



# County of Dare, North Carolina

## Adopted Capital Improvements Plan 2017 – 2021



**County of Dare, NC**  
**Adopted Fiscal Year 2017 through Fiscal Year 2021 Capital**  
**Improvements Plan**

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- **CIP – Gross Project Amounts**
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- **Water CIP**

County of Dare, NC

Adopted Projects for Capital Improvements Plan 2017 - 2021

Cells that differ from Gross Project Schedule

#	Description	Source	Gross Project Amount		Projects - Net Project Amounts					Comments	Debt = Blue and amount of Debt
					2017	2018	2019	2020	2021		
1	Jail HVAC Rooftop Units #1	Detention Center	\$ 310,500	Approved in prior CIP	\$ 123,000	\$ 107,000	\$ 80,500	\$ -	\$ -	Spread over 3 years per request option	
2	Voting Equipment	Elections	\$ 233,460	Approved in prior CIP	\$ -	\$ 233,460	\$ -	\$ -	\$ -		
3	Rear Loader Truck - Recycling	Public Works	\$ 128,750	Approved in prior CIP	\$ 40,915	\$ 81,830	\$ 81,830	\$ 81,830	\$ 40,915	Finance over 48 mo with #11 FY17	\$ 295,000
4	DC Schools Local Capital Outlay	DC Schools	\$ 2,510,000	Approved in prior CIP	\$ 650,000	\$ 557,000	\$ 496,000	\$ 490,000	\$ 317,000	FY17 decrease per BOE	
5	DC Schools CIP	DC Schools	\$ 4,981,200	Approved in prior CIP	\$ 900,000	\$ 950,000	\$ 1,250,000	\$ 1,250,000	\$ 631,200	@ FY16 approved for FY17 & FY18	
6	Property & Identification Building	Sheriff	\$ -	Approved in prior CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,500,000 requested	
7	Jail HVAC Rooftop Units #2	Detention Center	\$ 78,000	Approved in prior CIP	\$ -	\$ -	\$ -	\$ 78,000	\$ -		
8	C&D Landfill Cell #6	Public Works	\$ 700,000	Approved in prior CIP	\$ -	\$ -	\$ 300,000	\$ 400,000	\$ -	\$500,000 from C&D Fund, GT = \$1,200,000	
9	B&G Various Facility Improvements	Public Works	\$ 131,831	New request	\$ 131,831	\$ -	\$ -	\$ -	\$ -	Reduced by \$20,000	
10	Boom Truck - Sanitation Fund	Public Works	\$ -	Not approved in prior CIP	\$ -	\$ -	\$ -	\$ -	\$ -	\$225,570 requested	
11	Roll-off Truck Rubble & Transfer	Public Works	\$ 159,650	New request	\$ -	\$ -	\$ -	\$ -	\$ -	Finance over 48 mo with #3 FY17	
12	Family Rec Park Building Roof	Parks & Rec	\$ 75,474	New request	\$ 75,474	\$ -	\$ -	\$ -	\$ -		
13	EMS Facility Assessment Study	EMS	\$ 50,000	New request	\$ 50,000	\$ -	\$ -	\$ -	\$ -		
14	EMS Portable Radio Replacement	EMS	\$ 203,060	New request	\$ 101,530	\$ -	\$ 104,025	\$ 208,050	\$ 208,050	With #21. 1/2 EMS FY17 cash, finance rest FY19	\$ 735,000
15	EMS Reg Compliance Equipment	EMS	\$ 134,850	New request	\$ 134,850	\$ -	\$ -	\$ -	\$ -		
16	EMS Suction Units & Infusion Pumps	EMS	\$ 108,000	New request	\$ 54,000	\$ 54,000	\$ -	\$ -	\$ -	Spread over FY17 & FY18	
17	EMS Training Equipment	EMS	\$ -	New request	\$ -	\$ -	\$ -	\$ -	\$ -	Done in FY17 & other project funds	
18	Courthouse HVAC	Public Works	\$ 935,614	New request	\$ 24,125	\$ 238,375	\$ 228,625	\$ 218,875	\$ 204,250	Replace now & finance over 5 years (18b)	\$ 965,000
19	COA Repairs & Renovations	COA	\$ 288,750	New request	\$ 96,250	\$ 96,250	\$ 96,250	\$ -	\$ -	Spread over 3 years	
20	COA New Construction Part 1	COA	\$ -	Not approved in prior CIP	\$ -	\$ -	\$ -	\$ -	\$ -		
21	LE Replacement of Motorola Radios	Sheriff	\$ 620,000	New request	\$ -	\$ -	\$ -	\$ -	\$ -	See #14 - finance over 48 months	
5a	DCS CIP - MHS Roof as debt	DC Schools	\$ 350,000	Approved in prior CIP	\$ -	\$ -	\$ 94,000	\$ 91,000	\$ 88,000	5 yr debt FY18 project w/ NH beach nourishment	\$ 375,000
Totals by fiscal year			\$11,999,139		\$2,381,975	\$2,317,915	\$2,731,230	\$2,817,755	\$1,489,415		

<b>Dare Schools CIP</b>	
#5	\$ 4,981,200
#5a MHS roof	\$ 350,000
	\$ 5,331,200

**County of Dare**  
**Capital Improvements Plan and Capital Reserve Fund**  
**Fiscal Years 2017-2021**

	Actual					Actual	Adopted				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Beginning fund balance</b>	\$ 1,997,765	\$ 766,453	\$ 467,821	\$ 73	\$ 236,334	\$ 800,190	\$ 696,681	\$ 397,965	\$ 594,445	\$ 625,082	\$ 794,392
<b>Sources of Funds:</b>											
Net land transfer tax collections	\$ 4,406,519	\$ 4,690,292	\$ 4,625,259	\$ 5,052,745	\$ 6,208,881	\$ 6,310,197	\$ 6,258,326	\$ 6,414,784	\$ 6,575,154	\$ 6,739,533	\$ 6,908,021
LT tax to County @ 65%	\$ 2,864,191	\$ 3,048,690	\$ 3,006,418	\$ 3,284,284	\$ 3,990,322	\$ 4,101,628	\$ 4,067,912	\$ 4,169,610	\$ 4,273,850	\$ 4,380,696	\$ 4,490,214
Interest income	21,630	5,524	(363)	1,867	7,422	8,467	6,967	7,959	14,861	18,752	818,224
General Fund debt service capacity used for MES addition				-			301,078	294,211	287,343	280,476	280,477
General Fund debt service capacity used for FY15 CIP financing							206,500	154,875			
Other sources - E911 fund balance		619,172									
General Fund operating budget				179,402							
Other sources unused funds from prior projects/land sale	164,776	467,632				457,205					
<b>Total sources</b>	<b>\$ 3,050,597</b>	<b>\$ 4,141,018</b>	<b>\$ 3,006,055</b>	<b>\$ 3,465,553</b>	<b>\$ 3,997,744</b>	<b>\$ 4,567,300</b>	<b>\$ 4,582,457</b>	<b>\$ 4,626,655</b>	<b>\$ 4,576,054</b>	<b>\$ 4,679,925</b>	<b>\$ 5,588,915</b>
<b>Uses of Funds:</b>											
<i>From actions outside the CIP:</i>											
Land payment to DCAA for CSI	140,600	-	-	-	-	-	-	-	-	-	-
ABC land swap - S2006 GO bond payment	45,000	40,000	-	-	-	-	-	-	-	-	-
RECC/EOC Project						810,205					
<i>From prior capital improvement plans</i>											
2000 - debt service for S1993 & S2003 GO bonds (Schools)	200,000	175,000	-	-	-	-	-	-	-	-	-
2000 - debt service for S1998 COPs (Health & DSS)	125,000	100,000	100,000	-	-	-	-	-	-	-	-
2002 - debt service for S2002 COPs (Schools & SWTS)	325,000	300,000	195,300	225,000	206,500	225,000	252,961	-	-	-	-
2007 - debt service for S2007 COPs (Admin, HSO & KH land)	919,958	875,000	875,000	800,000	668,500	593,500	518,500	500,000	475,000	450,000	425,000
2008 - debt service for S2008 IF (COA, RISC & land)	974,151	949,000	945,000	875,000	825,000	800,000	775,000	750,000	700,000	650,000	625,000
2011 - paygo cash projects	1,552,200										
2012 - paygo cash projects		2,000,650									
2013 - CIP - paygo cash projects			1,358,503								
2013 - CIP - debt service for S2013C LOBs (helicopter & EMS)				300,000	275,000	250,000	225,000	200,000	150,000	125,000	100,000
2014 - CIP - debt service for various equipment				56,770			206,500	154,875	-	-	-
2014 - CIP - debt service for MES Addition							301,078	294,211	287,343	280,476	280,476
2014 - CIP - paygo cash projects				972,522							
2015 - CIP - paygo cash projects					1,458,888						
2016 - CIP - paygo cash projects						1,992,104					-
2016 - CIP - debt service for RECC/EOC, over planned FY17							121,000	103,000	93,000	80,000	67,000
2016 - CIP - debt service for CHSS HVAC Chiller							99,159	110,174	108,844	107,384	105,764
2017 - CIP - Adopted							2,381,975	2,317,915	2,731,230	2,817,755	1,489,415
<b>Total uses</b>	<b>\$ 4,281,909</b>	<b>\$ 4,439,650</b>	<b>\$ 3,473,803</b>	<b>\$ 3,229,292</b>	<b>\$ 3,433,888</b>	<b>\$ 4,670,809</b>	<b>\$ 4,881,173</b>	<b>\$ 4,430,175</b>	<b>\$ 4,545,417</b>	<b>\$ 4,510,615</b>	<b>\$ 3,092,655</b>
Net increase/(decrease) for the year	(1,231,312)	(298,632)	(467,748)	236,261	563,856	(103,509)	(298,716)	196,480	30,637	169,310	2,496,260
<b>Ending fund balance</b>	<b>\$766,453</b>	<b>\$467,821</b>	<b>\$73</b>	<b>\$236,334</b>	<b>\$800,190</b>	<b>\$696,681</b>	<b>\$397,965</b>	<b>\$594,445</b>	<b>\$625,082</b>	<b>\$794,392</b>	<b>\$3,290,652</b>

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**County of Dare, NC**  
**Adopted Projects for Capital Improvements Plan 2017 - 2021**

#	Description	Source	Gross Project Amount		Operating Costs				
					2017	2018	2019	2020	2021
1	Jail HVAC Rooftop Units #1	Detention Center	\$ 310,500	Approved in prior CIP	(\$500)	(\$750)	(\$1,000)	(\$1,000)	(\$1,000)
2	Voting Equipment	Elections	\$ 233,460	Approved in prior CIP					
3	Rear Loader Truck - Recycling	Public Works	\$ 128,750	Approved in prior CIP					
4	DC Schools Local Capital Outlay	DC Schools	\$ 2,510,000	Approved in prior CIP					
5	DC Schools CIP	DC Schools	\$ 4,981,200	Approved in prior CIP					
6	Property & Identification Building	Sheriff	\$ -	Approved in prior CIP					
7	Jail HVAC Rooftop Units #2	Detention Center	\$ 78,000	Approved in prior CIP					(\$500)
8	C&D Landfill Cell #6	Public Works	\$ 1,200,000	Approved in prior CIP					
9	B&G Various Facility Improvements	Public Works	\$ 131,831	New request					
10	Boom Truck - Sanitation Fund	Public Works	\$ -	Not approved in prior CIP					
11	Roll-off Truck Rubble & Transfer	Public Works	\$ 159,650	New request					
12	Family Rec Park Building Roof	Parks & Rec	\$ 75,474	New request					
13	EMS Facility Assessment Study	EMS	\$ 50,000	New request					
14	EMS Portable Radio Replacement	EMS	\$ 203,060	New request					
15	EMS Reg Compliance Equipment	EMS	\$ 134,850	New request					
16	EMS Suction Units & Infusion Pumps	EMS	\$ 108,000	New request					
17	EMS Training Equipment	EMS	\$ -	New request					
18	Courthouse HVAC	Public Works	\$ 935,614	New request		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
20	COA New Construction Part 1	COA	\$ -	Not approved in prior CIP					
5a									
Totals by fiscal year			\$11,240,389		(\$500)	(\$1,750)	(\$2,000)	(\$2,000)	(\$2,500)

**Dare County E911  
Adopted Capital Improvements Plan & Operating Funds  
FY 2017-2021**

	Actual					Actual	Adopted CIP				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Beginning fund balance	\$1,326,034	\$1,621,580	\$912,991	\$852,267	\$813,031	\$824,527	\$414,105	\$249,454	\$167,534	\$132,787	\$77,150
<b>Operating:</b>											
Funds added	295,546	0	0	0	0	0	0	0	0	0	0
Funds used/operating deficits	0	(708,589)	(60,724)	(39,236)	11,496	30,829	(80,000)	(75,000)	0	0	0
Available fund balance	1,621,580	912,991	852,267	813,031	824,527	855,356	334,105	174,454	167,534	132,787	77,150
<b>CIP Uses:</b>											
CAD workstation replacement									22,500		22,500
UPS (A) battery replacement									5,950		5,950
UPS (B) battery replacement							7,476			7,476	
UPS © battery replacement								1,380			1,380
CAD backup tape replacement									800		
Phone recorder backup tapes replacement									204		205
High endurance chair replacements							35,000	3,250	3,348	3,448	3,551
911 headset replacements							2,025	2,086	2,149	2,213	2,280
Server replacement							35,650			38,000	
Pro QA upgrade							4,500			4,500	
Total CIP uses						0	84,651	6,920	34,747	55,637	35,866
Transfer to RECC/EOC capital project						441,251					
Ending fund balance	\$1,621,580	\$912,991	\$852,267	\$813,031	\$824,527	\$414,105	\$249,454	\$167,534	\$132,787	\$77,150	\$41,284

County of Dare, NC  
**Water Fund**  
**Adopted Capital Improvements Plan for FY's 2017-2023**

#	Description	Source	Gross Project Amount	Fiscal Year Recommended	2017	2018	2019	2020	2021	2022	2023
<b>Funds available:</b>											
	Water Fund Capital Outlay				\$120,000	\$140,000	\$0	\$150,000	\$110,000	\$140,000	\$130,000
	NRO Membrane Reserve					275,000			130,000		
	Extension & Replacement Fund					110,000	900,000	3,700,000	0	0	1,300,000
	<b>Totals</b>				<b>\$120,000</b>	<b>\$525,000</b>	<b>\$900,000</b>	<b>\$3,850,000</b>	<b>\$240,000</b>	<b>\$140,000</b>	<b>\$1,430,000</b>

<b>Projects:</b>											
1	Avon Water Tower Painting & Maintenance	South Dist	\$120,000	2017	120,000						
2	RWS Water Tower Painting & Maintenance	South Dist	\$140,000	2018		140,000					
3	NRO RO Units #1, 2, & 3 Membrane Replacement	NRO WTP	\$275,000	2018		275,000					
4	CHP RO Units #1 & 2 Membrane Replacement	CH WTP	\$110,000	2018		110,000					
5	RWS RO Units #1 & #2 Membrane Replacement	RWS WTP	\$100,000	2019			100,000				
6	Buxton 110k Elevated Tank Replacement	South Dist	\$800,000	2019			800,000				
7	NRO Arsenic Media Replacement	NRO WTP	\$300,000	2020				300,000			
8	Southern Shores Water Tower Painting & Maintenance	North Dist	\$150,000	2020				150,000			
9	NRO Plant Expansion Units #1-3	NRO WTP	\$2,250,000	2020				2,250,000			
10	Skyco Nanofiltration Units #4 & 5	Skyco WTP	\$1,150,000	2020				1,150,000			
11	Stumpy Point Elevated Tower Painting & Maintenance	North Dist	\$110,000	2021					110,000		
12	NRO RO Units #4 & 5 Membrane Replacement	NRO WTP	\$130,000	2021					130,000		
13	Buxton 400k Tank Painting & Maintenance	South Dist	\$140,000	2022						140,000	
14	Hatteras 300k Tank Painting & Maintenance	South Dist	\$130,000	2023							130,000
15	CHP RO Raw Water Well	CH WTP	\$1,300,000	2023							1,300,000
16	Automated Meter Reading & Meter Replacement	Distribution	\$5,000,000	See Note							
	<b>Total expenditures</b>		<b>\$12,205,000</b>		<b>\$120,000</b>	<b>\$525,000</b>	<b>\$900,000</b>	<b>\$3,850,000</b>	<b>\$240,000</b>	<b>\$140,000</b>	<b>\$1,430,000</b>

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Actual/Projected Ending E&R Balance	\$11,054,110	\$10,437,718	\$10,107,327	\$11,313,182	\$12,112,517	\$12,399,493	\$9,886,616	\$11,018,912	\$12,505,806	\$13,982,700
Actual/Projected Total Fund Balances (Restricted, E&R and Surplus)	\$18,513,240	\$19,889,849	\$20,559,458	\$21,765,313	\$22,564,648	\$22,851,624	\$20,338,747	\$21,471,043	\$22,957,937	\$24,434,831
Actual/Projected Revenue Bond Coverage per Rate Model	1.59	1.98	1.70	1.70	1.70	1.70	1.70	1.74	1.77	
Actual/Projected Revenue Bond Coverage w/20% of Surplus per Rate Mo	2.88	3.70	3.57	3.37	3.44	3.49	3.42	3.39	3.42	

**Note:** Staff recommends that study begins on an automated meter reading system project which will replace all water meters, provide for electronic meter reading, and provide a web-based customer interface to the data. After consultation with other systems that have completed a similar project or are implementing a similar project, contracting for a project feasibility study to address feasibility, scope and structure is recommended.