5	Replace Fuel Island Diesel Storage Tank	190	0	0	0	0	0	0	0	190
CS 6	Emergency Operations Facility	220	0	0	0	0	0	0	660	880
CS 7	Relocate King Street Pole Yard	150	0	0	0	0	0	0	0	150
TOTAL CORPORATE SERVICES		1,070	60	360	8,970	1,200	300	1,105	9,226	22,291
WATER RESOURCES										
WS 1	Land and Land Rights - Water	20	20	20	20	20	100	26	75	301
WS 2	New Water Service Laterals and Water Main Extensions	600	618	636	654	673	3,466	605	539	7,791
WS 3	Water Lateral Renewals (PWC Forces)	900	945	992	1,042	1,095	5,749	899	800	12,422
WS 4	New Hydrant and Valve Installation	125	128	130	133	136	694	146	113	1,605
WS 5	Water Distribution System Rehabilitation	6,000	6,750	7,500	8,500	9,500	62,050	5,280	5,147	110,727
WS 6	Braxton Road 12" Water Main Extension	0	0	85	385	130	0	0	0	600
WS 7	Phase V Annexation - Water Main Extension	4,010	2,121	1,695	2,461	3,680	3,704	539	562	18,772
WS 8	Replace Existing Water Mains not Encased Under Railroad	890	975	980	1,005	705	0	553	796	5,904
WS 9	Chicken Foot Road 16" Water Main Interconnect	678	677	0	0	0	0	67	114	1,536
WS 10	West Fayetteville Pressure Zone Improvements	210	2,960	5,520	2,370	0	0	0	0	11,060
WS 11	Sandhill Road 12" Water Main Extension	0	0	150	585	450	0	0	0	1,185
WS 12	Cliffdale Road Transmission Water Main Improvements	930	720	0	0	0	0	0	130	1,780
WS 13	Hillsboro Street Water Main Replacement	0	0	0	115	225	695	0	0	1,035
WS 14	US HWY 401 North - Booster Pump Station (Contract 2)	670	0	0	0	0	0	273	1,017	1,960
WS 15	US HWY 401 North - Elevated Water Tank (Contract 3)	18	2,100	0	0	0	0	237	10	2,365
WS 16	High Pressure Zone Transmission Water Main Improvement	265	365	515	3,365	2,910	0	0	80	7,500
WS 17	Kings Grant Water Main Looping	0	0	0	165	145	555	0	0	865
WS 18	Gillespie Street Water Main Replacement	0	0	160	260	2,130	855	0	0	3,405
WS 19	Southern Avenue Water Main Replacement, Camden to Gill	0	0	0	0	155	2,625	0	0	2,780
WS 20	Southern Avenue Water Main Replacement, Camden to Gill	0	0	0	0	0	3,030	0	0	3,030
WS 21	Glenville Lake Filter Control Modifications	0	2,145	0	0	0	0	101	5	2,251
WS 22	PO Hoffer WTP Capacity Expansion, Phase 2	0	0	0	0	60	39,615	2,837	25	42,537
WS 23	PO Hoffer WTP Capacity Expansion, Phase 3 – Residuals F	315	505	305	8,615	7,430	0	0	0	17,170
WS 24	Replace Standby Power Generator at the PO Hoffer WTP	0	0	1,985	0	0	0	0	0	1,985
WS 25	PO Hoffer WTP / Glenville Lake WTP Reliability Improvement	2,941	3,801	0	0	0	0	0	0	6,742
WS 26	Utility Improvements for City of Fayetteville Storm Drainage	150	270	270	270	270	1,350	145	148	2,873
WS 27	Hurricane Matthew Improvement of Water Mains	605	0	0	0	0	0	425	398	1,428
WS 28	Utility Improvements for the Town of Hope Mills Stormwater	25	25	25	25	25	125	101	2	353
WS 29	Utility Improvements for NCDOT Resurfacing and Stormwater	50	50	50	50	50	250	49	5	554
WS 30	NCDOT U-6001 NC 59 Widening, Parkton Road to US 301	330	1,115	1,430	60	2,960	0	0	111	6,006
WS 31	NCDOT U-6072A SR1112 (Rockfish Rd) from Strickland Bri	0	0	0	0	0	661	0	0	661
WS 32	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC	0	0	0	437	956	7,906	0	0	9,299
WS 33	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	585	270	370	2,840	250	11,265	1,409	100	17,089
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South	18	15	15	5,737	0	0	14	0	5,799
WS 35	NCDOT U-4403 Ramsey Street Widening - Water	1,000	975	250	250	6,725	2,125	17	531	11,873
WS 36	NCDOT U-4404 Cliffdale Road Widening - Water	180	125	110	55	755	0	0	3	1,228
WS 37	NCDOT U-4900 Murchison Road Widening - Water	530	180	185	125	125	5,625	0	26	6,796

SUMMARY BY PROJECT

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
WS 38	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - \	0	825	440	170	170	4,050	0	0	5,655
WS 39	DOTR U-5798 A - Gillis Hill Rd Widening - Water	200	1,405	11	0	0	0	0	69	1,685
WS 40	NCDOT U-5798 B - Gillis Hill Road Widening - Water	205	180	100	1,490	0	0	0	0	1,975
WS 41	NCDOT U-3422 Camden Rd Widening - Water	1,000	335	135	11,135	0	0	67	157	12,829
WS 42	NCDOT U-2519A A/AB - Fayetteville Outer Loop from South	20	683	0	0	0	0	6	6	715
WS 43	NCDOT U-4414 - All American Freeway Widening from Owe	50	98	94	25	28	2,893	0	0	3,188
WS 44	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - V	30	15	100	70	3,035	0	7	38	3,295
WS 45	Land and Land Rights - Sewer	20	20	20	20	20	100	21	19	240
WS 46	New Sewer Service Laterals and Sewer Main Extensions	480	504	529	555	582	3,056	393	455	6,554
WS 47	Sewer Lateral Renewals (PWC Forces)	750	769	788	808	828	4,243	602	730	9,518
WS 48	Lift Station Rehabilitation	610	610	0	0	0	0	197	600	2,017
WS 49	Sanitary Sewer Manhole Rehabilitation	2,100	2,200	2,300	2,400	2,500	14,000	1,543	1,950	28,993
WS 50	Sanitary Sewer Main Rehabilitation	6,000	7,000	8,000	9,000	10,000	64,750	5,167	5,327	115,244
WS 51	Line 54" Outfall - Research Drive to I-95	5	110	610	1,810	0	0	2	18	2,555
WS 52	Rockfish Creek Basin Peak Flow Facilities	5,598	10,505	0	0	0	0	1,244	626	17,973
WS 53	Freedom Town Center Sewer Replacement	540	545	0	0	0	0	165	15	1,265
WS 54	Kennedy Street Aerial Sewer Replacement	211	0	0	0	0	0	45	156	412
WS 55	Phase V Annexation	29,777	24,735	24,141	21,564	25,170	25,450	76,501	18,240	245,578
WS 56	Replacement of the Shadowlawn Aerial Sewer Crossing	185	1,070	0	0	0	0	0	80	1,335
WS 57	Lamon Street Aerial Sewer Replacement	0	0	185	1,185	1,630	0	0	0	3,000
WS 58	McFadyen Lake Sewer Main Rehabilitation	0	0	0	0	405	3,290	0	0	3,695
WS 59	Line North Street Outfall, Milan Road to Gale Street	0	0	0	10	910	0	0	0	920
WS 60	Old Wilmington Road Sewer Upgrades	0	0	0	0	0	3,960	6	0	3,966
WS 61	Murchison Road Sewer Improvements, (Jasper St. to Murch	5	815	815	0	0	0	31	13	1,679
WS 62	B Street Parallel Sewer	0	0	0	0	30	1,475	0	0	1,505
WS 63	Branson Creek Interceptor Replacement, Phase I	0	35	190	375	880	0	0	0	1,480
WS 64	Branson Creek Interceptor Replacement, Phase II	0	0	0	55	260	1,740	0	0	2,055
WS 65	Rehabilitation of the Blounts Creek Outfall, Campbell to Rus	0	560	0	0	0	0	0	0	560
WS 66	Line the Cross Creek Outfall, Blue Street to Gale Street	2,595	0	0	0	0	0	542	963	4,100
WS 67	Replacement of the Cross Creek Outfall, Greensboro Street	315	3,085	525	0	0	0	0	0	3,925
WS 68	Line Beaver Creek Outfall, Phase II	0	0	210	2,010	0	0	0	0	2,220
WS 69	Line the Beaver Creek Outfall, Phase III	0	0	0	10	510	1,205	0	0	1,725
WS 70	Line Beaver Creek Outfall, Phase IV	0	0	0	0	0	1,725	0	0	1,725
WS 71	Line Beaver Creek Outfall, Phase V	0	0	0	0	0	1,725	0	0	1,725
WS 72	Line Beaver Creek Outfall, Phase VI	0	0	0	0	0	210	0	0	210
WS 73	Line 54" Outfall - I-95 to Claude Lee Road	0	0	0	10	710	1,405	0	0	2,125
WS 74	Line 54-Inch Outfall, Claude Lee Road to Pennystone Drive	0	0	0	0	0	2,530	0	0	2,530
WS 75	Line 54-Inch Outfall, Pennystone Drive to Laurelwood Place	0	0	0	0	0	10	0	0	10
WS 76	Big Rockfish Sanitary Sewer Outfall	8,427	8,780	4,029	0	0	0	1,109	1,994	24,339
WS 77	Big Rockfish Sanitary Sewer Outfall - Lift Station Elimination	396	207	1,631	2,432	0	0	319	858	5,843
WS 78	Sewer Main Rehab - Mintz Pond and Kornbow Lake	5	410	710	0	0	0	0	0	1,125
WS 79	Lift Station Electrical Upgrades	0	35	110	230	985	1,060	0	1	2,421
WS 80	North Fayetteville Lift Station Upgrades - Phase 4	210	850	215	0	0	0	0	62	1,337
WS 81	Cross Creek WRF Reliability Improvements	0	1,225	10,299	8,426	0	0	0	0	19,950
WS 82	Replace Standby Power Generator at the Cross Creek WRF	0	2,135	0	0	0	0	0	0	2,135
WS 83	Replace Clarifier #3 Mechanism at the Rockfish Creek WRF	0	360	0	0	0	0	0	0	360
WS 84	Rockfish Creek WRF Expansion Phase 3	40	3,609	5,758	24,353	27,829	17,401	191	593	79,774
WS 85	Rockfish Creek WRF Screening Improvements	1,870	565	0	0	0	0	34	220	2,689
WS 86	Replace Rockfish Creek WRF IPS Screw Pumps #1 and #2	0	15	940	0	0	0	0	0	955
WS 87	Replace Rockfish Creek WRF IPS Screw Pumps #3 and #4	0	0	15	940	0	0	0	0	955
WS 88	Longview Lift Station and Force Main Upgrade	45	1,060	375	0	0	0	19	120	1,619
WS 89	Hurricane Matthew Improvement of Sewer Mains	450	0	0	0	0	0	1,897	2,759	5,106
WS 90	Utility Improvements for City of Fayetteville Storm Drainage	100	230	230	230	230	1,150	70	43	2,283
WS 91	Utility Improvements for the Town of Hope Mills Stormwater	25	25	25	25	25	125	91	2	343

SUMMARY BY PROJECT

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
(Dollars in thousands)										
WS 92	Utility Improvements for NCDOT Resurfacing and Stormwat	10	10	10	10	10	50	40	2	142
WS 93	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC	0	0	0	68	88	563	0	0	719
WS 94	NCDOT U-2519B A/BB Fayetteville Outer Loop from South c	10	10	5	753	0	0	10	4	792
WS 95	NCDOT U-4403 Ramsey Street Widening - Sewer	340	190	140	140	2,190	815	312	220	4,347
WS 96	NCDOT U-4404 Cliffdale Road Widening - Sewer	70	55	40	30	530	0	0	3	728
WS 97	NCDOT U-4900 Murchison Road Widening - Sewer	170	85	85	45	45	1,045	0	85	1,560
WS 98	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - S	0	320	165	45	45	1,320	0	0	1,895
WS 99	DOTR U-5798 A - Gillis Hill Rd Widening - Sewer	83	803	50	0	0	0	0	10	946
WS 100	NCDOT U-5798 B - Gillis Hill Road Widening - Sewer	63	73	40	1,020	0	0	0	0	1,196
WS 101	NCDOT U-3422 Camden Rd Widening - Sewer	120	80	30	925	0	0	14	24	1,193
WS 102	NCDOT U-6072A SR1112 (Rockfish Rd) from Strickland Bri	0	0	0	0	0	95	0	0	95
WS 103	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	1,220	95	180	350	140	7,675	350	149	10,159
WS 104	NCDOT U-4414 - All American Freeway Widening from Owe	18	59	73	14	17	1,570	0	0	1,751
WS 105	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - S	10	10	20	20	840	0	4	7	911
WS 106	Replace Standby Power Generator at the Rockfish Creek W	2,545	0	0	0	0	0	0	0	2,545
TOTAL WATER RESOURCES		88,968	105,255	87,746	132,282	122,202	323,131	104,722	47,355	1,011,661

ELECTRIC SYSTEMS

EL 1	Underground Distribution Infrastructure Installations – New	1,500	1,600	1,650	1,700	1,750	9,500	1,873	1,400	20,973
EL 2	Overhead Infrastructure Installation - New	25	25	25	25	25	125	45	54	349
EL 3	LED Area Lights - New Installations	450	450	450	450	450	2,250	369	421	5,290
EL 4	LED Area Lights - Replacements/Conversion	100	0	0	0	0	0	2,735	2,200	5,035
EL 5	Padmount Transformers	1,000	1,050	1,100	1,150	1,200	6,750	929	905	14,084
EL 6	Overhead Transformers	400	400	400	400	400	2,000	270	405	4,675
EL 7	Underground Infrastructure Replacement - Residential	2,500	2,750	3,000	3,250	3,500	21,250	884	2,200	39,334
EL 8	Underground Infrastructure Replacement - Non Residential	500	500	500	550	550	2,850	2,512	720	8,682
EL 9	Underground Distribution Infrastructure Replacements (Non-	850	1,000	1,000	1,000	1,000	5,000	896	750	11,496
EL 10	UG Feeder Exit Replacement Substations	500	500	500	500	500	2,500	186	375	5,561
EL 11	Overhead Distribution System Circuit Improvements	75	75	75	75	75	375	92	45	887
EL 12	Distribution System Sectionalizing	700	500	250	250	250	1,250	4	245	3,449
EL 13	Overhead Infrastructure Improvements	1,000	1,250	1,250	1,500	1,500	5,250	277	1,081	13,108
EL 14	Thoroughfare LED Lighting - New Installations	50	50	50	50	50	250	10	0	510
EL 15	Thoroughfare LED Roadway Lighting-Conversion	200	0	0	0	0	0	464	675	1,339
EL 16	Conservation Load Reduction (CVR)	500	500	500	500	50	250	1,124	360	3,784
EL 17	System Reactive Power Compensation	600	200	100	50	25	125	1,148	1,500	3,748
EL 18	Fiber Optic Cable Line Extensions for Electric System Auton	600	500	500	500	500	2,500	206	250	5,556
EL 19	SONET Communications for Smart Grid	250	250	250	250	50	150	544	175	1,919
EL 20	Distribution Automation	750	1,000	1,250	1,500	1,750	11,500	263	355	18,368
EL 21	Sub-Transmission Pole Replacement	1,500	1,500	1,500	1,500	1,500	7,500	1,157	1,450	17,607
EL 22	Distribution Circuit Breaker Replacement	350	350	350	350	350	2,000	252	345	4,347
EL 23	66 kV System Sectionalizing Improvements	300	300	300	300	300	1,500	10	275	3,285
EL 24	Distribution Substation Equipment Replacement	100	100	100	100	125	625	9	85	1,244
EL 25	T/D Sub Differential and Back-Up Overcurrent Relay Replac	150	150	150	150	150	750	93	125	1,718
EL 26	T/D Sub 66 kV Power Transformer Protection Equipment Up	400	400	400	400	450	2,250	683	375	5,358
EL 27	T/D Substation Control Building Replacement	400	400	400	400	400	2,000	0	375	4,375
EL 28	Transmission - Distribution Substation Oil Containment Syst	0	100	0	0	0	0	429	0	529
EL 29	Bordeaux 67-12 kV Substation Rebuild	100	0	0	0	0	0	132	2,000	2,232
EL 30	Black & Decker Substation Rebuild	2,000	100	0	0	0	0	0	0	2,100
EL 31	Cumberland Road 66 -12 kV Substation Rebuild	100	2,000	100	0	0	0	0	0	2,200
EL 32	PO Hoffer 66-12 kV Substation Rebuild	1,000	1,500	0	0	0	0	0	0	2,500
EL 33	FTI 66-12 kV Substation Rebuild and Relocation	50	1,000	2,200	500	0	0	0	0	3,750
EL 34	CoF Langdon St Widening Project	0	0	0	300	0	0	0	0	300
EL 35	Distribution Substation 66-12 kV Power Transformer	1,750	875	875	875	875	4,375	0	850	10,475

SUMMARY BY PROJECT

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
(Dollars in thousands)										
EL 36	230-67kV Auto-Transformer	0	0	2,500	0	0	0	0	0	2,500
EL 37	POD IV 230-66 kV Substation	0	0	0	0	125	15,550	1,392	0	17,067
EL 38	ROW Additions Distribution	150	150	150	150	150	750	59	90	1,649
EL 39	POD V 230-66 kV Substation Property Acquisition	3,000	0	0	0	0	0	0	50	3,050
EL 40	POD I 230 kV Switch Replacement	250	0	0	0	0	0	0	0	250
EL 41	Downtown UG Infrastructure Reliability Improvements	1,000	500	0	0	0	0	66	275	1,841
EL 42	Underground Distribution / Streetscape Improvement	50	50	50	50	50	250	7	0	507
EL 43	CoF Person St 300 - 600 Block Streetscape Improvement	0	0	0	0	0	1,650	25	0	1,675
EL 44	DMS Software and Implementation	750	250	0	0	0	0	0	0	1,000
EL 45	Heat Exchanger Upgrade	430	0	0	0	0	0	319	585	1,334
EL 46	BWGP Heat Recovery Steam Generator Boiler Tube Replac	5,000	5,000	0	0	0	0	0	0	10,000
EL 47	BWGP Water Purification System	350	0	0	0	0	0	0	0	350
EL 48	Battery Storage	500	2,000	2,000	0	0	0	0	0	4,500
EL 49	Renewable Resource Development	0	250	250	6,000	10,000	0	0	0	16,500
EL 50	Bragg Boulevard Gateway Improvement - Phase II	0	0	0	0	0	2,300	0	0	2,300
EL 51	NCDOT U-5015 Murchison Road Improvement	0	0	0	0	0	2,000	0	0	2,000
EL 52	NCDOT Rowan Street Bridge Replacement	250	0	0	0	0	0	1,889	100	2,239
EL 53	NCDOT U-4405 Raeford Road Widening	2,000	250	0	0	0	0	6,625	13,000	21,875
EL 54	NCDOT U-4403B Ramsey Street Widening	500	1,250	4,100	1,100	200	0	0	100	7,250
EL 55	NCDOT U-5798A Gillis Hill Road Widening	1,100	1,200	150	0	0	0	0	100	2,550
EL 56	NCDOT U-5798B Gillis Hill Road Widening	250	1,100	1,200	150	0	0	0	0	2,700
EL 57	NCDOT U-4900 Murchison Road Widening	0	325	775	150	0	0	0	0	1,250
EL 58	NCDOT U-5101 Stacey Weaver Drive Widening	0	100	150	200	225	7,000	0	0	7,675
EL 59	NCDOT U-4404 Cliffdale Road Widening	0	0	0	0	100	4,150	0	0	4,250
EL 60	NCDOT U-4403C Ramsey Street Widening US 401 By-Pass	300	500	750	750	1,250	26,000	0	0	29,550
EL 61	NCDOT U-6133 Cliffdale Road / Skibo Road Intersection Im	0	0	0	0	500	1,500	0	0	2,000
EL 62	NCDOT U-6209 Cliffdale Road Widening	0	0	0	0	0	3,950	0	0	3,950
EL 63	NCDOT U-6213 Ireland Drive Widening	0	0	0	0	0	3,250	0	0	3,250
EL 64	NCDOT U-4900 Murchison Road Widening	0	500	1,000	2,500	250	0	0	0	4,250
EL 65	NCDOT U-6152 Robeson Street Access Management	0	0	0	0	0	2,250	0	0	2,250
TOTAL ELECTRIC SYSTEMS		36,630	34,800	32,300	29,625	30,625	165,475	27,978	34,296	391,729
TOTAL ALL PROJECTS		127,166	140,622	120,923	171,398	154,555	491,696	134,417	91,597	1,432,374

SUMMARY BY CATEGORY

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
(Dollars in thousands)										
METERS										
CP 1	Electric Meters and Metering Equipment	215	218	220	222	224	1,155	228	370	2,852
CP 2	Water Meters	283	289	297	299	304	1,635	384	350	3,841
	TOTAL METERS	498	507	517	521	528	2,790	612	720	6,693
BUILDINGS & IMPROVEMENTS										
CS 1	Robert C. Williams Business Center Upfit	0	60	60	60	60	300	20	0	560
CS 2	Fleet Bay Expansion	410	0	0	0	0	0	661	8,001	9,072
CS 3	Multipurpose Building	0	0	300	8,910	1,140	0	0	0	10,350
CS 4	Upgrade Warehouse Yard	100	0	0	0	0	0	424	565	1,089
CS 5	Replace Fuel Island Diesel Storage Tank	190	0	0	0	0	0	0	0	190
CS 6	Emergency Operations Facility	220	0	0	0	0	0	0	660	880
CS 7	Relocate King Street Pole Yard	150	0	0	0	0	0	0	0	150
	TOTAL BUILDINGS & IMPROVEMENTS	1,070	60	360	8,970	1,200	300	1,105	9,226	22,291
INHOUSE COMPUTER SYSTEMS										
EL 44	DMS Software and Implementation	750	250	0	0	0	0	0	0	1,000
	TOTAL INHOUSE COMPUTER SYSTEMS	750	250	0	0	0	0	0	0	1,000
NCDOT ELECTRIC										
EL 51	NCDOT U-5015 Murchison Road Improvement	0	0	0	0	0	2,000	0	0	2,000
EL 52	NCDOT Rowan Street Bridge Replacement	250	0	0	0	0	0	1,889	100	2,239
EL 53	NCDOT U-4405 Raeford Road Widening	2,000	250	0	0	0	0	6,625	13,000	21,875
EL 54	NCDOT U-4403B Ramsey Street Widening	500	1,250	4,100	1,100	200	0	0	100	7,250
EL 55	NCDOT U-5798A Gillis Hill Road Widening	1,100	1,200	150	0	0	0	0	100	2,550
EL 56	NCDOT U-5798B Gillis Hill Road Widening	250	1,100	1,200	150	0	0	0	0	2,700
EL 57	NCDOT U-4900 Murchison Road Widening	0	325	775	150	0	0	0	0	1,250
EL 58	NCDOT U-5101 Stacey Weaver Drive Widening	0	100	150	200	225	7,000	0	0	7,675
EL 59	NCDOT U-4404 Cliffdale Road Widening	0	0	0	0	100	4,150	0	0	4,250
EL 60	NCDOT U-4403C Ramsey Street Widening US 401 By-Pa	300	500	750	750	1,250	26,000	0	0	29,550
EL 61	NCDOT U-6133 Cliffdale Road / Skibo Road Intersection I	0	0	0	0	500	1,500	0	0	2,000
EL 62	NCDOT U-6209 Cliffdale Road Widening	0	0	0	0	0	3,950	0	0	3,950
EL 63	NCDOT U-6213 Ireland Drive Widening	0	0	0	0	0	3,250	0	0	3,250
EL 64	NCDOT U-4900 Murchison Road Widening	0	500	1,000	2,500	250	0	0	0	4,250
EL 65	NCDOT U-6152 Robeson Street Access Management	0	0	0	0	0	2,250	0	0	2,250
	TOTAL NCDOT ELECTRIC	4,400	5,225	8,125	4,850	2,525	50,100	8,514	13,300	97,039
NCDOT W/WW										
WS 29	Utility Improvements for NCDOT Resurfacing and Stormw:	50	50	50	50	50	250	49	5	554
WS 30	NCDOT U-6001 NC 59 Widening, Parkton Road to US 30	330	1,115	1,430	60	2,960	0	0	111	6,006
WS 31	NCDOT U-6072A SR1112 (Rockfish Rd) from Strickland E	0	0	0	0	0	661	0	0	661
WS 32	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to I	0	0	0	437	956	7,906	0	0	9,299
WS 33	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oa	585	270	370	2,840	250	11,265	1,409	100	17,089
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from Soutl	18	15	15	5,737	0	0	14	0	5,799
WS 35	NCDOT U-4403 Ramsey Street Widening - Water	1,000	975	250	250	6,725	2,125	17	531	11,873
WS 36	NCDOT U-4404 Cliffdale Road Widening - Water	180	125	110	55	755	0	0	3	1,228
WS 37	NCDOT U-4900 Murchison Road Widening - Water	530	180	185	125	125	5,625	0	26	6,796
WS 38	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening	0	825	440	170	170	4,050	0	0	5,655
WS 39	DOTR U-5798 A - Gillis Hill Rd Widening - Water	200	1,405	11	0	0	0	0	69	1,685
WS 40	NCDOT U-5798 B - Gillis Hill Road Widening - Water	205	180	100	1,490	0	0	0	0	1,975
WS 41	NCDOT U-3422 Camden Rd Widening - Water	1,000	335	135	11,135	0	0	67	157	12,829
WS 42	NCDOT U-2519A A/AB - Fayetteville Outer Loop from Sou	20	683	0	0	0	0	6	6	715
WS 43	NCDOT U-4414 - All American Freeway Widening from O	50	98	94	25	28	2,893	0	0	3,188

SUMMARY BY CATEGORY

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
(Dollars in thousands)										
WS 44	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 -	30	15	100	70	3,035	0	7	38	3,295
WS 92	Utility Improvements for NCDOT Resurfacing and Stormw:	10	10	10	10	10	50	40	2	142
WS 93	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to ↑	0	0	0	68	88	563	0	0	719
WS 94	NCDOT U-2519B A/BB Fayetteville Outer Loop from Soutl	10	10	5	753	0	0	10	4	792
WS 95	NCDOT U-4403 Ramsey Street Widening - Sewer	340	190	140	140	2,190	815	312	220	4,347
WS 96	NCDOT U-4404 Cliffdale Road Widening - Sewer	70	55	40	30	530	0	0	3	728
WS 97	NCDOT U-4900 Murchison Road Widening - Sewer	170	85	85	45	45	1,045	0	85	1,560
WS 98	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening	0	320	165	45	45	1,320	0	0	1,895
WS 99	DOTR U-5798 A - Gillis Hill Rd Widening - Sewer	83	803	50	0	0	0	0	10	946
WS 100	NCDOT U-5798 B - Gillis Hill Road Widening - Sewer	63	73	40	1,020	0	0	0	0	1,196
WS 101	NCDOT U-3422 Camden Rd Widening - Sewer	120	80	30	925	0	0	14	24	1,193
WS 102	NCDOT U-6072A SR1112 (Rockfish Rd) from Strickland E	0	0	0	0	0	95	0	0	95
WS 103	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oa	1,220	95	180	350	140	7,675	350	149	10,159
WS 104	NCDOT U-4414 - All American Freeway Widening from O	18	59	73	14	17	1,570	0	0	1,751
WS 105	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 -	10	10	20	20	840	0	4	7	911
TOTAL NCDOT W/WW		6,312	8,061	4,128	25,864	18,959	47,908	2,299	1,550	115,081
CITY OF FAYETTEVILLE-ELECTRIC										
EL 34	CoF Langdon St Widening Project	0	0	0	300	0	0	0	0	300
EL 41	Downtown UG Infrastructure Reliability Improvements	1,000	500	0	0	0	0	66	275	1,841
EL 42	Underground Distribution / Streetscape Improvement	50	50	50	50	50	250	7	0	507
EL 43	CoF Person St 300 - 600 Block Streetscape Improvement	0	0	0	0	0	1,650	25	0	1,675
TOTAL CITY OF FAYETTEVILLE-ELECTRIC		1,050	550	50	350	50	1,900	98	275	4,323
CITY OF FAYETTEVILLE-W/WW										
WS 26	Utility Improvements for City of Fayetteville Storm Drainag	150	270	270	270	270	1,350	145	148	2,873
WS 90	Utility Improvements for City of Fayetteville Storm Drainag	100	230	230	230	230	1,150	70	43	2,283
TOTAL CITY OF FAYETTEVILLE-W/WW		250	500	500	500	500	2,500	215	191	5,156
NEW SERVICES(INCL TRANSFORMERS)-ELECTRIC										
EL 1	Underground Distribution Infrastructure Installations – New	1,500	1,600	1,650	1,700	1,750	9,500	1,873	1,400	20,973
EL 2	Overhead Infrastructure Installation - New	25	25	25	25	25	125	45	54	349
EL 5	Padmount Transformers	1,000	1,050	1,100	1,150	1,200	6,750	929	905	14,084
EL 6	Overhead Transformers	400	400	400	400	400	2,000	270	405	4,675
EL 18	Fiber Optic Cable Line Extensions for Electric System Aut	600	500	500	500	500	2,500	206	250	5,556
TOTAL NEW SERVICES(INCL XFRMRS)-ELECTRIC		3,525	3,575	3,675	3,775	3,875	20,875	3,323	3,014	45,637
NEW SERVICES-W/WW										
WS 2	New Water Service Laterals and Water Main Extensions	600	618	636	654	673	3,466	605	539	7,791
WS 4	New Hydrant and Valve Installation	125	128	130	133	136	694	146	113	1,605
WS 46	New Sewer Service Laterals and Sewer Main Extensions	480	504	529	555	582	3,056	393	455	6,554
TOTAL NEW SERVICES-W/WW		1,205	1,250	1,295	1,342	1,391	7,216	1,144	1,107	15,950
ANNEXATION										
WS 7	Phase V Annexation - Water Main Extension	4,010	2,121	1,695	2,461	3,680	3,704	539	562	18,772
WS 55	Phase V Annexation	29,777	24,735	24,141	21,564	25,170	25,450	76,501	18,240	245,578
TOTAL ANNEXATION		33,787	26,856	25,836	24,025	28,850	29,154	77,040	18,802	264,350
REHABILITATION-W/WW										
WS 3	Water Lateral Renewals (PWC Forces)	900	945	992	1,042	1,095	5,749	899	800	12,422
WS 5	Water Distribution System Rehabilitation	6,000	6,750	7,500	8,500	9,500	62,050	5,280	5,147	110,727
WS 47	Sewer Lateral Renewals (PWC Forces)	750	769	788	808	828	4,243	602	730	9,518
WS 48	Lift Station Rehabilitation	610	610	0	0	0	0	197	600	2,017

SUMMARY BY CATEGORY

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
(Dollars in thousands)										
WS 49	Sanitary Sewer Manhole Rehabilitation	2,100	2,200	2,300	2,400	2,500	14,000	1,543	1,950	28,993
WS 50	Sanitary Sewer Main Rehabilitation	6,000	7,000	8,000	9,000	10,000	64,750	5,167	5,327	115,244
WS 78	Sewer Main Rehab - Mintz Pond and Kornbow Lake	5	410	710	0	0	0	0	0	1,125
TOTAL REHABILITATION-W/WW		16,365	18,684	20,290	21,750	23,923	150,792	13,688	14,554	280,046
OUTFALL REHABILITATION										
WS 51	Line 54" Outfall - Research Drive to I-95	5	110	610	1,810	0	0	2	18	2,555
WS 59	Line North Street Outfall, Milan Road to Gale Street	0	0	0	10	910	0	0	0	920
WS 65	Rehabilitation of the Blounts Creek Outfall, Campbell to Rt	0	560	0	0	0	0	0	0	560
WS 66	Line the Cross Creek Outfall, Blue Street to Gale Street	2,595	0	0	0	0	0	542	963	4,100
WS 68	Line Beaver Creek Outfall, Phase II	0	0	210	2,010	0	0	0	0	2,220
WS 69	Line the Beaver Creek Outfall, Phase III	0	0	0	10	510	1,205	0	0	1,725
WS 70	Line Beaver Creek Outfall, Phase IV	0	0	0	0	0	1,725	0	0	1,725
WS 71	Line Beaver Creek Outfall, Phase V	0	0	0	0	0	1,725	0	0	1,725
WS 72	Line Beaver Creek Outfall, Phase VI	0	0	0	0	0	210	0	0	210
WS 73	Line 54" Outfall - I-95 to Claude Lee Road	0	0	0	10	710	1,405	0	0	2,125
WS 74	Line 54-Inch Outfall, Claude Lee Road to Pennystone Driv	0	0	0	0	0	2,530	0	0	2,530
WS 75	Line 54-Inch Outfall, Pennystone Drive to Laurelwood Plac	0	0	0	0	0	10	0	0	10
TOTAL OUTFALL REHABILITATION		2,600	670	820	3,850	2,130	8,810	544	981	20,405
PLANT IMPROVEMENTS-W/WW										
WS 21	Glenville Lake Filter Control Modifications	0	2,145	0	0	0	0	101	5	2,251
WS 24	Replace Standby Power Generator at the PO Hoffer WTP	0	0	1,985	0	0	0	0	0	1,985
WS 25	PO Hoffer WTP / Glenville Lake WTP Reliability Improver	2,941	3,801	0	0	0	0	0	0	6,742
WS 81	Cross Creek WRF Reliability Improvements	0	1,225	10,299	8,426	0	0	0	0	19,950
WS 82	Replace Standby Power Generator at the Cross Creek WF	0	2,135	0	0	0	0	0	0	2,135
WS 83	Replace Clarifier #3 Mechanism at the Rockfish Creek WF	0	360	0	0	0	0	0	0	360
WS 85	Rockfish Creek WRF Screening Improvements	1,870	565	0	0	0	0	34	220	2,689
WS 86	Replace Rockfish Creek WRF IPS Screw Pumps #1 and #	0	15	940	0	0	0	0	0	955
WS 87	Replace Rockfish Creek WRF IPS Screw Pumps #3 and #	0	0	15	940	0	0	0	0	955
WS 106	Replace Standby Power Generator at the Rockfish Creek W	2,545	0	0	0	0	0	0	0	2,545
TOTAL PLANT IMPROVEMENTS-W/WW		7,356	10,246	13,239	9,366	0	0	135	225	40,567
PLANT EXPANSION-W/WW										
WS 22	PO Hoffer WTF Capacity Expansion, Phase 2	0	0	0	0	60	39,615	2,837	25	42,537
WS 23	PO Hoffer WTF Capacity Expansion, Phase 3 – Residuals	315	505	305	8,615	7,430	0	0	0	17,170
WS 84	Rockfish Creek WRF Expansion Phase 3	40	3,609	5,758	24,353	27,829	17,401	191	593	79,774
TOTAL PLANT EXPANSION-W/WW		355	4,114	6,063	32,968	35,319	57,016	3,028	618	139,481
HURRICANE MATTHEW-W/WW										
WS 27	Hurricane Matthew Improvement of Water Mains	605	0	0	0	0	0	425	398	1,428
WS 54	Kennedy Street Aerial Sewer Replacement	211	0	0	0	0	0	45	156	412
WS 89	Hurricane Matthew Improvement of Sewer Mains	450	0	0	0	0	0	1,897	2,759	5,106
TOTAL HURRICANE MATTHEW-W/WW		1,266	0	0	0	0	0	2,367	3,313	6,946
OTHER W/WW SYSTEM IMPROVEMENTS										
WS 1	Land and Land Rights - Water	20	20	20	20	20	100	26	75	301
WS 6	Braxton Road 12" Water Main Extension	0	0	85	385	130	0	0	0	600
WS 8	Replace Existing Water Mains not Encased Under Railroa	890	975	980	1,005	705	0	553	796	5,904
WS 9	Chicken Foot Road 16" Water Main Interconnect	678	677	0	0	0	0	67	114	1,536
WS 10	West Fayetteville Pressure Zone Improvements	210	2,960	5,520	2,370	0	0	0	0	11,060
WS 11	Sandhill Road 12" Water Main Extension	0	0	150	585	450	0	0	0	1,185
WS 12	Cliffdale Road Transmission Water Main Improvements	930	720	0	0	0	0	0	130	1,780

SUMMARY BY CATEGORY

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
(Dollars in thousands)										
WS 13	Hillsboro Street Water Main Replacement	0	0	0	115	225	695	0	0	1,035
WS 14	US HWY 401 North - Booster Pump Station (Contract 2)	670	0	0	0	0	0	273	1,017	1,960
WS 15	US HWY 401 North - Elevated Water Tank (Contract 3)	18	2,100	0	0	0	0	237	10	2,365
WS 16	High Pressure Zone Transmission Water Main Improve	265	365	515	3,365	2,910	0	0	80	7,500
WS 17	Kings Grant Water Main Looping	0	0	0	165	145	555	0	0	865
WS 18	Gillespie Street Water Main Replacement	0	0	160	260	2,130	855	0	0	3,405
WS 19	Southern Avenue Water Main Replacement, Camden to G	0	0	0	0	155	2,625	0	0	2,780
WS 20	Southern Avenue Water Main Replacement, Camden to G	0	0	0	0	0	3,030	0	0	3,030
WS 28	Utility Improvements for the Town of Hope Mills Stormwa	25	25	25	25	25	125	101	2	353
WS 45	Land and Land Rights - Sewer	20	20	20	20	20	100	21	19	240
WS 52	Rockfish Creek Basin Peak Flow Facilities	5,598	10,505	0	0	0	0	1,244	626	17,973
WS 53	Freedom Town Center Sewer Replacement	540	545	0	0	0	0	165	15	1,265
WS 56	Replacement of the Shadowlawn Aerial Sewer Crossing	185	1,070	0	0	0	0	0	80	1,335
WS 57	Lamon Street Aerial Sewer Replacement	0	0	185	1,185	1,630	0	0	0	3,000
WS 58	McFadyen Lake Sewer Main Rehabilitation	0	0	0	0	405	3,290	0	0	3,695
WS 60	Old Wilmington Road Sewer Upgrades	0	0	0	0	0	3,960	6	0	3,966
WS 61	Murchison Road Sewer Improvements, (Jasper St. to Murr	5	815	815	0	0	0	31	13	1,679
WS 62	B Street Parallel Sewer	0	0	0	0	30	1,475	0	0	1,505
WS 63	Branson Creek Interceptor Replacement, Phase I	0	35	190	375	880	0	0	0	1,480
WS 64	Branson Creek Interceptor Replacement, Phase II	0	0	0	55	260	1,740	0	0	2,055
WS 67	Replacement of the Cross Creek Outfall, Greensboro Stre	315	3,085	525	0	0	0	0	0	3,925
WS 76	Big Rockfish Sanitary Sewer Outfall	8,427	8,780	4,029	0	0	0	1,109	1,994	24,339
WS 77	Big Rockfish Sanitary Sewer Outfall - Lift Station Eliminac	396	207	1,631	2,432	0	0	319	858	5,843
WS 79	Lift Station Electrical Upgrades	0	35	110	230	985	1,060	0	1	2,421
WS 80	North Fayetteville Lift Station Upgrades - Phase 4	210	850	215	0	0	0	0	62	1,337
WS 88	Longview Lift Station and Force Main Upgrade	45	1,060	375	0	0	0	19	120	1,619
WS 91	Utility Improvements for the Town of Hope Mills Stormwa	25	25	25	25	25	125	91	2	343
TOTAL OTHER WWW SYSTEM IMPROVEMENTS		19,472	34,874	15,575	12,617	11,130	19,735	4,262	6,014	123,679
BUTLER WARNER GENERATION PLANT										
EL 45	Heat Exchanger Upgrade	430	0	0	0	0	0	319	585	1,334
EL 46	BWGP Heat Recovery Steam Generator Boiler Tube Repl	5,000	5,000	0	0	0	0	0	0	10,000
EL 47	BWGP Water Purification System	350	0	0	0	0	0	0	0	350
TOTAL BUTLER WARNER GENERATION PLANT		5,780	5,000	0	0	0	0	319	585	11,684
SUBSTATIONS										
EL 10	UG Feeder Exit Replacement Substations	500	500	500	500	500	2,500	186	375	5,561
EL 24	Distribution Substation Equipment Replacement	100	100	100	100	125	625	9	85	1,244
EL 27	T/D Substation Control Building Replacement	400	400	400	400	400	2,000	0	375	4,375
EL 28	Transmission - Distribution Substation Oil Containment Sy	0	100	0	0	0	0	429	0	529
EL 29	Bordeaux 67-12 kV Substation Rebuild	100	0	0	0	0	0	132	2,000	2,232
EL 30	Black & Decker Substation Rebuild	2,000	100	0	0	0	0	0	0	2,100
EL 31	Cumberland Road 66 -12 kV Substation Rebuild	100	2,000	100	0	0	0	0	0	2,200
EL 32	PO Hoffer 66-12 kV Substation Rebuild	1,000	1,500	0	0	0	0	0	0	2,500
EL 33	FTI 66-12 kV Substation Rebuild and Relocation	50	1,000	2,200	500	0	0	0	0	3,750
EL 35	Distribution Substation 66-12 kV Power Transformer	1,750	875	875	875	875	4,375	0	850	10,475
EL 36	230-67kV Auto-Transformer	0	0	2,500	0	0	0	0	0	2,500
EL 37	POD IV 230-66 kV Substation	0	0	0	0	125	15,550	1,392	0	17,067
EL 38	ROW Additions Distribution	150	150	150	150	150	750	59	90	1,649
EL 39	POD V 230-66 kV Substation Property Acquisition	3,000	0	0	0	0	0	0	50	3,050
TOTAL SUBSTATIONS		9,150	6,725	6,825	2,525	2,175	25,800	2,207	3,825	59,232
LIGHTING										
EL 3	LED Area Lights - New Installations	450	450	450	450	450	2,250	369	421	5,290
EL 4	LED Area Lights - Replacements/Conversion	100	0	0	0	0	0	2,735	2,200	5,035

SUMMARY BY CATEGORY

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
(Dollars in thousands)										
EL 14	Thoroughfare LED Lighting - New Installations	50	50	50	50	50	250	10	0	510
EL 15	Thoroughfare LED Roadway Lighting-Conversion	200	0	0	0	0	0	464	675	1,339
EL 50	Bragg Boulevard Gateway Improvement - Phase II	0	0	0	0	0	2,300	0	0	2,300
	TOTAL LIGHTING	800	500	500	500	500	4,800	3,578	3,296	14,474
ELECTRIC SYSTEM IMPROVEMENTS										
EL 7	Underground Infrastructure Replacement - Residential	2,500	2,750	3,000	3,250	3,500	21,250	884	2,200	39,334
EL 8	Underground Infrastructure Replacement - Non Residential	500	500	500	550	550	2,850	2,512	720	8,682
EL 9	Underground Distribution Infrastructure Replacements (Nc	850	1,000	1,000	1,000	1,000	5,000	896	750	11,496
EL 11	Overhead Distribution System Circuit Improvements	75	75	75	75	75	375	92	45	887
EL 12	Distribution System Sectionalizing	700	500	250	250	250	1,250	4	245	3,449
EL 13	Overhead Infrastructure Improvements	1,000	1,250	1,250	1,500	1,500	5,250	277	1,081	13,108
EL 16	Conservation Load Reduction (CVR)	500	500	500	500	50	250	1,124	360	3,784
EL 17	System Reactive Power Compensation	600	200	100	50	25	125	1,148	1,500	3,748
EL 19	SONET Communications for Smart Grid	250	250	250	250	50	150	544	175	1,919
EL 20	Distribution Automation	750	1,000	1,250	1,500	1,750	11,500	263	355	18,368
EL 21	Sub-Transmission Pole Replacement	1,500	1,500	1,500	1,500	1,500	7,500	1,157	1,450	17,607
EL 22	Distribution Circuit Breaker Replacement	350	350	350	350	350	2,000	252	345	4,347
EL 23	66 kV System Sectionalizing Improvements	300	300	300	300	300	1,500	10	275	3,285
EL 25	T/D Sub Differential and Back-Up Overcurrent Relay Repl	150	150	150	150	150	750	93	125	1,718
EL 26	T/D Sub 66 kV Power Transformer Protection Equipment I	400	400	400	400	450	2,250	683	375	5,358
EL 40	POD I 230 kV Switch Replacement	250	0	0	0	0	0	0	0	250
EL 48	Battery Storage	500	2,000	2,000	0	0	0	0	0	4,500
EL 49	Renewable Resource Development	0	250	250	6,000	10,000	0	0	0	16,500
	TOTAL ELECTRIC SYSTEM IMPROVEMENTS	11,175	12,975	13,125	17,625	21,500	62,000	9,939	10,001	158,340
	TOTAL ALL PROJECTS	127,166	140,622	120,923	171,398	154,555	491,696	134,417	91,597	1,432,374

SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
CUSTOMER PROGRAMS										
CP 1	Electric Meters and Metering Equipment	215	218	220	222	224	1,155	228	370	2,852
	ELECTRIC FUND	215	218	220	222	224	1,155	228	370	2,852
CP 2	Water Meters	283	289	297	299	304	1,635	384	350	3,841
	WATER/SEWER FUND	283	289	297	299	304	1,635	384	350	3,841
	TOTAL CUSTOMER PROGRAMS	498	507	517	521	528	2,790	612	720	6,693
CORPORATE SERVICES										
CS 1	Robert C. Williams Business Center Upfit	0	60	60	60	60	300	20	0	560
CS 2	Fleet Bay Expansion	205	0	0	0	0	0	331	4,000	4,536
CS 3	Multipurpose Building	0	0	300	8,910	1,140	0	0	0	10,350
CS 4	Upgrade Warehouse Yard	50	0	0	0	0	0	212	283	545
CS 5	Replace Fuel Island Diesel Storage Tank	95	0	0	0	0	0	0	0	95
CS 6	Emergency Operations Facility	220	0	0	0	0	0	0	660	880
CS 7	Relocate King Street Pole Yard	150	0	0	0	0	0	0	0	150
	ELECTRIC FUND	720	60	360	8,970	1,200	300	563	4,943	17,115
CS 2	Fleet Bay Expansion	205	0	0	0	0	0	331	4,000	4,536
CS 4	Upgrade Warehouse Yard	50	0	0	0	0	0	212	283	545
CS 5	Replace Fuel Island Diesel Storage Tank	95	0	0	0	0	0	0	0	95
	WATER FUND	350	0	0	0	0	0	543	4,283	5,175
	TOTAL CORPORATE SERVICES	1,070	60	360	8,970	1,200	300	1,105	9,226	22,291
WATER RESOURCES										
WS 1	Land and Land Rights - Water	20	20	20	20	20	100	26	75	301
WS 2	New Water Service Laterals and Water Main Extensions	600	618	636	654	673	3,466	605	539	7,791
WS 3	Water Lateral Renewals (PWC Forces)	900	945	992	1,042	1,095	5,749	899	800	12,422
WS 4	New Hydrant and Valve Installation	125	128	130	133	136	694	146	113	1,605
WS 5	Water Distribution System Rehabilitation	6,000	6,750	7,500	8,500	9,500	62,050	5,280	5,147	110,727
WS 6	Braxton Road 12" Water Main Extension	0	0	85	385	130	0	0	0	600
WS 8	Replace Existing Water Mains not Encased Under Railroad	890	975	980	1,005	705	0	553	796	5,904
WS 9	Chicken Foot Road 16" Water Main Interconnect	678	677	0	0	0	0	67	114	1,536
WS 10	West Fayetteville Pressure Zone Improvements	210	0	0	0	0	0	0	0	210
WS 11	Sandhill Road 12" Water Main Extension	0	0	150	585	450	0	0	0	1,185
WS 12	Cliffdale Road Transmission Water Main Improvements	930	720	0	0	0	0	0	130	1,780
WS 13	Hillsboro Street Water Main Replacement	0	0	0	115	225	695	0	0	1,035
WS 16	High Pressure Zone Transmission Water Main Improvement	265	0	0	0	0	0	0	80	345
WS 17	Kings Grant Water Main Looping	0	0	0	165	145	555	0	0	865
WS 21	Glenville Lake Filter Control Modifications	0	2,145	0	0	0	0	101	5	2,251
WS 24	Replace Standby Power Generator at the PO Hoffer WTP	0	0	1,985	0	0	0	0	0	1,985
WS 26	Utility Improvements for City of Fayetteville Storm Drainage	150	270	270	270	270	1,350	145	148	2,873
WS 28	Utility Improvements for the Town of Hope Mills Stormwater	25	25	25	25	25	125	101	2	353
WS 29	Utility Improvements for NCDOT Resurfacing and Stormwater	50	50	50	50	50	250	49	5	554
WS 30	NCDOT U-6001 NC 59 Widening, Parkton Road to US 301	330	1,115	1,430	60	60	0	0	111	3,106
WS 31	NCDOT U-6072A SR1112 (Rockfish Rd) from Strickland Bri	0	0	0	0	0	661	0	0	661
WS 32	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC	0	0	0	437	956	874	0	0	2,267
WS 33	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	585	270	370	340	250	265	1,409	100	3,589
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South	18	15	15	10	0	0	14	0	72

SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
WS 35	NCDOT U-4403 Ramsey Street Widening - Water	1,000	975	250	250	225	2,125	17	531	5,373
WS 36	NCDOT U-4404 Cliffdale Road Widening - Water	180	125	110	55	55	0	0	3	528
WS 37	NCDOT U-4900 Murchison Road Widening - Water	530	180	185	125	125	125	0	26	1,296
WS 38	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - Water	0	825	440	170	170	50	0	0	1,655
WS 39	DOTR U-5798 A - Gillis Hill Rd Widening - Water	200	185	11	0	0	0	0	69	465
WS 40	NCDOT U-5798 B - Gillis Hill Road Widening - Water	205	180	100	40	0	0	0	0	525
WS 41	NCDOT U-3422 Camden Rd Widening - Water	1,000	335	135	135	0	0	67	157	1,829
WS 42	NCDOT U-2519A A/AB - Fayetteville Outer Loop from South	20	15	0	0	0	0	6	6	47
WS 43	NCDOT U-4414 - All American Freeway Widening from Owe	50	98	94	25	28	112	0	0	407
WS 44	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - V	30	15	100	70	35	0	7	38	295
WS 45	Land and Land Rights - Sewer	20	20	20	20	20	100	21	19	240
WS 46	New Sewer Service Laterals and Sewer Main Extensions	480	504	529	555	582	3,056	393	455	6,554
WS 47	Sewer Lateral Renewals (PWC Forces)	750	769	788	808	828	4,243	602	730	9,518
WS 48	Lift Station Rehabilitation	610	610	0	0	0	0	197	600	2,017
WS 49	Sanitary Sewer Manhole Rehabilitation	2,100	2,200	2,300	2,400	2,500	14,000	1,543	1,950	28,993
WS 50	Sanitary Sewer Main Rehabilitation	6,000	7,000	8,000	9,000	10,000	64,750	5,167	5,327	115,244
WS 51	Line 54" Outfall - Research Drive to I-95	5	0	0	0	0	0	2	18	25
WS 52	Rockfish Creek Basin Peak Flow Facilities	98	53	0	0	0	0	0	0	151
WS 53	Freedom Town Center Sewer Replacement	540	545	0	0	0	0	165	15	1,265
WS 54	Kennedy Street Aerial Sewer Replacement	211	0	0	0	0	0	45	156	412
WS 56	Replacement of the Shadowlawn Aerial Sewer Crossing	185	1,070	0	0	0	0	0	80	1,335
WS 57	Lamon Street Aerial Sewer Replacement	0	0	185	1,185	1,630	0	0	0	3,000
WS 58	McFadyen Lake Sewer Main Rehabilitation	0	0	0	0	405	3,290	0	0	3,695
WS 59	Line North Street Outfall, Milan Road to Gale Street	0	0	0	10	910	0	0	0	920
WS 60	Old Wilmington Road Sewer Upgrades	0	0	0	0	0	0	6	0	6
WS 61	Murchison Road Sewer Improvements, (Jasper St. to Murch	5	815	815	0	0	0	31	13	1,679
WS 62	B Street Parallel Sewer	0	0	0	0	30	1,475	0	0	1,505
WS 63	Branson Creek Interceptor Replacement, Phase I	0	35	190	375	880	0	0	0	1,480
WS 64	Branson Creek Interceptor Replacement, Phase II	0	0	0	55	260	1,740	0	0	2,055
WS 65	Rehabilitation of the Blounts Creek Outfall, Campbell to Rus	0	560	0	0	0	0	0	0	560
WS 67	Replacement of the Cross Creek Outfall, Greensboro Street	315	3,085	525	0	0	0	0	0	3,925
WS 71	Line Beaver Creek Outfall, Phase V	0	0	0	0	0	1,725	0	0	1,725
WS 72	Line Beaver Creek Outfall, Phase VI	0	0	0	0	0	210	0	0	210
WS 74	Line 54-Inch Outfall, Claude Lee Road to Pennystone Drive	0	0	0	0	0	2,530	0	0	2,530
WS 75	Line 54-Inch Outfall, Pennystone Drive to Laurelwood Place	0	0	0	0	0	10	0	0	10
WS 76	Big Rockfish Sanitary Sewer Outfall	180	471	138	0	0	0	0	0	789
WS 77	Big Rockfish Sanitary Sewer Outfall - Lift Station Elimination	10	25	132	137	0	0	0	0	304
WS 78	Sewer Main Rehab - Mintz Pond and Kornbow Lake	5	410	710	0	0	0	0	0	1,125
WS 79	Lift Station Electrical Upgrades	0	35	110	230	985	1,060	0	1	2,421
WS 80	North Fayetteville Lift Station Upgrades - Phase 4	210	850	215	0	0	0	0	62	1,337
WS 82	Replace Standby Power Generator at the Cross Creek WRF	0	2,135	0	0	0	0	0	0	2,135
WS 83	Replace Clarifier #3 Mechanism at the Rockfish Creek WRF	0	360	0	0	0	0	0	0	360
WS 85	Rockfish Creek WRF Screening Improvements	1,870	565	0	0	0	0	34	220	2,689
WS 86	Replace Rockfish Creek WRF IPS Screw Pumps #1 and #2	0	15	940	0	0	0	0	0	955
WS 87	Replace Rockfish Creek WRF IPS Screw Pumps #3 and #4	0	0	15	940	0	0	0	0	955
WS 88	Longview Lift Station and Force Main Upgrade	45	0	0	0	0	0	19	120	184
WS 90	Utility Improvements for City of Fayetteville Storm Drainage	100	230	230	230	230	1,150	70	43	2,283
WS 91	Utility Improvements for the Town of Hope Mills Stormwater	25	25	25	25	25	125	91	2	343
WS 92	Utility Improvements for NCDOT Resurfacing and Stormwater	10	10	10	10	10	50	40	2	142
WS 93	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC	0	0	0	68	88	114	0	0	270
WS 94	NCDOT U-2519B A/BB Fayetteville Outer Loop from South	10	10	5	2	0	0	10	4	41
WS 95	NCDOT U-4403 Ramsey Street Widening - Sewer	340	190	140	140	140	815	312	220	2,297
WS 96	NCDOT U-4404 Cliffdale Road Widening - Sewer	70	55	40	30	30	0	0	3	228
WS 97	NCDOT U-4900 Murchison Road Widening - Sewer	170	85	85	45	45	45	0	85	560

SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
WS 98	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - S	0	320	165	45	45	20	0	0	595
WS 99	DOTR U-5798 A - Gillis Hill Rd Widening - Sewer	63	48	25	0	0	0	0	10	146
WS 100	NCDOT U-5798 B - Gillis Hill Road Widening - Sewer	43	43	20	10	0	0	0	0	116
WS 101	NCDOT U-3422 Camden Rd Widening - Sewer	120	80	30	25	0	0	14	24	293
WS 102	NCDOT U-6072A SR1112 (Rockfish Rd) from Strickland Bri	0	0	0	0	0	95	0	0	95
WS 103	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	1,220	95	180	150	140	175	350	149	2,459
WS 104	NCDOT U-4414 - All American Freeway Widening from Owe	18	59	73	14	17	69	0	0	250
WS 105	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - S	10	10	20	20	15	0	4	7	86
WS 106	Replace Standby Power Generator at the Rockfish Creek W	2,545	0	0	0	0	0	0	0	2,545
WATER/SEWER FUND		33,374	41,048	32,723	31,195	35,143	180,093	18,608	19,310	391,494
TOTAL WATER/SEWER FUND		33,374	41,048	32,723	31,195	35,143	180,093	18,608	19,310	391,494
WS 23	PO Hoffer WTF Capacity Expansion, Phase 3 – Residuals F	315	505	305	8,615	7,430	0	0	0	17,170
WS 25	PO Hoffer WTP / Glenville Lake WTP Reliability Improve	2,941	3,801	0	0	0	0	0	0	6,742
WS 52	Rockfish Creek Basin Peak Flow Facilities	5,500	10,452	0	0	0	0	1,244	626	17,822
WS 76	Big Rockfish Sanitary Sewer Outfall	8,247	8,309	3,891	0	0	0	1,109	1,994	23,550
WS 77	Big Rockfish Sanitary Sewer Outfall - Lift Station Elimination	386	182	1,499	2,295	0	0	319	858	5,539
WS 81	Cross Creek WRF Reliability Improvements	0	1,225	10,299	8,426	0	0	0	0	19,950
WS 94	NCDOT U-2519B A/BB Fayetteville Outer Loop from South	0	0	0	315	0	0	0	0	315
NC STATE LOAN FUND		17,389	24,474	15,994	19,651	7,430	0	2,672	3,478	91,088
WS 30	NCDOT U-6001 NC 59 Widening, Parkton Road to US 301 -	0	0	0	0	2,900	0	0	0	2,900
WS 32	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC	0	0	0	0	0	7,032	0	0	7,032
WS 33	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	0	0	0	2,500	0	11,000	0	0	13,500
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South	0	0	0	5,150	0	0	0	0	5,150
WS 35	NCDOT U-4403 Ramsey Street Widening - Water	0	0	0	0	6,500	0	0	0	6,500
WS 36	NCDOT U-4404 Cliffdale Road Widening - Water	0	0	0	0	700	0	0	0	700
WS 37	NCDOT U-4900 Murchison Road Widening - Water	0	0	0	0	0	5,500	0	0	5,500
WS 38	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - S	0	0	0	0	0	4,000	0	0	4,000
WS 39	DOTR U-5798 A - Gillis Hill Rd Widening - Water	0	1,220	0	0	0	0	0	0	1,220
WS 40	NCDOT U-5798 B - Gillis Hill Road Widening - Water	0	0	0	1,450	0	0	0	0	1,450
WS 41	NCDOT U-3422 Camden Rd Widening - Water	0	0	0	11,000	0	0	0	0	11,000
WS 42	NCDOT U-2519A A/AB - Fayetteville Outer Loop from South	0	668	0	0	0	0	0	0	668
WS 43	NCDOT U-4414 - All American Freeway Widening from Owe	0	0	0	0	0	2,781	0	0	2,781
WS 44	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - V	0	0	0	0	3,000	0	0	0	3,000
WS 93	NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC	0	0	0	0	0	449	0	0	449
WS 94	NCDOT U-2519B A/BB Fayetteville Outer Loop from South	0	0	0	19	0	0	0	0	19
WS 95	NCDOT U-4403 Ramsey Street Widening - Sewer	0	0	0	0	2,050	0	0	0	2,050
WS 96	NCDOT U-4404 Cliffdale Road Widening - Sewer	0	0	0	0	500	0	0	0	500
WS 97	NCDOT U-4900 Murchison Road Widening - Sewer	0	0	0	0	0	1,000	0	0	1,000
WS 98	NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - S	0	0	0	0	0	1,300	0	0	1,300
WS 99	DOTR U-5798 A - Gillis Hill Rd Widening - Sewer	0	725	0	0	0	0	0	0	725
WS 101	NCDOT U-3422 Camden Rd Widening - Sewer	0	0	0	900	0	0	0	0	900
WS 103	NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks	0	0	0	200	0	7,500	0	0	7,700
WS 104	NCDOT U-4414 - All American Freeway Widening from Owe	0	0	0	0	0	1,501	0	0	1,501
WS 105	NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - S	0	0	0	0	825	0	0	0	825
NC DOT RESERVE-WWW		0	2,613	0	21,219	16,475	42,063	0	0	82,370
WS 7	Phase V Annexation - Water Main Extension	4,010	2,121	1,695	2,461	3,680	3,704	539	562	18,772
WS 34	NCDOT U-2519B A/BB Fayetteville Outer Loop from South	0	0	0	577	0	0	0	0	577
WS 55	Phase V Annexation	29,777	24,735	24,141	21,564	25,170	25,450	76,501	18,240	245,578
WS 94	NCDOT U-2519B A/BB Fayetteville Outer Loop from South	0	0	0	417	0	0	0	0	417

SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
WS 99	DOTR U-5798 A - Gillis Hill Rd Widening - Sewer	20	30	25	0	0	0	0		75
WS 100	NCDOT U-5798 B - Gillis Hill Road Widening - Sewer	20	30	20	1,010	0	0	0		1,080
ANNEX V RESERVE		33,827	26,916	25,881	26,029	28,850	29,154	77,040	18,802	266,499
WS 10	West Fayetteville Pressure Zone Improvements	0	2,960	5,520	2,370	0	0	0	0	10,850
WS 14	US HWY 401 North - Booster Pump Station (Contract 2)	670	0	0	0	0	0	273	1,017	1,960
WS 15	US HWY 401 North - Elevated Water Tank (Contract 3)	18	2,100	0	0	0	0	237	10	2,365
WS 16	High Pressure Zone Transmission Water Main Improvement	0	365	515	3,365	2,910	0	0	0	7,155
WS 18	Gillespie Street Water Main Replacement	0	0	160	260	2,130	855	0	0	3,405
WS 19	Southern Avenue Water Main Replacement, Camden to Gill	0	0	0	0	155	2,625	0	0	2,780
WS 20	Southern Avenue Water Main Replacement, Camden to Gill	0	0	0	0	0	3,030	0	0	3,030
WS 22	PO Hoffer WTF Capacity Expansion, Phase 2	0	0	0	0	60	39,615	2,837	25	42,537
WS 51	Line 54" Outfall - Research Drive to I-95	0	110	610	1,810	0	0	0	0	2,530
WS 60	Old Wilmington Road Sewer Upgrades	0	0	0	0	0	3,960	0	0	3,960
WS 66	Line the Cross Creek Outfall, Blue Street to Gale Street	2,595	0	0	0	0	0	542	963	4,100
WS 68	Line Beaver Creek Outfall, Phase II	0	0	210	2,010	0	0	0	0	2,220
WS 69	Line the Beaver Creek Outfall, Phase III	0	0	0	10	510	1,205	0	0	1,725
WS 70	Line Beaver Creek Outfall, Phase IV	0	0	0	0	0	1,725	0	0	1,725
WS 73	Line 54" Outfall - I-95 to Claude Lee Road	0	0	0	10	710	1,405	0	0	2,125
WS 84	Rockfish Creek WRF Expansion Phase 3	40	3,609	5,758	24,353	27,829	17,401	191	593	79,774
WS 88	Longview Lift Station and Force Main Upgrade	0	1,060	375	0	0	0	0	0	1,435
BONDS		3,323	10,204	13,148	34,188	34,304	71,821	4,080	2,608	173,676
WS 27	Hurricane Matthew Improvement of Water Mains	605	0	0	0	0	0	425	398	1,428
WS 89	Hurricane Matthew Improvement of Sewer Mains	450	0	0	0	0	0	1,897	2,759	5,106
HURRICANE MATTHEW CAPITAL PROJECT FUND		1,055	0	0	0	0	0	2,322	3,157	6,534
TOTAL OTHER FUNDS		55,594	64,207	55,023	101,087	87,059	143,038	86,114	28,045	620,167
TOTAL WATER RESOURCES		88,968	105,255	87,746	132,282	122,202	323,131	104,722	47,355	1,011,661
ELECTRIC SYSTEMS										
EL 1	Underground Distribution Infrastructure Installations – New	1,500	1,600	1,650	1,700	1,750	9,500	1,873	1,400	20,973
EL 2	Overhead Infrastructure Installation - New	25	25	25	25	25	125	45	54	349
EL 3	LED Area Lights - New Installations	450	450	450	450	450	2,250	369	421	5,290
EL 5	Padmount Transformers	1,000	1,050	1,100	1,150	1,200	6,750	929	905	14,084
EL 6	Overhead Transformers	400	400	400	400	400	2,000	270	405	4,675
EL 7	Underground Infrastructure Replacement - Residential	2,500	2,750	3,000	3,250	3,500	21,250	884	2,200	39,334
EL 8	Underground Infrastructure Replacement - Non Residential	500	500	500	550	550	2,850	2,512	720	8,682
EL 9	Underground Distribution Infrastructure Replacements (Non-	850	1,000	1,000	1,000	1,000	5,000	896	750	11,496
EL 10	UG Feeder Exit Replacement Substations	500	500	500	500	500	2,500	186	375	5,561
EL 11	Overhead Distribution System Circuit Improvements	75	75	75	75	75	375	92	45	887
EL 12	Distribution System Sectionalizing	700	500	250	250	250	1,250	4	245	3,449
EL 13	Overhead Infrastructure Improvements	1,000	1,250	1,250	1,500	1,500	5,250	277	1,081	13,108
EL 14	Thoroughfare LED Lighting - New Installations	50	50	50	50	50	250	10	0	510
EL 16	Conservation Load Reduction (CVR)	500	500	500	500	50	250	1,124	360	3,784
EL 17	System Reactive Power Compensation	600	200	100	50	25	125	1,148	1,500	3,748
EL 18	Fiber Optic Cable Line Extensions for Electric System Auton	600	500	500	500	500	2,500	206	250	5,556
EL 19	SONET Communications for Smart Grid	250	250	250	250	50	150	544	175	1,919
EL 20	Distribution Automation	750	1,000	1,250	1,500	1,750	11,500	263	355	18,368
EL 21	Sub-Transmission Pole Replacement	1,500	1,500	1,500	1,500	1,500	7,500	1,157	1,450	17,607
EL 22	Distribution Circuit Breaker Replacement	350	350	350	350	350	2,000	252	345	4,347
EL 23	66 kV System Sectionalizing Improvements	300	300	300	300	300	1,500	10	275	3,285

SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
EL 24	Distribution Substation Equipment Replacement	100	100	100	100	125	625	9	85	1,244
EL 25	T/D Sub Differential and Back-Up Overcurrent Relay Replac	150	150	150	150	150	750	93	125	1,718
EL 26	T/D Sub 66 kV Power Transformer Protection Equipment Up	400	400	400	400	450	2,250	683	375	5,358
EL 27	T/D Substation Control Building Replacement	400	400	400	400	400	2,000	0	375	4,375
EL 28	Transmission - Distribution Substation Oil Containment Syst	0	100	0	0	0	0	429	0	529
EL 34	CoF Langdon St Widening Project	0	0	0	300	0	0	0	0	300
EL 36	230-67kV Auto-Transformer	0	0	2,500	0	0	0	0	0	2,500
EL 38	ROW Additions Distribution	150	150	150	150	150	750	59	90	1,649
EL 39	POD V 230-66 kV Substation Property Acquisition	3,000	0	0	0	0	0	0	50	3,050
EL 40	POD I 230 kV Switch Replacement	250	0	0	0	0	0	0	0	250
EL 41	Downtown UG Infrastructure Reliability Improvements	1,000	500	0	0	0	0	66	275	1,841
EL 42	Underground Distribution / Streetscape Improvement	50	50	50	50	50	250	7	0	507
EL 43	CoF Person St 300 - 600 Block Streetscape Improvement	0	0	0	0	0	1,650	25	0	1,675
EL 44	DMS Software and Implementation	750	250	0	0	0	0	0	0	1,000
EL 45	Heat Exchanger Upgrade	430	0	0	0	0	0	319	585	1,334
EL 47	BWGP Water Purification System	350	0	0	0	0	0	0	0	350
EL 48	Battery Storage	500	2,000	2,000	0	0	0	0	0	4,500
EL 50	Bragg Boulevard Gateway Improvement - Phase II	0	0	0	0	0	2,300	0	0	2,300
ELECTRIC FUND		21,930	18,850	20,750	17,400	17,100	95,450	14,741	15,271	221,492
EL 4	LED Area Lights - Replacements/Conversion	100	0	0	0	0	0	2,735	2,200	5,035
EL 15	Thoroughfare LED Roadway Lighting-Conversion	200	0	0	0	0	0	464	675	1,339
EL 49	Renewable Resource Development	0	250	250	6,000	10,000	0	0	0	16,500
REPS (INCLUDED IN ELECTRIC FUND)		300	250	250	6,000	10,000	0	3,199	2,875	22,874
EL 51	NCDOT U-5015 Murchison Road Improvement	0	0	0	0	0	2,000	0	0	2,000
EL 52	NCDOT Rowan Street Bridge Replacement	250	0	0	0	0	0	1,889	100	2,239
EL 54	NCDOT U-4403B Ramsey Street Widening	500	1,250	4,100	1,100	200	0	0	100	7,250
EL 55	NCDOT U-5798A Gillis Hill Road Widening	1,100	1,200	150	0	0	0	0	100	2,550
EL 56	NCDOT U-5798B Gillis Hill Road Widening	250	1,100	1,200	150	0	0	0	0	2,700
EL 57	NCDOT U-4900 Murchison Road Widening	0	325	775	150	0	0	0	0	1,250
EL 58	NCDOT U-5101 Stacey Weaver Drive Widening	0	100	150	200	225	7,000	0	0	7,675
EL 59	NCDOT U-4404 Cliffdale Road Widening	0	0	0	0	100	4,150	0	0	4,250
EL 60	NCDOT U-4403C Ramsey Street Widening US 401 By-Pas	300	500	750	750	1,250	26,000	0	0	29,550
EL 61	NCDOT U-6133 Cliffdale Road / Skibo Road Intersection Im	0	0	0	0	500	1,500	0	0	2,000
EL 62	NCDOT U-6209 Cliffdale Road Widening	0	0	0	0	0	3,950	0	0	3,950
EL 63	NCDOT U-6213 Ireland Drive Widening	0	0	0	0	0	3,250	0	0	3,250
EL 64	NCDOT U-4900 Murchison Road Widening	0	500	1,000	2,500	250	0	0	0	4,250
EL 65	NCDOT U-6152 Robeson Street Access Management	0	0	0	0	0	2,250	0	0	2,250
PARTICIPATION (INCLUDED IN ELECTRIC FUND)		2,400	4,975	8,125	4,850	2,525	50,100	1,889	300	75,164
EL 46	BWGP Heat Recovery Steam Generator Boiler Tube Replac	5,000	5,000	0	0	0	0	0	0	10,000
RESERVE (INCLUDED IN ELECTRIC FUND)		5,000	5,000	0	0	0	0	0	0	10,000
TOTAL ELECTRIC FUND		29,630	29,075	29,125	28,250	29,625	145,550	19,829	18,446	329,530
EL 29	Bordeaux 67-12 kV Substation Rebuild	100	0	0	0	0	0	132	2,000	2,232
EL 30	Black & Decker Substation Rebuild	2,000	100	0	0	0	0	0	0	2,100
EL 31	Cumberland Road 66 -12 kV Substation Rebuild	100	2,000	100	0	0	0	0	0	2,200
EL 32	PO Hoffer 66-12 kV Substation Rebuild	1,000	1,500	0	0	0	0	0	0	2,500
EL 33	FTI 66-12 kV Substation Rebuild and Relocation	50	1,000	2,200	500	0	0	0	0	3,750
EL 35	Distribution Substation 66-12 kV Power Transformer	1,750	875	875	875	875	4,375	0	850	10,475

SUMMARY BY FUNDING SOURCE

REF #	PROJECT NAME	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 26-30	PRE-FY 2020	FY 2020 EST.	TOTAL COST
<i>(Dollars in thousands)</i>										
EL 37	POD IV 230-66 kV Substation	0	0	0	0	125	15,550	1,392	0	17,067
	SUBSTATION CPF (FUNDED BY ELEC FUND)	5,000	5,475	3,175	1,375	1,000	19,925	1,524	2,850	40,324
EL 53	NCDOT U-4405 Raeford Road Widening	2,000	250	0	0	0	0	6,625	13,000	21,875
	DOT E RAEFORD RD CPF	2,000	250	0	0	0	0	6,625	13,000	21,875
	TOTAL ELECTRIC SYSTEMS	36,630	34,800	32,300	29,625	30,625	165,475	27,978	34,296	391,729
	TOTAL ALL PROJECTS	127,166	140,622	120,923	171,398	154,555	491,696	134,417	91,597	1,432,374
	TOTAL ELECTRIC FUND	27,865	24,128	21,330	26,592	18,524	96,905	15,532	20,584	251,459
	TOTAL ELECTRIC FD WITH OFFSETTING REVENUES	2,700	5,225	8,375	10,850	12,525	50,100	5,088	3,175	98,038
	TOTAL WATER/SEWER FUND	34,007	41,337	33,020	31,494	35,447	181,728	19,535	23,943	400,510
	TOTAL W/S FUND WITH OFFSETTING REVENUES	0	0							
	TOTAL ELECTRIC & W/WW FUNDS	64,572	70,690	62,725	68,936	66,496	328,733	40,154	47,702	750,008
	NC STATE LOAN FUND	17,389	24,474	15,994	19,651	7,430	0	2,672	3,478	91,088
	NCDOT RESERVE	0	2,613	0	21,219	16,475	42,063	0	0	82,370
	TOTAL ANNEX V RESERVE	33,827	26,916	25,881	26,029	28,850	29,154	77,040	18,802	266,499
	HURRICANE MATTHEW CAPITAL PROJECT FUND	1,055	0	0	0	0	0	2,322	3,157	6,534
	TOTAL BONDS	3,323	10,204	13,148	34,188	34,304	71,821	4,080	2,608	173,676
	TOTAL SUBSTATIONS CPF	5,000	5,475	3,175	1,375	1,000	19,925	1,524	2,850	40,324
	DOT E RAEFORD RD CPF	2,000	250	0	0	0	0	6,625	13,000	21,875
	TOTAL OTHER FUNDS	62,594	69,932	58,198	102,462	88,059	162,963	94,263	43,895	682,366
	TOTAL ALL FUNDS	127,166	140,622	120,923	171,398	154,555	491,696	134,417	91,597	1,432,374

PUBLIC WORKS COMMISSION

FY 2021

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Customer Programs

DIVISION CUSTOMER PROGRAMS A1370000	ACTIVITY AI370000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Electric Meters and Metering Equipment			High	Expansion	
			Medium	New	X
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000007		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

Cost of meters, labor and material for new construction and/or replacement of damaged meters. The price per unit will vary based on the meter type. FY21 estimate is based on 982 meters at a unit cost of \$219.56; FY22 estimate is based on 992 meters at a unit cost of \$219.56; FY23 estimate is based on 1,002 meters at a unit cost of \$219.56; FY24 estimate is based on 1,012 meters at a unit cost of \$219.56; FY25 estimate is based on 1,022 meters at a unit cost of \$219.56; FY26 estimate is based on 1,032 meters at a unit cost of \$219.56; FY27 estimate is based on 1,042 meters at a unit cost of \$219.56; FY28 estimate is based on 1,052 meters at a unit cost of \$219.56; FY29 estimate is based on 1,062 meters at a unit cost of \$219.56 and FY30 estimate is based on 1,072 meters at a unit cost of \$219.56.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	215,000	218,000	220,000	222,000	224,000	1,155,000	2,254,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	215,000	218,000	220,000	222,000	224,000	1,155,000	2,254,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							228,000
<i>FY2020 Estimate</i>							370,000
Total							2,852,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	215,000	218,000	220,000	222,000	224,000	1,155,000	2,254,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	215,000	218,000	220,000	222,000	224,000	1,155,000	2,254,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

CP 1

Customer Programs

DIVISION CUSTOMER PROGRAMS AI332000	ACTIVITY Water Distribution System	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Water Meters			High	Expansion	
			Medium	New	X
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000008		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

Cost of meters, labor and material for new construction and/or replacement of damaged meters. The price per unit will vary based on the meter type. FY21 estimate is based on 1,340 meters at a unit cost of \$210.87; FY22 estimate is based on 1,373 meters at a unit cost of \$210.87; FY23 estimate is based on 1,407 meters a unit cost of \$210.87; FY24 estimate is based on 1,421 meters at a unit cost of \$210.87; FY25 estimate is based on 1,442 meters at a unit cost of \$210.87; FY26 estimate is based on 1,477 meters at a unit cost of \$210.87; FY27 estimate is based on 1,513 meters at a unit cost of \$210.87; FY28 estimate is based on 1,550 meters at a unit cost of \$210.87; FY29 estimate is based on 1,588 meters at a unit cost of \$210.87 and FY30 estimate is based on 1,627 meters at a unit cost of \$210.87.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	283,000	289,000	297,000	299,000	304,000	1,635,000	3,107,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	283,000	289,000	297,000	299,000	304,000	1,635,000	3,107,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							384,000
<i>FY2020 Estimate</i>							350,000
Total							3,841,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	283,000	289,000	297,000	299,000	304,000	1,635,000	3,107,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	283,000	289,000	297,000	299,000	304,000	1,635,000	3,107,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

CP 2

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Corporate Services

DIVISION CORPORATE SERVICES AE 390000	ACTIVITY	CATEGORY Structures and Improvements	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Robert C. Williams Business Center Upfit			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000002	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

Allowance for renovating up to 7,200 sq. ft. of unleased space at the RCWBC. The unleased space is located on the 1st, 3rd and 4th floors of the RCWBC and has the potential to accommodate multiple tenants, providing steady revenue to PWC. The building is currently 83% occupied with 4 vacant suites.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	10,000	10,000	10,000	10,000	50,000	90,000
Construction	-	50,000	50,000	50,000	50,000	250,000	450,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	60,000	60,000	60,000	60,000	300,000	540,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							20,000
<i>FY2020 Estimate</i>							-
Total							560,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	60,000	60,000	60,000	60,000	300,000	540,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	60,000	60,000	60,000	60,000	300,000	540,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

CS 1

Corporate Services

DIVISION CORPORATE SERVICES AE 390000	ACTIVITY	CATEGORY Structures and Improvements	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Fleet Bay Expansion			High X	Expansion X
			Medium	New
			Low	Renovation
BID DATE		7/15/2019	BUDGET CODE	
START CONSTRUCTION DATE		10/14/2019	CPR1000258	
EXPECTED COMPLETION DATE		8/1/2020		

PROJECT DESCRIPTION & JUSTIFICATION

This project addresses the basic safety and renovation needs as determined by the facility assessment done in 2017 in order to continue the maintenance operations for PWC vehicles and equipment. A combination of renovating the existing space to improve the layout and functionality of the fleet administrative areas as well as adding on additional bays better suited to accommodate the height and length of large vehicles.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	10,000	-	-	-	-	-	10,000
Construction	400,000	-	-	-	-	-	400,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	410,000	-	-	-	-	-	410,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							661,000
<i>FY2020 Estimate</i>							8,001,000
Total							9,072,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	205,000	-	-	-	-	-	205,000
Water/Sewer Fund	205,000	-	-	-	-	-	205,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	410,000	-	-	-	-	-	410,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Corporate Services

DIVISION CORPORATE SERVICES AE 390000	ACTIVITY 390000	CATEGORY Structures and Improvements	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Multipurpose Building			High	Expansion X
			Medium X	New
			Low	Renovation
BID DATE		10/15/2022		
START CONSTRUCTION DATE		12/15/2023		
EXPECTED COMPLETION DATE		5/30/2025		
			BUDGET CODE CPR1000336	

PROJECT DESCRIPTION & JUSTIFICATION

The administration and operations buildings are nearing maximum capacity which creates continuing challenges in trying to host meetings with external agencies, conduct internal staff meetings and expand the wellness program offerings. This project will create additional space for meetings, administrative functions, and fitness programs and equipment. An additional 30+ parking spaces will also be included in the scope of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	300,000	10,000	40,000	-	350,000
Construction	-	-	-	8,900,000	1,100,000	-	10,000,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	-	300,000	8,910,000	1,140,000	-	10,350,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							10,350,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	300,000	8,910,000	1,140,000	-	10,350,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	300,000	8,910,000	1,140,000	-	10,350,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

CS 3

Corporate Services

DIVISION CORPORATE SERVICES AE 390000	ACTIVITY	CATEGORY Structures and Improvements	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Upgrade Warehouse Yard			High	Expansion	
			Medium	New	
			Low	Renovation	X
BID DATE		8/30/2019	BUDGET CODE		
START CONSTRUCTION DATE		9/1/2019	CPR1000345		
EXPECTED COMPLETION DATE		12/30/2020			

PROJECT DESCRIPTION & JUSTIFICATION

Warehouse yard renovations and improvements are needed to correct storm erosion issues, inventory staging and protection problems and poor road conditions for heavy equipment. Currently most long-term inventory items are stored directly on ground surfaces and exposed to rain and direct sunlight. The shelf life of sewer and water pipe stored on the yard is significantly reduced due to long term exposure to direct UV sunlight. The same is true for wood cable spools on ground surfaces. The scope of work for FY 2021 includes final asphalt paving in Electric Yard and pipe and electric reel storage racks to complete all required upgrades.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	100,000	-	-	-	-	-	100,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	100,000	-	-	-	-	-	100,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							424,000
<i>FY2020 Estimate</i>							565,000
Total							1,089,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	50,000	-	-	-	-	-	50,000
Water/Sewer Fund	50,000	-	-	-	-	-	50,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	100,000	-	-	-	-	-	100,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Corporate Services

DIVISION CORPORATE SERVICES AE 390000	ACTIVITY AI 390000	CATEGORY Structures and Improvements	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Replace Fuel Island Diesel Storage Tank			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	12/15/2020		BUDGET CODE	CPR1000461	
START CONSTRUCTION DATE	2/15/2021				
EXPECTED COMPLETION DATE	6/15/2021				

PROJECT DESCRIPTION & JUSTIFICATION

The project will replace the existing 10,000 gallon diesel storage tank located at the fuel island with a new 20,000 gallon diesel tank. This increase in capacity is necessary to maintain operations during emergency and recovery efforts. PWC no longer has access to the City of Fayetteville fuel island for back up fuel purposes. During Hurricane Florence, we required in excess of 5,000 gallons of diesel per day for bypass pumps, generators and vehicles. We are also adding additional emergency diesel generators to the operations complex that will increase diesel fuel demand.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	20,000	-	-	-	-	-	20,000
Construction	170,000	-	-	-	-	-	170,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	190,000	-	-	-	-	-	190,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							190,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	95,000	-	-	-	-	-	95,000
Water/Sewer Fund	95,000	-	-	-	-	-	95,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	190,000	-	-	-	-	-	190,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Corporate Services

DIVISION CORPORATE SERVICES AE 390000	ACTIVITY	CATEGORY Structures and Improvements	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Emergency Operations Facility			High <input checked="" type="checkbox"/>	Expansion
			Medium	New <input checked="" type="checkbox"/>
			Low	Renovation
BID DATE		3/13/2020	BUDGET CODE	
START CONSTRUCTION DATE		5/15/2020	CPR1000431	
EXPECTED COMPLETION DATE		11/15/2020		

PROJECT DESCRIPTION & JUSTIFICATION

Project will construct new administrative space inside the Thermal Energy Storage Building at Butler Warner Generation Plant for business continuity efforts. New construction will include new walls, doors, ceilings, HVAC, lighting, telecommunications, etc. for business continuity efforts in the event the Operations Center is unusable due to a disaster. This work will be completed after equipment has been removed.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	100,000	-	-	-	-	-	100,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	120,000	-	-	-	-	-	120,000
Total	220,000	-	-	-	-	-	220,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							660,000
Total							880,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	220,000	-	-	-	-	-	220,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	220,000	-	-	-	-	-	220,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

CS 6

Corporate Services

DIVISION CORPORATE SERVICES AE 390000	ACTIVITY	CATEGORY Structures and Improvements	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Relocate King Street Pole Yard			High <input checked="" type="checkbox"/>	Expansion <input checked="" type="checkbox"/>
			Medium <input type="checkbox"/>	New <input type="checkbox"/>
			Low <input type="checkbox"/>	Renovation <input type="checkbox"/>
BID DATE		7/31/2020	BUDGET CODE	
START CONSTRUCTION DATE		9/30/2020	CPR1000482	
EXPECTED COMPLETION DATE		11/30/2020		

PROJECT DESCRIPTION & JUSTIFICATION

Due to the size/length of the steel power poles stored in the King Street Pole Yard, it is difficult for pole vendors to deliver to this site and for PWC crews and contractors to remove the poles when needed for projects and repairs. There is also a major safety concern for staff that must operate multiple forklifts to get to the King Street location. The new location behind the Warehouse Yard will allow for the safe delivery and distribution of these power poles as needed and will allow better access control for PWC contractors and vendors. This project will clear approximately 2 acres of land, install compacted ABC base, install new fencing and will include a new storm water retention pond.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	150,000	-	-	-	-	-	150,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	150,000	-	-	-	-	-	150,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							150,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	150,000	-	-	-	-	-	150,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	150,000	-	-	-	-	-	150,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

PUBLIC WORKS COMMISSION

FY 2021

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Water Resources

DIVISION WATER ADMINISTRATION	ACTIVITY 310000	CATEGORY Land and Land Rights	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE Land and Land Rights - Water			High		Expansion
			Medium	X	New
			Low		Renovation
BID DATE			BUDGET CODE CPR1000084		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project includes the costs associated with the acquisition of land and land rights due to water distribution system projects. The need arises to purchase land and land rights for projects not associated with the Capital Improvement Plan.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	15,000	15,000	15,000	15,000	15,000	75,000	150,000
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	5,000	5,000	5,000	25,000	50,000
Other	-	-	-	-	-	-	-
Total	20,000	20,000	20,000	20,000	20,000	100,000	200,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							26,000
<i>FY2020 Estimate</i>							75,000
Total							301,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	20,000	20,000	20,000	20,000	20,000	100,000	200,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	20,000	20,000	20,000	20,000	20,000	100,000	200,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(100)	(100)	(100)	(100)	(100)	(500)	(1,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(100)	(100)	(100)	(100)	(100)	(500)	(1,000)

*Priority Score: High Med Low

WS 1

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE New Water Service Laterals and Water Main Extensions			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000085	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

This project includes the installation of new services and water main extensions by PWC personnel and contracted labor to serve new customers. It will also include installation of parallel mains where needed. This project will add new customer base and provide system growth. An estimated 130 new customers will be added each year by new water service laterals tapped onto existing or newly installed mains. Revenue is based on 130 new customers times the connection fee of \$5,749 plus 130 customers times the average bill of \$26.40 times 12 months.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	60,000	62,000	64,000	66,000	68,000	350,000	670,000
Construction	300,000	309,000	318,000	327,000	337,000	1,736,000	3,327,000
Equipment	140,000	144,000	148,000	152,000	156,000	803,000	1,543,000
Personnel	100,000	103,000	106,000	109,000	112,000	577,000	1,107,000
Other	-	-	-	-	-	-	-
Total	600,000	618,000	636,000	654,000	673,000	3,466,000	6,647,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							605,000
<i>FY2020 Estimate</i>							539,000
Total							7,791,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	600,000	618,000	636,000	654,000	673,000	3,466,000	6,647,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	600,000	618,000	636,000	654,000	673,000	3,466,000	6,647,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	13,000	14,000	15,000	16,000	17,000	88,000	163,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	13,000	14,000	15,000	16,000	17,000	88,000	163,000

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Water Lateral Renewals (PWC Forces)			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000086		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project will replace existing water laterals that have reached or exceeded their life expectancy and are not cost effective to repair. This work is also coordinated with NCDOT and City Street Resurfacing and Streetscape projects to avoid cutting pavement in streets that have been recently resurfaced. Renewing services defers or reduces operating maintenance costs.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	580,000	609,000	639,000	671,000	705,000	3,701,000	6,905,000
Personnel	320,000	336,000	353,000	371,000	390,000	2,048,000	3,818,000
Other	-	-	-	-	-	-	-
Total	900,000	945,000	992,000	1,042,000	1,095,000	5,749,000	10,723,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							899,000
<i>FY2020 Estimate</i>							800,000
Total							12,422,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	900,000	945,000	992,000	1,042,000	1,095,000	5,749,000	10,723,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	900,000	945,000	992,000	1,042,000	1,095,000	5,749,000	10,723,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	1,000	1,000	1,000	1,000	1,000	5,000	10,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	1,000	1,000	1,000	1,000	1,000	5,000	10,000

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE New Hydrant and Valve Installation			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000087	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

Provide additional and replacement hydrants and valves to improve distribution system integrity and for flushing water system to improve water quality. PWC anticipates installing hydrants for unidirectional flushing to enhance and maintain water quality.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	100,000	102,000	104,000	106,000	108,000	551,000	1,071,000
Personnel	25,000	26,000	26,000	27,000	28,000	143,000	275,000
Other	-	-	-	-	-	-	-
Total	125,000	128,000	130,000	133,000	136,000	694,000	1,346,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							146,000
<i>FY2020 Estimate</i>							113,000
Total							1,605,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	125,000	128,000	130,000	133,000	136,000	694,000	1,346,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	125,000	128,000	130,000	133,000	136,000	694,000	1,346,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	300	400	400	400	400	2,000	3,900
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	300	400	400	400	400	2,000	3,900

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Water Distribution System Rehabilitation			High	Expansion	
			Medium	New	
			Low	Renovation	X
BID DATE	5/15/2019		BUDGET CODE	CPR1000088	
START CONSTRUCTION DATE	9/1/2019				
EXPECTED COMPLETION DATE	6/30/2030				

PROJECT DESCRIPTION & JUSTIFICATION

This project will reline existing cast iron water mains and replace existing water mains. Due to the age and condition of these mains, some areas of the distribution system are experiencing discolored water, reduced pressure, and reduced fire flows. This work is necessary to maintain the integrity of PWC's system. Additionally, deteriorated water laterals will be replaced as part of this effort. The budget will increase in order to rehabilitate or replace 1% of the system by FY27, in accordance with the asset management plan.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	4,900,000	5,475,000	6,050,000	6,750,000	7,250,000	44,650,000	75,075,000
Equipment	-	-	-	-	-	-	-
Personnel	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Other	1,075,000	1,250,000	1,425,000	1,725,000	2,225,000	17,275,000	24,975,000
Total	6,000,000	6,750,000	7,500,000	8,500,000	9,500,000	62,050,000	100,300,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							5,280,000
<i>FY2020 Estimate</i>							5,147,000
Total							110,727,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	6,000,000	6,750,000	7,500,000	8,500,000	9,500,000	62,050,000	100,300,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	6,000,000	6,750,000	7,500,000	8,500,000	9,500,000	62,050,000	100,300,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

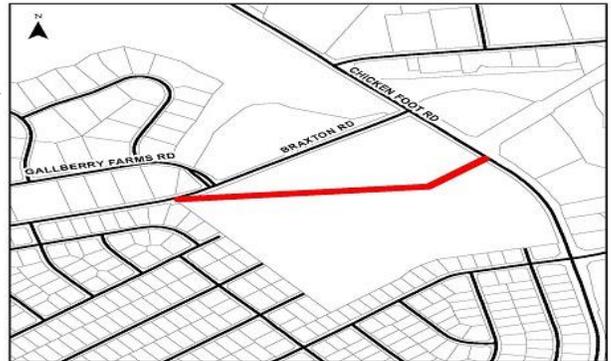
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Braxton Road 12" Water Main Extension			High	Expansion
			Medium	New
			Low	Renovation
BID DATE	5/1/2023		BUDGET CODE	
START CONSTRUCTION DATE	8/1/2023		CPR1000288	
EXPECTED COMPLETION DATE	8/31/2024			

PROJECT DESCRIPTION & JUSTIFICATION

PWC currently serves approximately 1,000 customers in the Gallberry Farms Area (along Chicken Foot Road east of I-95) including 3 schools. This area is currently served by a single 16" water transmission main which branches off of Sandhill Road. This project will connect the existing 12" water main on Braxton Road to the 16" transmission main on Chicken Foot Road. This will provide a second feed to the area to improve system reliability. This project has been scheduled to start after NCDOT's planned realignment of Braxton and Sandhill Roads.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	15,000	10,000	-	-	25,000
Engineering	-	-	45,000	25,000	10,000	-	80,000
Construction	-	-	-	325,000	100,000	-	425,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	15,000	15,000	10,000	-	40,000
Other	-	-	10,000	10,000	10,000	-	30,000
Total	-	-	85,000	385,000	130,000	-	600,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							600,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	85,000	385,000	130,000	-	600,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	85,000	385,000	130,000	-	600,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	(100)	(100)	(500)	(700)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	(100)	(100)	(500)	(700)

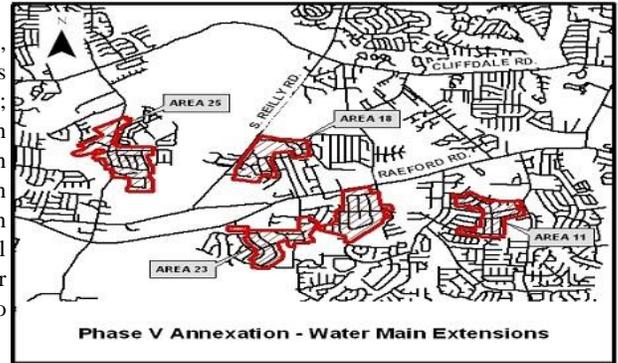
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Phase V Annexation - Water Main Extension			High X	Expansion
			Medium	New X
			Low	Renovation
BID DATE	8/1/2011		BUDGET CODE	
START CONSTRUCTION DATE	2/1/2013		CPR1000095	
EXPECTED COMPLETION DATE	6/30/2026			

PROJECT DESCRIPTION & JUSTIFICATION

This project provides water service to Construction Areas 11, 23, 25, 29, 30, 31, 32, 33, and 34 annexed into the City of Fayetteville in 2005. Area 11 was completed in FY13. Area 23: Design began FY18 Construction began in FY20; Area 25: Design began in FY19 Construction begins in FY21; Area 29: Design begins in FY21 Construction begins in FY22; Areas 30 and 31: Design begins in FY22 Construction in FY23; Area 33: Design begins in FY21 Construction in FY22 and FY24; Areas 32 and 34: Design began in FY18 Construction begins in FY20. Approximately 70,000 LF of water mains and 472 new water services will be added. Connection rates are assumed to be 50% first year 10% second year 5% each year after. The assumed revenue per customer is \$26.40 with no escalation of the revenue over time.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	36,000	9,000	39,000	33,000	-	-	117,000
Engineering	258,000	380,000	551,000	323,000	450,000	229,000	2,191,000
Construction	3,556,000	1,625,000	981,000	1,900,000	3,000,000	3,215,000	14,277,000
Equipment	-	-	-	-	-	-	-
Personnel	115,000	79,000	100,000	158,000	155,000	173,000	780,000
Other	45,000	28,000	24,000	47,000	75,000	87,000	306,000
Total	4,010,000	2,121,000	1,695,000	2,461,000	3,680,000	3,704,000	17,671,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							539,000
<i>FY2020 Estimate</i>							562,000
Total							18,772,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	4,010,000	2,121,000	1,695,000	2,461,000	3,680,000	3,704,000	17,671,000
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	4,010,000	2,121,000	1,695,000	2,461,000	3,680,000	3,704,000	17,671,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	72,000	153,000	203,000	229,000	312,000	2,099,000	3,068,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	(8,000)	(22,000)	(25,000)	(34,000)	(59,000)	(437,000)	(585,000)
Total	64,000	131,000	178,000	195,000	253,000	1,662,000	2,483,000

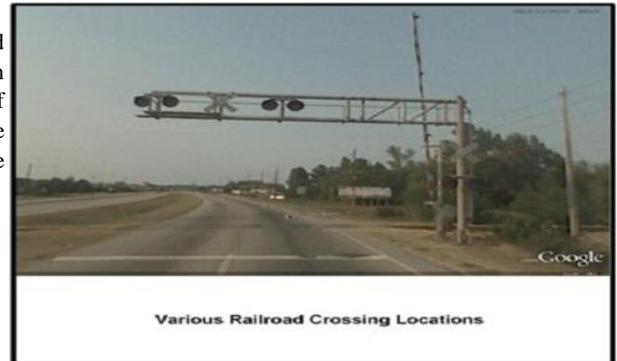
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE Replace Existing Water Mains not Encased Under Railroad Crossings			High	X	Expansion	
			Medium		New	
			Low		Renovation	
BID DATE		6/13/2018	BUDGET CODE			
START CONSTRUCTION DATE		11/26/2018	CPR1000100			
EXPECTED COMPLETION DATE		6/30/2025				

PROJECT DESCRIPTION & JUSTIFICATION

This project replaces water mains that are not currently encased that are located under railroad crossings. Water main leaks and breaks on mains not encased can cause railroad tracks to settle. Engineering will be completed by in-house staff and consultants. It is anticipated that the design for all of the crossings will be completed in FY20. Beginning in FY20, two (2) crossings per fiscal year will be constructed. Construction will be by contractor.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	145,000	50,000	50,000	100,000	-	345,000
Construction	885,000	825,000	925,000	950,000	600,000	-	4,185,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	5,000	5,000	5,000	-	25,000
Other	-	-	-	-	-	-	-
Total	890,000	975,000	980,000	1,005,000	705,000	-	4,555,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							553,000
<i>FY2020 Estimate</i>							796,000
Total							5,904,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	890,000	975,000	980,000	1,005,000	705,000	-	4,555,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	890,000	975,000	980,000	1,005,000	705,000	-	4,555,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

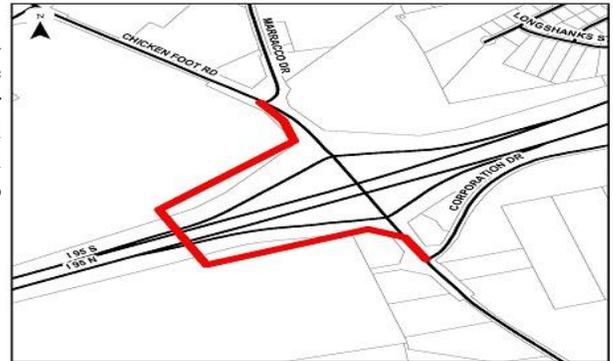
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Chicken Foot Road 16" Water Main Interconnect			High	Expansion
			Medium	New
			Low	Renovation
BID DATE	12/15/2020		BUDGET CODE	
START CONSTRUCTION DATE	3/15/2021		CPR1000289	
EXPECTED COMPLETION DATE	11/15/2021			

PROJECT DESCRIPTION & JUSTIFICATION

PWC currently serves approximately 2,100 customers in the Gray's Creek Area (east of I-95 and south of Tom Starling Road) including 3 schools and the Walmart Distribution Center. This area is currently served by a single 24" water transmission main which branches off of Tom Starling Road. This project will interconnect the existing 16" transmission mains that have been stubbed out on both sides of I-95 along Chicken Foot Road. This will provide a second feed to the area to improve system reliability.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	50,000	-	-	-	-	-	50,000
Engineering	70,000	10,000	-	-	-	-	80,000
Construction	545,500	654,500	-	-	-	-	1,200,000
Equipment	-	-	-	-	-	-	-
Personnel	7,500	7,500	-	-	-	-	15,000
Other	5,000	5,000	-	-	-	-	10,000
Total	678,000	677,000	-	-	-	-	1,355,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							67,000
<i>FY2020 Estimate</i>							114,000
Total							1,536,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	678,000	677,000	-	-	-	-	1,355,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	678,000	677,000	-	-	-	-	1,355,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(7,500)	(15,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(7,500)	(15,000)

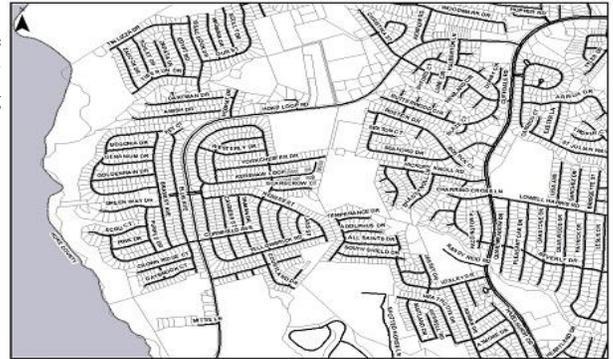
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE West Fayetteville Pressure Zone Improvements			High X	Expansion X
			Medium	New X
			Low	Renovation
BID DATE			BUDGET CODE CPR1000407	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

This project will expand the existing Lagrange Pressure Zone to include the greater West Fayetteville area. The project will include construction of a new booster pump station and 750,000 gallon elevated storage tank. Engineering design will begin in FY21 with construction set for following years.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	50,000	90,000	-	-	-	-	140,000
Engineering	150,000	350,000	500,000	350,000	-	-	1,350,000
Construction	-	2,500,000	5,000,000	2,000,000	-	-	9,500,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	20,000	20,000	20,000	-	-	70,000
Other	-	-	-	-	-	-	-
Total	210,000	2,960,000	5,520,000	2,370,000	-	-	11,060,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							11,060,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	210,000	-	-	-	-	-	210,000
Bonds	-	2,960,000	5,520,000	2,370,000	-	-	10,850,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	210,000	2,960,000	5,520,000	2,370,000	-	-	11,060,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

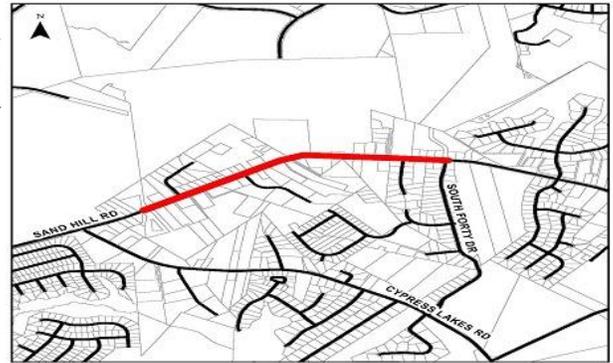
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Sandhill Road 12" Water Main Extension			High	Expansion
			Medium	New
			Low	Renovation
BID DATE	9/15/2023		BUDGET CODE	
START CONSTRUCTION DATE	2/1/2024		CPR1000292	
EXPECTED COMPLETION DATE	12/31/2025			

PROJECT DESCRIPTION & JUSTIFICATION

The Churchill Downs and South Forty Drive area of Cypress Lakes is currently served by a single 6" water distribution main. This project will extend a new 12" water main along Sandhill Road to South Forty Drive. This will loop the area water lines and improve system reliability.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	50,000	25,000	-	-	75,000
Engineering	-	-	75,000	35,000	25,000	-	135,000
Construction	-	-	-	500,000	400,000	-	900,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	15,000	15,000	15,000	-	45,000
Other	-	-	10,000	10,000	10,000	-	30,000
Total	-	-	150,000	585,000	450,000	-	1,185,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,185,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	150,000	585,000	450,000	-	1,185,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	150,000	585,000	450,000	-	1,185,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	(100)	(100)	-	(200)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	(100)	(100)	-	(200)

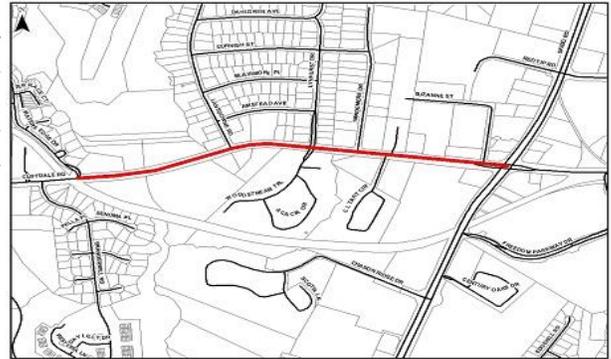
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	Replacement	X
PROJECT TITLE Cliffdale Road Transmission Water Main Improvements			High		
			Medium	New	X
			Low	Renovation	
BID DATE	1/15/2021		BUDGET CODE	CPR1000405	
START CONSTRUCTION DATE	4/14/2021				
EXPECTED COMPLETION DATE	12/10/2021				

PROJECT DESCRIPTION & JUSTIFICATION

This project will improve the transmission system along Cliffdale Road by replacing approximately 3,000 feet of existing 16-inch water main with new 24-inch diameter main from the intersection of Skibo Road to Waters Edge Drive. The improvements are necessary to improve the operation of the School Road re-pump facility. Easement acquisition and engineering design was initiated in FY20 with construction set for FY21 and FY22.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	180,000	-	-	-	-	-	180,000
Engineering	80,000	50,000	-	-	-	-	130,000
Construction	650,000	650,000	-	-	-	-	1,300,000
Equipment	-	-	-	-	-	-	-
Personnel	20,000	20,000	-	-	-	-	40,000
Other	-	-	-	-	-	-	-
Total	930,000	720,000	-	-	-	-	1,650,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							130,000
Total							1,780,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	930,000	720,000	-	-	-	-	1,650,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	930,000	720,000	-	-	-	-	1,650,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

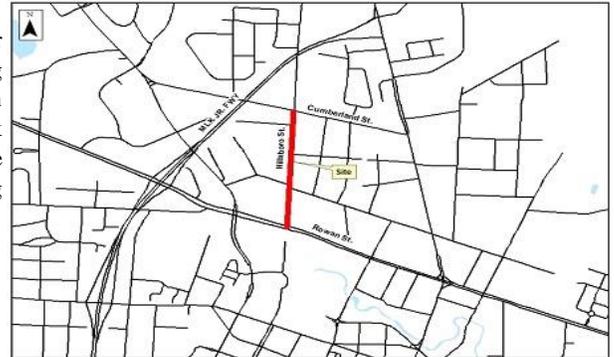
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Hillsboro Street Water Main Replacement			High	Expansion	X
			Medium	New	
			Low	Renovation	X
BID DATE	10/15/2024		BUDGET CODE	CPR1000444	
START CONSTRUCTION DATE	3/15/2025				
EXPECTED COMPLETION DATE	12/15/2025				

PROJECT DESCRIPTION & JUSTIFICATION

This project would replace approximately 2,300 LF of 6-inch cast iron water main on Hillsboro Street from Rowan Street to Cumberland Street. The existing water main is approximately five (5) feet off of the existing Norfolk Southern Railway tracks. Failure of this main could cause significant damage to Norfolk Southern's infrastructure. The existing water main is unlined and needs to be replaced in a new location to facilitate operations and maintenance. Engineering is expected to begin in FY24 with construction starting in FY25.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	10,000	10,000	-	20,000
Engineering	-	-	-	100,000	10,000	40,000	150,000
Construction	-	-	-	-	200,000	650,000	850,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	5,000	5,000	5,000	15,000
Other	-	-	-	-	-	-	-
Total	-	-	-	115,000	225,000	695,000	1,035,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,035,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	115,000	225,000	695,000	1,035,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	115,000	225,000	695,000	1,035,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

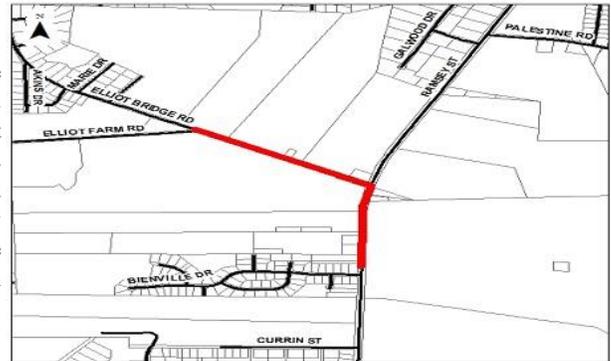
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE US HWY 401 North - Booster Pump Station (Contract 2)			High	Expansion
BID DATE 11/26/2019			Medium	New
START CONSTRUCTION DATE 1/15/2019			Low	Renovation
EXPECTED COMPLETION DATE 12/15/2020			BUDGET CODE CPR1000428	

PROJECT DESCRIPTION & JUSTIFICATION

This project will construct water system improvements along the HWY 401 North corridor in Cumberland County beginning at the termination point of the existing 16-inch transmission main near the intersection of Ramsey Street and Bienville Drive and extending north to the intersection and then west along Elliot Bridge Road. The project will include 10,000 feet of water main improvements (Contract 1 - CPR1000323) a booster pump station (Contract 2) and an elevated tank (Contract 3 - CPR1000429). All of these elements are required for a new boosted pressure zone to serve anticipated development in this vicinity. The Contract 2 project to construct the booster pump station was bid in FY20 with construction completed in FY21.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	60,000	-	-	-	-	-	60,000
Construction	600,000	-	-	-	-	-	600,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	-	-	-	-	-	10,000
Other	-	-	-	-	-	-	-
Total	670,000	-	-	-	-	-	670,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							273,000
<i>FY2020 Estimate</i>							1,017,000
Total							1,960,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	670,000	-	-	-	-	-	670,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	670,000	-	-	-	-	-	670,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

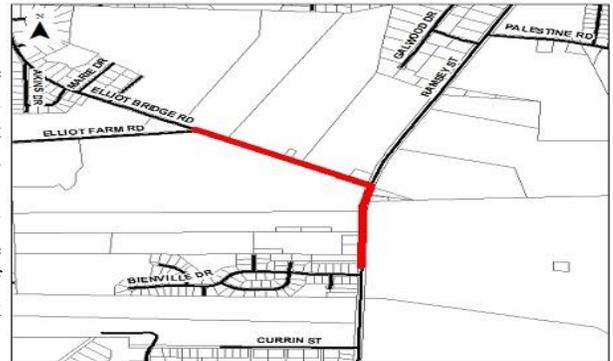
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE US HWY 401 North - Elevated Water Tank (Contract 3)			High	Expansion
BID DATE 3/15/2021			Medium	New
START CONSTRUCTION DATE 6/15/2021			Low	Renovation
EXPECTED COMPLETION DATE 6/15/2022			BUDGET CODE CPR1000429	

PROJECT DESCRIPTION & JUSTIFICATION

This project will construct water system improvements along the HWY 401 North corridor in Cumberland County beginning at the termination point of the existing 16-inch transmission main near the intersection of Ramsey Street and Bienville Drive and extending north to the intersection and then west along Elliot Bridge Road. The project will include 10,000 feet of water main improvements (Contract 1 - CPR1000323), a booster pump station (Contract 2 - CPR1000428) and an elevated tank (Contract 3). All of these elements are required for a new boosted pressure zone to serve anticipated development. The schedule for the Contract 3 project to construct the elevated tank is subject to the pace of development in this new service area. It is anticipated that bids for tank construction will be received in FY21 with construction completing in FY22.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	18,000	80,000	-	-	-	-	98,000
Construction	-	2,000,000	-	-	-	-	2,000,000
Equipment	-	-	-	-	-	-	-
Personnel	-	20,000	-	-	-	-	20,000
Other	-	-	-	-	-	-	-
Total	18,000	2,100,000	-	-	-	-	2,118,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							237,000
<i>FY2020 Estimate</i>							9,600
Total							2,364,600

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	18,000	2,100,000	-	-	-	-	2,118,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	18,000	2,100,000	-	-	-	-	2,118,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

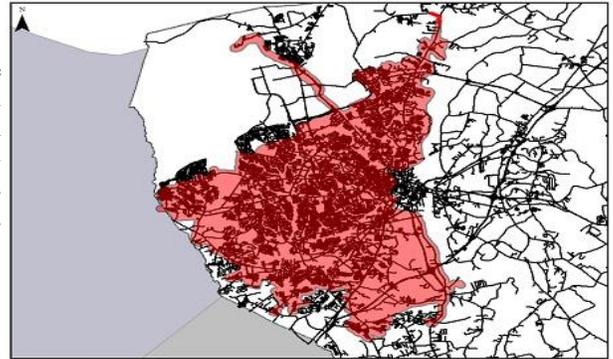
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE High Pressure Zone Transmission Water Main Improvements			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000406	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

This project will improve the transmission system in the High Pressure Zone. The work includes 11,500 feet of new 30-inch water main beginning at the Wilson Street elevated tank and continuing along Woodrow Street, Morganton Road, John Street, Rush Road, Mirror Lake Drive, Westview Drive, Westhaven Drive and continue cross country to Fairfield Road ending at the proposed 30-inch main along Raeford Road. This project will improve system pressures during peak demand periods and aid in the turnover of the Wilson Street elevated tank.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	250,000	250,000	-	-	-	500,000
Engineering	250,000	100,000	250,000	350,000	250,000	-	1,200,000
Construction	-	-	-	3,000,000	2,660,000	-	5,660,000
Equipment	-	-	-	-	-	-	-
Personnel	15,000	-	-	-	-	-	15,000
Other	-	15,000	15,000	15,000	-	-	45,000
Total	265,000	365,000	515,000	3,365,000	2,910,000	-	7,420,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							80,000
Total							7,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	265,000	-	-	-	-	-	265,000
Bonds	-	365,000	515,000	3,365,000	2,910,000	-	7,155,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	265,000	365,000	515,000	3,365,000	2,910,000	-	7,420,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

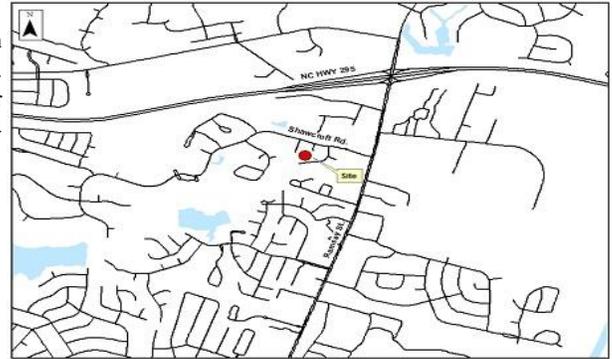
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Kings Grant Water Main Looping			High	Expansion X
			Medium X	New X
			Low	Renovation
BID DATE	2/1/2025		BUDGET CODE	
START CONSTRUCTION DATE	6/1/2025		CPR1000445	
EXPECTED COMPLETION DATE	2/1/2026			

PROJECT DESCRIPTION & JUSTIFICATION

This project would install approximately 2,500 LF of new 8-inch water mains in order to eliminate several dead-end mains within the Kings Grant subdivision. Elimination of the dead-ends will increase fire flows, reduce taste and odor complaints and enhance system reliability. Design is expected to start in FY24 and construction should start in FY26.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	70,000	30,000	-	100,000
Engineering	-	-	-	90,000	10,000	25,000	125,000
Construction	-	-	-	-	100,000	525,000	625,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	5,000	5,000	5,000	15,000
Other	-	-	-	-	-	-	-
Total	-	-	-	165,000	145,000	555,000	865,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							865,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	165,000	145,000	555,000	865,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	165,000	145,000	555,000	865,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

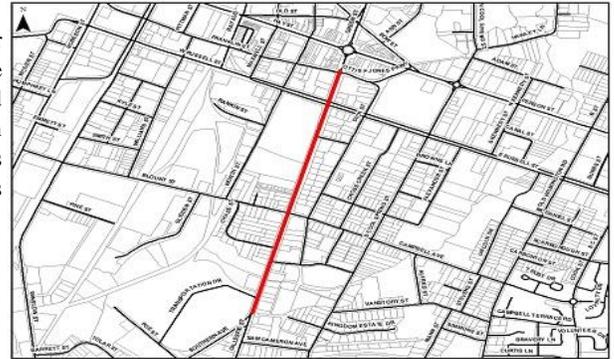
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Gillespie Street Water Main Replacement			High	Expansion	
BID DATE 10/15/2024			Medium	New	
START CONSTRUCTION DATE 2/1/2025			Low	Renovation	X
EXPECTED COMPLETION DATE 9/30/2025			BUDGET CODE CPR1000388		

PROJECT DESCRIPTION & JUSTIFICATION

The project will replace approximately 8,000 LF of 6-inch and 8-inch water mains on Gillespie Street between Franklin Street and Southern Avenue. These mains were installed in the late 1940's and recent pipe coupons have indicated that they are unlined and losing wall thickness to tuberculation. Their condition makes them unsuitable for lining. Replacement is expected to be via a trenchless technology to minimize disruption and expedite construction. Engineering is expected to start in FY23 and the project is expected to be completed in FY26.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	150,000	250,000	120,000	50,000	570,000
Construction	-	-	-	-	2,000,000	800,000	2,800,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	10,000	10,000	10,000	5,000	35,000
Other	-	-	-	-	-	-	-
Total	-	-	160,000	260,000	2,130,000	855,000	3,405,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							3,405,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	160,000	260,000	2,130,000	855,000	3,405,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	160,000	260,000	2,130,000	855,000	3,405,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

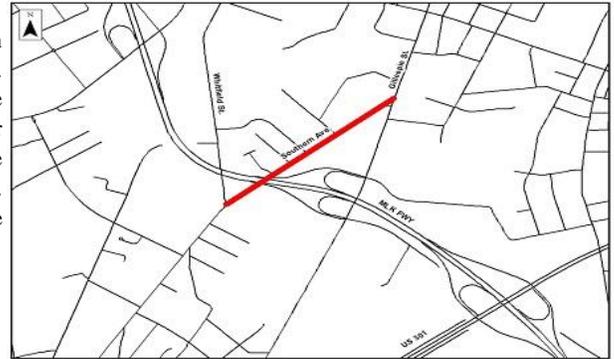
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Southern Avenue Water Main Replacement, Camden to Gillespie - Phase I			High	Expansion	
BID DATE 10/15/2026			Medium	New	
START CONSTRUCTION DATE 2/1/2027			Low	Renovation	
EXPECTED COMPLETION DATE 9/30/2027			BUDGET CODE CPR1000382		

PROJECT DESCRIPTION & JUSTIFICATION

The project will replace approximately 8,000 LF of 6-inch and 8-inch cast iron water mains on Southern Avenue between Gillespie Street and Whitfield Street. These mains were installed in the late 1940's and recent pipe coupons have indicated that they are unlined and losing wall thickness to tuberculation. Their condition makes them unsuitable for lining. Replacement will include the installation of parallel mains as needed to eliminate the need for long services. Engineering is expected to start in FY25 and the project is expected to be completed in FY28.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	150,000	300,000	450,000
Construction	-	-	-	-	-	2,300,000	2,300,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	5,000	25,000	30,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	155,000	2,625,000	2,780,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,780,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	155,000	2,625,000	2,780,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	155,000	2,625,000	2,780,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

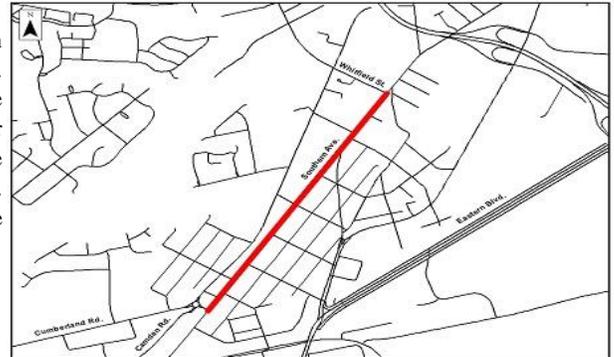
*Priority Score: High Med Low

Water Resources

DIVISION	ACTIVITY	CATEGORY	PRIORITY	TYPE PROJECT
WATER ADMINISTRATION	331000	Water Distribution System	Score	Replacement X
PROJECT TITLE			High	Expansion
Southern Avenue Water Main Replacement, Camden to Gillespie - Phase II			Medium X	New
BID DATE			Low	Renovation
4/15/2028			BUDGET CODE	
START CONSTRUCTION DATE			CPR1000383	
10/15/2028				
EXPECTED COMPLETION DATE				
6/30/2029				

PROJECT DESCRIPTION & JUSTIFICATION

The project will replace approximately 10,000 LF of 6-inch and 8-inch cast iron water mains on Southern Avenue between Whitfield Street and Camden Road. These mains were installed in the late 1940's and recent pipe coupons have indicated that they are unlined and losing wall thickness to tuberculation. Their condition makes them unsuitable for lining. Replacement will include the installation of parallel mains, as needed, to eliminate the need for long services. Engineering is expected to start in FY27 and the project is expected to be completed in FY30.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	500,000	500,000
Construction	-	-	-	-	-	2,500,000	2,500,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	30,000	30,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	3,030,000	3,030,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							3,030,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	3,030,000	3,030,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	-	3,030,000	3,030,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

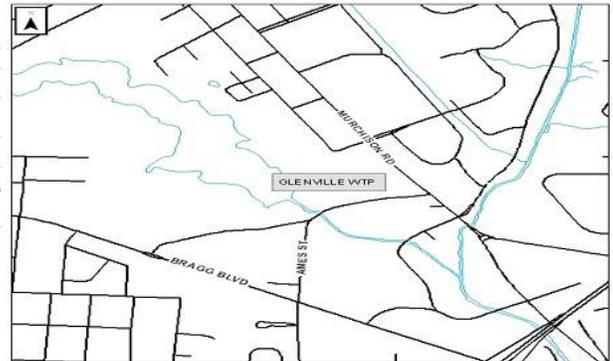
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 321000	ACTIVITY 321000	CATEGORY Glennville WTP	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE Glennville Lake Filter Control Modifications			High	X	Expansion	
			Medium		New	
			Low		Renovation	
BID DATE	8/15/2020		BUDGET CODE		CPR1000276	
START CONSTRUCTION DATE	12/1/2020					
EXPECTED COMPLETION DATE	5/30/2022					

PROJECT DESCRIPTION & JUSTIFICATION

The existing instrumentation and control equipment that provides for automated operation of the filters (12 total) at the Glennville Lake Water Treatment Facility is outdated. This project will upgrade that equipment to current industry standards. The scope of work also includes miscellaneous mechanical and chemical feed improvements aimed at improving operational reliability. Although initially conceived as a stand-alone project, the work will be bid as part of the PO Hoffer WTP / Glennville Lake WTP Reliability project (see WS 25) which will result in greater competition and hence lower construction costs.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	130,000	-	-	-	-	130,000
Construction	-	2,000,000	-	-	-	-	2,000,000
Equipment	-	-	-	-	-	-	-
Personnel	-	15,000	-	-	-	-	15,000
Other	-	-	-	-	-	-	-
Total	-	2,145,000	-	-	-	-	2,145,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							101,000
<i>FY2020 Estimate</i>							5,000
Total							2,251,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	2,145,000	-	-	-	-	2,145,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	2,145,000	-	-	-	-	2,145,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 323000	ACTIVITY 323000	CATEGORY PO Hoffer WTP	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE PO Hoffer WTF Capacity Expansion, Phase 2			High	X	Expansion X
			Medium		New
			Low		Renovation
BID DATE			BUDGET CODE CPR1000231		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The total combined system treatment capacity of the PO Hoffer WTP and the Glenville Lake WTP is 50 MGD. The annual peak-day demand is approaching 80% of that system total which is the typical benchmark point for initiating design of additional capacity. Phases 1A and 1B, expansion to the POHWTP, focused on reliability and did not add treatment capacity. Design Phase 2, expansion of the liquids process infrastructure, was completed in FY19. System demand has not increased according to previous projections; therefore, the target bid date for the Phase 2 - Expansion has been deferred to 2025.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	50,000	2,100,000	2,150,000
Construction	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	37,430,000	37,430,000
Personnel	-	-	-	-	10,000	85,000	95,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	60,000	39,615,000	39,675,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							2,837,000
<i>FY2020 Estimate</i>							25,000
Total							42,537,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	60,000	39,615,000	39,675,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	60,000	39,615,000	39,675,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 323000	ACTIVITY 323000	CATEGORY PO Hoffer WTP	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE PO Hoffer WTP Capacity Expansion, Phase 3 – Residuals Facilities Expansion			High	X	Expansion X
BID DATE 8/1/2023			Medium		New
START CONSTRUCTION DATE 1/8/2025			Low		Renovation
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000232		

PROJECT DESCRIPTION & JUSTIFICATION

The total combined system treatment capacity of the PO Hoffer WTP and the Glenville Lake WTP is 50 MGD. The annual peak-day demand is approaching 80% of that system total which is the typical benchmark point for initiating design of additional capacity. Phases 1A and 1B that focused on reliability and did not add treatment capacity are complete. The Design of the Phase 2 project addressing expansion of the liquids process infrastructure was completed in FY19. System demand has not increased as anticipated hence bidding of the Phase 2 project has been deferred. Design of the Phase 3 project for the residuals handling facilities commenced in FY20. Phase 3 project construction will be in advance of the Phase 2 liquids treatment expansion with construction to begin in FY24.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	300,000	500,000	300,000	600,000	400,000	-	2,100,000
Construction	-	-	-	8,000,000	7,000,000	-	15,000,000
Equipment	-	-	-	-	-	-	-
Personnel	15,000	5,000	5,000	15,000	30,000	-	70,000
Other	-	-	-	-	-	-	-
Total	315,000	505,000	305,000	8,615,000	7,430,000	-	17,170,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							17,170,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	315,000	505,000	305,000	8,615,000	7,430,000	-	17,170,000
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	315,000	505,000	305,000	8,615,000	7,430,000	-	17,170,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 323000	ACTIVITY 323000	CATEGORY PO Hoffer WTP	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Replace Standby Power Generator at the PO Hoffer WTP			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	10/15/2022		BUDGET CODE	CPR1000456	
START CONSTRUCTION DATE	12/14/2022				
EXPECTED COMPLETION DATE	6/12/2023				

PROJECT DESCRIPTION & JUSTIFICATION

The existing standby power generator at the PO Hoffer WTP, installed circa 2000, is reaching the end of its useful life. This project will replace that equipment with a new standby power generator and switchgear complete with Tier 4 engines that will allow for "peak shaving" operation. Engineering for preparation of "design / build" construction documents for soliciting bids and project construction will be completed in FY22.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	115,000	-	-	-	115,000
Construction	-	-	-	-	-	-	-
Equipment	-	-	1,850,000	-	-	-	1,850,000
Personnel	-	-	20,000	-	-	-	20,000
Other	-	-	-	-	-	-	-
Total	-	-	1,985,000	-	-	-	1,985,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,985,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	1,985,000	-	-	-	1,985,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	1,985,000	-	-	-	1,985,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 323000	ACTIVITY 323000	CATEGORY PO Hoffer WTP	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE PO Hoffer WTP / Glenville Lake WTP Reliability Improvements			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	8/15/2020		BUDGET CODE	CPR1000458	
START CONSTRUCTION DATE	12/1/2020				
EXPECTED COMPLETION DATE	5/30/2022				

PROJECT DESCRIPTION & JUSTIFICATION

Phases 1A and 1B, of the POHWTP Expansion project focused on reliability and did not add treatment capacity. Design of Phase 2 addressed expansion of the liquids process infrastructure and was completed in FY19. System demand has not increased consistent with previous projections; therefore, the target bid date for the Phase 2 - Expansion has been deferred to 2025. This "Reliability" project will address components of the Phase 2 design not associated with treatment expansion that are critical from the standpoint of operational reliability and should not be deferred. The scope of work will also address similar upgrades at the Glenville Lake WTP to include chemical feed and filter control improvements. The project will be submitted for SRF Drinking Water Loan funding in the spring of FY20.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	191,000	416,000	-	-	-	-	607,000
Construction	2,735,000	3,370,000	-	-	-	-	6,105,000
Equipment	-	-	-	-	-	-	-
Personnel	15,000	15,000	-	-	-	-	30,000
Other	-	-	-	-	-	-	-
Total	2,941,000	3,801,000	-	-	-	-	6,742,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							6,742,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	2,941,000	3,801,000	-	-	-	-	6,742,000
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	2,941,000	3,801,000	-	-	-	-	6,742,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

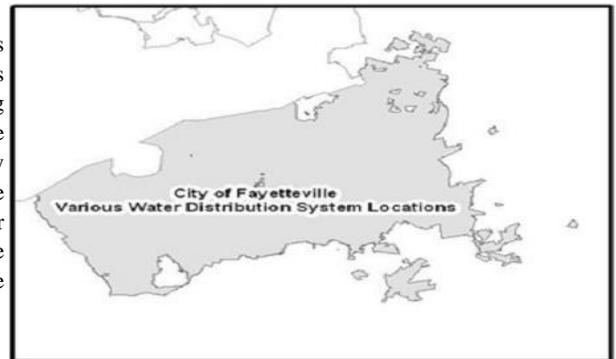
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Utility Improvements for City of Fayetteville Storm Drainage Improvements - Water			High	Expansion	X
			Medium	New	X
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000096		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The City of Fayetteville is planning various storm drainage improvement projects throughout the City during the upcoming years. These projects will impact areas containing PWC water utilities. PWC staff and City staff coordinate the planning and design of these projects and work to avoid conflicts where possible. Where these conflicts are unavoidable, the City incorporates the necessary utility adjustments into their contracts and the associated costs are paid by PWC. There are situations where PWC determines that, due to aging infrastructure or operational issues, utility improvements are necessary. These improvements are the financial responsibility of PWC as well. See WS 90 - CPR1000141 for the sewer portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	15,000	30,000	30,000	30,000	30,000	150,000	285,000
Construction	130,000	230,000	230,000	230,000	230,000	1,150,000	2,200,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	10,000	10,000	10,000	10,000	50,000	95,000
Other	-	-	-	-	-	-	-
Total	150,000	270,000	270,000	270,000	270,000	1,350,000	2,580,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							145,000
<i>FY2020 Estimate</i>							148,000
Total							2,873,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	150,000	270,000	270,000	270,000	270,000	1,350,000	2,580,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	150,000	270,000	270,000	270,000	270,000	1,350,000	2,580,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Hurricane Matthew Improvement of Water Mains			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000331		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

Hurricane Matthew damaged multiple PWC water mains causing the need for them to be replaced. These damages occurred at washouts on various NCDOT and City of Fayetteville roads and culverts. Known areas include Bingham Drive, Shawcroft Road, Mirror Lake Drive, Sykes Pond, and Devonwood Lower. These projects are to be submitted to FEMA for partial reimbursement.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	25,000	-	-	-	-	-	25,000
Construction	555,000	-	-	-	-	-	555,000
Equipment	-	-	-	-	-	-	-
Personnel	15,000	-	-	-	-	-	15,000
Other	10,000	-	-	-	-	-	10,000
Total	605,000	-	-	-	-	-	605,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							425,000
<i>FY2020 Estimate</i>							398,000
Total							1,428,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	605,000	-	-	-	-	-	605,000
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	605,000	-	-	-	-	-	605,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

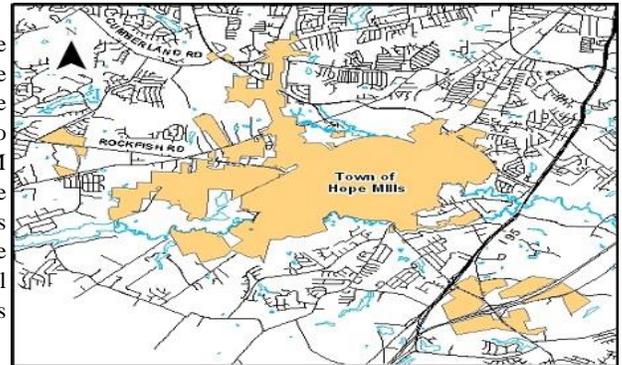
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Utility Improvements for the Town of Hope Mills Stormwater Projects - Water			High	Expansion	
BID DATE			Medium	New	
START CONSTRUCTION DATE			Low	Renovation	X
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000105		

PROJECT DESCRIPTION & JUSTIFICATION

The Town of Hope Mills (TOHM) is planning various storm drainage improvements throughout PWC's service area in the upcoming years. These projects will impact areas containing PWC water utilities. PWC staff and the TOHM staff coordinate the planning and design of these projects and work to avoid conflicts where possible. Where conflicts are unavoidable, the TOHM incorporates the necessary utility adjustments into their contracts and the associated costs are paid by the TOHM. In situations where PWC determines that, due to aging infrastructure or operational issues, utility improvements are necessary, PWC pays the cost. These improvements are the financial responsibility of PWC. See WS 91 - CPR1000155 for the sewer portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	20,000	20,000	20,000	20,000	20,000	100,000	200,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	5,000	5,000	5,000	25,000	50,000
Other	-	-	-	-	-	-	-
Total	25,000	25,000	25,000	25,000	25,000	125,000	250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							101,000
<i>FY2020 Estimate</i>							2,000
Total							353,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	25,000	25,000	25,000	25,000	25,000	125,000	250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Utility Improvements for NCDOT Resurfacing and Stormwater			High	Expansion	
			Medium	New	
			Low	Renovation	X
BID DATE			BUDGET CODE CPR1000104		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The NCDOT is planning various storm drainage and road improvements throughout PWC's service area in the upcoming years. These projects will impact areas with PWC water utilities. PWC and NCDOT staff coordinate the planning and design of these projects and work to avoid conflicts where possible. Where conflicts are unavoidable, NCDOT incorporates the necessary utility adjustments into their contracts. See WS 92 - CPR1000154 for the sewer portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	45,000	45,000	45,000	45,000	45,000	225,000	450,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	5,000	5,000	5,000	25,000	50,000
Other	-	-	-	-	-	-	-
Total	50,000	50,000	50,000	50,000	50,000	250,000	500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							49,000
<i>FY2020 Estimate</i>							5,000
Total							554,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	50,000	50,000	50,000	50,000	50,000	250,000	500,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	50,000	50,000	50,000	50,000	50,000	250,000	500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

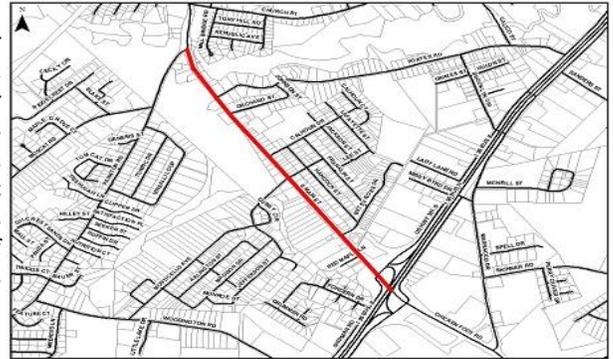
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE NCDOT U-6001 NC 59 Widening, Parkton Road to US 301 - Water			High	Expansion
BID DATE 10/18/2022			Medium	New
START CONSTRUCTION DATE 1/15/2023			Low	Renovation
EXPECTED COMPLETION DATE 6/30/2025			BUDGET CODE CPR1000437	

PROJECT DESCRIPTION & JUSTIFICATION

This project will install approximately 10,000 linear feet of new 16-inch water main in conjunction with the NCDOT roadway improvements for NC 59 (South Main Street) between Parkton Road and US 301. Extension of the new water main is necessary to provide additional supply to the Town of Hope Mills, as well as, future development in this area. Construction is anticipated to begin in FY23 and be completed in FY25. An agreement with NCDOT is not in place at this time. However, billing is expected upon completion of all road work and is anticipated to be made in one final payment. Project includes the installation of approximately 9,000 linear feet of water mains outside the NCDOT project limits in order to connect to PWC's existing system.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	40,000	-	-	-	-	-	40,000
Engineering	225,000	110,000	115,000	50,000	50,000	-	550,000
Construction	50,000	990,000	1,300,000	-	2,900,000	-	5,240,000
Equipment	-	-	-	-	-	-	-
Personnel	15,000	15,000	15,000	10,000	10,000	-	65,000
Other	-	-	-	-	-	-	-
Total	330,000	1,115,000	1,430,000	60,000	2,960,000	-	5,895,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							111,000
Total							6,006,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	330,000	1,115,000	1,430,000	60,000	60,000	-	2,995,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	2,900,000	-	2,900,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	330,000	1,115,000	1,430,000	60,000	2,960,000	-	5,895,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

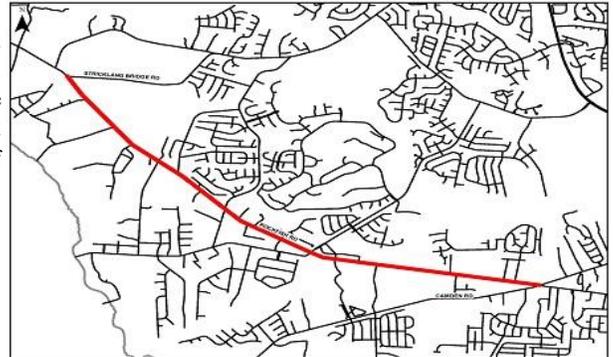
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-6072A SR1112 (Rockfish Rd) from Strickland Bridge Rd. to Camden Rd. (Water)			High	Expansion	
BID DATE			Medium	New	
START CONSTRUCTION DATE			Low	Renovation	
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000371		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Rockfish Road from Strickland Bridge Road to Camden Road. There are various water and sewer mains throughout the project corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT plans to go to ROW in FY28 and start construction beyond the current TIP schedule. See WS 102 - CPR1000379 for the sewer portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	380,000	380,000
Engineering	-	-	-	-	-	251,000	251,000
Construction	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	30,000	30,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	661,000	661,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							661,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	661,000	661,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	-	661,000	661,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

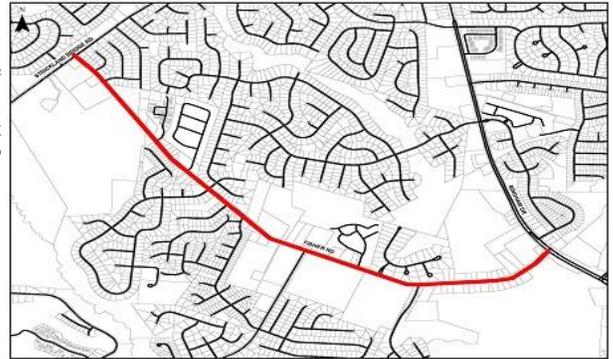
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC162 Bingham Dr. (Water)			High	Expansion	
BID DATE 10/20/2026			Medium	New	
START CONSTRUCTION DATE 12/17/2026			Low	Renovation	
EXPECTED COMPLETION DATE 12/31/2028			BUDGET CODE CPR1000372		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Fisher Road from Strickland Bridge Road to NC 162. There are various water and sewer mains throughout the project corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT plans to go to ROW in FY25 and start construction beyond the current TIP schedule. See WS 93 - CPR1000380 for the sewer portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	677,000	450,000	1,127,000
Engineering	-	-	-	422,000	264,000	369,000	1,055,000
Construction	-	-	-	-	-	7,032,000	7,032,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	15,000	15,000	55,000	85,000
Other	-	-	-	-	-	-	-
Total	-	-	-	437,000	956,000	7,906,000	9,299,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							9,299,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	437,000	956,000	874,000	2,267,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	7,032,000	7,032,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	437,000	956,000	7,906,000	9,299,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION	ACTIVITY	CATEGORY	PRIORITY	TYPE PROJECT
WATER ADMINISTRATION	331000	Water Distribution System	Score	Replacement X
PROJECT TITLE			High X	Expansion
NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks Drive to Fairway Drive			Medium	New
BID DATE		2/15/2021	Low	Renovation X
START CONSTRUCTION DATE		4/15/2021	BUDGET CODE	
EXPECTED COMPLETION DATE		2/28/2028	CPR1000267	

PROJECT DESCRIPTION & JUSTIFICATION

This project will relocate water mains as necessary to eliminate conflicts with the proposed NCDOT roadway construction. The new roadway work will be from Hampton Oaks Drive to Fairway Drive along Raeford Road. Construction of the utility improvements will be included in the NCDOT construction contracts. NCDOT has decided to separate the project into three (3) phases. Reimbursement for this work to NCDOT will be made at the end of the individual phases. Completion of Phase 3 is anticipated to be in FY28. See WS 103 - CPR1000268 for the sewer portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	50,000	50,000	-	-	-	-	100,000
Engineering	100,000	160,000	310,000	280,000	190,000	165,000	1,205,000
Construction	400,000	-	-	2,500,000	-	11,000,000	13,900,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	10,000	10,000	10,000	10,000	25,000	75,000
Other	25,000	50,000	50,000	50,000	50,000	75,000	300,000
Total	585,000	270,000	370,000	2,840,000	250,000	11,265,000	15,580,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,409,000
<i>FY2020 Estimate</i>							100,000
Total							17,089,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	585,000	270,000	370,000	340,000	250,000	265,000	2,080,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	2,500,000	-	11,000,000	13,500,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	585,000	270,000	370,000	2,840,000	250,000	11,265,000	15,580,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

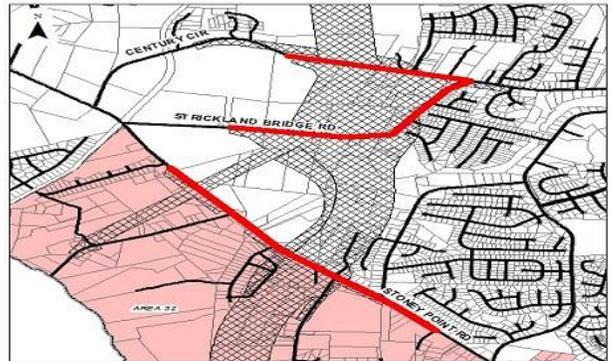
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-2519B A/BB Fayetteville Outer Loop from South of US 401 to South of Strickland Bridge Road (SR 1104) - Water			High	Expansion	
BID DATE 11/17/2020			Medium	New	X
START CONSTRUCTION DATE 1/15/2021			Low	Renovation	
EXPECTED COMPLETION DATE 9/30/2023			BUDGET CODE CPR1000348		

PROJECT DESCRIPTION & JUSTIFICATION

This project will relocate portions of existing 16" and 12" water mains in conflict with NCDOT's roadway improvements for the proposed Outer Loop where it intersects Century Circle, Strickland Bridge Road and Stoney Point Road. This project will include the extension of water mains to serve a portion of Phase V Annexation Area 32. Construction is expected to begin in FY21 and be completed in FY24. An agreement with NCDOT is not in place at this time. However billing is expected upon completion of all highway work and to be made in one final payment. Total construction cost is estimated at \$5,727,000. See WS 94 - CPR1000350 for the sewer portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	5,727,000	-	-	5,727,000
Equipment	-	-	-	-	-	-	-
Personnel	18,000	15,000	15,000	10,000	-	-	58,000
Other	-	-	-	-	-	-	-
Total	18,000	15,000	15,000	5,737,000	-	-	5,785,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							14,000
<i>FY2020 Estimate</i>							-
Total							5,799,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	18,000	15,000	15,000	10,000	-	-	58,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	5,150,000	-	-	5,150,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	577,000	-	-	577,000
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	18,000	15,000	15,000	5,737,000	-	-	5,785,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4403 Ramsey Street Widening - Water			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	10/1/2022		BUDGET CODE		
START CONSTRUCTION DATE	12/1/2022		CPR1000293		
EXPECTED COMPLETION DATE	12/1/2026				

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Ramsey Street from the I-295 Fayetteville Outer Loop to US 401 Business (MLK). PWC has extensive water and sewer facilities in this corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT plans to start construction in year 2023. PWC is anticipating this project to impact the majority of the water and sewer lines along Ramsey Street. See WS 95 - CPR1000312 for the sewer portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	250,000	200,000	-	-	-	-	450,000
Engineering	700,000	650,000	125,000	125,000	100,000	1,500,000	3,200,000
Construction	-	-	-	-	6,500,000	-	6,500,000
Equipment	-	25,000	25,000	25,000	25,000	125,000	225,000
Personnel	25,000	50,000	50,000	50,000	50,000	250,000	475,000
Other	25,000	50,000	50,000	50,000	50,000	250,000	475,000
Total	1,000,000	975,000	250,000	250,000	6,725,000	2,125,000	11,325,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							17,000
<i>FY2020 Estimate</i>							531,000
Total							11,873,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	1,000,000	975,000	250,000	250,000	225,000	2,125,000	4,825,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	6,500,000	-	6,500,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	1,000,000	975,000	250,000	250,000	6,725,000	2,125,000	11,325,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

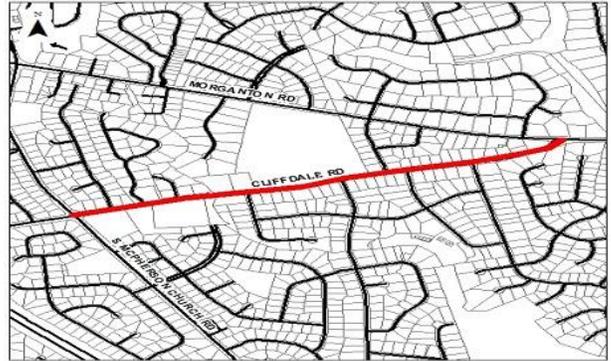
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4404 Cliffdale Road Widening - Water			High	Expansion	
BID DATE 5/18/2024			Medium	New	
START CONSTRUCTION DATE 7/18/2024			Low	Renovation	
EXPECTED COMPLETION DATE 6/30/2025			BUDGET CODE CPR1000294		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Cliffdale Road from McPherson Church Road to Morganton Road. There is a 36" water main that serves Cliffdale Road Elevated Water Storage Tank and various smaller diameter water and gravity sewer mains in this corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT plans to go to ROW in May 2022 and start construction in year 2024. PWC has estimated 25% of the water and sewer lines will be relocated as part of this project. Construction of the utility improvements will be included in the NCDOT construction contract. Reimbursement for this work to NCDOT will be made at the end of the project. See WS 96 - CPR1000313 for the sewer portion of this NCDOT project



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	50,000	50,000	-	-	-	100,000
Engineering	150,000	50,000	25,000	25,000	25,000	-	275,000
Construction	-	-	-	-	700,000	-	700,000
Equipment	-	-	-	-	-	-	-
Personnel	20,000	15,000	25,000	20,000	20,000	-	100,000
Other	10,000	10,000	10,000	10,000	10,000	-	50,000
Total	180,000	125,000	110,000	55,000	755,000	-	1,225,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							3,000
Total							1,228,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	180,000	125,000	110,000	55,000	55,000	-	525,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	700,000	-	700,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	180,000	125,000	110,000	55,000	755,000	-	1,225,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

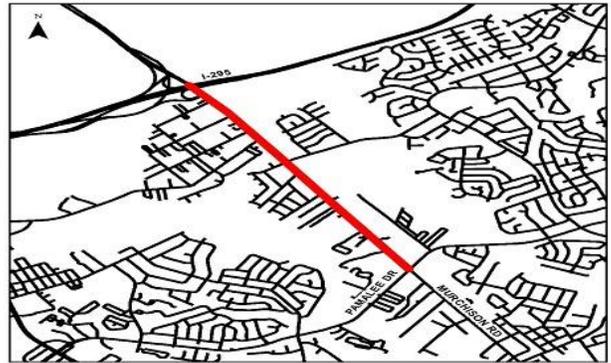
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4900 Murchison Road Widening - Water			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	5/21/2024		BUDGET CODE	CPR1000306	
START CONSTRUCTION DATE	7/21/2024				
EXPECTED COMPLETION DATE	7/21/2027				

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Murchison Rd. from the I-295 Fayetteville Outer Loop to the US 401 Bypass. There is a 24" water main that serves Fort Bragg and various smaller diameter water mains in this corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT plans to go to ROW in May 2022 and to start construction in year 2024. PWC has estimated 50% of the water lines will be relocated as part of this project. Construction of the utility improvements will be included in the NCDOT Construction contract. Reimbursement for this work to NCDOT will be made at the end of the project. See WS 97 - CPR1000314 for the sewer portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	50,000	50,000	-	-	-	100,000
Engineering	500,000	100,000	100,000	100,000	100,000	100,000	1,000,000
Construction	-	-	-	-	-	5,500,000	5,500,000
Equipment	-	-	-	-	-	-	-
Personnel	20,000	20,000	25,000	15,000	15,000	15,000	110,000
Other	10,000	10,000	10,000	10,000	10,000	10,000	60,000
Total	530,000	180,000	185,000	125,000	125,000	5,625,000	6,770,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							26,000
Total							6,796,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	530,000	180,000	185,000	125,000	125,000	125,000	1,270,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	5,500,000	5,500,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	530,000	180,000	185,000	125,000	125,000	5,625,000	6,770,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

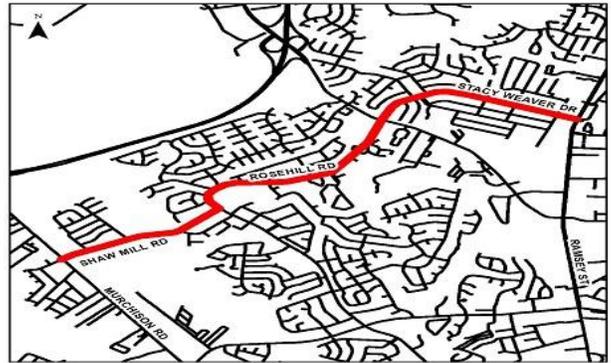
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - Water			High	Expansion	
BID DATE 11/19/2024			Medium	New	
START CONSTRUCTION DATE 2/19/2025			Low	Renovation	
EXPECTED COMPLETION DATE 12/31/2027			BUDGET CODE CPR1000307		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Shaw Road, Shaw Mill Road, Rosehill Road and Stacey Weaver Drive from Murchison Road to Ramsey Street. There is approximately 8,100 LF of 16" AC water main and 6,500 LF of 12" AC water main that is anticipated to be replaced as part of this project. There are also various small diameter water and sewer mains throughout the project corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT plans to go to ROW in FY23 and start construction beyond the current TIP schedule. See WS 98 - CPR1000315 for the sewer portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	250,000	250,000	-	-	-	500,000
Engineering	-	500,000	120,000	100,000	100,000	50,000	870,000
Construction	-	-	-	-	-	4,000,000	4,000,000
Equipment	-	25,000	-	-	-	-	25,000
Personnel	-	30,000	50,000	50,000	50,000	-	180,000
Other	-	20,000	20,000	20,000	20,000	-	80,000
Total	-	825,000	440,000	170,000	170,000	4,050,000	5,655,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							5,655,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	825,000	440,000	170,000	170,000	50,000	1,655,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	4,000,000	4,000,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	825,000	440,000	170,000	170,000	4,050,000	5,655,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

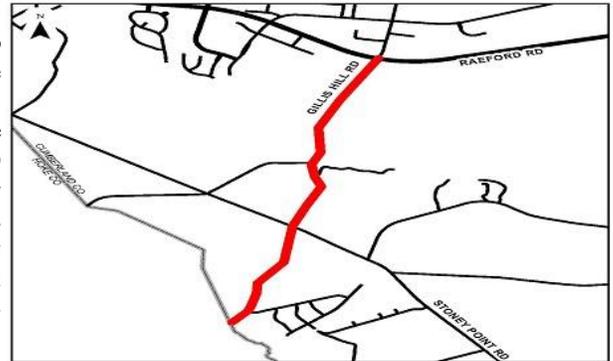
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE DOTR U-5798 A - Gillis Hill Rd Widening - Water			High	Expansion	
BID DATE 3/16/2021			Medium	New	
START CONSTRUCTION DATE 5/16/2021			Low	Renovation	
EXPECTED COMPLETION DATE 5/16/2023			BUDGET CODE CPR1000308		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Gillis Hill Road from US HWY 401 Raeford Road to Lindsey Road in Hoke County. There is a 16" water main serving the Hoke County Water Booster Pump Station and gravity sewer mains in this corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT is proposing to replace the bridge and approximately 6,000 LF of road widening in the first phase of the project scheduled for ROW in May 2020 with construction starting in 2021. The second phase (U-5798B) includes approximately 3,500 LF of road widening is scheduled for ROW in February 2021 and to start construction in 2023. This project is for U-5798A which includes the section from Raeford Road to Stoney Point Road. See WS 99 - CPR1000316 for the sewer portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	20,000	-	-	-	-	-	20,000
Engineering	150,000	155,000	5,000	-	-	-	310,000
Construction	-	1,220,000	-	-	-	-	1,220,000
Equipment	-	-	-	-	-	-	-
Personnel	20,000	20,000	5,000	-	-	-	45,000
Other	10,000	10,000	1,000	-	-	-	21,000
Total	200,000	1,405,000	11,000	-	-	-	1,616,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							69,000
Total							1,685,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	200,000	185,000	11,000	-	-	-	396,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	1,220,000	-	-	-	-	1,220,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	200,000	1,405,000	11,000	-	-	-	1,616,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-5798 B - Gillis Hill Road Widening - Water			High	Expansion	
BID DATE 2/21/2023			Medium	New	
START CONSTRUCTION DATE 4/21/2023			Low	Renovation	
EXPECTED COMPLETION DATE 4/21/2025			BUDGET CODE CPR1000478		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Gillis Hill Road from US HWY 401 Raeford Road to Lindsey Road in Hoke County. There is a 16" water main serving the Hoke County Water Booster Pump Station and gravity sewer mains in this corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT is proposing to replace the bridge and approximately 6,000 LF of road widening in the first phase of the project scheduled for ROW in May 2020 with construction starting in 2021. The second phase (U-5798B) includes approximately 3,500 LF of road widening is scheduled for ROW in February 2021 and to start construction in 2023. This project is for U-5798B which includes the section from Stoney Point Road to Lindsay Road. See WS 100 - CPR1000479 for the sewer portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	25,000	25,000	-	-	-	-	50,000
Engineering	80,000	120,000	70,000	20,000	-	-	290,000
Construction	-	-	-	1,450,000	-	-	1,450,000
Equipment	-	-	-	-	-	-	-
Personnel	50,000	25,000	20,000	10,000	-	-	105,000
Other	50,000	10,000	10,000	10,000	-	-	80,000
Total	205,000	180,000	100,000	1,490,000	-	-	1,975,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,975,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	205,000	180,000	100,000	40,000	-	-	525,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	1,450,000	-	-	1,450,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	205,000	180,000	100,000	1,490,000	-	-	1,975,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

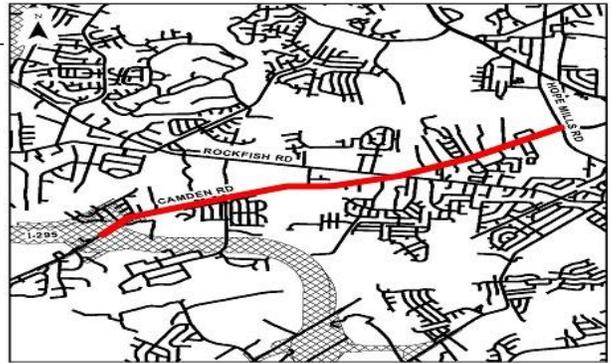
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-3422 Camden Rd Widening - Water			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	10/17/2022		BUDGET CODE	CPR1000309	
START CONSTRUCTION DATE	12/17/2022				
EXPECTED COMPLETION DATE	6/30/2024				

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Camden Road from NC59 Hope Mills Road to the new I-295 Fayetteville Outer Loop. There is a 16" water main, a 12" water main and some intermittent small diameter water/sewer mains in this corridor which will be in conflict with NCDOT's proposed facilities requiring relocation. Due to the extent of NCDOT's widening project, parallel water mains will need to be installed to service customers on both sides of Camden Road. NCDOT plans to go to ROW in October 2020 and start construction in year 2022. PWC has estimated 100% of the water and sewer lines will be relocated as part of this project. Construction will be included in the NCDOT construction contract. Reimbursement for this work to NCDOT will be made at the end of the project. See WS 101 - CPR1000317 for the sewer portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	140,000	200,000	-	-	-	-	340,000
Engineering	840,000	100,000	100,000	100,000	-	-	1,140,000
Construction	-	-	-	11,000,000	-	-	11,000,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	20,000	20,000	20,000	-	-	70,000
Other	10,000	15,000	15,000	15,000	-	-	55,000
Total	1,000,000	335,000	135,000	11,135,000	-	-	12,605,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							67,000
<i>FY2020 Estimate</i>							157,000
Total							12,829,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	1,000,000	335,000	135,000	135,000	-	-	1,605,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	11,000,000	-	-	11,000,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	1,000,000	335,000	135,000	11,135,000	-	-	12,605,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

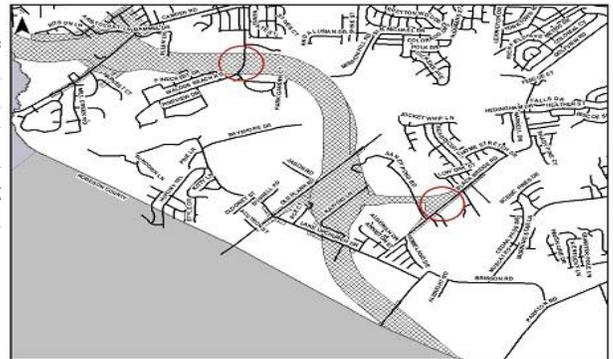
*Priority Score: High Med Low

Water Resources

DIVISION	ACTIVITY	CATEGORY	PRIORITY	TYPE PROJECT
WATER ADMINISTRATION	331000	Water Distribution System	Score	Replacement X
PROJECT TITLE			High X	Expansion
NCDOT U-2519A A/AB - Fayetteville Outer Loop from South of SR 1003 (Camden Rd) to I-95S in Robeson County - Water			Medium	New X
BID DATE		11/21/2017	Low	Renovation
START CONSTRUCTION DATE		1/2/2018	BUDGET CODE	
EXPECTED COMPLETION DATE		7/31/2021	CPR1000400	

PROJECT DESCRIPTION & JUSTIFICATION

This project will extend an 8-inch water main off of Black's Bridge Road where the proposed Fayetteville Outer Loop corridor is cutting off access to several properties. There will also be a replacement of an existing 8-inch water main along Waldo's Beach Road where it is in conflict with the proposed roadway alignment. Construction is expected to begin in FY18 and be completed in FY22. An agreement with NCDOT is not in place at this time. However, billing is expected upon completion of all highway work and to be made in one final payment. Total construction cost is estimated at \$581,000.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	87,000	-	-	-	-	87,000
Construction	-	581,000	-	-	-	-	581,000
Equipment	-	-	-	-	-	-	-
Personnel	20,000	15,000	-	-	-	-	35,000
Other	-	-	-	-	-	-	-
Total	20,000	683,000	-	-	-	-	703,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							6,000
<i>FY2020 Estimate</i>							6,000
Total							715,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	20,000	15,000	-	-	-	-	35,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	668,000	-	-	-	-	668,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	20,000	683,000	-	-	-	-	703,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

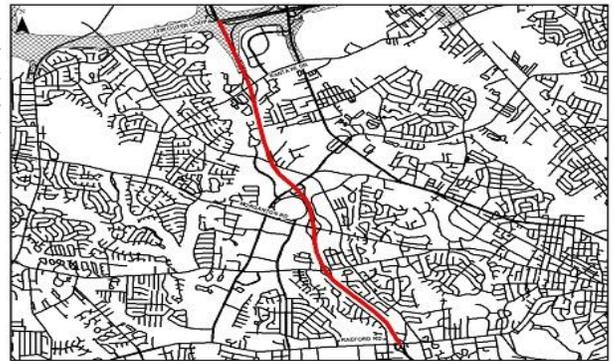
*Priority Score: High Med Low

Water Resources

DIVISION	ACTIVITY	CATEGORY	PRIORITY	TYPE PROJECT
WATER ADMINISTRATION	331000	Water Distribution System	Score	Replacement X
PROJECT TITLE			High X	Expansion
NCDOT U-4414 - All American Freeway Widening from Owen Drive (SR 1151) to North of Santé Fe Dr (SR 1437) - Water			Medium	New X
BID DATE			Low	Renovation
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				
			BUDGET CODE	
			CPR1000401	

PROJECT DESCRIPTION & JUSTIFICATION

This project will involve the adjustment of water mains that are in conflict with the proposed widening of the All American Freeway to add an additional lane in each direction. Right of way acquisition will begin in FY22 and construction is to begin in FY25. Construction to be complete in FY28. See WS 104 - CPR1000404 for the sewer portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	8,000	24,000	-	-	-	32,000
Engineering	40,000	80,000	65,000	20,000	25,000	62,000	292,000
Construction	-	-	-	-	-	2,781,000	2,781,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	10,000	5,000	5,000	3,000	50,000	83,000
Other	-	-	-	-	-	-	-
Total	50,000	98,000	94,000	25,000	28,000	2,893,000	3,188,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							3,188,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	50,000	98,000	94,000	25,000	28,000	112,000	407,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	2,781,000	2,781,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	50,000	98,000	94,000	25,000	28,000	2,893,000	3,188,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 331000	ACTIVITY 331000	CATEGORY Water Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - Water			High	Expansion	
BID DATE 5/17/2022			Medium	New	X
START CONSTRUCTION DATE 7/17/2022			Low	Renovation	
EXPECTED COMPLETION DATE 6/30/2025			BUDGET CODE CPR1000399		

PROJECT DESCRIPTION & JUSTIFICATION

This project will relocate approximately 10,000 linear feet of existing 8-inch and 12-inch water mains in conflict with NCDOT's roadway improvements for Rockfish Road between Golfview Drive and NC 59. The existing 12-inch water main must be replaced as it is asbestos-cement (AC) pipe and NCDOT does not allow AC pipes under the road. Parallel mains will be installed. Construction is anticipated to begin in FY23 and be completed in FY25. An agreement with NCDOT is not in place at this time. However, billing is expected upon completion of all road work and is anticipated to be made in one final payment. See WS #105 - CPR1000398 for the sewer portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	25,000	10,000	40,000	10,000	5,000	-	90,000
Construction	-	-	-	-	3,000,000	-	3,000,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	10,000	10,000	5,000	-	35,000
Other	-	-	50,000	50,000	25,000	-	125,000
Total	30,000	15,000	100,000	70,000	3,035,000	-	3,250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							7,000
<i>FY2020 Estimate</i>							38,000
Total							3,295,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	30,000	15,000	100,000	70,000	35,000	-	250,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	3,000,000	-	3,000,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	30,000	15,000	100,000	70,000	3,035,000	-	3,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION	ACTIVITY 310000	CATEGORY Land and Land Rights	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE Land and Land Rights - Sewer			High		Expansion
			Medium	X	New
			Low		Renovation
BID DATE			BUDGET CODE CPR1000124		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project includes the costs associated with the acquisition of land and land rights due to wastewater treatment and collection system projects. The need arises to purchase land and land rights for projects not associated with the Capital Improvement Plan.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	15,000	15,000	15,000	15,000	15,000	75,000	150,000
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	5,000	5,000	5,000	25,000	50,000
Other	-	-	-	-	-	-	-
Total	20,000	20,000	20,000	20,000	20,000	100,000	200,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							21,000
<i>FY2020 Estimate</i>							19,000
Total							240,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	20,000	20,000	20,000	20,000	20,000	100,000	200,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	20,000	20,000	20,000	20,000	20,000	100,000	200,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(100)	(100)	(100)	(100)	(100)	(500)	(1,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(100)	(100)	(100)	(100)	(100)	(500)	(1,000)

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE New Sewer Service Laterals and Sewer Main Extensions			High	X	Expansion X
			Medium		New X
			Low		Renovation
BID DATE			BUDGET CODE CPR1000125		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project includes the installation of new sewer services and new main extensions by PWC and/or contractor forces to serve new customers. This project also includes the installation of parallel mains where needed. This project will add new customer base and provide system growth. An estimated 50 new customers will be added each year. Revenue is based on 50 new customers times the connection fee of \$6,994 and 50 customers times the average bill of \$36.70 times 12 months.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	60,000	63,000	66,000	69,000	72,000	378,000	708,000
Construction	260,000	273,000	287,000	301,000	316,000	1,659,000	3,096,000
Equipment	60,000	63,000	66,000	69,000	72,000	378,000	708,000
Personnel	100,000	105,000	110,000	116,000	122,000	641,000	1,194,000
Other	-	-	-	-	-	-	-
Total	480,000	504,000	529,000	555,000	582,000	3,056,000	5,706,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							393,000
<i>FY2020 Estimate</i>							455,000
Total							6,554,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	480,000	504,000	529,000	555,000	582,000	3,056,000	5,706,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	480,000	504,000	529,000	555,000	582,000	3,056,000	5,706,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	4,000	4,000	4,000	4,000	4,000	20,000	40,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	4,000	4,000	4,000	4,000	4,000	20,000	40,000

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Sewer Lateral Renewals (PWC Forces)			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000126		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project will replace existing sewer laterals that have reached or exceeded their life expectancy and are not cost effective to repair. Renewing services defers or reduces operating maintenance costs and reduces inflow and infiltration into the collection system. This work is also coordinated with NCDOT and City Street Resurfacing and Streetscape projects to avoid cutting pavement in streets that have been recently resurfaced.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	400,000	410,000	420,000	431,000	442,000	2,265,000	4,368,000
Personnel	350,000	359,000	368,000	377,000	386,000	1,978,000	3,818,000
Other	-	-	-	-	-	-	-
Total	750,000	769,000	788,000	808,000	828,000	4,243,000	8,186,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							602,000
<i>FY2020 Estimate</i>							730,000
Total							9,518,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	750,000	769,000	788,000	808,000	828,000	4,243,000	8,186,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	750,000	769,000	788,000	808,000	828,000	4,243,000	8,186,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	1,000	1,000	1,000	1,000	1,000	5,000	10,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	1,000	1,000	1,000	1,000	1,000	5,000	10,000

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE Lift Station Rehabilitation			High	X	Expansion
			Medium		New
			Low		Renovation
BID DATE		8/16/2017			
START CONSTRUCTION DATE		1/15/2018	BUDGET CODE		
EXPECTED COMPLETION DATE		6/30/2022	CPR1000390		

PROJECT DESCRIPTION & JUSTIFICATION

The project involves the rehabilitation of various lift station wet wells utilizing an epoxy coating. The wet wells are suffering from severe deterioration caused by hydrogen sulfide damage and resulting in need for rehabilitation. This work is necessary to maintain the integrity of the lift stations.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	600,000	600,000	-	-	-	-	1,200,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	10,000	-	-	-	-	20,000
Other	-	-	-	-	-	-	-
Total	610,000	610,000	-	-	-	-	1,220,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							197,000
<i>FY2020 Estimate</i>							600,000
Total							2,017,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	610,000	610,000	-	-	-	-	1,220,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	610,000	610,000	-	-	-	-	1,220,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Sanitary Sewer Manhole Rehabilitation			High <input checked="" type="checkbox"/>	Expansion
			Medium <input type="checkbox"/>	New
			Low <input type="checkbox"/>	Renovation <input checked="" type="checkbox"/>
BID DATE	9/1/2017		BUDGET CODE	
START CONSTRUCTION DATE	11/13/2017		CPR1000127	
EXPECTED COMPLETION DATE	6/30/2022			

PROJECT DESCRIPTION & JUSTIFICATION

This project will include labor and materials to rehabilitate deteriorated sanitary sewer manholes at various locations in the PWC collection system by contract. No new customers will be gained by this work. This work is needed to maintain the integrity of PWC's system. The budget will increase in order to rehabilitate or replace 1% of the system in accordance with the asset management plan.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	2,085,000	2,185,000	2,285,000	2,385,000	2,485,000	13,925,000	25,350,000
Equipment	-	-	-	-	-	-	-
Personnel	15,000	15,000	15,000	15,000	15,000	75,000	150,000
Other	-	-	-	-	-	-	-
Total	2,100,000	2,200,000	2,300,000	2,400,000	2,500,000	14,000,000	25,500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,543,000
<i>FY2020 Estimate</i>							1,950,000
Total							28,993,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	2,100,000	2,200,000	2,300,000	2,400,000	2,500,000	14,000,000	25,500,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	2,100,000	2,200,000	2,300,000	2,400,000	2,500,000	14,000,000	25,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE Sanitary Sewer Main Rehabilitation			High	X	Expansion
			Medium		New
			Low		Renovation
BID DATE		10/6/2017	BUDGET CODE		
START CONSTRUCTION DATE		1/15/2018	CPR1000128		
EXPECTED COMPLETION DATE		6/30/2022			

PROJECT DESCRIPTION & JUSTIFICATION

This project will include labor and materials to rehabilitate deteriorated sanitary sewer mains of various sizes and locations in the PWC collection system by contract. No new customers will be gained by this work. This work is needed to maintain the integrity of PWC's system. Additionally, deteriorated sewer laterals will be replaced/rehabilitated as part of this effort. The budget will increase in order to rehabilitate or replace 1% of the system, in accordance with the asset management plan.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	4,450,000	5,200,000	5,950,000	6,700,000	7,450,000	52,700,000	82,450,000
Equipment	-	-	-	-	-	-	-
Personnel	15,000	15,000	15,000	15,000	15,000	75,000	150,000
Other	1,535,000	1,785,000	2,035,000	2,285,000	2,535,000	11,975,000	22,150,000
Total	6,000,000	7,000,000	8,000,000	9,000,000	10,000,000	64,750,000	104,750,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							5,167,000
<i>FY2020 Estimate</i>							5,327,000
Total							115,244,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	6,000,000	7,000,000	8,000,000	9,000,000	10,000,000	64,750,000	104,750,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	6,000,000	7,000,000	8,000,000	9,000,000	10,000,000	64,750,000	104,750,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

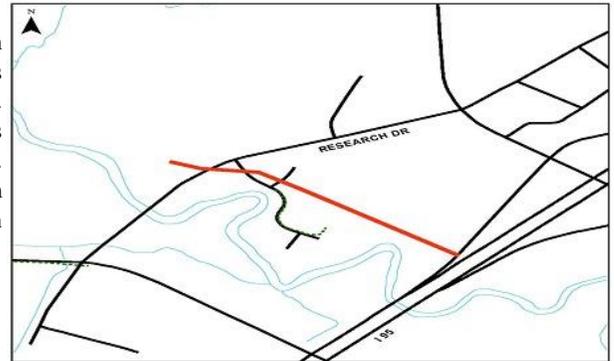
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Line 54" Outfall - Research Drive to I-95			High	Expansion
BID DATE 10/15/2022			Medium	New
START CONSTRUCTION DATE 2/15/2023			Low	Renovation
EXPECTED COMPLETION DATE 2/15/2024			BUDGET CODE CPR1000194	

PROJECT DESCRIPTION & JUSTIFICATION

This project would line approximately 4,000 LF of 54-inch concrete outfall, from Research Drive to Interstate 95. Recent CCTV inspections indicate that this section of outfall has hydrogen sulfide damage and is in need of rehabilitation. There are several sections of this outfall that have exposed rebar. Failure of this outfall would result in significant construction, environmental and social costs. This project is the second of several that will rehabilitate the 54-inch outfall from US 301 to the Rockfish Creek Water Reclamation Facility. This is Project #15 in the Annual Rehabilitation Update Report.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	100,000	50,000	50,000	-	-	200,000
Construction	-	-	500,000	1,700,000	-	-	2,200,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	10,000	10,000	10,000	-	-	35,000
Other	-	-	50,000	50,000	-	-	100,000
Total	5,000	110,000	610,000	1,810,000	-	-	2,535,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							2,000
<i>FY2020 Estimate</i>							18,000
Total							2,555,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	5,000	-	-	-	-	-	5,000
Bonds	-	110,000	610,000	1,810,000	-	-	2,530,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	5,000	110,000	610,000	1,810,000	-	-	2,535,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

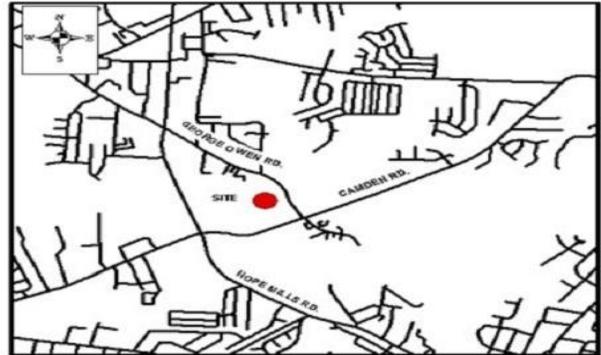
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Rockfish Creek Basin Peak Flow Facilities			High	Expansion X
			Medium X	New X
			Low	Renovation
BID DATE	9/15/2020		BUDGET CODE	
START CONSTRUCTION DATE	12/15/2020		CPR1000135	
EXPECTED COMPLETION DATE	6/15/2022			

PROJECT DESCRIPTION & JUSTIFICATION

This project will construct improvements necessary to relieve portions of the Rockfish Creek Basin interceptor system susceptible to surcharging and potential overflows during periods of extreme wet weather. The first phase of engineering completed in FY11 confirmed the location of collection system bottlenecks. The second phase of engineering started in FY17 and provided the updated basis of design for a 3.5 MG offline Equalization and Pumping Facility located near the junction of the existing 36" and 42" interceptor mains north of Camden Road and west of George Owen Road. This project has been selected to be funded by the NCDEQ State Revolving Loan Program.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	400,000	240,000	-	-	-	-	640,000
Construction	5,100,000	10,212,000	-	-	-	-	15,312,000
Equipment	8,000	8,000	-	-	-	-	16,000
Personnel	35,000	20,000	-	-	-	-	55,000
Other	55,000	25,000	-	-	-	-	80,000
Total	5,598,000	10,505,000	-	-	-	-	16,103,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,244,000
<i>FY2020 Estimate</i>							626,000
Total							17,973,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	98,000	53,000	-	-	-	-	151,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	5,500,000	10,452,000	-	-	-	-	15,952,000
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	5,598,000	10,505,000	-	-	-	-	16,103,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	(20,000)	(20,000)	(20,000)	(20,000)	(100,000)	(180,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	(20,000)	(20,000)	(20,000)	(20,000)	(100,000)	(180,000)

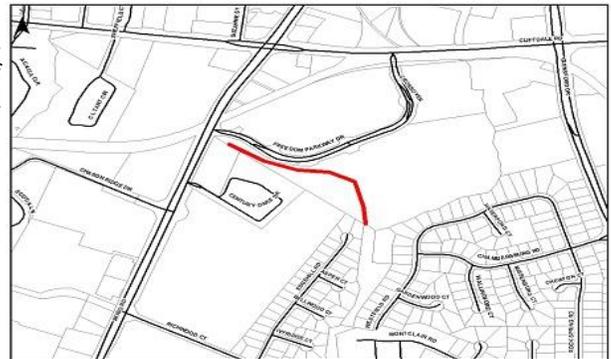
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Freedom Town Center Sewer Replacement			High <input checked="" type="checkbox"/>	Expansion
			Medium <input type="checkbox"/>	New <input checked="" type="checkbox"/>
			Low <input type="checkbox"/>	Renovation
BID DATE	10/15/2020		BUDGET CODE	
START CONSTRUCTION DATE	4/1/2021		CPR1000397	
EXPECTED COMPLETION DATE	12/1/2021			

PROJECT DESCRIPTION & JUSTIFICATION

This project will replace approximately 1,800 linear feet of 8-inch HDPE-lined concrete sewer mains. Replacement of these mains will reduce the likelihood of future sewer spills and facilitate maintenance activities. Engineering was started in FY 2018 and the project is expected to be completed in FY 2022.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	35,000	40,000	-	-	-	-	75,000
Construction	500,000	500,000	-	-	-	-	1,000,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	-	-	-	-	10,000
Other	-	-	-	-	-	-	-
Total	540,000	545,000	-	-	-	-	1,085,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							165,000
<i>FY2020 Estimate</i>							15,000
Total							1,265,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	540,000	545,000	-	-	-	-	1,085,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	540,000	545,000	-	-	-	-	1,085,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

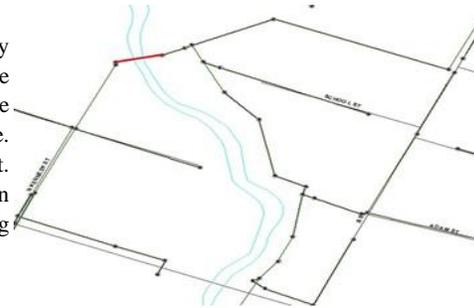
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Kennedy Street Aerial Sewer Replacement			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	2/15/2020		BUDGET CODE	CPR1000413	
START CONSTRUCTION DATE	4/15/2020				
EXPECTED COMPLETION DATE	8/15/2020				

PROJECT DESCRIPTION & JUSTIFICATION

This project will replace the existing aerial sewer crossing at the end of Kennedy St damaged during Hurricane Matthew. Inspections prior to the hurricane indicated that repairs of the structure would be necessary. Inspections after the hurricane revealed additional damage, necessitating replacement of the structure. It is anticipated that FEMA will reimburse PWC a portion of the total cost. Engineering began in FY18 with construction anticipated to be complete in FY21. This project is necessary to ensure the structural integrity of the crossing and reduce the likelihood of failure.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	6,000	-	-	-	-	-	6,000
Construction	200,000	-	-	-	-	-	200,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	-	-	-	-	-	5,000
Other	-	-	-	-	-	-	-
Total	211,000	-	-	-	-	-	211,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							45,000
<i>FY2020 Estimate</i>							156,000
Total							412,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	211,000	-	-	-	-	-	211,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	211,000	-	-	-	-	-	211,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

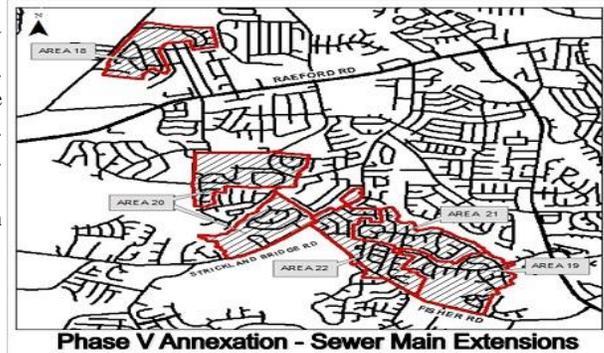
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Phase V Annexation			High	Expansion
			Medium	New
			Low	Renovation
BID DATE	6/1/2009		BUDGET CODE	
START CONSTRUCTION DATE	11/12/2009		CPR1000130	
EXPECTED COMPLETION DATE	6/30/2026			

PROJECT DESCRIPTION & JUSTIFICATION

This project will provide sewer service to the Construction Areas for Phase V Annexation. These areas were annexed into the City of Fayetteville in 2005. Design for Construction Areas began in FY09. Each fiscal year thereafter the next two consecutive Construction Areas will have sewer installed. Approximately 600 new sewer services will be added each fiscal year. Connection rates are assumed to be 50% first year, 10% second year, and 5% each year after. The assumed revenue per customer is \$36.68 with no escalation of the revenue over time.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	2,915,000	1,543,000	1,309,000	579,000	374,000	69,000	6,789,000
Engineering	2,420,000	2,830,000	2,668,000	1,625,000	1,280,000	1,763,000	12,586,000
Construction	23,415,000	19,472,000	19,051,000	18,309,000	22,690,000	23,023,000	125,960,000
Equipment	-	-	-	-	-	-	-
Personnel	890,000	762,000	968,000	923,000	750,000	500,000	4,793,000
Other	137,000	128,000	145,000	128,000	76,000	95,000	709,000
Total	29,777,000	24,735,000	24,141,000	21,564,000	25,170,000	25,450,000	150,837,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							76,501,000
<i>FY2020 Estimate</i>							18,240,000
Total							245,578,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	29,777,000	24,735,000	24,141,000	21,564,000	25,170,000	25,450,000	150,837,000
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	29,777,000	24,735,000	24,141,000	21,564,000	25,170,000	25,450,000	150,837,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	2,083,000	2,407,000	2,801,000	3,167,000	3,590,000	21,782,000	35,830,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	(1,461,000)	(1,672,000)	(1,892,000)	(2,142,000)	(2,364,000)	(14,851,000)	(24,382,000)
Total	622,000	735,000	909,000	1,025,000	1,226,000	6,931,000	11,448,000

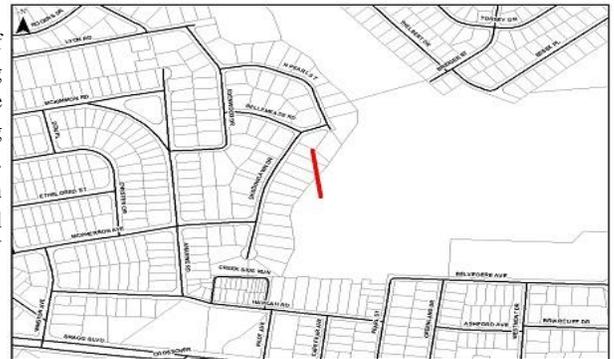
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Replacement of the Shadowlawn Aerial Sewer Crossing			High	Expansion	
			Medium	New	X
			Low	Renovation	
BID DATE	3/15/2021		BUDGET CODE	CPR1000438	
START CONSTRUCTION DATE	7/15/2021				
EXPECTED COMPLETION DATE	5/15/2022				

PROJECT DESCRIPTION & JUSTIFICATION

This project will replace the existing 16-inch cast iron aerial sewer crossing off Shadowlawn Drive. This existing crossing consists of concrete piers supporting the 16-inch pipe. The high stream flows during Hurricane Florence caused the piers to become unstable, threatening the integrity of the crossing. This crossing was initially constructed in 1952 and has reached the end of its service life. Replacement is necessary to ensure that no additional damage occurs due to high flow events and to minimize maintenance costs. It is anticipated that FEMA will reimburse PWC for a portion of this cost. Design is anticipated to start in FY 2020 with construction occurring in FY 2022.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	30,000	-	-	-	-	-	30,000
Engineering	150,000	60,000	-	-	-	-	210,000
Construction	-	1,000,000	-	-	-	-	1,000,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	10,000	-	-	-	-	15,000
Other	-	-	-	-	-	-	-
Total	185,000	1,070,000	-	-	-	-	1,255,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							80,000
Total							1,335,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	185,000	1,070,000	-	-	-	-	1,255,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	185,000	1,070,000	-	-	-	-	1,255,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

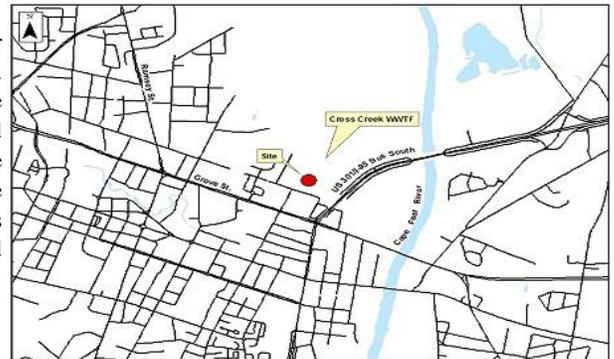
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Lamon Street Aerial Sewer Replacement			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	12/1/2023		BUDGET CODE	CPR1000443	
START CONSTRUCTION DATE	3/1/2024				
EXPECTED COMPLETION DATE	5/1/2025				

PROJECT DESCRIPTION & JUSTIFICATION

This project will replace the existing 42-inch aerial sanitary sewer crossing near Lamon Street that discharges to the Cross Creek Water Reclamation Facility. This crossing has been damaged and the piers have been undermined multiple times. Inspections prior to Hurricane Matthew and Hurricane Florence indicated that repairs of the structure would be necessary. Inspections after each of the hurricanes revealed additional damages, necessitating replacement of the structure. The size of the sanitary sewer main will be increased as part of this project as well in anticipation for increased future flows. Engineering is planned for FY24 and construction is expected to be completed in FY25.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	175,000	175,000	120,000	-	470,000
Construction	-	-	-	1,000,000	1,500,000	-	2,500,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	10,000	10,000	10,000	-	30,000
Other	-	-	-	-	-	-	-
Total	-	-	185,000	1,185,000	1,630,000	-	3,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							3,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	185,000	1,185,000	1,630,000	-	3,000,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	185,000	1,185,000	1,630,000	-	3,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

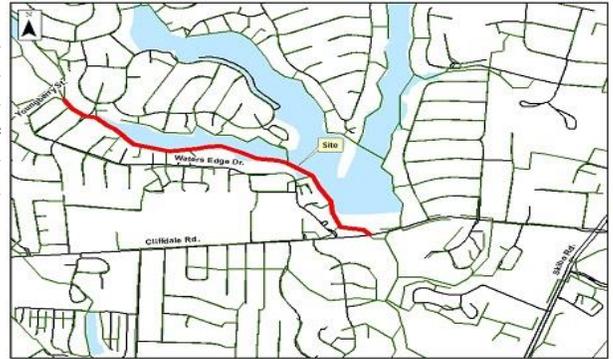
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE McFadyen Lake Sewer Main Rehabilitation			High	Expansion	
BID DATE 11/15/2025			Medium	New	
START CONSTRUCTION DATE 4/15/2026			Low	Renovation	X
EXPECTED COMPLETION DATE 4/15/2027			BUDGET CODE CPR1000446		

PROJECT DESCRIPTION & JUSTIFICATION

This project would line approximately 6,000 LF of 27-inch concrete sewer main from Youngberry Street to Cliffdale Road. This existing outfall runs along and under McFadyen Lake. Recent CCTV inspections have found infiltration and deterioration of the concrete main. Given the location of the main and the difficult access, it is anticipated that this project may be constructed as a design-build or a Construction Manager At Risk (CMAR) project. Design is anticipated to be completed in FY 2025 with construction starting in FY 2026.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	400,000	75,000	475,000
Construction	-	-	-	-	-	3,200,000	3,200,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	5,000	15,000	20,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	405,000	3,290,000	3,695,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							3,695,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	405,000	3,290,000	3,695,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	405,000	3,290,000	3,695,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

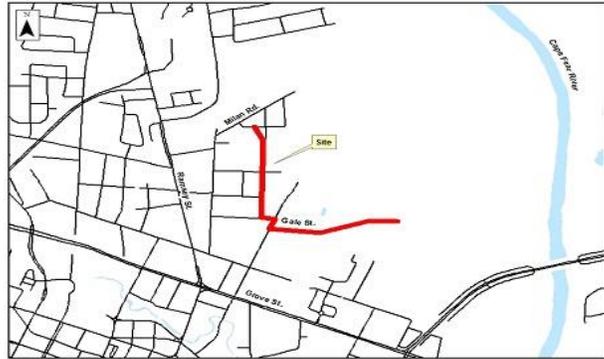
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE Line North Street Outfall, Milan Road to Gale Street			High		Expansion	
			Medium	X	New	
			Low		Renovation	X
BID DATE		4/15/2024	BUDGET CODE			
START CONSTRUCTION DATE		10/1/2024	CPR1000451			
EXPECTED COMPLETION DATE		6/30/2025				

PROJECT DESCRIPTION & JUSTIFICATION

This project will line approximately 5,400 LF of 21-inch and 24-inch clay sewer main between Milan Road and Gale Street. Recent CCTV inspections have indicated significant defects within this section of the outfall. This outfall serves a large portion of central and northern Fayetteville. Failure of this main would result in significant construction, social, and environmental costs.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	900,000	-	900,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	10,000	10,000	-	20,000
Other	-	-	-	-	-	-	-
Total	-	-	-	10,000	910,000	-	920,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							920,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	10,000	910,000	-	920,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	10,000	910,000	-	920,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

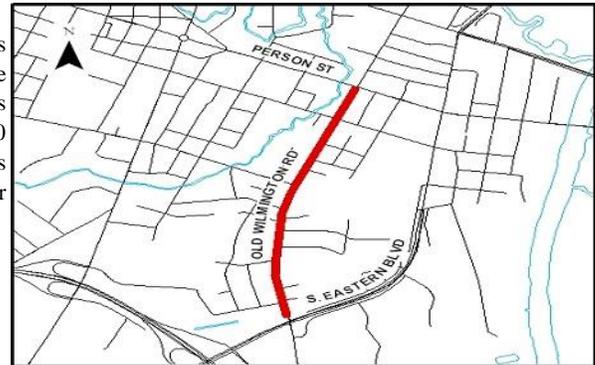
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Old Wilmington Road Sewer Upgrades			High	Expansion	
BID DATE 10/15/2025			Medium	New	
START CONSTRUCTION DATE 3/15/2026			Low	Renovation	
EXPECTED COMPLETION DATE 3/15/2027			BUDGET CODE CPR1000156		

PROJECT DESCRIPTION & JUSTIFICATION

This project consists of replacing the existing 21-inch and 8-inch sewer mains with 24-inch and 12-inch sewer mains. This project is necessary to convey the peak wet weather flows in this drainage basin. Further, the existing sewer mains are vitrified clay, and nearing the end of their service life. Approximately 4,900 LF of 24-inch and 1,800 LF of 12-inch sewer mains will be installed. This project was identified and recommended in the 2008 Cross Creek Sanitary Sewer Master Plan.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	100,000	100,000
Engineering	-	-	-	-	-	625,000	625,000
Construction	-	-	-	-	-	3,100,000	3,100,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	35,000	35,000
Other	-	-	-	-	-	100,000	100,000
Total	-	-	-	-	-	3,960,000	3,960,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							6,000
<i>FY2020 Estimate</i>							-
Total							3,966,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	3,960,000	3,960,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	-	3,960,000	3,960,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

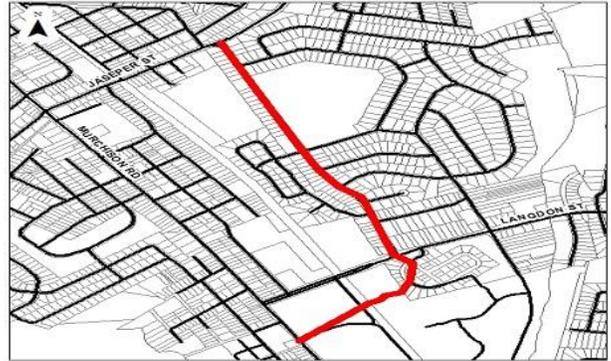
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Murchison Road Sewer Improvements, (Jasper St. to Murchison Rd.)			High	Expansion	
BID DATE 12/15/2021			Medium	New	
START CONSTRUCTION DATE 3/15/2022			Low	Renovation	X
EXPECTED COMPLETION DATE 3/15/2023			BUDGET CODE CPR1000139		

PROJECT DESCRIPTION & JUSTIFICATION

This project involves the replacement of approximately 3,700 linear feet of 8-inch High-Density Polyethylene Pipe (HDPE)-lined vitrified clay sewer mains with new 12-inch sewer mains, and replace approximately 1,750 linear feet of 8-inch and 10-inch sewer mains with new 12-inch Ductile Iron pipe sewer mains. Replacement of the 8-inch HDPE-lined mains will reduce the likelihood of future sewer spills and facilitate maintenance activities. Replacement of the 8-inch and 10-inch sewer main is necessary to convey the peak wet weather flows in this drainage basin. This project was initially identified in the 2008 Cross Creek Sanitary Sewer Master Plan. Recent flow monitoring and modeling confirmed that the existing lines were unable to convey the peak wet weather flows.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	800,000	800,000	-	-	-	1,600,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	15,000	15,000	-	-	-	35,000
Other	-	-	-	-	-	-	-
Total	5,000	815,000	815,000	-	-	-	1,635,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							31,000
<i>FY2020 Estimate</i>							13,000
Total							1,679,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	5,000	815,000	815,000	-	-	-	1,635,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	5,000	815,000	815,000	-	-	-	1,635,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

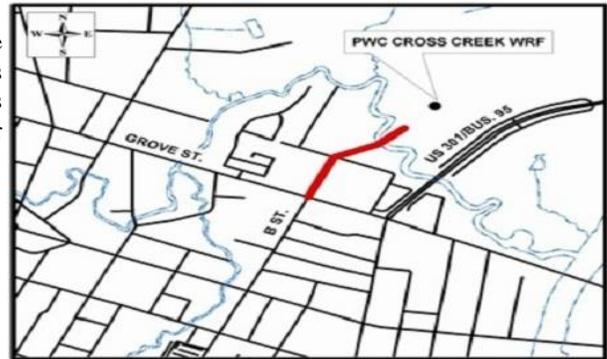
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE B Street Parallel Sewer			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	2/15/2027		BUDGET CODE	CPR1000140	
START CONSTRUCTION DATE	5/1/2027				
EXPECTED COMPLETION DATE	5/1/2028				

PROJECT DESCRIPTION & JUSTIFICATION

This project will install approximately 2,100 LF of 30" sewer, parallel to the existing 48" and 60" outfall that serves Cross Creek WRF. This parallel main is necessary to convey peak wet weather flows within the Cross Creek basin. This project was identified and recommended in the 2008 Cross Creek Sanitary Sewer Master Plan.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	120,000	120,000
Engineering	-	-	-	-	25,000	225,000	250,000
Construction	-	-	-	-	-	1,050,000	1,050,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	5,000	30,000	35,000
Other	-	-	-	-	-	50,000	50,000
Total	-	-	-	-	30,000	1,475,000	1,505,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,505,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	30,000	1,475,000	1,505,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	30,000	1,475,000	1,505,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

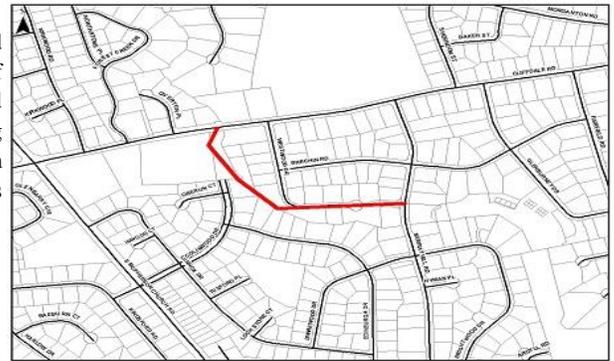
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Branson Creek Interceptor Replacement, Phase I			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	3/1/2024		BUDGET CODE	CPR1000393	
START CONSTRUCTION DATE	6/1/2024				
EXPECTED COMPLETION DATE	3/1/2025				

PROJECT DESCRIPTION & JUSTIFICATION

The project will replace approximately 2,600 LF of 8-inch and 12-inch vitrified clay sewer mains between Cliffdale Road and Murray Hill Road. This section of sewer has parallel mains, exposed pipe in Branson Creek, reverse slopes, and limited capacity during wet weather events. This project will replace the existing mains with a new 12-inch main. The condition of the mains make them unsuitable for lining. Engineering is expected to start in FY22, and the project is expected to be completed in FY25.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	60,000	40,000	-	-	100,000
Engineering	-	30,000	120,000	75,000	75,000	-	300,000
Construction	-	-	-	200,000	750,000	-	950,000
Equipment	-	-	-	-	-	-	-
Personnel	-	5,000	10,000	10,000	5,000	-	30,000
Other	-	-	-	50,000	50,000	-	100,000
Total	-	35,000	190,000	375,000	880,000	-	1,480,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,480,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	35,000	190,000	375,000	880,000	-	1,480,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	35,000	190,000	375,000	880,000	-	1,480,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE Branson Creek Interceptor Replacement, Phase II			High	X	Expansion	
			Medium		New	
			Low		Renovation	
BID DATE		10/15/2025	BUDGET CODE		CPR1000394	
START CONSTRUCTION DATE		3/15/2026				
EXPECTED COMPLETION DATE		12/1/2026				

PROJECT DESCRIPTION & JUSTIFICATION

The project will replace approximately 4,000 LF of 15-inch concrete sewer main between Murray Hill Road and Fairfield Road. This section of sewer has exposed pipe in Branson Creek and limited capacity during wet weather events. This project will replace the existing main with a new 16-inch main. The condition of the main makes it unsuitable for lining. Engineering is expected to start in FY24 and the project is expected to be completed in FY27.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	10,000	50,000	-	60,000
Engineering	-	-	-	40,000	200,000	120,000	360,000
Construction	-	-	-	-	-	1,500,000	1,500,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	5,000	10,000	20,000	35,000
Other	-	-	-	-	-	100,000	100,000
Total	-	-	-	55,000	260,000	1,740,000	2,055,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,055,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	55,000	260,000	1,740,000	2,055,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	55,000	260,000	1,740,000	2,055,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

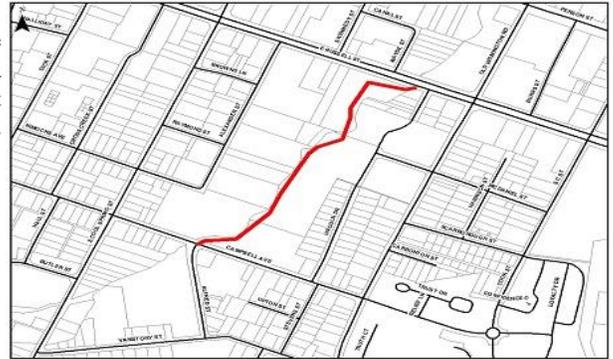
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Rehabilitation of the Blounts Creek Outfall, Campbell to Russell			High	Expansion
BID DATE 10/15/2021			Medium	New
START CONSTRUCTION DATE 1/15/2022			Low	Renovation
EXPECTED COMPLETION DATE 6/30/2022			BUDGET CODE CPR1000392	

PROJECT DESCRIPTION & JUSTIFICATION

The project will line approximately 2,000 LF of 30-inch and 36-inch concrete sewer outfall between Campbell Avenue and Russell Street. This outfall serves a large portion of central Fayetteville. Recent CCTV inspections indicate that deterioration from hydrogen sulfide and infiltration is occurring. Failure of this main would result in significant construction, environmental and social costs.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	550,000	-	-	-	-	550,000
Equipment	-	-	-	-	-	-	-
Personnel	-	10,000	-	-	-	-	10,000
Other	-	-	-	-	-	-	-
Total	-	560,000	-	-	-	-	560,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							560,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	560,000	-	-	-	-	560,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	560,000	-	-	-	-	560,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE Line the Cross Creek Outfall, Blue Street to Gale Street			High	X	Expansion	
			Medium		New	
			Low		Renovation	X
BID DATE		11/20/2019	BUDGET CODE		CPR1000296	
START CONSTRUCTION DATE		4/15/2020				
EXPECTED COMPLETION DATE		12/1/2020				

PROJECT DESCRIPTION & JUSTIFICATION
 This project will line approximately 9,300 LF of 36-inch concrete sewer outfall, between Blue Street and Gale Street. This outfall serves a large portion of central Fayetteville. Failure of this main would result in significant construction, environmental, and social costs. A video inspection of this main indicates that deterioration and infiltration is occurring.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	85,000	-	-	-	-	-	85,000
Construction	2,500,000	-	-	-	-	-	2,500,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	-	-	-	-	-	10,000
Other	-	-	-	-	-	-	-
Total	2,595,000	-	-	-	-	-	2,595,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							542,000
<i>FY2020 Estimate</i>							963,000
Total							4,100,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	2,595,000	-	-	-	-	-	2,595,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	2,595,000	-	-	-	-	-	2,595,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

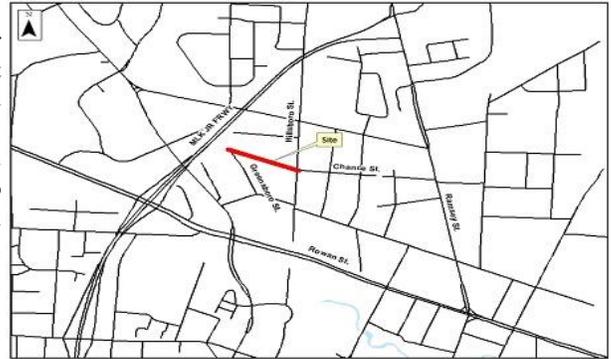
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Replacement of the Cross Creek Outfall, Greensboro Street to Hillsboro Street			High	Expansion	
BID DATE 5/15/2021			Medium	New	X
START CONSTRUCTION DATE 1/15/2022			Low	Renovation	
EXPECTED COMPLETION DATE 11/15/2022			BUDGET CODE CPR1000447		

PROJECT DESCRIPTION & JUSTIFICATION

This project would relocate approximately 2,000 LF of 36-inch concrete sewer outfall between Greensboro Street and Hillsboro Street. During easement negotiations for the rehabilitation of the Cross Creek Outfall, it was discovered that PWC has an existing 10-foot wide easement through the middle of 601 Hillsboro Street. This easement restricts PWC's ability to perform operation and maintenance on the sewer main and the property owner was not willing to renegotiate the easement. It was determined that installing a new sewer outfall along the perimeter of 601 Hillsboro was the most feasible option for PWC. Design is expected to be completed in FY21 with construction starting in FY22.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	85,000	-	-	-	-	-	85,000
Engineering	225,000	80,000	20,000	-	-	-	325,000
Construction	-	3,000,000	500,000	-	-	-	3,500,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	5,000	-	-	-	15,000
Other	-	-	-	-	-	-	-
Total	315,000	3,085,000	525,000	-	-	-	3,925,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							3,925,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	315,000	3,085,000	525,000	-	-	-	3,925,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	315,000	3,085,000	525,000	-	-	-	3,925,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

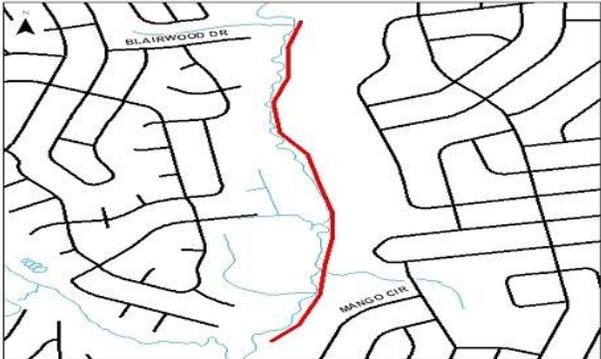
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Line Beaver Creek Outfall, Phase II			High X	Expansion
			Medium	New
			Low	Renovation X
BID DATE	2/15/2023		BUDGET CODE	
START CONSTRUCTION DATE	5/15/2023		CPR1000291	
EXPECTED COMPLETION DATE	2/28/2024			

PROJECT DESCRIPTION & JUSTIFICATION

This project would line approximately 4,800 LF of 42-inch concrete outfall from Blairwood Drive to Mango Circle. Recent CCTV inspections indicate that this section of outfall has hydrogen sulfide damage and is in need of rehabilitation. Further modeling, based on flow monitor data, indicates that this section of outfall has a significant amount of groundwater infiltration. Failure of this outfall would result in significant construction, environmental and social costs. This is Project #11 in the Annual Rehabilitation Update Report.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	200,000	2,000,000	-	-	2,200,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	10,000	10,000	-	-	20,000
Other	-	-	-	-	-	-	-
Total	-	-	210,000	2,010,000	-	-	2,220,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,220,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	210,000	2,010,000	-	-	2,220,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	210,000	2,010,000	-	-	2,220,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low
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Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE Line the Beaver Creek Outfall, Phase III			High	X	Expansion
			Medium		New
			Low		Renovation
BID DATE 10/1/2024			BUDGET CODE CPR1000143		X
START CONSTRUCTION DATE 3/1/2025					
EXPECTED COMPLETION DATE 12/1/2025					

PROJECT DESCRIPTION & JUSTIFICATION

This project will line approximately 3,800 LF of Beaver Creek Outfall. This outfall is 42-inch concrete pipe, and serves a large area west of Hope Mills Road. Failure of this main would result in significant construction, environmental, and social costs. A video inspection of the main indicates that deterioration and infiltration is occurring, and rehabilitation is necessary to maintain its integrity. This is Project #13 in the Annual Rehabilitation Update Report.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	500,000	1,200,000	1,700,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	10,000	10,000	5,000	25,000
Other	-	-	-	-	-	-	-
Total	-	-	-	10,000	510,000	1,205,000	1,725,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>	-	-	-	-	-	-	-
<i>FY2020 Estimate</i>	-	-	-	-	-	-	-
Total	-	-	-	10,000	510,000	1,205,000	1,725,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	10,000	510,000	1,205,000	1,725,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	10,000	510,000	1,205,000	1,725,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

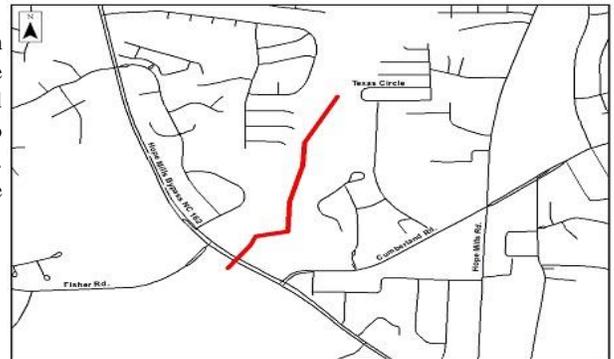
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE Line Beaver Creek Outfall, Phase IV			High	X	Expansion
			Medium		New
			Low		Renovation
BID DATE 10/15/2026			BUDGET CODE CPR1000378		X
START CONSTRUCTION DATE 3/15/2027					
EXPECTED COMPLETION DATE 12/15/2027					

PROJECT DESCRIPTION & JUSTIFICATION

This project will line approximately 3,800 LF of the Beaver Creek Outfall from Texas Circle to the Hope Mills Bypass (NC 162). This outfall is 42-inch concrete pipe serving a large area west of Hope Mills Road. Failure of this main would result in significant construction, environmental, and social costs. A video inspection of the main indicates that deterioration and infiltration is occurring. Rehabilitation is necessary to maintain its integrity. This is Project #14 in the Annual Rehabilitation Update Report.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	1,700,000	1,700,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	25,000	25,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	1,725,000	1,725,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,725,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	1,725,000	1,725,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	-	1,725,000	1,725,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Line Beaver Creek Outfall, Phase V			High	Expansion
			Medium	New
			Low	Renovation
BID DATE	10/15/2028		BUDGET CODE	
START CONSTRUCTION DATE	3/15/2029		CPR1000381	
EXPECTED COMPLETION DATE	12/15/2029			

PROJECT DESCRIPTION & JUSTIFICATION

This project will line approximately 3,500 LF of the Beaver Creek Outfall from the Hope Mills Bypass (NC 162) to Bloomsbury Drive. This outfall is 42-inch concrete pipe serving a large area west of Hope Mills Road. Failure of this main would result in significant construction, environmental, and social costs. A video inspection of the main indicates that deterioration and infiltration is occurring. Rehabilitation is necessary to maintain its integrity.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	1,700,000	1,700,000
Construction	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	25,000	25,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	1,725,000	1,725,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,725,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	1,725,000	1,725,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	-	1,725,000	1,725,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Line Beaver Creek Outfall, Phase VI			High	Expansion	
			Medium	New	
			Low	Renovation	X
BID DATE	11/15/2029		BUDGET CODE	CPR1000448	
START CONSTRUCTION DATE	5/15/2030				
EXPECTED COMPLETION DATE	2/28/2031				

PROJECT DESCRIPTION & JUSTIFICATION

This project will line approximately 5,600 LF of the Beaver Creek Outfall from Bloomsbury Drive to Ole Bluff Mill Drive. This outfall is 42-inch concrete pipe serving a large area west of Hope Mills Road. Failure of this main would result in significant construction, environmental, and social costs. A video inspection of the outfall indicates that deterioration and infiltration is occurring. Rehabilitation is necessary to maintain its integrity. The total anticipated project cost is \$2,900,000.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	200,000	200,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	10,000	10,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	210,000	210,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							210,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	210,000	210,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	-	210,000	210,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

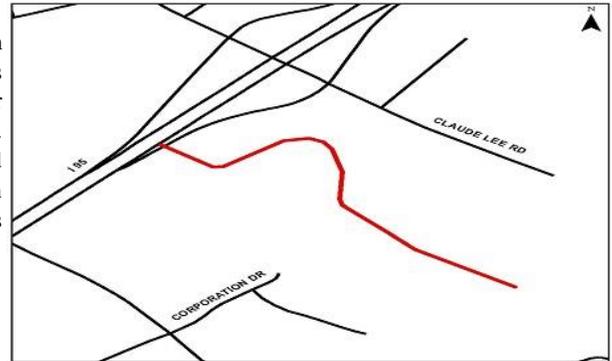
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY		TYPE PROJECT
PROJECT TITLE Line 54" Outfall - I-95 to Claude Lee Road			Score		Replacement
			High		Expansion
			Medium	X	New
			Low		Renovation
BID DATE 10/1/2024			BUDGET CODE CPR1000195		
START CONSTRUCTION DATE 3/1/2025					
EXPECTED COMPLETION DATE 12/1/2025					

PROJECT DESCRIPTION & JUSTIFICATION

This project will line approximately 3,200 LF of 54-inch concrete outfall from Interstate 95 to Claude Lee Road. Recent CCTV inspections indicate that this section of outfall has hydrogen sulfide damage resulting in the need for rehabilitation. There are several sections of this outfall that have exposed rebar. Failure of this outfall would result in significant construction, environmental and social costs. This project is the third of several that will rehabilitate the 54-inch outfall from US 301 to the Rockfish Creek Water Reclamation Facility. This is Project #16 in the Annual Rehabilitation Update Report.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	700,000	1,400,000	2,100,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	10,000	10,000	5,000	25,000
Other	-	-	-	-	-	-	-
Total	-	-	-	10,000	710,000	1,405,000	2,125,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>	-	-	-	-	-	-	-
<i>FY2020 Estimate</i>	-	-	-	-	-	-	-
Total	-	-	-	10,000	710,000	1,405,000	2,125,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	10,000	710,000	1,405,000	2,125,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	10,000	710,000	1,405,000	2,125,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

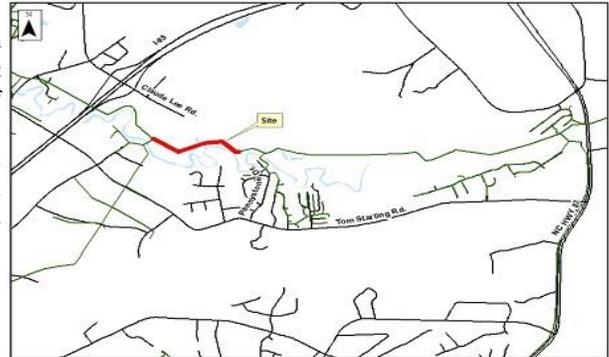
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Line 54-Inch Outfall, Claude Lee Road to Pennystone Drive			High	Expansion	X
			Medium	New	
			Low	Renovation	
BID DATE	11/15/2029		BUDGET CODE	CPR1000449	
START CONSTRUCTION DATE	5/15/2030				
EXPECTED COMPLETION DATE	2/28/2031				

PROJECT DESCRIPTION & JUSTIFICATION

This project would line approximately 2,800 LF of 54-inch concrete outfall from Claude Lee Road to Pennystone Drive. Recent CCTV inspections indicate that this section of outfall has hydrogen sulfide damage and is in need of rehabilitation. There are several sections of this outfall that have exposed rebar. Failure of this outfall would result in significant construction, environmental, and social costs. This project is the third of several that will rehabilitate the 54-inch outfall from US 301 to the Rockfish Creek Water Reclamation Facility. This is Project #16 in the Annual Rehabilitation Update Report.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	2,500,000	2,500,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	30,000	30,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	2,530,000	2,530,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,530,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	2,530,000	2,530,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	-	2,530,000	2,530,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

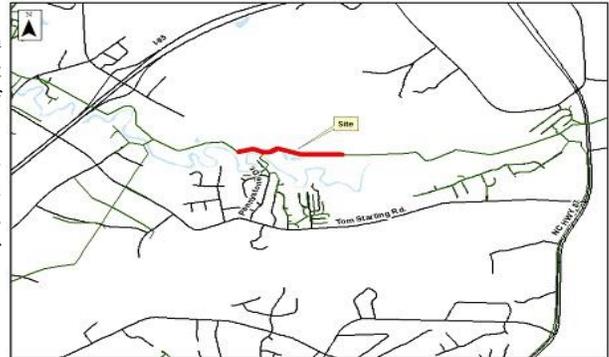
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Line 54-Inch Outfall, Pennystone Drive to Laurelwood Place			High	Expansion	
			Medium	New	
			Low	Renovation	X
BID DATE	10/15/2030		BUDGET CODE	CPR1000450	
START CONSTRUCTION DATE	3/15/2031				
EXPECTED COMPLETION DATE	3/15/2032				

PROJECT DESCRIPTION & JUSTIFICATION

This project would line approximately 2,800 LF of 54-inch concrete outfall from Pennystone Drive to Laurelwood Place. Recent CCTV inspections indicate that this section of outfall has hydrogen sulfide damage and is in need of rehabilitation. There are several sections of this outfall that have exposed rebar. Failure of this outfall would result in significant construction, environmental, and social costs. This project is the third of several that will rehabilitate the 54-inch outfall from US 301 to the Rockfish Creek Water Reclamation Facility. This is Project #16 in the Annual Rehabilitation Update Report. The estimated cost for this project is \$2,500,000.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	10,000	10,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	10,000	10,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							10,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	10,000	10,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	-	10,000	10,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

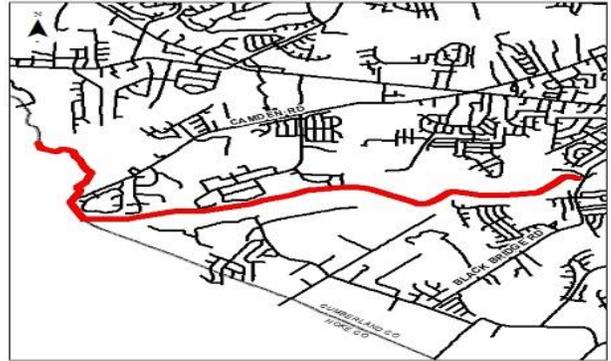
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Big Rockfish Sanitary Sewer Outfall			High	Expansion	X
BID DATE 8/12/2020			Medium	New	
START CONSTRUCTION DATE 10/15/2020			Low	Renovation	
EXPECTED COMPLETION DATE 8/15/2023			BUDGET CODE CPR1000310		

PROJECT DESCRIPTION & JUSTIFICATION

This project will construct a new 24"-18" sanitary sewer outfall along Big Rockfish Creek and Stewart's Creek at the Cumberland/Hoke County line. This area is expected to see an increase in new development and sewer customers due to the planned I-295 Fayetteville Outer Loop and Annexation Areas 32 and 34. The proposed Outfall will eliminate the need for a future lift station to serve the Annexation Areas. This project has been approved for funding through the Clean Water State Revolving Fund (CWSRF).



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	856,000	-	-	-	-	-	856,000
Engineering	201,000	241,000	15,000	-	-	-	457,000
Construction	6,778,000	8,025,000	3,856,000	-	-	-	18,659,000
Equipment	-	-	-	-	-	-	-
Personnel	180,000	471,000	138,000	-	-	-	789,000
Other	412,000	43,000	20,000	-	-	-	475,000
Total	8,427,000	8,780,000	4,029,000	-	-	-	21,236,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,109,000
<i>FY2020 Estimate</i>							1,994,000
Total							24,339,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	180,000	471,000	138,000	-	-	-	789,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	8,247,000	8,309,000	3,891,000	-	-	-	20,447,000
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	8,427,000	8,780,000	4,029,000	-	-	-	21,236,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	(12,600)	(12,600)	(12,600)	-	(37,800)
Capital Outlays	-	-	(700,000)	(700,000)	(700,000)	-	(2,100,000)
New Revenue	-	-	-	-	-	-	-
Total	-	-	(712,600)	(712,600)	(712,600)	-	(2,137,800)

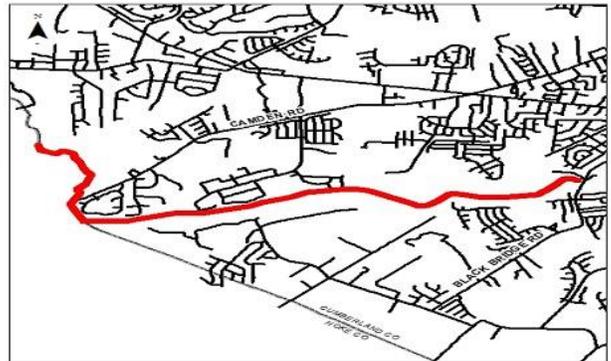
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Big Rockfish Sanitary Sewer Outfall - Lift Station Eliminations			High	Expansion	X
BID DATE 8/15/2022			Medium	New	
START CONSTRUCTION DATE 12/15/2022			Low	Renovation	
EXPECTED COMPLETION DATE 4/15/2024			BUDGET CODE CPR1000427		

PROJECT DESCRIPTION & JUSTIFICATION

This project will construct new 12" - 8" sanitary sewer mains from the Big Rockfish Creek Outfall to six (6) existing lift stations. This area is expected to see an increase in new development and sewer customers due to the planned I-295 Fayetteville Outer Loop and Annexation Areas 32 and 34. The proposed mains will eliminate six (6) existing sewer lift stations. This project was approved for funding through the Clean Water State Revolving Fund (CWSRF).



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	386,000	-	-	-	-	-	386,000
Engineering	-	32,000	101,000	204,000	-	-	337,000
Construction	-	-	1,378,000	2,067,000	-	-	3,445,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	25,000	132,000	137,000	-	-	304,000
Other	-	150,000	20,000	24,000	-	-	194,000
Total	396,000	207,000	1,631,000	2,432,000	-	-	4,666,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							319,000
<i>FY2020 Estimate</i>							858,000
Total							5,843,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	10,000	25,000	132,000	137,000	-	-	304,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	386,000	182,000	1,499,000	2,295,000	-	-	4,362,000
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	396,000	207,000	1,631,000	2,432,000	-	-	4,666,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	(12,600)	(12,600)	(12,600)	-	(37,800)
Capital Outlays	-	-	(262,000)	(262,000)	(262,000)	-	(786,000)
New Revenue	-	-	-	-	-	-	-
Total	-	-	(274,600)	(274,600)	(274,600)	-	(823,800)

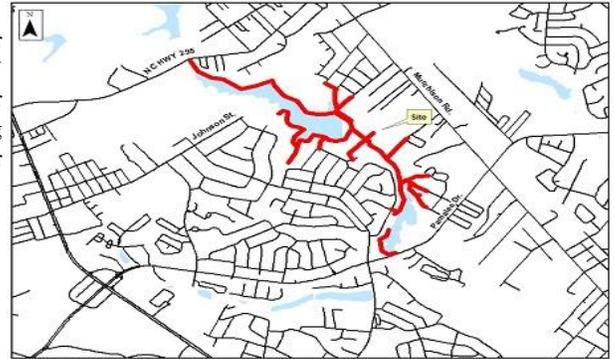
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Sewer Main Rehab - Mintz Pond and Kornbow Lake			High	Expansion
			Medium	New
			Low	Renovation
BID DATE	10/15/2021		BUDGET CODE	
START CONSTRUCTION DATE	2/15/2022		CPR1000452	
EXPECTED COMPLETION DATE	12/15/2022			

PROJECT DESCRIPTION & JUSTIFICATION

This project will line approximately 15,000 LF of 8, 12, 15, and 18-inch sewer mains within the Mintz Pond - Kornbow Lake watershed area. Recent CCTV inspections have indicated serious defects within many sections of the sewer mains. These mains are within PWC's Watershed area and completing rehabilitation will ensure their integrity and minimize the risk of a sanitary sewer overflow.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	400,000	700,000	-	-	-	1,100,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	10,000	10,000	-	-	-	25,000
Other	-	-	-	-	-	-	-
Total	5,000	410,000	710,000	-	-	-	1,125,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,125,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	5,000	410,000	710,000	-	-	-	1,125,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	5,000	410,000	710,000	-	-	-	1,125,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

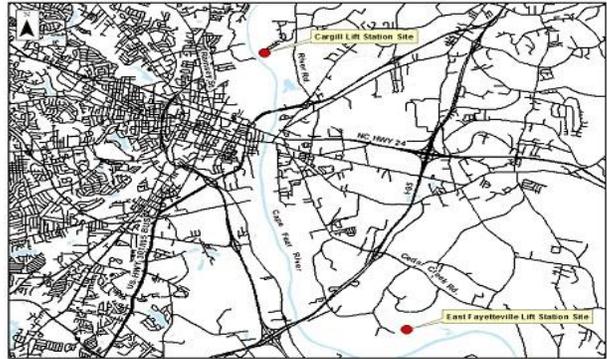
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Lift Station Electrical Upgrades			High <input checked="" type="checkbox"/>	Expansion
			Medium <input type="checkbox"/>	New
			Low <input type="checkbox"/>	Renovation <input checked="" type="checkbox"/>
BID DATE	4/15/2024		BUDGET CODE	CPR1000442
START CONSTRUCTION DATE	8/15/2024			
EXPECTED COMPLETION DATE	8/15/2026			

PROJECT DESCRIPTION & JUSTIFICATION

This project involves replacement of the electrical and mechanical controls at the East Fayetteville Lift Station and Cargill Lift Station. Both LSs were constructed in the 1980's; replacement parts for the electrical and mechanical controls are becoming obsolete. Additionally, PWC will look at upgrading to variable frequency drives to allow for smoother starts and stops reducing stresses on the force mains and associated piping. The Cargill LS controls are subject to flooding which will be raised as part of this project. A preliminary engineering report will be completed for each lift station in order to review options and determine a final design. This work is necessary to facilitate operation and maintenance of the lift stations.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	30,000	100,000	220,000	170,000	40,000	560,000
Construction	-	-	-	-	800,000	1,000,000	1,800,000
Equipment	-	-	-	-	-	-	-
Personnel	-	5,000	10,000	10,000	15,000	20,000	60,000
Other	-	-	-	-	-	-	-
Total	-	35,000	110,000	230,000	985,000	1,060,000	2,420,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							1,000
Total							2,421,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	35,000	110,000	230,000	985,000	1,060,000	2,420,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	35,000	110,000	230,000	985,000	1,060,000	2,420,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION	ACTIVITY	CATEGORY	PRIORITY	TYPE PROJECT
WATER ADMINISTRATION	341500	Sanitary Sewer Collection	Score	Replacement X
PROJECT TITLE			High	Expansion X
North Fayetteville Lift Station Upgrades - Phase 4			Medium X	New
BID DATE			Low	Renovation
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE			BUDGET CODE	
			CPR1000426	

PROJECT DESCRIPTION & JUSTIFICATION

The electrical and mechanical controls at the N. Fayetteville Lift Station (LS #48) are 30 years old, and it is becoming difficult to find replacement parts. Currently, PWC is completing a preliminary evaluation of various pumps, controls, and other possible upgrades. Once the study is completed, the design of the selected option(s) will begin. It is anticipated that the design will be completed in FY21, and construction of the upgrades will occur in FY22. This project will install mechanical and electrical upgrades that are needed to efficiently operate and maintain the lift station, as well as to serve the expected growth in the North Fayetteville area.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	200,000	40,000	10,000	-	-	-	250,000
Construction	-	800,000	200,000	-	-	-	1,000,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	10,000	5,000	-	-	-	25,000
Other	-	-	-	-	-	-	-
Total	210,000	850,000	215,000	-	-	-	1,275,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							62,000
Total							1,337,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	210,000	850,000	215,000	-	-	-	1,275,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	210,000	850,000	215,000	-	-	-	1,275,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 351000	ACTIVITY 351000	CATEGORY Cross-Creek WRF	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Cross Creek WRF Reliability Improvements			High	Expansion	
			Medium	New	
			Low	Renovation	X
BID DATE	6/1/2022		BUDGET CODE	CPR1000454	
START CONSTRUCTION DATE	10/1/2022				
EXPECTED COMPLETION DATE	6/1/2024				

PROJECT DESCRIPTION & JUSTIFICATION

This project will address reliability of the Cross Creek WRF by implementing improvements to both the liquid and residual treatment processes. Existing equipment that is approaching the end of its useful life will be replaced. The project will not expand treatment capacity.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	1,225,000	674,000	551,000	-	-	2,450,000
Construction	-	-	9,625,000	7,875,000	-	-	17,500,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	1,225,000	10,299,000	8,426,000	-	-	19,950,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							19,950,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	1,225,000	10,299,000	8,426,000	-	-	19,950,000
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	1,225,000	10,299,000	8,426,000	-	-	19,950,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 351000	ACTIVITY 351000	CATEGORY Cross-Creek WRF	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE Replace Standby Power Generator at the Cross Creek WRF			High	X	Expansion	
			Medium		New	
			Low		Renovation	
BID DATE		10/15/2021	BUDGET CODE			
START CONSTRUCTION DATE		12/14/2021	CPR1000455			
EXPECTED COMPLETION DATE		6/12/2022				

PROJECT DESCRIPTION & JUSTIFICATION

The existing standby power generator at the Rockfish Creek WRF, installed circa 2006, is reaching the end of its useful life. This project will replace that equipment with a new standby power generator and switchgear complete with Tier 4 engines that will allow for "peak shaving" operation. Engineering for preparation of "design / build" construction documents for soliciting bids and project construction will be completed in FY22.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	115,000	-	-	-	-	115,000
Construction	-	-	-	-	-	-	-
Equipment	-	2,000,000	-	-	-	-	2,000,000
Personnel	-	20,000	-	-	-	-	20,000
Other	-	-	-	-	-	-	-
Total	-	2,135,000	-	-	-	-	2,135,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,135,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	2,135,000	-	-	-	-	2,135,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	2,135,000	-	-	-	-	2,135,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 353500	ACTIVITY 353500	CATEGORY Rockfish Creek WRF	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE Replace Clarifier #3 Mechanism at the Rockfish Creek WRF			High	X	Expansion	
			Medium		New	
			Low		Renovation	
BID DATE		2/1/2022	BUDGET CODE			
START CONSTRUCTION DATE		4/2/2022	CPR1000457			
EXPECTED COMPLETION DATE		6/1/2022				

PROJECT DESCRIPTION & JUSTIFICATION

This project will replace the existing steel mechanism in secondary clarifier #3 at the Rockfish Creek WRF. This equipment was originally installed circa 2001 and is nearing the end of its useful life.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	30,000	-	-	-	-	30,000
Construction	-	125,000	-	-	-	-	125,000
Equipment	-	175,000	-	-	-	-	175,000
Personnel	-	30,000	-	-	-	-	30,000
Other	-	-	-	-	-	-	-
Total	-	360,000	-	-	-	-	360,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							360,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	360,000	-	-	-	-	360,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	360,000	-	-	-	-	360,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

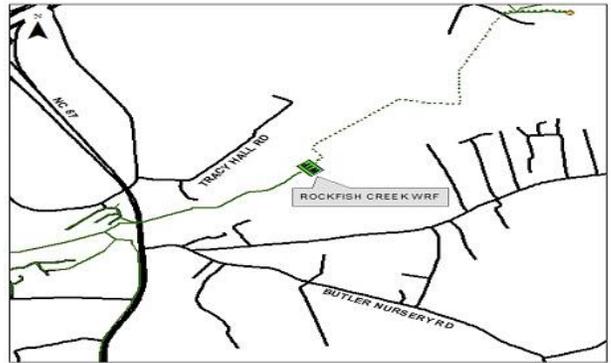
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 353500	ACTIVITY 353500	CATEGORY Rockfish Creek WRF	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Rockfish Creek WRF Expansion Phase 3			High <input checked="" type="checkbox"/>	Expansion <input checked="" type="checkbox"/>
			Medium <input type="checkbox"/>	New <input type="checkbox"/>
			Low <input type="checkbox"/>	Renovation <input type="checkbox"/>
BID DATE	11/15/2022		BUDGET CODE	
START CONSTRUCTION DATE	2/13/2023		CPR1000324	
EXPECTED COMPLETION DATE	2/12/2026			

PROJECT DESCRIPTION & JUSTIFICATION

The Rockfish Creek WRF is currently permitted for 21.0 MGD capacity. The current average daily flow (ADF) rate is approaching 15 MGD. Design for expansion is typically initiated when the ADF approaches 80% of the permitted treatment capacity which is 16.80 MGD. A Preliminary Engineering Report addressing the Phase 3 Expansion of the Rockfish Creek WRF was completed in FY20. Design will be initiated in FY22 with construction to follow in subsequent years.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	35,000	3,589,000	738,000	1,583,000	1,809,000	1,131,000	8,885,000
Construction	-	-	5,000,000	22,750,000	26,000,000	16,250,000	70,000,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	20,000	20,000	20,000	20,000	20,000	105,000
Other	-	-	-	-	-	-	-
Total	40,000	3,609,000	5,758,000	24,353,000	27,829,000	17,401,000	78,990,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							191,000
<i>FY2020 Estimate</i>							593,000
Total							79,774,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	40,000	3,609,000	5,758,000	24,353,000	27,829,000	17,401,000	78,990,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	40,000	3,609,000	5,758,000	24,353,000	27,829,000	17,401,000	78,990,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

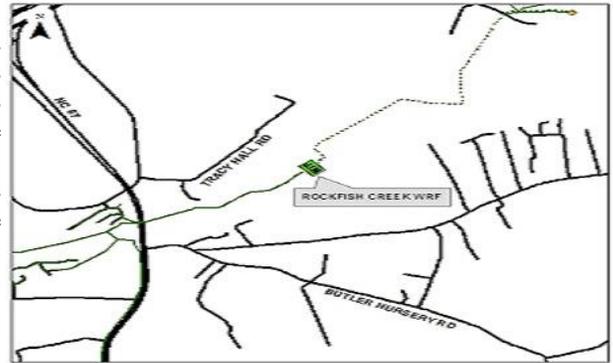
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 353500	ACTIVITY 353500	CATEGORY Rockfish Creek WRF	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Rockfish Creek WRF Screening Improvements			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	9/15/2020		BUDGET CODE CPR1000329		
START CONSTRUCTION DATE	1/15/2021				
EXPECTED COMPLETION DATE	10/12/2021				

PROJECT DESCRIPTION & JUSTIFICATION

Existing fine screens at the Rockfish Creek WRF headworks facilities are located immediately downstream from the Influent Pump Station screw pumps. This equipment requires excessive maintenance and downtime. The extreme wear has accelerated the useful life of this equipment. This project will replace those existing fine screens with equipment better suited for this rigorous application. Work on the Preliminary Engineering Report (PER) in FY19 revealed issues with the slide gates isolating the downstream grit chamber facility. Hence, the scope of the project has been expanded to include grit chamber improvements. The PER was complete in FY19 with detailed design initiated in FY20. Construction is scheduled for FY21 and FY22.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	65,000	60,000	-	-	-	-	125,000
Construction	1,800,000	500,000	-	-	-	-	2,300,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	-	-	-	-	10,000
Other	-	-	-	-	-	-	-
Total	1,870,000	565,000	-	-	-	-	2,435,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							34,000
<i>FY2020 Estimate</i>							220,000
Total							2,689,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	1,870,000	565,000	-	-	-	-	2,435,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	1,870,000	565,000	-	-	-	-	2,435,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	(5,000)	(5,000)	(5,000)	(5,000)	(25,000)	(45,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	(5,000)	(5,000)	(5,000)	(5,000)	(25,000)	(45,000)

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 353500	ACTIVITY 353500	CATEGORY Rockfish Creek WRF	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Replace Rockfish Creek WRF IPS Screw Pumps #1 and #2			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000459		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

There are four (4) screw pumps at the Rockfish Creek Influent Pump Station that were installed circa 2005. All four are approaching the end of their useful life due largely to the corrosive wastewater environment typical of the facility headworks. This project will remove and replace Screw Pumps #1 and #2. Procurement will commence in FY22 with construction in FY23.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	15,000	-	-	-	15,000
Construction	-	-	310,000	-	-	-	310,000
Equipment	-	-	600,000	-	-	-	600,000
Personnel	-	15,000	15,000	-	-	-	30,000
Other	-	-	-	-	-	-	-
Total	-	15,000	940,000	-	-	-	955,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							955,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	15,000	940,000	-	-	-	955,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	15,000	940,000	-	-	-	955,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION	ACTIVITY 353500	CATEGORY Rockfish Creek WRF	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Replace Rockfish Creek WRF IPS Screw Pumps #3 and #4			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000460		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

There are four (4) screw pumps at the Rockfish Creek Influent Pump Station that were installed circa 2005. All four are approaching the end of their useful life due largely to the corrosive wastewater environment typical of the facility headworks. This project will remove and replace Screw Pumps #3 and #4. Procurement will commence in FY23 with construction in FY24.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	15,000	-	-	15,000
Construction	-	-	-	310,000	-	-	310,000
Equipment	-	-	-	600,000	-	-	600,000
Personnel	-	-	15,000	15,000	-	-	30,000
Other	-	-	-	-	-	-	-
Total	-	-	15,000	940,000	-	-	955,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							955,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	15,000	940,000	-	-	955,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	15,000	940,000	-	-	955,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

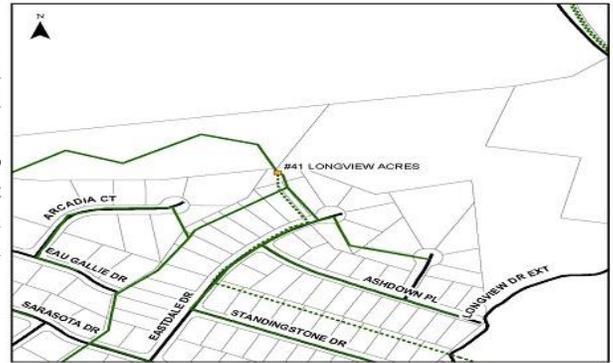
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Longview Lift Station and Force Main Upgrade			High	Expansion X
BID DATE 10/15/2021			Medium X	New
START CONSTRUCTION DATE 1/1/2022			Low	Renovation X
EXPECTED COMPLETION DATE 10/15/2022			BUDGET CODE CPR1000311	

PROJECT DESCRIPTION & JUSTIFICATION

This project will upgrade the existing Longview Lift Station and Force Main. The lift station currently operates at about 90% of capacity. The station is located just south of Methodist University, east of Ramsey Street. This area is expected to have continued growth. This service area includes Annexation Areas 30 & 31 which are scheduled to begin construction in 2023. This service area also includes at least one known development for a new shopping center. A project Preliminary Engineering Report was completed in FY19 with detailed design slated for FY20 and FY21. Construction will begin in FY22 and wrap up in FY23.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	40,000	40,000	15,000	-	-	-	95,000
Construction	-	1,000,000	350,000	-	-	-	1,350,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	20,000	10,000	-	-	-	35,000
Other	-	-	-	-	-	-	-
Total	45,000	1,060,000	375,000	-	-	-	1,480,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							19,000
<i>FY2020 Estimate</i>							120,000
Total							1,619,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	45,000	-	-	-	-	-	45,000
Bonds	-	1,060,000	375,000	-	-	-	1,435,000
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	45,000	1,060,000	375,000	-	-	-	1,480,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	(163,000)	(163,000)	(163,000)	(163,000)	(163,000)	(163,000)	(978,000)
New Revenue	-	-	-	-	-	-	-
Total	(163,000)	(163,000)	(163,000)	(163,000)	(163,000)	(163,000)	(978,000)

*Priority Score: High Med Low

Water Resources

DIVISION	ACTIVITY	CATEGORY	PRIORITY	TYPE PROJECT
WATER ADMINISTRATION	341500	Sanitary Sewer Collection	Score	Replacement X
PROJECT TITLE			High X	Expansion
Hurricane Matthew Improvement of Sewer Mains			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE	
START CONSTRUCTION DATE			CPR1000332	
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

Hurricane Matthew damaged multiple PWC sewer mains causing the need for them to be replaced. These damages occurred at washouts on various NCDOT and City of Fayetteville roads and culverts, as well as multiple aerial crossing locations. Known areas include Sweetbay Drive, Bramblegate Road, Bingham Drive, Ann Street and Mirror Lake Dam. These projects are to be submitted to FEMA for partial reimbursements.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	30,000	-	-	-	-	-	30,000
Construction	400,000	-	-	-	-	-	400,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	-	-	-	-	-	10,000
Other	10,000	-	-	-	-	-	10,000
Total	450,000	-	-	-	-	-	450,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,897,000
<i>FY2020 Estimate</i>							2,759,000
Total							5,106,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	450,000	-	-	-	-	-	450,000
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	450,000	-	-	-	-	-	450,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Utility Improvements for City of Fayetteville Storm Drainage Improvements - Sewer			High	Expansion	X
			Medium	New	X
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000141		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The City of Fayetteville is planning various storm drainage improvement projects throughout the City during the upcoming years. These projects will impact areas containing PWC sewer utilities. PWC staff and City staff coordinate the planning and design of these projects and work to avoid conflicts where possible. Where these conflicts are unavoidable, the City incorporates the necessary utility adjustments into their contracts and the associated costs are paid by PWC. There are situations where PWC determines that, due to aging infrastructure or operational issues, utility improvements are necessary. These improvements are the financial responsibility of PWC as well. See WS 26 - CPR1000096 for the water portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	10,000	10,000	10,000	10,000	10,000	50,000	100,000
Construction	85,000	210,000	210,000	210,000	210,000	1,050,000	1,975,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	10,000	10,000	10,000	10,000	50,000	95,000
Other	-	-	-	-	-	-	-
Total	100,000	230,000	230,000	230,000	230,000	1,150,000	2,170,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							70,000
<i>FY2020 Estimate</i>							43,000
Total							2,283,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	100,000	230,000	230,000	230,000	230,000	1,150,000	2,170,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	100,000	230,000	230,000	230,000	230,000	1,150,000	2,170,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

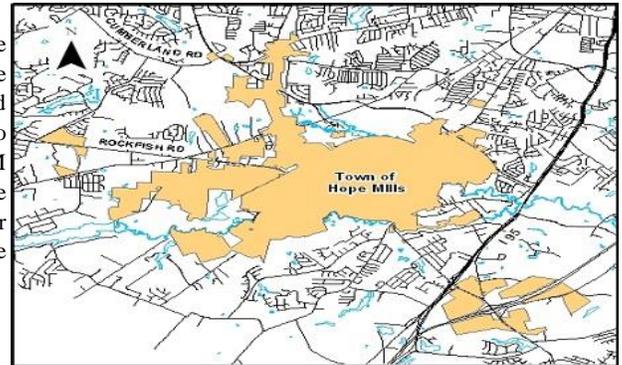
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Utility Improvements for the Town of Hope Mills Stormwater Projects - Sewer			High	Expansion	X
			Medium	New	
			Low	Renovation	X
BID DATE			BUDGET CODE CPR1000155		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The Town of Hope Mills (TOHM) is planning various storm drainage improvements throughout PWC's service area in the upcoming years. These projects will impact areas containing PWC sanitary sewer utilities. PWC and TOHM staff coordinate the planning and design of these projects and work to avoid conflicts where possible. Where conflicts are unavoidable, the TOHM incorporates the necessary utility adjustments into their contracts, and pays the costs. In situations where PWC determines that, due to aging infrastructure or operational issues, utility improvements are necessary, PWC pays the cost. See WS 28 - CPR1000105 for the water portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	20,000	20,000	20,000	20,000	20,000	100,000	200,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	5,000	5,000	5,000	25,000	50,000
Other	-	-	-	-	-	-	-
Total	25,000	25,000	25,000	25,000	25,000	125,000	250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							91,000
<i>FY2020 Estimate</i>							2,000
Total							343,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	25,000	25,000	25,000	25,000	25,000	125,000	250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT	Replacement	X
PROJECT TITLE Utility Improvements for NCDOT Resurfacing and Stormwater Projects - Sewer Mains			High		Expansion	X
BID DATE			Medium	New		
START CONSTRUCTION DATE			Low	Renovation	X	
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000154			

PROJECT DESCRIPTION & JUSTIFICATION

The NCDOT is planning various storm drainage and road improvements throughout PWC's service area in the upcoming years. These projects will impact areas containing PWC sanitary sewer utilities. PWC and NCDOT staff coordinate the planning and design of these projects and work to avoid conflicts where possible. Where conflicts are unavoidable, NCDOT incorporates the necessary utility adjustments into their contracts. See WS 29 - CPR1000104 for the water portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	7,000	7,000	7,000	7,000	7,000	35,000	70,000
Equipment	-	-	-	-	-	-	-
Personnel	3,000	3,000	3,000	3,000	3,000	15,000	30,000
Other	-	-	-	-	-	-	-
Total	10,000	10,000	10,000	10,000	10,000	50,000	100,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							40,000
<i>FY2020 Estimate</i>							2,000
Total							142,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	10,000	10,000	10,000	10,000	10,000	50,000	100,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	10,000	10,000	10,000	10,000	10,000	50,000	100,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

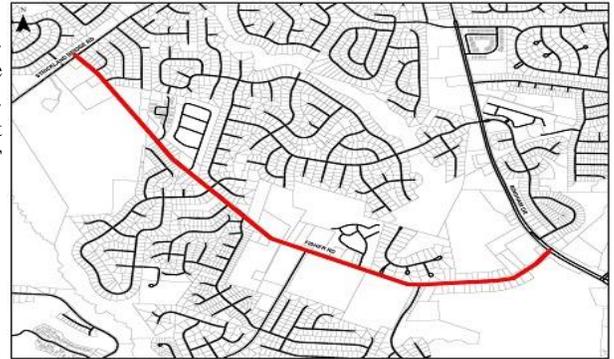
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Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-6073 Fisher Rd. from Strickland Bridge Rd. to NC162 Bingham Dr. (Sewer)			High	Expansion	
BID DATE 10/20/2026			Medium	New	
START CONSTRUCTION DATE 12/17/2026			Low	Renovation	
EXPECTED COMPLETION DATE 12/31/2028			BUDGET CODE CPR1000380		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Fisher Road from Strickland Bridge Road to NC 162. There are various water and sewer mains throughout the project corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT plans to go to ROW in FY25 and start construction beyond the current TIP schedule. See WS 32 - CPR1000372 for the water portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	43,000	30,000	73,000
Engineering	-	-	-	63,000	40,000	54,000	157,000
Construction	-	-	-	-	-	449,000	449,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	5,000	5,000	30,000	40,000
Other	-	-	-	-	-	-	-
Total	-	-	-	68,000	88,000	563,000	719,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							719,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	68,000	88,000	114,000	270,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	449,000	449,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	68,000	88,000	563,000	719,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

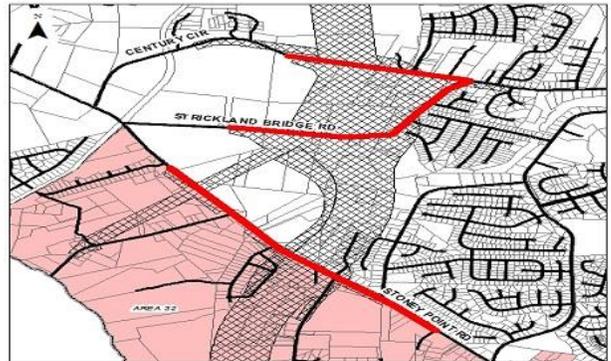
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-2519B A/BB Fayetteville Outer Loop from South of US 401 to South of Strickland Bridge Road (SR 1104) - Sewer			High	Expansion	
BID DATE 7/21/2020			Medium	New	X
START CONSTRUCTION DATE 9/1/2020			Low	Renovation	
EXPECTED COMPLETION DATE 9/30/2023			BUDGET CODE CPR1000350		

PROJECT DESCRIPTION & JUSTIFICATION

This project will extend gravity sanitary sewer to serve a portion of Phase V Annexation Construction Area 32 that is affected by the proposed Fayetteville Outer Loop corridor. A portion of the sanitary sewer main for the Big Rockfish Outfall Project will also be installed as part of this project. Construction is expected to begin in FY21 and be completed in FY24. An agreement with NCDOT is not in place at this time. However, billing is expected upon completion of all highway work and to be made in one final payment. Total construction cost is estimated at \$751,000. See WS 34 - CPR1000348 for the water portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	751,000	-	-	751,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	10,000	5,000	2,000	-	-	27,000
Other	-	-	-	-	-	-	-
Total	10,000	10,000	5,000	753,000	-	-	778,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							10,000
<i>FY2020 Estimate</i>							4,000
Total							792,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	10,000	10,000	5,000	2,000	-	-	27,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	19,000	-	-	19,000
NC State Loan Fund	-	-	-	315,000	-	-	315,000
Annex V Reserve	-	-	-	417,000	-	-	417,000
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	10,000	10,000	5,000	753,000	-	-	778,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4403 Ramsey Street Widening - Sewer			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	10/1/2022		BUDGET CODE	CPR1000312	
START CONSTRUCTION DATE	12/1/2022				
EXPECTED COMPLETION DATE	12/1/2026				

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Ramsey Street from the I-295 Fayetteville Outer Loop to US 401 Business (MLK). PWC has extensive water and sewer facilities in this corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT plans to start construction in year 2025. PWC is anticipating this project to impact the majority of the water and sewer lines along Ramsey Street. See WS 35 - CPR1000293 for the water portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	25,000	25,000	-	-	-	-	50,000
Engineering	250,000	100,000	75,000	75,000	75,000	500,000	1,075,000
Construction	-	-	-	-	2,050,000	-	2,050,000
Equipment	15,000	15,000	15,000	15,000	15,000	65,000	140,000
Personnel	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Other	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Total	340,000	190,000	140,000	140,000	2,190,000	815,000	3,815,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							312,000
<i>FY2020 Estimate</i>							220,000
Total							4,347,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	340,000	190,000	140,000	140,000	140,000	815,000	1,765,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	2,050,000	-	2,050,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	340,000	190,000	140,000	140,000	2,190,000	815,000	3,815,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

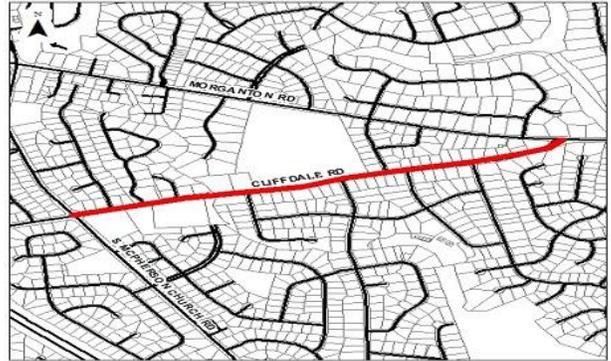
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4404 Cliffdale Road Widening - Sewer			High	Expansion	
BID DATE 5/18/2024			Medium	New	
START CONSTRUCTION DATE 7/18/2024			Low	Renovation	
EXPECTED COMPLETION DATE 6/30/2025			BUDGET CODE CPR1000313		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Cliffdale Road from McPherson Church Road to Morganton Road. There are various gravity sewer mains in this corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT plans to go to ROW in May 2022 and start construction in 2024. PWC has estimated 25% of the sewer lines will be relocated as part of this project. Construction of the utility improvements will be included in the NCDOT Construction contract. Reimbursement for this work to NCDOT will be made at the end of the project. See WS 36 - CPR1000294 for the water portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	10,000	10,000	-	-	-	20,000
Engineering	50,000	25,000	10,000	10,000	10,000	-	105,000
Construction	-	-	-	-	500,000	-	500,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	10,000	10,000	10,000	10,000	-	50,000
Other	10,000	10,000	10,000	10,000	10,000	-	50,000
Total	70,000	55,000	40,000	30,000	530,000	-	725,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							3,000
Total							728,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	70,000	55,000	40,000	30,000	30,000	-	225,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	500,000	-	500,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	70,000	55,000	40,000	30,000	530,000	-	725,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

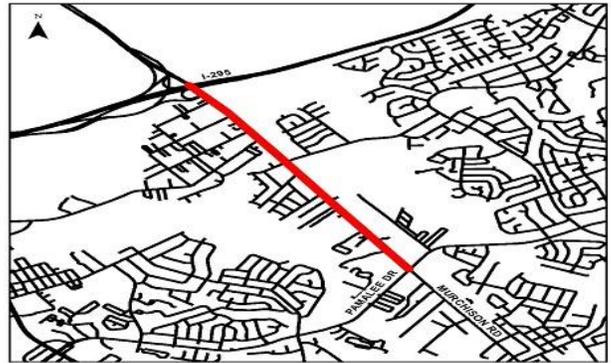
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4900 Murchison Road Widening - Sewer			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE	5/21/2024		BUDGET CODE	CPR1000314	
START CONSTRUCTION DATE	7/21/2024				
EXPECTED COMPLETION DATE	7/21/2027				

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Murchison Road from the I-295 Fayetteville Outer Loop to the US 401 Bypass. There are various smaller diameter gravity sewer mains in this corridor. These lines may be in conflict with NCDOT's proposed facilities and may need to be relocated. NCDOT plans to go to ROW in May 2022 and to start construction in 2024. PWC has estimated 50% of the sewer lines will be relocated as part of this project. Construction of the utility improvements will be included in the NCDOT Construction contract. Reimbursement for this work to NCDOT will be made at the end of the project. See WS 37 - CPR1000306 for the water portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	25,000	25,000	-	-	-	50,000
Engineering	150,000	40,000	40,000	25,000	25,000	25,000	305,000
Construction	-	-	-	-	-	1,000,000	1,000,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	10,000	10,000	10,000	10,000	10,000	60,000
Other	10,000	10,000	10,000	10,000	10,000	10,000	60,000
Total	170,000	85,000	85,000	45,000	45,000	1,045,000	1,475,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							85,000
Total							1,560,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	170,000	85,000	85,000	45,000	45,000	45,000	475,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	1,000,000	1,000,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	170,000	85,000	85,000	45,000	45,000	1,045,000	1,475,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

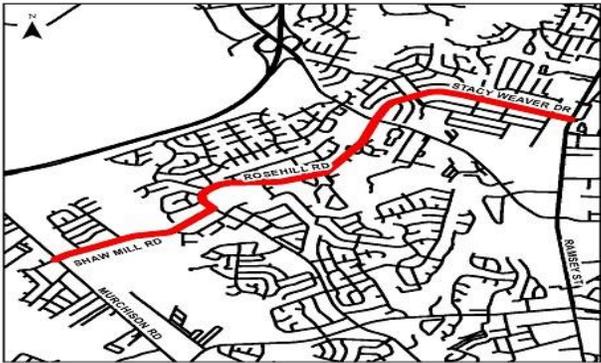
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-5101 Shaw Rd to Stacey Weaver Dr Widening - Sewer			High	X	Expansion	
			Medium		New	
			Low		Renovation	
BID DATE 11/19/2024			BUDGET CODE CPR1000315			
START CONSTRUCTION DATE 2/19/2025						
EXPECTED COMPLETION DATE 12/31/2027						

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Shaw Road, Shaw Mill Road, Rosehill Road and Stacey Weaver Drive from Murchison Road to Ramsey Street. There are also various small diameter water and sewer mains throughout the project corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT plans to go to ROW in FY23 and to start construction beyond the current TIP schedule. See WS 38 - CPR1000307 and the water portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	100,000	100,000	-	-	-	200,000
Engineering	-	180,000	40,000	20,000	20,000	20,000	280,000
Construction	-	-	-	-	-	1,300,000	1,300,000
Equipment	-	15,000	-	-	-	-	15,000
Personnel	-	15,000	15,000	15,000	15,000	-	60,000
Other	-	10,000	10,000	10,000	10,000	-	40,000
Total	-	320,000	165,000	45,000	45,000	1,320,000	1,895,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,895,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	320,000	165,000	45,000	45,000	20,000	595,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	1,300,000	1,300,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	320,000	165,000	45,000	45,000	1,320,000	1,895,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

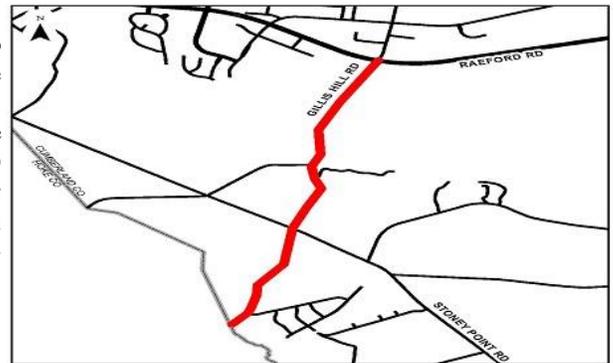
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE DOTR U-5798 A - Gillis Hill Rd Widening - Sewer			High	Expansion	
BID DATE 3/16/2021			Medium	New	
START CONSTRUCTION DATE 5/16/2021			Low	Renovation	
EXPECTED COMPLETION DATE 5/16/2023			BUDGET CODE CPR1000316		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Gillis Hill Road from US HWY 401 Raeford Road to Lindsey Road in Hoke County. There is a 16" water main serving the Hoke County Water Booster Pump Station and gravity sewer mains in this corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. NCDOT is proposing to replace the bridge and approximately 6,000 LF of road widening in the first phase of the project scheduled for ROW in May 2020 and to start construction in 2021. This project is for U-5798A which includes the section from Raeford Road to Stoney Point Road. See WS 39 - CPR1000308 for the water portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	10,000	-	-	-	-	-	10,000
Engineering	40,000	45,000	30,000	-	-	-	115,000
Construction	-	725,000	-	-	-	-	725,000
Equipment	10,000	10,000	-	-	-	-	20,000
Personnel	13,000	13,000	10,000	-	-	-	36,000
Other	10,000	10,000	10,000	-	-	-	30,000
Total	83,000	803,000	50,000	-	-	-	936,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							10,000
Total							946,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	63,000	48,000	25,000	-	-	-	136,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	725,000	-	-	-	-	725,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	20,000	30,000	25,000	-	-	-	75,000
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	83,000	803,000	50,000	-	-	-	936,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-5798 B - Gillis Hill Road Widening - Sewer			High	Expansion	
BID DATE 3/16/2021			Medium	New	
START CONSTRUCTION DATE 5/16/2021			Low	Renovation	
EXPECTED COMPLETION DATE 4/21/2025			BUDGET CODE CPR1000479		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Gillis Hill Road from US HWY 401 Raeford Road to Lindsey Road in Hoke County. There is a 16" water main serving the Hoke County Water Booster Pump Station and gravity sewer mains in this corridor. These lines may be in conflict with NCDOT's proposed facilities and may be relocated. The second phase (U-5798B) includes approximately 3,500 LF of road widening and is scheduled for ROW in February 2021 with construction starting in 2023. The portion of sewer to be constructed in the second U-5798B phase is needed to serve Annexation Phase V. This project is for U-5798B which includes the section from Stoney Point Road to Lindsay Road. See WS 40 - CPR1000478 for the water portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	10,000	10,000	-	-	-	-	20,000
Engineering	20,000	30,000	20,000	10,000	-	-	80,000
Construction	-	-	-	1,000,000	-	-	1,000,000
Equipment	10,000	10,000	-	-	-	-	20,000
Personnel	13,000	13,000	10,000	5,000	-	-	41,000
Other	10,000	10,000	10,000	5,000	-	-	35,000
Total	63,000	73,000	40,000	1,020,000	-	-	1,196,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,196,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	43,000	43,000	20,000	10,000	-	-	116,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	20,000	30,000	20,000	1,010,000	-	-	1,080,000
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	63,000	73,000	40,000	1,020,000	-	-	1,196,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

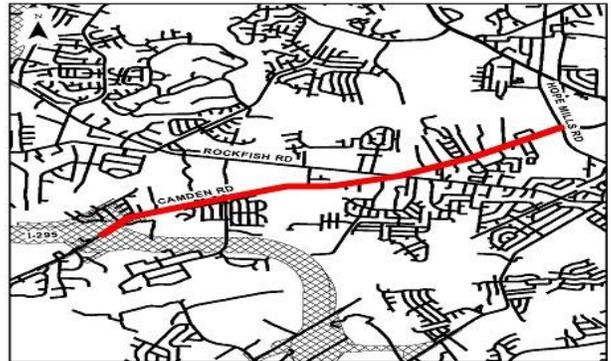
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Water Resources

DIVISION	ACTIVITY	CATEGORY	PRIORITY	TYPE PROJECT
WATER ADMINISTRATION 341500		Sanitary Sewer Collection	Score	Replacement X
PROJECT TITLE			High X	Expansion
NCDOT U-3422 Camden Rd Widening - Sewer			Medium	New
			Low	Renovation
BID DATE		3/15/2021	BUDGET CODE	
START CONSTRUCTION DATE		5/15/2021	CPR1000317	
EXPECTED COMPLETION DATE		6/30/2024		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Camden Road from NC 59 to the new I-295 Fayetteville Outer Loop. There are some intermittent small diameter sewer mains in this corridor. These lines will be in conflict with NCDOT's proposed facilities and will need to be relocated. NCDOT plans to go to ROW in March 2019 and start construction in 2021. PWC has estimated 100% of the sewer lines will be relocated as part of this project. Construction of the utility improvements will be included in the NCDOT Construction contract. Reimbursement for this work to NCDOT will be made at the end of the project. See WS 41 - CPR1000309 for the water portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	50,000	50,000	-	-	-	-	100,000
Engineering	50,000	15,000	15,000	10,000	-	-	90,000
Construction	-	-	-	900,000	-	-	900,000
Equipment	-	-	-	-	-	-	-
Personnel	15,000	10,000	10,000	10,000	-	-	45,000
Other	5,000	5,000	5,000	5,000	-	-	20,000
Total	120,000	80,000	30,000	925,000	-	-	1,155,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							14,000
<i>FY2020 Estimate</i>							24,000
Total							1,193,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	120,000	80,000	30,000	25,000	-	-	255,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	900,000	-	-	900,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	120,000	80,000	30,000	925,000	-	-	1,155,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

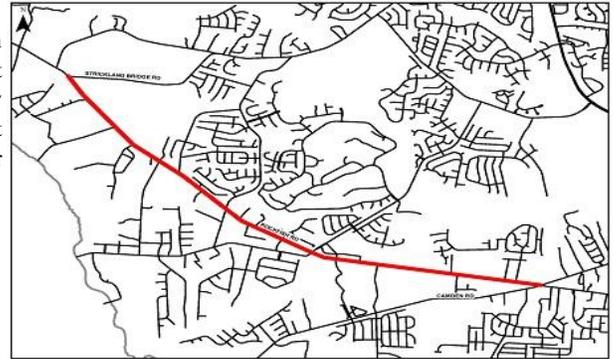
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-6072A SR1112 (Rockfish Rd) from Strickland Bridge Rd. to Camden Rd. (Sewer)			High	Expansion	
BID DATE			Medium	New	
START CONSTRUCTION DATE			Low	Renovation	
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000379		

PROJECT DESCRIPTION & JUSTIFICATION

NCDOT plans to widen Rockfish Road from Strickland Bridge Road to Camden Road. There is an existing 16-inch water main running the length of the project corridor. This line may be in conflict with NCDOT's proposed facilities and may need to be relocated. NCDOT plans to go to ROW in FY28, and to start construction beyond the current TIP. See WS 31 - CPR1000371 for the water portion of this NCDOT project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	10,000	10,000
Engineering	-	-	-	-	-	74,000	74,000
Construction	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	11,000	11,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	95,000	95,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							95,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	95,000	95,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	-	-	-	-	-	95,000	95,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION	ACTIVITY	CATEGORY	PRIORITY	TYPE PROJECT
WATER ADMINISTRATION	341500	Sanitary Sewer Collection	Score	Replacement X
PROJECT TITLE			High X	Expansion
NCDOT U-4405 Raeford Rd Median Improv, Hampton Oaks Drive to Fairway Drive			Medium	New
BID DATE		2/15/2021	Low	Renovation X
START CONSTRUCTION DATE		4/15/2021	BUDGET CODE	
EXPECTED COMPLETION DATE		2/28/2028	CPR1000268	

PROJECT DESCRIPTION & JUSTIFICATION

This project will relocate water mains as necessary to eliminate conflicts with the proposed NCDOT roadway construction. The new roadway work will be from Hampton Oaks Drive to Fairway Drive along Raeford Road. Construction of the utility improvements will be included in the NCDOT construction contracts. NCDOT has decided to separate the project in three (3) phases. Reimbursement for this work to NCDOT will be made at the end of the individual phases. Completion of Phase 3 is anticipated to occur in FY 2028. See WS 33 CPR1000267 for the water portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	50,000	50,000	-	-	-	-	100,000
Engineering	55,000	20,000	155,000	125,000	115,000	120,000	590,000
Construction	1,080,000	-	-	200,000	-	7,500,000	8,780,000
Equipment	-	-	-	-	-	-	-
Personnel	10,000	10,000	10,000	10,000	10,000	25,000	75,000
Other	25,000	15,000	15,000	15,000	15,000	30,000	115,000
Total	1,220,000	95,000	180,000	350,000	140,000	7,675,000	9,660,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							350,000
<i>FY2020 Estimate</i>							149,000
Total							10,159,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	1,220,000	95,000	180,000	150,000	140,000	175,000	1,960,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	200,000	-	7,500,000	7,700,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	1,220,000	95,000	180,000	350,000	140,000	7,675,000	9,660,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

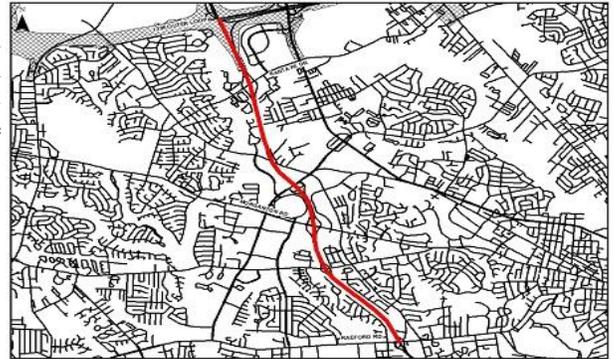
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4414 - All American Freeway Widening from Owen Dr (SR 1151) to North of Santé Fe Dr (SR 1437) - Sewer			High	Expansion	
BID DATE	2/18/2025		Medium	New	X
START CONSTRUCTION DATE	4/1/2025		Low	Renovation	
EXPECTED COMPLETION DATE	4/30/2028		BUDGET CODE CPR1000404		

PROJECT DESCRIPTION & JUSTIFICATION

This project will involve the adjustment of sanitary sewer mains that are in conflict with the proposed widening of the All American Freeway to add an additional lane in each direction. Right of way acquisition will begin in FY22 and construction is to begin in FY25. Construction to be complete in FY28. See WS 43 - CPR1000401 for the water portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	12,000	36,000	-	-	-	48,000
Engineering	10,000	42,000	34,000	11,000	14,000	34,000	145,000
Construction	-	-	-	-	-	1,501,000	1,501,000
Equipment	-	-	-	-	-	-	-
Personnel	8,000	5,000	3,000	3,000	3,000	35,000	57,000
Other	-	-	-	-	-	-	-
Total	18,000	59,000	73,000	14,000	17,000	1,570,000	1,751,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,751,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	18,000	59,000	73,000	14,000	17,000	69,000	250,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	1,501,000	1,501,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	18,000	59,000	73,000	14,000	17,000	1,570,000	1,751,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

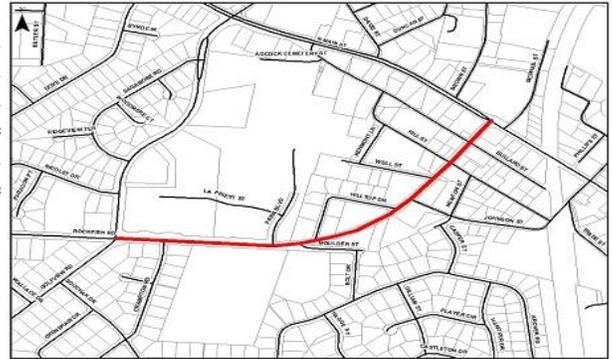
*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 341500	ACTIVITY 341500	CATEGORY Sanitary Sewer Collection	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4709 Rockfish Road, Golfview Drive to NC 59 - Sewer			High	Expansion	
BID DATE 5/17/2022			Medium	New	X
START CONSTRUCTION DATE 7/17/2022			Low	Renovation	
EXPECTED COMPLETION DATE 6/30/2025			BUDGET CODE CPR1000398		

PROJECT DESCRIPTION & JUSTIFICATION

This project will relocate approximately 2,000 linear feet of existing 8-inch sewer mains in conflict with NCDOT's roadway improvements for Rockfish Road, between Golfview Drive and NC 59. Construction is anticipated to begin in FY23 and be completed in FY25. An agreement with NCDOT is not in place at this time. However, billing is expected upon completion of all road work and is anticipated to be made in one final payment. See WS 44 - CPR1000399 for the water portion of this project.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	5,000	5,000	5,000	5,000	5,000	-	25,000
Construction	-	-	-	-	825,000	-	825,000
Equipment	-	-	-	-	-	-	-
Personnel	5,000	5,000	5,000	5,000	5,000	-	25,000
Other	-	-	10,000	10,000	5,000	-	25,000
Total	10,000	10,000	20,000	20,000	840,000	-	900,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							4,000
<i>FY2020 Estimate</i>							7,000
Total							911,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	10,000	10,000	20,000	20,000	15,000	-	75,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	825,000	-	825,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	10,000	10,000	20,000	20,000	840,000	-	900,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Water Resources

DIVISION WATER ADMINISTRATION 353500	ACTIVITY 353500	CATEGORY Rockfish Creek WRF	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE Replace Standby Power Generator at the Rockfish Creek WRF			High	X	Expansion	
			Medium		New	
			Low		Renovation	
BID DATE	7/15/2020		BUDGET CODE		CPR1000481	
START CONSTRUCTION DATE	10/13/2020					
EXPECTED COMPLETION DATE	6/10/2021					

PROJECT DESCRIPTION & JUSTIFICATION

The existing standby power generator at the Rockfish Creek WRF installed circa 2006 failed in FY20. This project will replace that equipment with a new standby power generator and switchgear complete with Tier 4 engines that will allow for future "peak shaving" operation. Engineering associated with preparation of "design / build" construction documents for soliciting bids will be completed in FY20 with bidding and construction in FY21.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	125,000	-	-	-	-	-	125,000
Construction	-	-	-	-	-	-	-
Equipment	2,400,000	-	-	-	-	-	2,400,000
Personnel	20,000	-	-	-	-	-	20,000
Other	-	-	-	-	-	-	-
Total	2,545,000	-	-	-	-	-	2,545,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,545,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	2,545,000	-	-	-	-	-	2,545,000
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
NCDOT Reserve-W/WW	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
Total	2,545,000	-	-	-	-	-	2,545,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

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Electric Systems

DIVISION ELEC CONSTRUCTION & N 366000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Underground Distribution Infrastructure Installations – New			High Medium Low	Expansion New Renovation
BID DATE				
START CONSTRUCTION DATE			BUDGET CODE CPR1000009	
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

This ongoing project is to modify and extend the distribution system primary facilities to accommodate planned urban development requiring underground utilities. This project will install conduit, sectionalizing, primary cable, secondary, services, street lights, and transformation equipment as required to meet the development’s plan for electric utility connectivity. This effort is being performed in conjunction with the City of Fayetteville’s Unified Development Ordinance.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	700,000	725,000	750,000	775,000	800,000	4,375,000	8,125,000
Equipment	700,000	725,000	750,000	775,000	800,000	4,375,000	8,125,000
Personnel	100,000	150,000	150,000	150,000	150,000	750,000	1,450,000
Other	-	-	-	-	-	-	-
Total	1,500,000	1,600,000	1,650,000	1,700,000	1,750,000	9,500,000	17,700,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,873,000
<i>FY2020 Estimate</i>							1,400,000
Total							20,973,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	1,500,000	1,600,000	1,650,000	1,700,000	1,750,000	9,500,000	17,700,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	1,500,000	1,600,000	1,650,000	1,700,000	1,750,000	9,500,000	17,700,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	12,500	15,000	17,500	20,000	22,500	125,000	212,500
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	12,500	15,000	17,500	20,000	22,500	125,000	212,500

*Priority Score: High Med Low

EL 1

Electric Systems

DIVISION ELEC CONSTRUCTION & N 365000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Overhead Infrastructure Installation - New			High X	Expansion
			Medium	New X
			Low	Renovation
BID DATE			BUDGET CODE CPR1000010	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to modify and extend overhead distribution system and service facilities to accommodate and serve new customers and to serve the increased needs of existing customers. New and existing customers in overhead service areas will require connections to the distribution system or improvements in their existing service connections to serve increased electrical loads.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	12,500	12,500	12,500	12,500	12,500	62,500	125,000
Personnel	12,500	12,500	12,500	12,500	12,500	62,500	125,000
Other	-	-	-	-	-	-	-
Total	25,000	25,000	25,000	25,000	25,000	125,000	250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							45,000
<i>FY2020 Estimate</i>							54,000
Total							349,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	25,000	25,000	25,000	25,000	25,000	125,000	250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	500	500	500	500	500	2,500	5,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	500	500	500	500	500	2,500	5,000

*Priority Score: High Med Low

EL 2

Electric Systems

DIVISION ELEC CONSTRUCTION & N 371000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE LED Area Lights - New Installations			High X	Expansion
			Medium	New X
			Low	Renovation
BID DATE			BUDGET CODE CPR1000011	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

This project contains funds for the installation of poles, conductors, LED fixtures, and other hardware needed to provide dusk-to-dawn lighting service. This service is offered under Commission-approved rates and regulations and is available for installation. The installation of this infrastructure is at the customer's request and provides for security lighting at residences, high-density dwellings, and at commercial facilities.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	100,000	100,000	100,000	100,000	100,000	500,000	1,000,000
Equipment	250,000	250,000	250,000	250,000	250,000	1,250,000	2,500,000
Personnel	100,000	100,000	100,000	100,000	100,000	500,000	1,000,000
Other	-	-	-	-	-	-	-
Total	450,000	450,000	450,000	450,000	450,000	2,250,000	4,500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							369,000
<i>FY2020 Estimate</i>							421,000
Total							5,290,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	450,000	450,000	450,000	450,000	450,000	2,250,000	4,500,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	450,000	450,000	450,000	450,000	450,000	2,250,000	4,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(7,500)	(7,500)	(7,500)	(7,500)	(7,500)	(37,500)	(75,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(7,500)	(7,500)	(7,500)	(7,500)	(7,500)	(37,500)	(75,000)

*Priority Score: High Med Low

EL 3

Electric Systems

DIVISION ELEC CONSTRUCTION & N 371000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE LED Area Lights - Replacements/Conversion			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000247		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project provides funding for the replacement/conversion of existing HID and MV area light fixtures with LED fixtures as required to implement and maintain a system-wide LED Area Light replacement/conversion program.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	25,000	-	-	-	-	-	25,000
Equipment	50,000	-	-	-	-	-	50,000
Personnel	25,000	-	-	-	-	-	25,000
Other	-	-	-	-	-	-	-
Total	100,000	-	-	-	-	-	100,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							2,735,000
<i>FY2020 Estimate</i>							2,200,000
Total							5,035,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	100,000	-	-	-	-	-	100,000
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	100,000	-	-	-	-	-	100,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(500,000)	(1,000,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(500,000)	(1,000,000)

*Priority Score: High Med Low

EL 4

Electric Systems

DIVISION ELEC CONSTRUCTION & N 368000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Padmount Transformers			High X	Expansion X
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000013	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

This project includes the purchase of single phase 7.2 kV x 14.4 kV pad mounted distribution transformers from 25 kVA through 167 kVA and three phase 12 x 25 and 25 kV pad mounted and vault transformers from 150 to 2500 kVA. Underground distribution transformers will continue to be purchased to serve new loads, replace failed transformers, provide increased capacity where needed, and facilitate conversion of primary voltage to customer's utilization voltage. It is anticipated that the Department of Energy will be enforcing higher efficiency standards that will have a direct impact on the first cost of these units.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	6,750,000	12,250,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	6,750,000	12,250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							929,000
<i>FY2020 Estimate</i>							905,000
Total							14,084,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	6,750,000	12,250,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	6,750,000	12,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(25,000)	(25,000)	(25,000)	(25,000)	(25,000)	(125,000)	(250,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(25,000)	(25,000)	(25,000)	(25,000)	(25,000)	(125,000)	(250,000)

*Priority Score: High Med Low

EL 5

Electric Systems

DIVISION ELEC CONSTRUCTION & N 368000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Overhead Transformers			High Medium Low	Expansion New Renovation
BID DATE				
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000014	

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to purchase single phase 7.2 kV, 13.2 kV, and 14.4 kV pole and platform mounted distribution transformers from 10 kVA through 333 kVA. Overhead distribution transformers will continue to be purchased to serve new loads, replace failed transformers, provide increased capacity where needed, and facilitate conversion of primary voltage to customer's utilization voltage. It is anticipated that the Department of Energy will be enforcing higher efficiency standards that will have a direct impact on the first cost of these units.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	400,000	400,000	400,000	400,000	400,000	2,000,000	4,000,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	400,000	400,000	400,000	400,000	400,000	2,000,000	4,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							270,000
<i>FY2020 Estimate</i>							405,000
Total							4,675,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	400,000	400,000	400,000	400,000	400,000	2,000,000	4,000,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	400,000	400,000	400,000	400,000	400,000	2,000,000	4,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(50,000)	(100,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(50,000)	(100,000)

*Priority Score: High Med Low

EL 6

Electric Systems

DIVISION ELEC CONSTRUCTION & N 366000	ACTIVITY 366000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Underground Infrastructure Replacement - Residential			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000015		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This ongoing project replaces existing direct-buried solid dielectric primary cable system in residential subdivisions with high incidences of primary cable failures. This project will install new primary cable, conduit as needed, add sectionalizing as needed, replace subsurface transformers as needed and complete related work as required. The cable system will be installed using open trench where practical and using directional boring where needed.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	1,150,000	1,275,000	1,400,000	1,525,000	1,650,000	10,125,000	17,125,000
Equipment	1,150,000	1,275,000	1,400,000	1,525,000	1,650,000	10,125,000	17,125,000
Personnel	200,000	200,000	200,000	200,000	200,000	1,000,000	2,000,000
Other	-	-	-	-	-	-	-
Total	2,500,000	2,750,000	3,000,000	3,250,000	3,500,000	21,250,000	36,250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							884,000
<i>FY2020 Estimate</i>							2,200,000
Total							39,334,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	2,500,000	2,750,000	3,000,000	3,250,000	3,500,000	21,250,000	36,250,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	2,500,000	2,750,000	3,000,000	3,250,000	3,500,000	21,250,000	36,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(125,000)	(150,000)	(175,000)	(200,000)	(225,000)	(1,350,000)	(2,225,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(125,000)	(150,000)	(175,000)	(200,000)	(225,000)	(1,350,000)	(2,225,000)

*Priority Score: High Med Low

EL 7

Electric Systems

DIVISION ELEC CONSTRUCTION & N 366000	ACTIVITY 366000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Underground Infrastructure Replacement - Non Residential			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000239		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project replaces existing direct-buried solid dielectric primary cable and associated underground utility infrastructure in commercial areas and along roadways which have been problematic from a system reliability standpoint. This project will install new primary cable, conduit and/or duct-bank as needed, add sectionalizing as needed, replace subsurface transformers as needed and complete related work as required. The cable system will be installed using open trench where practical and using directional boring where needed.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	225,000	225,000	225,000	250,000	250,000	1,300,000	2,475,000
Equipment	225,000	225,000	225,000	250,000	250,000	1,300,000	2,475,000
Personnel	50,000	50,000	50,000	50,000	50,000	250,000	500,000
Other	-	-	-	-	-	-	-
Total	500,000	500,000	500,000	550,000	550,000	2,850,000	5,450,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							2,512,000
<i>FY2020 Estimate</i>							720,000
Total							8,682,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	500,000	500,000	500,000	550,000	550,000	2,850,000	5,450,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	500,000	500,000	500,000	550,000	550,000	2,850,000	5,450,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(25,000)	(30,000)	(35,000)	(40,000)	(45,000)	(300,000)	(475,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(25,000)	(30,000)	(35,000)	(40,000)	(45,000)	(300,000)	(475,000)

*Priority Score: High Med Low

EL 8

Electric Systems

DIVISION ELEC CONSTRUCTION & N 367000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Underground Distribution Infrastructure Replacements (Non-Cable)			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000037		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project contains funds to maintain the existing commercial and residential underground distribution facilities. PWC owns and operates 519 cable miles of underground distribution primary circuits. It provides for preventive maintenance and routine location and inspection of conductors, terminations, sectionalizing devices, and conduit/vault installations. This activity is crucial in minimizing service interruptions to underground customers and facilities. Inspection of PWC's underground distribution facilities began in FY08. As risks are identified, PWC will need to address these violations on a systematic basis based on the risk assessment matrix.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	100,000	100,000	100,000	100,000	100,000	500,000	1,000,000
Equipment	450,000	500,000	500,000	500,000	500,000	2,500,000	4,950,000
Personnel	300,000	400,000	400,000	400,000	400,000	2,000,000	3,900,000
Other	-	-	-	-	-	-	-
Total	850,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	9,850,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							896,000
<i>FY2020 Estimate</i>							750,000
Total							11,496,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	850,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	9,850,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	850,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	9,850,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(150,000)	(150,000)	(150,000)	(150,000)	(150,000)	(750,000)	(1,500,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(150,000)	(150,000)	(150,000)	(150,000)	(150,000)	(750,000)	(1,500,000)

*Priority Score: High Med Low

EL 9

Electric Systems

DIVISION ELEC CONSTRUCTION & N 366000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE UG Feeder Exit Replacement Substations			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000240		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project replaces existing direct-buried solid dielectric primary feeder cable from the substation bus to the first riser pole (UG-OH transition point) outside the substation fence. The cross-linked polyethylene (XLP) cable at the various substations is over 25 years old and has been subject to multiple feeder faults. These cables are at the end of their useful service life and have been spliced repeatedly due to cable failures and dig-ins. In FY18 and FY19, PWC tested 50% of the substations for electrical cable integrity and to rank cables for replacement. During 2020, PWC will test 30% of the remaining substation feeder cables to determine condition. This project will install conduit in open cut trenches as needed and complete related work as required. Construction will be performed by an electric utility contractor.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	237,500	-	-	-	-	-	237,500
Equipment	237,500	237,500	237,500	237,500	237,500	1,187,500	2,375,000
Personnel	25,000	237,500	237,500	237,500	237,500	1,187,500	2,162,500
Other	-	25,000	25,000	25,000	25,000	125,000	225,000
Total	500,000	500,000	500,000	500,000	500,000	2,500,000	5,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							186,000
<i>FY2020 Estimate</i>							375,000
Total							5,561,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	500,000	500,000	500,000	500,000	500,000	2,500,000	5,000,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	500,000	500,000	500,000	500,000	500,000	2,500,000	5,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(25,000)	(25,000)	(25,000)	(25,000)	(25,000)	(125,000)	(250,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(25,000)	(25,000)	(25,000)	(25,000)	(25,000)	(125,000)	(250,000)

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Overhead Distribution System Circuit Improvements			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000027	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

This project will upgrade existing circuits by increasing thermal capabilities, replace existing conductors or construct new circuits as needed for distribution system improvement as indicated by the annual Area Planning Study. This study identified system components that have reached the limits of their thermal or operational capacity or will reach these limits during the study period. Improvements in the distribution system are then identified and included in the study's system model.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	40,000	40,000	40,000	40,000	40,000	200,000	400,000
Equipment	35,000	35,000	35,000	35,000	35,000	175,000	350,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	75,000	75,000	75,000	75,000	75,000	375,000	750,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							92,000
<i>FY2020 Estimate</i>							45,000
Total							887,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	75,000	75,000	75,000	75,000	75,000	375,000	750,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	75,000	75,000	75,000	75,000	75,000	375,000	750,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(50,000)	(100,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(50,000)	(100,000)

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Distribution System Sectionalizing			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000030		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project will install three-phase and single-phase Smart Grid compatible electronic reclosers as necessary to reduce outages due to momentary interruptions on branch circuits caused by animals and intermittent tree contact. These devices will reduce the impact from thru- faults to our power transformers by utilizing a pulse closing technique and will enable PWC to extend the life of its aging power transformer infrastructure.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	250,000	200,000	100,000	100,000	100,000	500,000	1,250,000
Equipment	400,000	250,000	125,000	125,000	125,000	625,000	1,650,000
Personnel	50,000	50,000	25,000	25,000	25,000	125,000	300,000
Other	-	-	-	-	-	-	-
Total	700,000	500,000	250,000	250,000	250,000	1,250,000	3,200,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							4,000
<i>FY2020 Estimate</i>							245,000
Total							3,449,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	700,000	500,000	250,000	250,000	250,000	1,250,000	3,200,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	700,000	500,000	250,000	250,000	250,000	1,250,000	3,200,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(10,000)	(20,000)	(30,000)	(40,000)	(50,000)	(400,000)	(550,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(10,000)	(20,000)	(30,000)	(40,000)	(50,000)	(400,000)	(550,000)

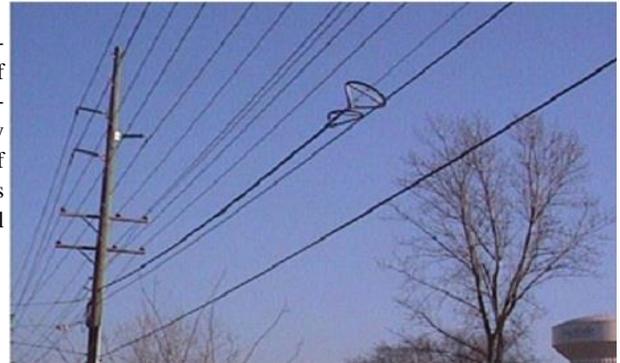
*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 355000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Overhead Infrastructure Improvements			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000036		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project contains funds to maintain the existing overhead transmission, sub-transmission, and distribution facilities. PWC owns and operates 2918 miles of overhead distribution primary circuits and 120 miles of overhead sub-transmission circuits. It provides for the preventive maintenance on twenty percent of these circuits each fiscal year. Routine testing, and inspection of conductors, supporting devices, poles, sectionalizing devices, and right-of-way is included during this process. This activity is crucial in maintaining a high level of service continuity and safety to our customers and facilities.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	500,000	625,000	625,000	750,000	750,000	2,625,000	5,875,000
Equipment	450,000	575,000	575,000	700,000	700,000	2,375,000	5,375,000
Personnel	50,000	50,000	50,000	50,000	50,000	250,000	500,000
Other	-	-	-	-	-	-	-
Total	1,000,000	1,250,000	1,250,000	1,500,000	1,500,000	5,250,000	11,750,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							277,000
<i>FY2020 Estimate</i>							1,081,000
Total							13,108,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	1,000,000	1,250,000	1,250,000	1,500,000	1,500,000	5,250,000	11,750,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	1,000,000	1,250,000	1,250,000	1,500,000	1,500,000	5,250,000	11,750,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(500,000)	(1,000,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(500,000)	(1,000,000)

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 373000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Thoroughfare LED Lighting - New Installations			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000334	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

This project provides funds for the installation of LED roadway lighting along thoroughfares and major connector streets inside the City limits of Fayetteville that are presently unlit or underlit. Locations for FY21 and FY22 include MLK Expressway from Ramsey Street to Eastern Boulevard and All American Freeway from Owen Drive to Yadkin Road.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Equipment	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	50,000	50,000	50,000	50,000	50,000	250,000	500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							10,000
<i>FY2020 Estimate</i>							-
Total							510,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	50,000	50,000	50,000	50,000	50,000	250,000	500,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	50,000	50,000	50,000	50,000	50,000	250,000	500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	5,000	5,000	5,000	5,000	5,000	25,000	50,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	5,000	5,000	5,000	5,000	5,000	25,000	50,000

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 373000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE Thoroughfare LED Roadway Lighting-Conversion			High	X	Expansion
			Medium		New
			Low		Renovation
BID DATE			BUDGET CODE CPR1000038		
START CONSTRUCTION DATE		10/1/2015			
EXPECTED COMPLETION DATE		10/30/2021			

PROJECT DESCRIPTION & JUSTIFICATION

This project provides funds that will allow the conversion to LED Roadway Lighting along thoroughfares and major connector streets inside the City limits of Fayetteville.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	100,000	-	-	-	-	-	100,000
Personnel	100,000	-	-	-	-	-	100,000
Other	-	-	-	-	-	-	-
Total	200,000	-	-	-	-	-	200,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							464,000
<i>FY2020 Estimate</i>							675,000
Total							1,339,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	200,000	-	-	-	-	-	200,000
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	200,000	-	-	-	-	-	200,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 368000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Conservation Load Reduction (CVR)			High X	Expansion
			Medium	New X
			Low	Renovation
BID DATE			BUDGET CODE CPR1000270	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to purchase hosted enterprise software and devices to remotely monitor distribution feeder service voltage and to lower system voltage to ANSI limits during monthly coincident peaks with Duke Energy. Studies have shown that for every volt drop on substation bus, the substation demand is reduced by approximately 0.85%. This system should help PWC to reduce its power supply cost and system losses considerably once deployed system-wide.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	400,000	400,000	400,000	400,000	40,000	200,000	1,840,000
Personnel	100,000	100,000	100,000	100,000	10,000	50,000	460,000
Other	-	-	-	-	-	-	-
Total	500,000	500,000	500,000	500,000	50,000	250,000	2,300,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,124,000
<i>FY2020 Estimate</i>							360,000
Total							3,784,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	500,000	500,000	500,000	500,000	50,000	250,000	2,300,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	500,000	500,000	500,000	500,000	50,000	250,000	2,300,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	(5,000,000)	(10,000,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	(5,000,000)	(10,000,000)

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 365000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE System Reactive Power Compensation			High X	Expansion
			Medium	New X
			Low	Renovation
BID DATE			BUDGET CODE CPR1000034	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to install static and remote control shunt capacitor banks on distribution primary circuits as needed for reactive power compensation and conservation voltage reduction (CVR) throughout the distribution system. Anticipated increase in power supply costs from our energy supplier have highlighted the need to reduce our reactive power requirement to an optimum level and to implement CVR where possible to lower our wholesale energy and demand costs. PWC has elected to utilize distributed shunt capacitor banks to meet its reactive power compensation needs and to reduce voltage drops along distribution feeders. We will install static banks where required and switched banks when necessary to reduce system losses, maintain adequate voltage levels, and to optimize distribution feeder operation.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	300,000	-	-	-	-	-	300,000
Equipment	200,000	100,000	50,000	25,000	12,500	62,500	450,000
Personnel	100,000	100,000	50,000	25,000	12,500	62,500	350,000
Other	-	-	-	-	-	-	-
Total	600,000	200,000	100,000	50,000	25,000	125,000	1,100,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,148,000
<i>FY2020 Estimate</i>							1,500,000
Total							3,748,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	600,000	200,000	100,000	50,000	25,000	125,000	1,100,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	600,000	200,000	100,000	50,000	25,000	125,000	1,100,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	25,000	25,000	25,000	25,000	25,000	125,000	250,000

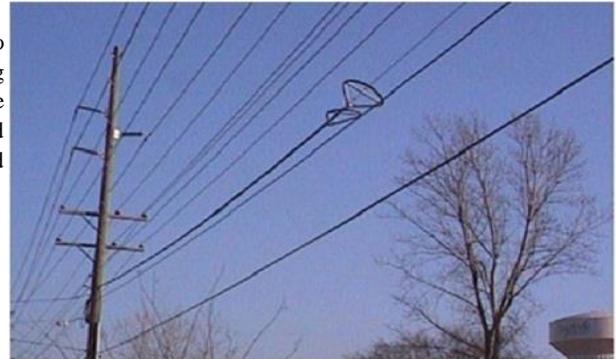
*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 397000	CATEGORY Telecom - Cable Infrastructure	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Fiber Optic Cable Line Extensions for Electric System Automation PWC Smart Grid Initiatives			High	Expansion
BID DATE			Medium	New
START CONSTRUCTION DATE			Low	Renovation
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000012	

PROJECT DESCRIPTION & JUSTIFICATION

This project will continue the build-out of PWC's Fiber Optic Network to provide for broadband digital communications to automated sectionalizing devices and remotely controlled capacitor banks. It will also provide for the remote monitoring of intelligent electronic devices (IEDs) strategically placed along PWC's T/D system. This project incorporates both the OSP fiber and network electronics configured in a self-healing ring architecture.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	300,000	250,000	250,000	250,000	250,000	1,250,000	2,550,000
Personnel	300,000	250,000	250,000	250,000	250,000	1,250,000	2,550,000
Other	-	-	-	-	-	-	-
Total	600,000	500,000	500,000	500,000	500,000	2,500,000	5,100,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							206,000
<i>FY2020 Estimate</i>							250,000
Total							5,556,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	600,000	500,000	500,000	500,000	500,000	2,500,000	5,100,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	600,000	500,000	500,000	500,000	500,000	2,500,000	5,100,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	25,000	25,000	35,000	35,000	40,000	200,000	360,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	25,000	25,000	35,000	35,000	40,000	200,000	360,000

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 397000	CATEGORY Communication_Equipment	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE SONET Communications for Smart Grid			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000217	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to provide funding for installation of the necessary communications equipment, time-division multiplexors (TDM) and fast ethernet switches, along with the reconfiguration of PWC's existing OSP fiber optic system to create a self-healing communications network that is capable of adequately supporting PWC's current and future Smart Grid communication initiatives. This project will storm-harden PWC's fiber optic (FO) communication system and provide the necessary resiliency to meet the Electric Division's existing and future needs.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	225,000	225,000	225,000	225,000	40,000	120,000	1,060,000
Personnel	25,000	25,000	25,000	25,000	10,000	30,000	140,000
Other	-	-	-	-	-	-	-
Total	250,000	250,000	250,000	250,000	50,000	150,000	1,200,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							544,000
<i>FY2020 Estimate</i>							175,000
Total							1,919,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	250,000	250,000	250,000	250,000	50,000	150,000	1,200,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	250,000	250,000	250,000	250,000	50,000	150,000	1,200,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	1,000	1,000	1,000	1,000	1,000	5,000	10,000
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	1,000	1,000	1,000	1,000	1,000	5,000	10,000

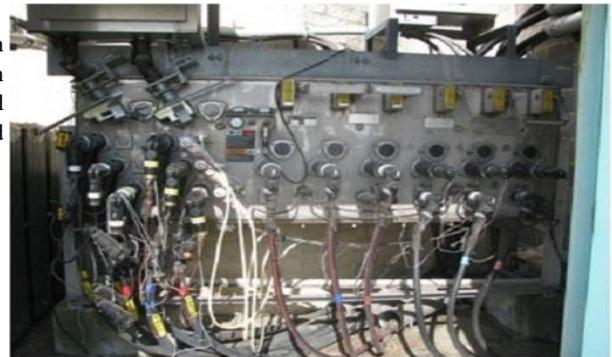
*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 365000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Distribution Automation			High	Expansion
			Medium	New
			Low	Renovation
BID DATE				
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				
			BUDGET CODE CPR1000044	

PROJECT DESCRIPTION & JUSTIFICATION

This project provides funding for the installation of automated distribution devices at strategic locations on our distribution system to create innovation neighborhoods. The creation of these innovation neighborhoods will significantly improve our service level to the customers within these areas and will improve our overall system reliability indices.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	500,000	750,000	1,000,000	1,250,000	1,500,000	10,250,000	15,250,000
Personnel	250,000	250,000	250,000	250,000	250,000	1,250,000	2,500,000
Other	-	-	-	-	-	-	-
Total	750,000	1,000,000	1,250,000	1,500,000	1,750,000	11,500,000	17,750,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							263,000
<i>FY2020 Estimate</i>							355,000
Total							18,368,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	750,000	1,000,000	1,250,000	1,500,000	1,750,000	11,500,000	17,750,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	750,000	1,000,000	1,250,000	1,500,000	1,750,000	11,500,000	17,750,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(150,000)	(175,000)	(200,000)	(250,000)	(275,000)	(1,600,000)	(2,650,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(150,000)	(175,000)	(200,000)	(250,000)	(275,000)	(1,600,000)	(2,650,000)

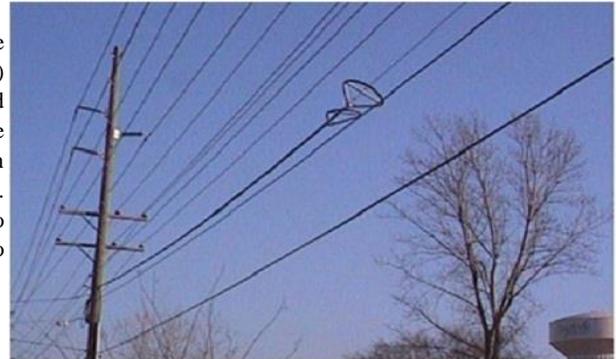
*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 355000	ACTIVITY	CATEGORY Transmission Plant	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Sub-Transmission Pole Replacement			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000045		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This project will enable PWC to replace its aging sub-transmission wood pole assets with tapered tubular steel products on a systematic basis over a thirty (30) year period. The goal is to virtually eliminate the maintenance costs associated with maintaining these existing assets. Records indicate that 715 (34%) of the 2093 sub-transmission pole assets are over 30 years old. In addition a condition assessment has been performed on PWC's entire transmission plant population. A risk assessment matrix has been developed to determine which poles need to be replaced first. The transmission pole replacement plan identified the need to replace 100 poles per year. The pole replacement program began in FY 2012.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	750,000	750,000	750,000	750,000	750,000	3,750,000	7,500,000
Equipment	700,000	700,000	700,000	700,000	700,000	3,500,000	7,000,000
Personnel	50,000	50,000	50,000	50,000	50,000	250,000	500,000
Other	-	-	-	-	-	-	-
Total	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000	15,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,157,000
<i>FY2020 Estimate</i>							1,450,000
Total							17,607,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000	15,000,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000	15,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(75,000)	(75,000)	(75,000)	(75,000)	(75,000)	375,000	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(75,000)	(75,000)	(75,000)	(75,000)	(75,000)	375,000	-

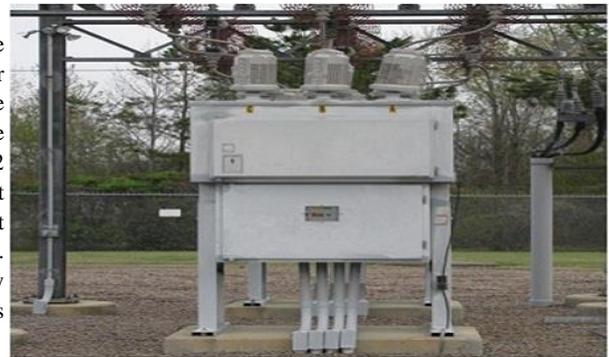
*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 362000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Distribution Circuit Breaker Replacement			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000050		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to provide for the timely replacement of twelve power circuit breakers each year for the next ten years. PWC's aging breaker population continues to pose reliability problems for system operations. The age range of distribution circuit breakers varies from 36 years old to 2 years old. The majority of vacuum circuit breakers purchased by PWC are on the order of 22 years old. A significant population of units is of a vintage where replacement parts are extremely hard to acquire and are extremely expensive. This project will begin the annual replacement of the oldest, most problematic units first. Additionally, this project will enable PWC to begin to utilize the IED technology currently available for use in substation environments. The purpose of this technology deployment will be to improve system reliability.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	325,000	325,000	325,000	325,000	325,000	1,875,000	3,500,000
Personnel	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Other	-	-	-	-	-	-	-
Total	350,000	350,000	350,000	350,000	350,000	2,000,000	3,750,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							252,000
<i>FY2020 Estimate</i>							345,000
Total							4,347,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	350,000	350,000	350,000	350,000	350,000	2,000,000	3,750,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	350,000	350,000	350,000	350,000	350,000	2,000,000	3,750,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(50,000)	(100,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(50,000)	(100,000)

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 356000	ACTIVITY	CATEGORY Transmission Plant	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE 66 kV System Sectionalizing Improvements			High	Expansion	
BID DATE			Medium	New	
START CONSTRUCTION DATE			Low	Renovation	
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000046		

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to replace vintage 69 kV switches and upgrade to Ethernet fiber optic communication systems for automation. PWC currently has 88 switches that were installed on our system prior to 1995. These switches are problematic from an operational perspective and are not capable of being operated remotely. System outages at this voltage generally affect a significant amount of our electrical utility customers which has a negative impact on our reliability levels. This project will fund the replacement of approximately nine (9) switches per year over a ten (10) year period and will be performed in tandem with the multi-year sub-transmission pole replacement program.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	100,000	100,000	100,000	100,000	100,000	500,000	1,000,000
Equipment	200,000	200,000	200,000	200,000	200,000	1,000,000	2,000,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	300,000	300,000	300,000	300,000	300,000	1,500,000	3,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							10,000
<i>FY2020 Estimate</i>							275,000
Total							3,285,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	300,000	300,000	300,000	300,000	300,000	1,500,000	3,000,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	300,000	300,000	300,000	300,000	300,000	1,500,000	3,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(25,000)	(25,000)	(25,000)	(25,000)	(25,000)	(125,000)	(250,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(25,000)	(25,000)	(25,000)	(25,000)	(25,000)	(125,000)	(250,000)

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 362000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Distribution Substation Equipment Replacement			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000052		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This capital project contains funds to replace failed equipment in any of PWC's thirty (30) T-D substations. Projects identified include: battery and/or dc system replacement, intelligent electronic device addition, substation metering system improvements, monitoring system additions, etc.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	80,000	80,000	80,000	80,000	105,000	525,000	950,000
Personnel	20,000	20,000	20,000	20,000	20,000	100,000	200,000
Other	-	-	-	-	-	-	-
Total	100,000	100,000	100,000	100,000	125,000	625,000	1,150,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							9,000
<i>FY2020 Estimate</i>							85,000
Total							1,244,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	100,000	100,000	100,000	100,000	125,000	625,000	1,150,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	100,000	100,000	100,000	100,000	125,000	625,000	1,150,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 345000	CATEGORY Transmission Plant	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE T/D Sub Differential and Back-Up Overcurrent Relay Replacement			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000051		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

This capital project contains funds for the replacement of electromechanical differential and back-up over current relays with microprocessor based equivalents.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	140,000	140,000	140,000	140,000	140,000	700,000	1,400,000
Personnel	10,000	10,000	10,000	10,000	10,000	50,000	100,000
Other	-	-	-	-	-	-	-
Total	150,000	150,000	150,000	150,000	150,000	750,000	1,500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							93,000
<i>FY2020 Estimate</i>							125,000
Total							1,718,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	150,000	150,000	150,000	150,000	150,000	750,000	1,500,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	150,000	150,000	150,000	150,000	150,000	750,000	1,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 362000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE T/D Sub 66 kV Power Transformer Protection Equipment Upgrade			High	Expansion	
BID DATE			Medium	New	
START CONSTRUCTION DATE			Low	Renovation	
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000218		

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to provide funding for the upgrade of the 66 KV power transformer protection equipment at a number of PWC's vintage substations. This protection equipment, in many cases, is at the end-of- life and needs to be replaced with modern equipment which will provide for additional power transformer protection functionality.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Construction	175,000	175,000	175,000	175,000	200,000	1,000,000	1,900,000
Equipment	175,000	175,000	175,000	175,000	200,000	1,000,000	1,900,000
Personnel	25,000	25,000	25,000	25,000	25,000	125,000	250,000
Other	-	-	-	-	-	-	-
Total	400,000	400,000	400,000	400,000	450,000	2,250,000	4,300,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							683,000
<i>FY2020 Estimate</i>							375,000
Total							5,358,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	400,000	400,000	400,000	400,000	450,000	2,250,000	4,300,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	400,000	400,000	400,000	400,000	450,000	2,250,000	4,300,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 362000	CATEGORY Structures and Improvements	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE T/D Substation Control Building Replacement			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000364		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to systematically replace control buildings at T/D substations that have exceeded or are approaching their life expectancy due to structure or other environmental issues. This project will replace both the control building and the protective relaying equipment for the substation. PWC has begun the process of building and operating "smart stations". This process will enable PWC to replace these structures and incorporate "smart station" micro-processor based protective relaying all into one package.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	20,000	20,000	20,000	20,000	20,000	100,000	200,000
Equipment	380,000	380,000	380,000	380,000	380,000	1,900,000	3,800,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	400,000	400,000	400,000	400,000	400,000	2,000,000	4,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							375,000
Total							4,375,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	400,000	400,000	400,000	400,000	400,000	2,000,000	4,000,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	400,000	400,000	400,000	400,000	400,000	2,000,000	4,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 361000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Transmission - Distribution Substation Oil Containment Systems			High	Expansion
			Medium	New
			Low	Renovation
			X	X
BID DATE			BUDGET CODE CPR1000060	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to install a secondary oil containment system for both three phase power transformers and regulators located at two transmission-distribution substations and one point of delivery transmission station. The oil containment system will consist of a containment basin, oil filtration and remote alarm system. This project is recommended to comply with EPA statute 40 CFR 112-4.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	100,000	-	-	-	-	100,000
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	100,000	-	-	-	-	100,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							429,000
<i>FY2020 Estimate</i>							-
Total							529,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	100,000	-	-	-	-	100,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	100,000	-	-	-	-	100,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 362000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Bordeaux 67-12 kV Substation Rebuild			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000062		
START CONSTRUCTION DATE			10/1/2019		
EXPECTED COMPLETION DATE			9/30/2020		

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to replace the 67 kV primary bus and secondary bus wooden poles at Bordeaux Substation with tubular bus supported atop steel columns, such that it can accommodate a three-phase LTC power transformer. Level the site and replace all UG distribution circuit feeder exits utilizing concrete encased duct bank. Replace existing vacuum circuit breakers with new units. Replace existing transformer over current and differential protection as necessary to make use of IED technology.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	20,000	-	-	-	-	-	20,000
Construction	50,000	-	-	-	-	-	50,000
Equipment	20,000	-	-	-	-	-	20,000
Personnel	10,000	-	-	-	-	-	10,000
Other	-	-	-	-	-	-	-
Total	100,000	-	-	-	-	-	100,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							132,000
<i>FY2020 Estimate</i>							2,000,000
Total							2,232,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	100,000	-	-	-	-	-	100,000
FMF	-	-	-	-	-	-	-
Total	100,000	-	-	-	-	-	100,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 362000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Black & Decker Substation Rebuild			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000321		
START CONSTRUCTION DATE			7/1/2020		
EXPECTED COMPLETION DATE			6/30/2021		

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to replace the 67 kV primary bus and secondary bus wooden poles at Black and Decker Substation with tubular bus supported atop steel columns, such that it can accommodate a three-phase LTC power transformer. Level the site and replace all UG distribution circuit feeder exits utilizing concrete encased duct bank. Replace existing vacuum circuit breakers with new units. Replace existing transformer over current and differential protection as necessary to make use of IED technology.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	100,000	25,000	-	-	-	-	125,000
Construction	1,300,000	50,000	-	-	-	-	1,350,000
Equipment	550,000	25,000	-	-	-	-	575,000
Personnel	50,000	-	-	-	-	-	50,000
Other	-	-	-	-	-	-	-
Total	2,000,000	100,000	-	-	-	-	2,100,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,100,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	2,000,000	100,000	-	-	-	-	2,100,000
FMF	-	-	-	-	-	-	-
Total	2,000,000	100,000	-	-	-	-	2,100,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 362000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Cumberland Road 66 -12 kV Substation Rebuild			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000471		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to replace the 66 kV primary and secondary 12 kV bus with a more modular steel column design that will accommodate a larger 3-phase LTC power transformer. Level the site and replace all UG distribution feed exits utilizing encased concrete duct-bank. Replace existing vacuum circuit breakers with new units. Replace the control house and all protective transformer and station relaying with microprocessor based digital units.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	100,000	50,000	25,000	-	-	-	175,000
Construction	-	1,300,000	75,000	-	-	-	1,375,000
Equipment	-	600,000	-	-	-	-	600,000
Personnel	-	50,000	-	-	-	-	50,000
Other	-	-	-	-	-	-	-
Total	100,000	2,000,000	100,000	-	-	-	2,200,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,200,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	100,000	2,000,000	100,000	-	-	-	2,200,000
FMF	-	-	-	-	-	-	-
Total	100,000	2,000,000	100,000	-	-	-	2,200,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 362000	CATEGORY Structures and Improvements	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE PO Hoffer 66-12 kV Substation Rebuild			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000421		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to replace the 66 kV primary and secondary 12 kV bus with a more modular steel column design that will accommodate a larger 3-phase LTC power transformer. Level the site and replace all UG distribution feeder circuit exits utilizing concrete enclosed duct-bank. Replace existing vacuum circuit breakers with new units. Replace existing transformer over-current and differential protective relaying as necessary to make use of IED technology.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	250,000	150,000	-	-	-	-	400,000
Construction	375,000	700,000	-	-	-	-	1,075,000
Equipment	375,000	600,000	-	-	-	-	975,000
Personnel	-	50,000	-	-	-	-	50,000
Other	-	-	-	-	-	-	-
Total	1,000,000	1,500,000	-	-	-	-	2,500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	1,000,000	1,500,000	-	-	-	-	2,500,000
FMF	-	-	-	-	-	-	-
Total	1,000,000	1,500,000	-	-	-	-	2,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 362000	CATEGORY Structures and Improvements	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE FTI 66-12 kV Substation Rebuild and Relocation			High	Expansion	
BID DATE			Medium	New	
START CONSTRUCTION DATE			Low	Renovation	
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000420		

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate the existing FTI 66-12 kV Substation to a more suitable site that more effectively serves the load centers within this established area. The new site will provide means for additional substation capacity expansion in the future as this centralized area redevelops. Facilities planned include transmission switches which can be secured and switched remotely, a new primary 66 kV and secondary 12 kV substation bus and supporting structures, new 3-phase LTC power transformer, new vacuum circuit breakers, and a new control building. PWC plans to relocate its existing state-of-the-art substation protective relaying panels to the new site. All distribution feeder exits installed at the new site will be constructed in concrete encased duct-bank to reduce the cost of any future replacements.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	50,000	900,000	250,000	-	-	-	1,200,000
Engineering	-	100,000	50,000	50,000	-	-	200,000
Construction	-	-	1,000,000	300,000	-	-	1,300,000
Equipment	-	-	850,000	100,000	-	-	950,000
Personnel	-	-	50,000	50,000	-	-	100,000
Other	-	-	-	-	-	-	-
Total	50,000	1,000,000	2,200,000	500,000	-	-	3,750,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							3,750,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	50,000	1,000,000	2,200,000	500,000	-	-	3,750,000
FMF	-	-	-	-	-	-	-
Total	50,000	1,000,000	2,200,000	500,000	-	-	3,750,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE CoF Langdon St Widening Project			High X	Expansion
			Medium	New
			Low	Renovation X
BID DATE			BUDGET CODE CPR1000076	
START CONSTRUCTION DATE		7/1/2023		
EXPECTED COMPLETION DATE		11/30/2023		

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate roadside distribution and transmission facilities including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are relocated at the request of the City of Fayetteville to accommodate the widening of Langdon Street from Ramsey Street to Trinity Street.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	25,000	-	-	25,000
Construction	-	-	-	125,000	-	-	125,000
Equipment	-	-	-	125,000	-	-	125,000
Personnel	-	-	-	25,000	-	-	25,000
Other	-	-	-	-	-	-	-
Total	-	-	-	300,000	-	-	300,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							300,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	300,000	-	-	300,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	-	-	300,000	-	-	300,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 362000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Distribution Substation 66-12 kV Power Transformer			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000384		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to provide for the replacement of 66 -12 kV power transformers as scheduled at PWC's equivalent 27 substations. A number of power transformers at these stations are nearing the end of their useful life as predicted by condition monitoring analytics. This project will provide for a swappable unit should any of the in-service transformers require immediate replacement prior to the scheduled substation rebuild. Transformer replacements are scheduled at FTI in FY 2020, at College Lakes and Purolator in FY 2021, at Cliffdale in FY 2022, at Yadkin Road in FY 2023, and at Hogan Street in FY 2025.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	50,000	-	-	-	-	-	50,000
Construction	-	-	-	-	-	-	-
Equipment	1,640,000	865,000	865,000	865,000	865,000	4,325,000	9,425,000
Personnel	60,000	10,000	10,000	10,000	10,000	50,000	150,000
Other	-	-	-	-	-	-	-
Total	1,750,000	875,000	875,000	875,000	875,000	4,375,000	9,625,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							850,000
Total							10,475,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	1,750,000	875,000	875,000	875,000	875,000	4,375,000	9,625,000
FMF	-	-	-	-	-	-	-
Total	1,750,000	875,000	875,000	875,000	875,000	4,375,000	9,625,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 353000	CATEGORY Transmission Plant	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE 230-67kV Auto-Transformer			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000434		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to provide for the replacement of a 230-67 kV auto-transformer at Point of Delivery (POD) III. The existing unit is twenty eight years old. Dissolved gas analyses (DGA) indicate that there is excessive heating within the windings of this unit. Currently, it is inadvisable to re-energize this unit as it appears to be at the end of its useful life. This auto-transformer is critical from both a contingency perspective and system load allocation perspective.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	100,000	-	-	-	100,000
Construction	-	-	-	-	-	-	-
Equipment	-	-	2,400,000	-	-	-	2,400,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	-	2,500,000	-	-	-	2,500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	2,500,000	-	-	-	2,500,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	-	2,500,000	-	-	-	2,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 353000	CATEGORY Transmission Plant	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE POD IV 230-66 kV Substation			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000064	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to construct a 230-66 kV substation consisting of a low profile bus assembly, a 230 kV circuit switcher, a 120/160/200 MVA auto-transformer, a 66 kV low profile bus assembly and four 66 kV circuit breakers with circuit exits and ties. This project will provide for fencing, screen landscaping, communication, relaying and complete related work as required. Long-term transmission studies indicate that an additional 66 kV source will be needed in the southern portion of our service territory to provide for contingency situations and to reduce circuit loading on several segments of the 66 kV sub-transmission system. Studies are currently underway to redefine the timing, scope, and need for this project. In FY18, PWC purchased the property for this site.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	125,000	1,150,000	1,275,000
Construction	-	-	-	-	-	3,900,000	3,900,000
Equipment	-	-	-	-	-	10,500,000	10,500,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	-	-	-	125,000	15,550,000	15,675,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,392,000
<i>FY2020 Estimate</i>							-
Total							17,067,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	125,000	15,550,000	15,675,000
FMF	-	-	-	-	-	-	-
Total	-	-	-	-	125,000	15,550,000	15,675,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 360000	CATEGORY Land and Land Rights	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE ROW Additions Distribution			High	X	Expansion X
			Medium		New
			Low		Renovation
BID DATE			BUDGET CODE CPR1000210		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to purchase the easements needed for the NESC compliant installation of overhead and underground distribution facilities and to facilitate the improved maintenance of existing facilities. Rights-of-way are sometimes needed to allow for the construction or relocation of distribution lines, poles and equipment for system improvement projects. Rights-of-way are also sometimes too narrow for maintenance or operation of equipment and should be increased or widened. In FY17, PWC began a campaign to protect and to remove dangerous trees associated with its distribution assets. Additional ROW will need to be acquired in order for us to maintain adequate clearances for our overhead facilities.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	150,000	150,000	150,000	150,000	150,000	750,000	1,500,000
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	150,000	150,000	150,000	150,000	150,000	750,000	1,500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							59,000
<i>FY2020 Estimate</i>							90,000
Total							1,649,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	150,000	150,000	150,000	150,000	150,000	750,000	1,500,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	150,000	150,000	150,000	150,000	150,000	750,000	1,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 350000	CATEGORY Transmission Plant	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE POD V 230-66 kV Substation Property Acquisition			High	Expansion X
BID DATE			Medium X	New
START CONSTRUCTION DATE			Low	Renovation
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000065	

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to acquire the property for the fifth 230-66 kV Point of Delivery identified in PWC's Transmission Planning Study to be located on the north side of PWC's service territory. This delivery point's preferred location will be in close proximity to the Duke Energy- Progress Ft Bragg-Woodruff Street 230 kV transmission line.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	3,000,000	-	-	-	-	-	3,000,000
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	3,000,000	-	-	-	-	-	3,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							50,000
Total							3,050,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	3,000,000	-	-	-	-	-	3,000,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	3,000,000	-	-	-	-	-	3,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 356000	CATEGORY Transmission Plant	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE POD I 230 kV Switch Replacement			High	Expansion	
BID DATE			Medium	New	
START CONSTRUCTION DATE			Low	Renovation	
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000472		

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to replace all three 230 kV motor operated air-break switches (MOABS) Point of Delivery (POD) I. These MOABS are 1970's vintage equipment and their reliability is questionable. They can no longer be rebuilt because the parts are no longer available. Due to technological improvements, an improved version is currently available. In FY 2020, Duke Energy Progress (DEP) improved the reliability of PWC's connection to their system at this delivery point by installing a breaker and half scheme at their station. In order for PWC to ensure that it maintains a reliable 230 kV connection at its auto-transformers, these switches need to be replaced.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	25,000	-	-	-	-	-	25,000
Construction	50,000	-	-	-	-	-	50,000
Equipment	175,000	-	-	-	-	-	175,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	250,000	-	-	-	-	-	250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	250,000	-	-	-	-	-	250,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	250,000	-	-	-	-	-	250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 367000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score		TYPE PROJECT Replacement
PROJECT TITLE Downtown UG Infrastructure Reliability Improvements			High	X	Expansion
			Medium		New
			Low		Renovation
BID DATE			BUDGET CODE CPR1000251		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to install sectionalizing equipment and fiber optic communications systems as required to improve the reliability, safety, and operability of the existing UG distribution system in the Downtown area of Fayetteville. This project will also install UG sumps in vaults where necessary and will replace long secondary bus and tap fuses as required to provide for proper insulation protection of the flame retardant, low smoke, non-Halogen, Polyolefin insulated secondary cables that have been installed in this UG network.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	500,000	250,000	-	-	-	-	750,000
Equipment	450,000	200,000	-	-	-	-	650,000
Personnel	50,000	50,000	-	-	-	-	100,000
Other	-	-	-	-	-	-	-
Total	1,000,000	500,000	-	-	-	-	1,500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							66,000
<i>FY2020 Estimate</i>							275,000
Total							1,841,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	1,000,000	500,000	-	-	-	-	1,500,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	1,000,000	500,000	-	-	-	-	1,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	(25,000)	(25,000)	(25,000)	(25,000)	(25,000)	(125,000)	(250,000)
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	(25,000)	(25,000)	(25,000)	(25,000)	(25,000)	(125,000)	(250,000)

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 367000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Underground Distribution / Streetscape Improvement			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000072	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

Replace existing underground distribution infrastructure as necessary and convert overhead distribution infrastructure to underground as required to facilitate the City of Fayetteville's long-range plans for streetscape improvements downtown. During FY 2021, PWC will install electrical conduit in conjunction with the Water Resources Market House Facility Replacement project to provide for future electrical facility redundancy as downtown businesses expand and reliability demands increase. This project will provide funding for miscellaneous streetscape improvements not otherwise identified in the Capital Improvement Program.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	20,000	20,000	20,000	20,000	20,000	100,000	200,000
Equipment	20,000	20,000	20,000	20,000	20,000	100,000	200,000
Personnel	10,000	10,000	10,000	10,000	10,000	50,000	100,000
Other	-	-	-	-	-	-	-
Total	50,000	50,000	50,000	50,000	50,000	250,000	500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							7,000
<i>FY2020 Estimate</i>							-
Total							507,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	50,000	50,000	50,000	50,000	50,000	250,000	500,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	50,000	50,000	50,000	50,000	50,000	250,000	500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 306000	CATEGORY Inhouse Computer System	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE DMS Software and Implementation			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000432	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

This project is a companion project for the Outage Management System that is scheduled to be completed in the 2nd Quarter of FY 2020. The Distribution Management System (DMS) will provide for real-time load-flow calculation analytics which provides the means to perform automatic switch order management distribution, sub-transmission feeder reconfiguration and distribution automation. In essence, this software provides the means to improve the overall performance of our electrical distribution and sub-transmission systems. This system will help improve our system service reliability and also reduce our system losses.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
Equipment	700,000	225,000	-	-	-	-	925,000
Personnel	50,000	25,000	-	-	-	-	75,000
Other	-	-	-	-	-	-	-
Total	750,000	250,000	-	-	-	-	1,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	750,000	250,000	-	-	-	-	1,000,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	750,000	250,000	-	-	-	-	1,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 343000	CATEGORY Generation Plant	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Heat Exchanger Upgrade			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000366		
START CONSTRUCTION DATE			10/1/2019		
EXPECTED COMPLETION DATE			5/1/2021		

PROJECT DESCRIPTION & JUSTIFICATION

The heat exchangers on the eight (8) gas turbines at the Butler-Warner Generation Plant are corroding and are approaching their end-of-life usefulness. BWGP personnel currently have to cool these heat exchangers by spraying water during the summer months just to maintain an acceptable oil temperature. This project will replace the heat exchangers on the eight (8) gas turbines over a three (3) year period.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	130,000	-	-	-	-	-	130,000
Equipment	300,000	-	-	-	-	-	300,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	430,000	-	-	-	-	-	430,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							319,000
<i>FY2020 Estimate</i>							585,000
Total							1,334,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	430,000	-	-	-	-	-	430,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	430,000	-	-	-	-	-	430,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 312500	CATEGORY Generation Plant	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE BWGP Heat Recovery Steam Generator Boiler Tube Replacement			High	Expansion	
			Medium	New	X
			Low	Renovation	
BID DATE	8/31/2020		BUDGET CODE CPR1000473		
START CONSTRUCTION DATE	8/31/2021				
EXPECTED COMPLETION DATE	12/31/2021				

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to re-tube three (3) heat steam generators. The boiler tubes in the steam generators are over thirty (30) years old and are constantly failing. Replacement of these tubes will improve steam generator reliability and will help PWC meet the delivery performance factor contained within the Duke Energy Progress contract through calendar year 2032.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	500,000	500,000	-	-	-	-	1,000,000
Equipment	4,500,000	4,500,000	-	-	-	-	9,000,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	5,000,000	5,000,000	-	-	-	-	10,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							10,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	5,000,000	5,000,000	-	-	-	-	10,000,000
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	5,000,000	5,000,000	-	-	-	-	10,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 316000	CATEGORY Generation Plant	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE BWGP Water Purification System			High	Expansion	
			Medium	New	X
			Low	Renovation	
BID DATE	9/30/2020		BUDGET CODE	CPR1000475	
START CONSTRUCTION DATE	4/30/2021				
EXPECTED COMPLETION DATE	6/30/2021				

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to replace the existing acid and caustic demineralizer system with a reverse osmosis demineralizer system. The current acid and caustic demineralizer system requires frequent repairs and requires that acid and caustic materials be stored on-site. The requested replacement system does not require chemical storage.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	75,000	-	-	-	-	-	75,000
Equipment	275,000	-	-	-	-	-	275,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	350,000	-	-	-	-	-	350,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							350,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	350,000	-	-	-	-	-	350,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	350,000	-	-	-	-	-	350,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 363000	CATEGORY Generation Plant	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Battery Storage			High	Expansion X
			Medium X	New
			Low	Renovation
BID DATE		7/1/2021	BUDGET CODE	
START CONSTRUCTION DATE		5/1/2022	CPR1000470	
EXPECTED COMPLETION DATE		5/1/2023		

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to construct a 1.5 MW battery storage system adjacent to PWC's Community Solar site and connect it in tandem with the existing 500 kW battery storage facility already in use. This 1.5 MW addition will provide additional cost savings to PWC during coincident peak demands and will enable us to meet the battery storage threshold specified in our current Duke Energy Progress contract.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	500,000	50,000	50,000	-	-	-	600,000
Construction	-	250,000	250,000	-	-	-	500,000
Equipment	-	1,700,000	1,700,000	-	-	-	3,400,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	500,000	2,000,000	2,000,000	-	-	-	4,500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							4,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	500,000	2,000,000	2,000,000	-	-	-	4,500,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	500,000	2,000,000	2,000,000	-	-	-	4,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

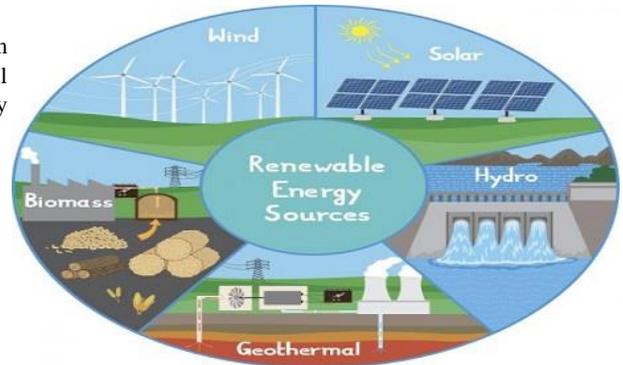
*Priority Score: High Med Low

Electric Systems

DIVISION ELECTRIC ADMINISTRATI	ACTIVITY 363000	CATEGORY Generation Plant	PRIORITY Score	TYPE PROJECT Replacement
PROJECT TITLE Renewable Resource Development			High	Expansion
			Medium	New
			Low	Renovation
BID DATE			BUDGET CODE CPR1000469	
START CONSTRUCTION DATE				
EXPECTED COMPLETION DATE				

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to develop a source of renewable energy from sources other than solar and battery storage. The development of this source will reduce PWC's reliance on the open market for purchasing renewable energy credits in order to meet its renewable energy portfolio commitment.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	250,000	250,000	250,000	250,000	-	1,000,000
Construction	-	-	-	1,000,000	1,000,000	-	2,000,000
Equipment	-	-	-	4,750,000	8,750,000	-	13,500,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	250,000	250,000	6,000,000	10,000,000	-	16,500,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							16,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	250,000	250,000	6,000,000	10,000,000	-	16,500,000
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	250,000	250,000	6,000,000	10,000,000	-	16,500,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE Bragg Boulevard Gateway Improvement - Phase II			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000032		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of the project is to replace existing overhead primary and secondary conductors and devices along the north side of Bragg Boulevard from Stamper Road to Carol Street with underground distribution facilities and to replace and improve roadway lighting in this area. Conduit and vaults will be installed to accommodate both municipal and other communication facilities. This project is complementary to the previous Gateway Improvement Projects that have been completed in an effort to improve the aesthetics of the major arteries into Fayetteville. This project will foster redevelopment in this area because of its close proximity to the Fort Bragg Military Reservation.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	-	-	-	-	-	-	-
Construction	-	-	-	-	-	1,100,000	1,100,000
Equipment	-	-	-	-	-	1,100,000	1,100,000
Personnel	-	-	-	-	-	100,000	100,000
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	2,300,000	2,300,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,300,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	2,300,000	2,300,000
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	-	-	-	-	2,300,000	2,300,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-5015 Murchison Road Improvement			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000467		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate transmission and distribution facilities along Murchison Road (NC 210) including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated from Langdon Street to south of US 401 By-Pass at the request of NCDOT to accommodate roadway improvements along Murchison Road.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	500,000	500,000
Engineering	-	-	-	-	-	400,000	400,000
Construction	-	-	-	-	-	600,000	600,000
Equipment	-	-	-	-	-	500,000	500,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	2,000,000	2,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	2,000,000	2,000,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	-	-	-	-	2,000,000	2,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT Rowan Street Bridge Replacement			High	Expansion	
			Medium	New	
			Low	Renovation	X
BID DATE			BUDGET CODE CPR1000083		
START CONSTRUCTION DATE		9/1/2015			
EXPECTED COMPLETION DATE		12/31/2020			

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate roadside transmission and distribution facilities including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are relocated at the request of NCDOT to accommodate the replacement of the Rowan Street Bridge in Cumberland County at the Robeson Street intersection.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	80,000	-	-	-	-	-	80,000
Construction	100,000	-	-	-	-	-	100,000
Equipment	50,000	-	-	-	-	-	50,000
Personnel	20,000	-	-	-	-	-	20,000
Other	-	-	-	-	-	-	-
Total	250,000	-	-	-	-	-	250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							1,889,000
<i>FY2020 Estimate</i>							100,000
Total							2,239,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	250,000	-	-	-	-	-	250,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	250,000	-	-	-	-	-	250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4405 Raeford Road Widening			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000244		
START CONSTRUCTION DATE		4/1/2019			
EXPECTED COMPLETION DATE		10/31/2022			

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate transmission and distribution facilities along Raeford Road including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated at the request of NCDOT and the City of Fayetteville to accommodate the widening of Raeford Road from Hampton Oaks Drive to Fairway Drive.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	-	-
Engineering	250,000	250,000	-	-	-	-	500,000
Construction	1,000,000	-	-	-	-	-	1,000,000
Equipment	750,000	-	-	-	-	-	750,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	2,000,000	250,000	-	-	-	-	2,250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							6,625,000
<i>FY2020 Estimate</i>							13,000,000
Total							21,875,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	2,000,000	250,000	-	-	-	-	2,250,000
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	-	-
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	2,000,000	250,000	-	-	-	-	2,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4403B Ramsey Street Widening			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000416		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate transmission and distribution facilities along Ramsey Street including poles, guys, anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated at the request of the NCDOT and the City of Fayetteville to accommodate the widening of Ramsey Street from the intersection of the CBD Loop to the intersection of the US-401 By-Pass.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	750,000	500,000	-	-	-	1,250,000
Engineering	500,000	500,000	500,000	500,000	200,000	-	2,200,000
Construction	-	-	1,500,000	250,000	-	-	1,750,000
Equipment	-	-	1,500,000	250,000	-	-	1,750,000
Personnel	-	-	100,000	100,000	-	-	200,000
Other	-	-	-	-	-	-	-
Total	500,000	1,250,000	4,100,000	1,100,000	200,000	-	7,150,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							100,000
Total							7,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	500,000	1,250,000	4,100,000	1,100,000	200,000	-	7,150,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	500,000	1,250,000	4,100,000	1,100,000	200,000	-	7,150,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY 364000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-5798A Gillis Hill Road Widening			High	Expansion	
BID DATE			Medium	New	
START CONSTRUCTION DATE			Low	Renovation	
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000417		

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate distribution facilities along Gillis Hill Road (2.4 miles) including poles, guys, anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated at the request of the NCDOT and the City of Fayetteville to accommodate the widening of Gillis Hill Road from the intersection of Raeford Road (US-401) to Lindsay Road (SR-1418).



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	150,000	-	-	-	-	-	150,000
Engineering	200,000	150,000	150,000	-	-	-	500,000
Construction	350,000	500,000	-	-	-	-	850,000
Equipment	350,000	500,000	-	-	-	-	850,000
Personnel	50,000	50,000	-	-	-	-	100,000
Other	-	-	-	-	-	-	-
Total	1,100,000	1,200,000	150,000	-	-	-	2,450,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							100,000
Total							2,550,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	1,100,000	1,200,000	150,000	-	-	-	2,450,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	1,100,000	1,200,000	150,000	-	-	-	2,450,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-5798B Gillis Hill Road Widening			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000476		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate distribution facilities along Gillis Hill Road (1.2 miles) including poles, guys, anchors, roadway lighting, transformers, secondaries, and services. Facilities are being relocated at the request of the NCDOT and the City of Fayetteville to accommodate the widening of Gillis Hill Road from the Lindsay Road (SR 1418) to Stoney Point Road (SR 1112).



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	200,000	-	-	-	-	200,000
Engineering	250,000	100,000	100,000	150,000	-	-	600,000
Construction	-	400,000	600,000	-	-	-	1,000,000
Equipment	-	400,000	500,000	-	-	-	900,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	250,000	1,100,000	1,200,000	150,000	-	-	2,700,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,700,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	250,000	1,100,000	1,200,000	150,000	-	-	2,700,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	250,000	1,100,000	1,200,000	150,000	-	-	2,700,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4900 Murchison Road Widening			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000243		
START CONSTRUCTION DATE		2/1/2022			
EXPECTED COMPLETION DATE		6/30/2023			

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate transmission and distribution facilities along Murchison Road including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated at the request of NCDOT and the City of Fayetteville to accommodate the widening of Murchison Road from US401 to the I-295 By-pass.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	100,000	-	-	-	-	100,000
Engineering	-	225,000	50,000	150,000	-	-	425,000
Construction	-	-	350,000	-	-	-	350,000
Equipment	-	-	350,000	-	-	-	350,000
Personnel	-	-	25,000	-	-	-	25,000
Other	-	-	-	-	-	-	-
Total	-	325,000	775,000	150,000	-	-	1,250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							1,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	325,000	775,000	150,000	-	-	1,250,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	325,000	775,000	150,000	-	-	1,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-5101 Stacey Weaver Drive Widening			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000418		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate distribution facilities along Stacey Weaver Drive, Rosehill Road (SR-1615), Shaw Mill Road (SR-1614), and Shaw Road (SR-1437) including poles, guys, anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated at the request of the NCDOT and the City of Fayetteville to accommodate the widening of Stacey Weaver Drive, Rosehill Road, Shaw Mill Road, and Shaw Road from the intersection of Ramsey Street (US-401) to the intersection of Murchison Road (NC-210).



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	100,000	125,000	200,000	425,000
Engineering	-	100,000	150,000	100,000	100,000	600,000	1,050,000
Construction	-	-	-	-	-	3,300,000	3,300,000
Equipment	-	-	-	-	-	2,900,000	2,900,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	100,000	150,000	200,000	225,000	7,000,000	7,675,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							7,675,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	100,000	150,000	200,000	225,000	7,000,000	7,675,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	100,000	150,000	200,000	225,000	7,000,000	7,675,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY 364000	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4404 Cliffdale Road Widening			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000419		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate distribution facilities along Cliffdale Road (.9 miles) including poles, guys, anchors, roadway lighting, transformers, secondaries, and services. Facilities are being relocated at the request of the NCDOT and the City of Fayetteville to accommodate the widening of Cliffdale Road from the intersection of McPherson Church Road to the intersection of Morganton Road (SR-1404).



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	500,000	500,000
Engineering	-	-	-	-	100,000	150,000	250,000
Construction	-	-	-	-	-	1,750,000	1,750,000
Equipment	-	-	-	-	-	1,750,000	1,750,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	-	-	-	100,000	4,150,000	4,250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							4,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	100,000	4,150,000	4,250,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	-	-	-	100,000	4,150,000	4,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY 364000	CATEGORY Electric Distribution System	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4403C Ramsey Street Widening US 401 By-Pass to Slocomb Road North			High	X	Expansion	
BID DATE			Medium		New	
START CONSTRUCTION DATE			Low		Renovation	
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000462			

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate transmission and distribution facilities along Ramsey Street including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated from US-401 By-Pass (Country Club Drive) to north of Slocomb Road at the request of NCDOT to accommodate highway widening improvements along Ramsey Street.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	300,000	500,000	500,000	-	-	1,300,000
Engineering	300,000	200,000	250,000	250,000	250,000	1,700,000	2,950,000
Construction	-	-	-	-	600,000	12,150,000	12,750,000
Equipment	-	-	-	-	400,000	12,150,000	12,550,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	300,000	500,000	750,000	750,000	1,250,000	26,000,000	29,550,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							29,550,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	300,000	500,000	750,000	750,000	1,250,000	26,000,000	29,550,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	300,000	500,000	750,000	750,000	1,250,000	26,000,000	29,550,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-						

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score		TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-6133 Cliffdale Road / Skibo Road Intersection Improvement			High	X	Expansion	
BID DATE			Medium		New	
START CONSTRUCTION DATE			Low		Renovation	
EXPECTED COMPLETION DATE			BUDGET CODE CPR1000463			

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate distribution facilities along Cliffdale (SR 1400) and Skibo (US-401 By-Pass) Roads including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated at this intersection to accommodate traffic flow improvements along Cliffdale Road.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	350,000	-	350,000
Engineering	-	-	-	-	150,000	550,000	700,000
Construction	-	-	-	-	-	475,000	475,000
Equipment	-	-	-	-	-	475,000	475,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	-	-	-	500,000	1,500,000	2,000,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	500,000	1,500,000	2,000,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	-	-	-	500,000	1,500,000	2,000,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-6209 Cliffdale Road Widening			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000464		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate transmission and distribution facilities along Cliffdale Road (SR 1400) including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated from Bunce Road (SR 1411) to McPherson Church Road at the request of NCDOT to accommodate highway widening improvements along Cliffdale Road.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	350,000	350,000
Engineering	-	-	-	-	-	1,150,000	1,150,000
Construction	-	-	-	-	-	1,350,000	1,350,000
Equipment	-	-	-	-	-	1,100,000	1,100,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	3,950,000	3,950,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							3,950,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	3,950,000	3,950,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	-	-	-	-	3,950,000	3,950,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-6213 Ireland Drive Widening			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000465		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate transmission and distribution facilities along Ireland Drive (SR 1219) including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated from Cumberland Road (SR 1141) to Raeford Road (US 401) at the request of NCDOT to accommodate highway widening improvements along Ireland Drive.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	500,000	500,000
Engineering	-	-	-	-	-	500,000	500,000
Construction	-	-	-	-	-	1,125,000	1,125,000
Equipment	-	-	-	-	-	1,125,000	1,125,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	3,250,000	3,250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							3,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	3,250,000	3,250,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	-	-	-	-	3,250,000	3,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-4900 Murchison Road Widening			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000466		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate transmission and distribution facilities along Murchison Road (NC 210) including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated from I-295 to south of US 401 By-Pass at the request of NCDOT to accommodate highway widening improvements along Murchison Road.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	200,000	200,000	-	-	-	400,000
Engineering	-	300,000	200,000	200,000	250,000	-	950,000
Construction	-	-	300,000	1,200,000	-	-	1,500,000
Equipment	-	-	300,000	1,100,000	-	-	1,400,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	500,000	1,000,000	2,500,000	250,000	-	4,250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							4,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	500,000	1,000,000	2,500,000	250,000	-	4,250,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	500,000	1,000,000	2,500,000	250,000	-	4,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

Electric Systems

DIVISION ELEC CONSTRUCTION & N 364000	ACTIVITY	CATEGORY Electric Distribution System	PRIORITY Score	TYPE PROJECT Replacement	X
PROJECT TITLE NCDOT U-6152 Robeson Street Access Management			High	Expansion	
			Medium	New	
			Low	Renovation	
BID DATE			BUDGET CODE CPR1000468		
START CONSTRUCTION DATE					
EXPECTED COMPLETION DATE					

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to relocate transmission and distribution facilities along Robeson Street including poles, conductors, guys and anchors, roadway lighting, transformers, secondaries and services. Facilities are being relocated from Blount Street to Raeford Road (US 401) at the request of NCDOT to accommodate roadway improvements along Robeson Street.



	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Expenses							
Land	-	-	-	-	-	150,000	150,000
Engineering	-	-	-	-	-	800,000	800,000
Construction	-	-	-	-	-	650,000	650,000
Equipment	-	-	-	-	-	650,000	650,000
Personnel	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	-	-	-	-	-	2,250,000	2,250,000
<i>Pre-FY2020 Exp (Rolling 3 Yr Avg)</i>							-
<i>FY2020 Estimate</i>							-
Total							2,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Funding Source							
Electric Fund	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-
DOT E Raeford Rd CPF	-	-	-	-	-	-	-
NC State Loan Fund	-	-	-	-	-	-	-
Annex V Reserve	-	-	-	-	-	-	-
Participation	-	-	-	-	-	2,250,000	2,250,000
REPS	-	-	-	-	-	-	-
Hurricane Matthew CPF	-	-	-	-	-	-	-
Substation Rebuild CPF	-	-	-	-	-	-	-
FMF	-	-	-	-	-	-	-
Total	-	-	-	-	-	2,250,000	2,250,000

	FY2021	FY2022	FY2023	FY2024	FY2025	FY26-30	Total
Impact on Operating Budget							
New Personnel	-	-	-	-	-	-	-
Operating/Maintenance	-	-	-	-	-	-	-
Capital Outlays	-	-	-	-	-	-	-
New Revenue	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

*Priority Score: High Med Low

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