

FY 2021-2026 CIP City Council Briefing

Roadways



March 31, 2020

David Jarman, P.E.

Roadways Overview

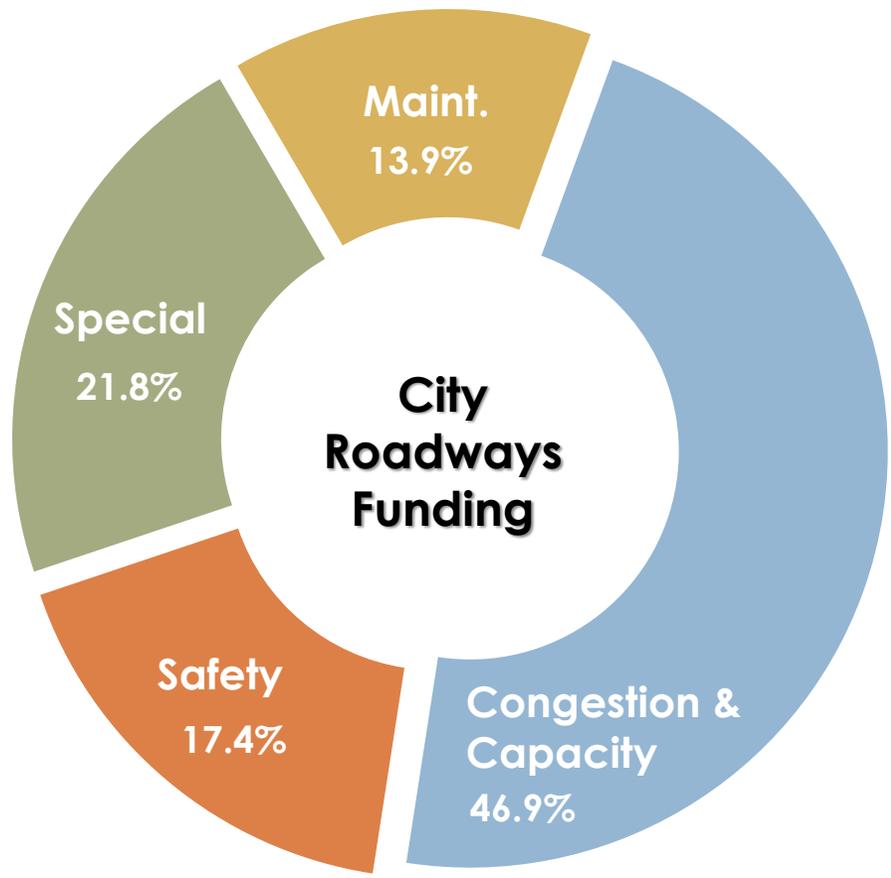
- I. CM Proposed Roadways FY 2021-2026 CIP Overview
 - City Funding Summary
 - Total Funding Summary
- II. Accomplishments
- III. Projects/Programs w/ No Changes
- IV. Projects/Programs Being Modified in the CM CIP
- V. New Projects/Programs in the CM CIP
- VI. Challenges



City Manager's Proposed FY2021-2026 Roadways CIP

I. Overview

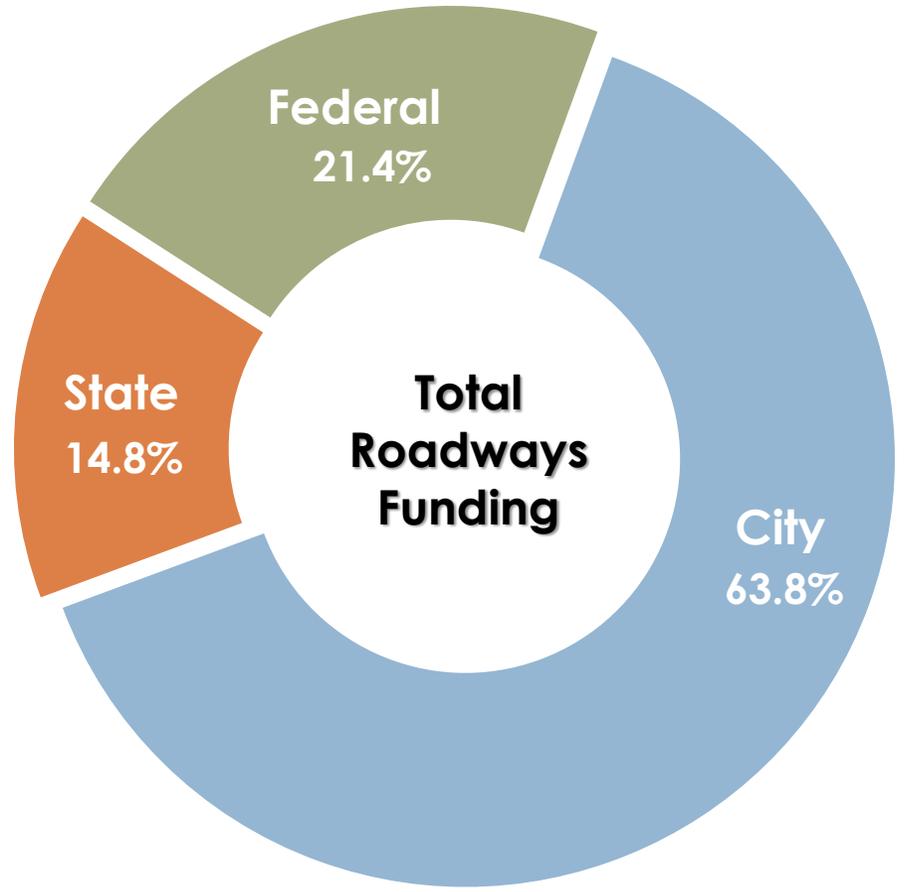
City Funding Summary



- Congestions Relief & Capacity Impr. - \$76.8 M (46.9%)
 - 26 Projects/Programs
- Safety Improvements - \$28.5 M (17.4%)
 - 12 Projects/Programs
- Special - \$35.7 M (21.8 %)
 - 14 Projects/Programs
- Maintenance - \$22.9 M (13.9%)
 - 4 Projects/Programs
- Bridge
 - 2 Projects/Programs – \$27.5M ATD Funding

Total City Roadways Funding in Years 1-6: \$163.9 M
58 Total Projects/Programs

Total Funding Summary



- City Funding Years 1-6: \$163.9 M (63.8%)
- State Funding Years 1-6: \$38 M (14.8%)
- Federal Funding Years 1-6: \$55 M (21.4%)

Total Funding Years 1-6: \$256.9 M

Total Roadways Program Cost: \$1.2 B

City Manager's Proposed FY2021-2026 Roadways CIP

II. Accomplishments

Projects In Construction

- **Bus Stop Infrastructure & Accessibility Improvements**
→ CIP 2-094, Annual Funding: \$250 K
- **Greenwich Rd Crossover / Cleveland St Imp. Phase II**
→ CIP 2-401, \$14.7 M
- **Indian River Road / Kempsville Road Improvements**
→ CIP 2-418, \$23.1M
- **Laskin Road Phase I-A**
→ CIP 2-126, \$56.5 M, VDOT Managed
- **Laskin Road Bridge Replacement**
→ CIP 2-040, \$86.0 M, VDOT Managed
- **Sandbridge Road Bridge Replacement**
→ CIP 2-416, \$7.8 M, 60% Complete
- **Princess Anne Road Phase VII**
→ CIP 2-195, \$33.6 M, 37% Complete
- **West Great Neck Road Sidewalk***
→ CIP 2-120, \$924 K
- **Witchduck Road Phase II**
→ CIP 2-025, \$59.3 M, 75% Complete



Princess Anne Rd Phase VII



Witchduck Rd Phase II

* Project Award Pending

Accomplishments

- **Major Bridge Rehabilitation II**
 - CIP 2-022, Annual Funding – \$1.46 M
 - Inspection & Rehabilitation of various bridges, culverts, and overpasses

- **Street Reconstruction II**
 - CIP 2-026, Annual Funding – \$2.15 M
 - Design and Reconstruction of one to three streets or intersections per year, as funding allows, that have reached the end of their service life and for which maintenance is not effective

- **Buccaneer Road Bulkhead Replacement**
 - CIP 2-130, Total Project Cost – \$4.5 M
 - Substantially Completed March 2020
 - Removal of 2,100 LF of existing aluminum bulkhead and replaced with coated steel sheet pile bulkhead with concrete cap



Mt. Trashmore Culvert



Buccaneer Rd Bulkhead Replacement

City Manager's Proposed FY2021-2026 Roadways CIP

III. Projects/Programs w/ No Changes

III. Roadways Projects w/ No Changes

Summary

Project	CIP #	Current Phase	Appropriated to Date	FY21	FY22 – FY26	Total	BTC
1. Dam Neck Rd/Holland Rd Intersection Improv.**	2-148	Design	0	0	2,190,000	2,190,000	0
2. Elbow Road Phase II-B*	2-152	Design	44,115,885	741,515	0	44,857,400	0
3. Elbow Road Phase II-C**	2-124	Design	500,000	0	24,334,137	24,834,137	0
4. First Colonial Rd/Va. Beach Blvd Intersection*	2-072	Design	30,913,201	0	0	30,913,201	0
5. General Booth Blvd/Camp Pendleton Intersec.*	2-154	Design	1,779,000	0	0	1,779,000	0
6. General Booth Blvd/Oceana Blvd Intersection*	2-162	Design	0	0	4,100,277	4,100,277	0
7. Greenwich Road Crossover/Cleveland Improv.	2-401	Construction	14,731,314	150,000	0	14,881,314	0
8. I-264/Independence Interchange Improvements	2-127	Study	500,000	0	0	500,000	289,250,000
9. Independence Blvd/Baxter Road Sidewalk*	2-112	Design	1,460,811	114,714	0	1,575,525	0
10. Indian River Rd/Kempsville Rd Intersection*	2-418	Construction	22,113,848	1,000,000	0	23,113,848	0
11. Indian River Rd Phase VII-A*	2-256	Design	42,391,306	6,208,877	7,778,317	56,378,500	0
12. Indian River Phase VII-B*	2-125	Design	860,000	2,168,400	9,860,000	12,888,400	0
13. Laskin Road Bridge Replacement*	2-040	Construction	19,598,078	0	0	19,598,078	0
14. Laskin Road Phase I-A*	2-126	Construction	22,686,961	0	0	22,686,961	0
15. Laskin Road Phase I-B	2-156	Design	2,278,981	0	0	2,278,981	29,921,019
16. Laskin Road Phase II*	2-165	Design	783,111	0	0	783,111	19,099,239
17. Nimmo Pkwy Phase II-A*	2-501	Design	527,261	4,000,000	0	4,527,261	0
18. Nimmo Pkwy Phase VII-B*	2-110	Design	3,656,477	0	16,883,569	20,540,046	23,173,454

III. Roadways Projects w/ No Changes (Cont'd)

Summary

Project	CIP #	Current Phase	Appropriated to Date	FY21	FY22 – FY26	Total	BTC
19. N. Great Neck/London Bridge/VB Blvd Inter.**	2-181	Design	0	0	2,157,100	2,157,100	0
20. Parliament Drive Sidewalk Phase II*	2-159	Design	966,353	0	0	966,353	0
21. Pleasure House Road Street Improv. Phase I	2-056	Design	0	150,000	1,106,446	1,256,446	0
22. Pleasure House Road Street Improv. Phase II	2-057	Design	350,000	357,376	2,281,624	2,989,000	0
23. Princess Anne Road Phase VII*	2-195	Construction	33,609,843	0	0	33,609,843	0
24. Princess Anne Road Phase VII-A	2-033	Design	350,000	0	0	350,000	8,393,979
25. Princess Anne Road/TCC Intersection Imp.	2-182	Design	0	250,000	1,245,000	1,495,000	0
26. Providence Road Sidewalk*	2-119	Design	971,450	127,550	0	1,099,000	0
27. Pungo Ferry Bridge Rehabilitation	2-131	Design	3,850,000	0	0	3,850,000	0
28. Rosemont Road Phase V*	2-038	Design	19,690,000	0	0	19,690,000	0
29. Sandbridge Road Bridge Replacement	2-416	Construction	7,887,467	0	0	7,887,467	0
30. Sandbridge Road – Nimmo VII-A*	2-078	Design	9,878,020	9,001,980	4,000,000	22,880,000	0
31. Sandbridge Rd/Nimmo VII-A Resiliency Study	2-188	Study	500,000	0	0	500,000	0
32. Shippo Corner Road Improvements	2-414	Design	2,779,050	0	0	2,779,050	0
33. Shore Drive Phase III*	2-117	Design	28,421,121	737,981	0	29,159,102	0
34. Upton Drive Extended/Dam Neck Station	2-047	Design	1,300,000	0	0	1,300,000	0
35. West Neck Road Phase IV*	2-088	Design	3,366,533	6,000,000	0	9,366,533	0

* Project partially State/Federal Funded

**Project 100% State/Federal Funded

III. Roadways On-going Programs w/ No Changes

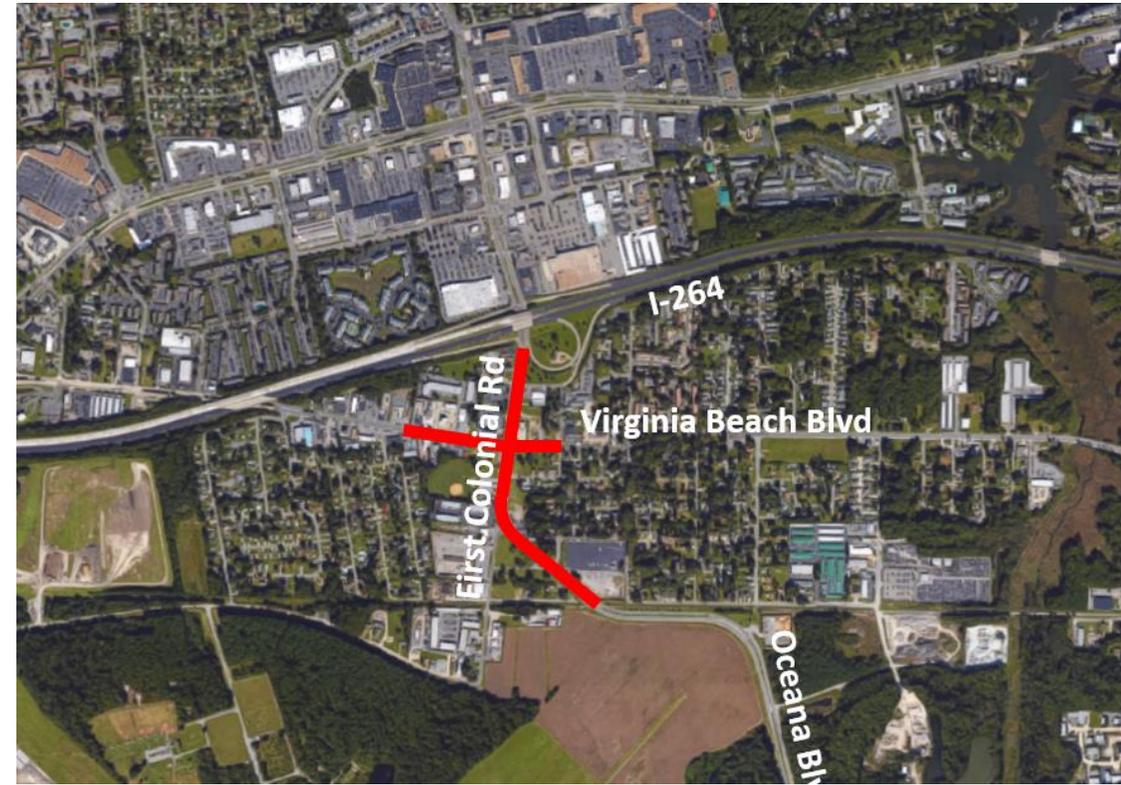
Summary

Project	CIP #	Appropriated to Date	FY21	FY22	FY23	FY24	FY25	FY26	Total
1. Bus Stop Infrastructure and Accessibility Improvements*	2-094	1,018,157	648,969	250,000	250,000	250,000	250,000	250,000	2,917,126
2. City Wide Street Lighting Improvements II	2-189	0	70,000	70,000	70,000	70,000	70,000	70,000	420,000
3. Rural Road Improvements II	2-024	1,304,424	250,000	250,000	250,000	250,000	250,000	250,000	2,804,424
4. Rural Road Recurring Flooding, SLR, & Resiliency	2-184	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,500,000
5. Street Reconstruction II*	2-026	15,050,000	2,150,000	2,150,000	2,150,000	2,150,000	2,150,000	2,150,000	27,950,000
6. Traffic Safety Improvements IV*	2-111	9,602,604	2,853,020	2,722,600	2,077,967	2,350,928	2,869,343	2,957,515	25,433,977
7. Various Cost Participation Projects II	2-027	250,000	25,000	25,000	25,000	25,000	25,000	25,000	400,000
8. Wetlands Mitigation Banking II	2-028	700,000	100,000	100,000	100,000	100,000	100,000	100,000	1,300,000

*Program partially State/Federal Funded

First Colonial Road & Virginia Beach Boulevard Intersection Improvements

- CIP 2-072
- Improvement of intersection including turn lanes and signalization upgrades
- Six-lane divided roadway from Oceana Blvd to I-264 overpass
- Utility Relocations – Overhead; Underground at intersection
- Design complete, acquisition complete
- Utility relocations 60% complete
- Construction start: 5/20

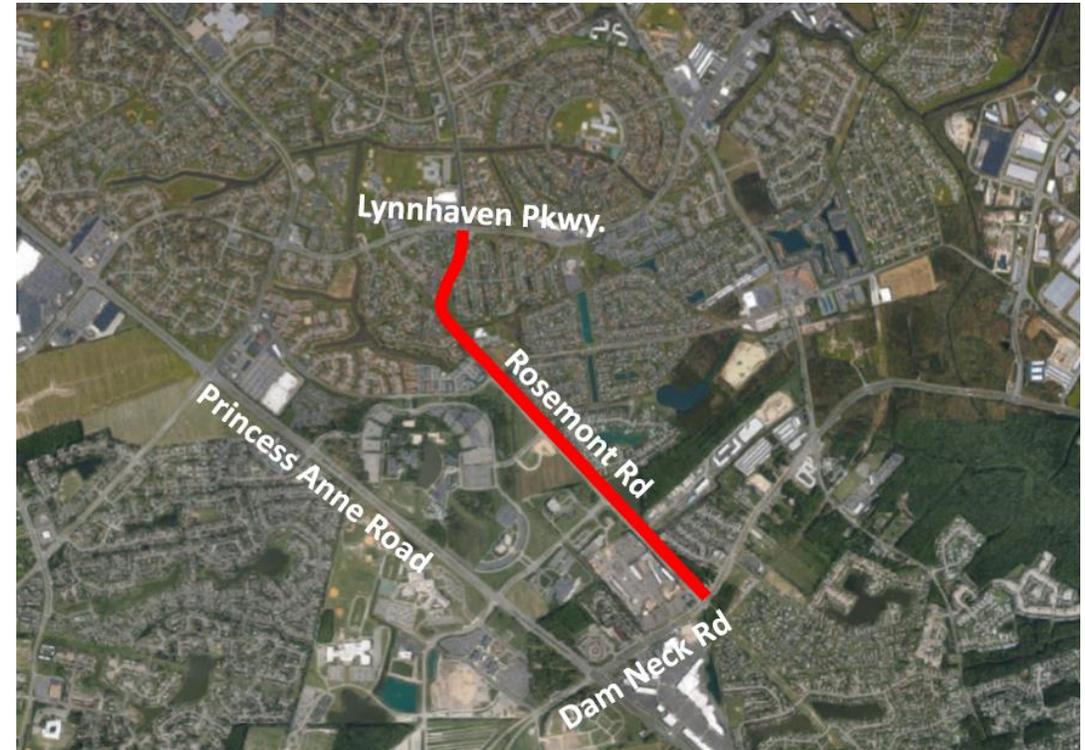


Total Project Cost: \$30.9 M

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
City Funding	20,913,201	-	-	-	-	-	-	20,913,201
State Funding	10,000,000	-	-	-	-	-	-	10,000,000
Total	30,913,201	-	-	-	-	-	-	30,913,201

Rosemont Road Phase V

- CIP 2-038
- Four-Lane divided roadway between Lynnhaven Parkway and Dam Neck Road
- Approximately 1.3 miles
- Reduce congestion, signal upgrades
- 10-ft wide Shared Use Path
- Design is 60% complete
- Stormwater Management Credits provided under CIP 2-050 Landstown Road Phase I
- Utility relocations – existing overhead to underground
- Construction start: 9/21



Total Project Cost: \$19.7 M

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
City Funding	10,690,000	-	-	-	-	-	-	10,690,000
State Funding	9,000,000	-	-	-	-	-	-	9,000,000
Total	19,690,000	-	-	-	-	-	-	19,690,000

Shore Drive Corridor Improvements Phase III

- CIP 2-117
- No capacity expansion – Retains four lanes from Vista Circle to N. Great Neck Road
- Improve safety and vehicular/ pedestrian traffic flow
- Includes drainage improvements, edge treatments, and multi-use path
- Currently at 100% design, acquisition is in progress
- Utility Relocations – overhead; undergrounding at signalized intersections
- Construction start: 8/21



Total Project Cost: \$29.1 M

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
City Funding	18,421,121	737,981	-	-	-	-	-	19,159,102
State Funding	10,000,000	-	-	-	-	-	-	10,000,000
Total	28,421,121	737,981	-	-	-	-	-	29,159,102

City Manager's Proposed FY2021-2026 Roadways CIP

IV. Projects Being Modified

Centerville Turnpike Phase II

- CIP 2-409
- Four-lane divided highway from Indian River Road to Kempsville Road
- Currently at 90% Design
- Cost increase reflects 90% estimate update
 - Refined storm water system design
 - Refined earthwork quantities
- Construction Start: 4/22
 - Reflects private utility design/relocation impacts
 - Reflects revised acquisition schedule



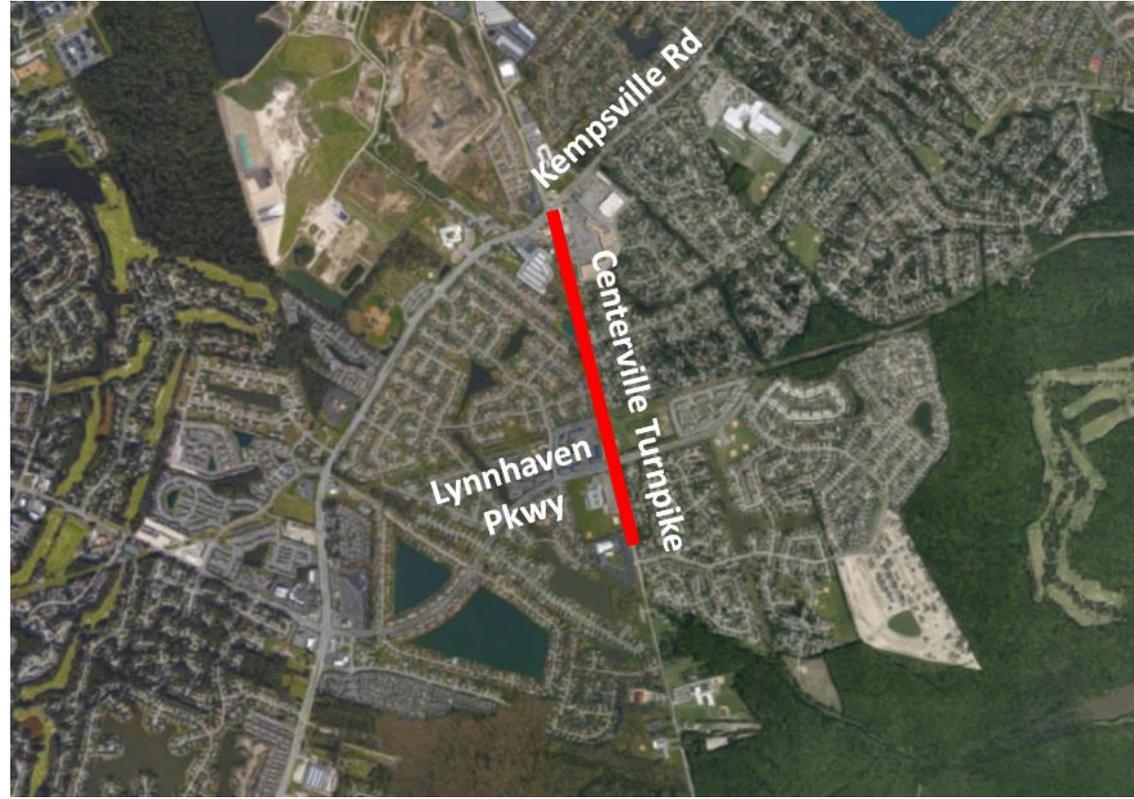
Funding modified to support building renovations

Total Project Cost: \$44.1 M

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	40,178,270	2,728,756	-	-	-	-	-	42,907,026
Change	2,389,326	(1,218,641)	-	-	-	-	-	1,170,685
FY 2021 Proposed	42,567,596	1,510,115	-	-	-	-	-	44,077,711

Centerville Turnpike Phase III

- CIP 2-419
- Four-lane divided highway from Kempsville Road to the Chesapeake City Line
- Currently at 60% Design
- Cost increase reflects 60% estimate update
 - Refined storm water system design
 - Refined pavement design
- Construction start: 11/23



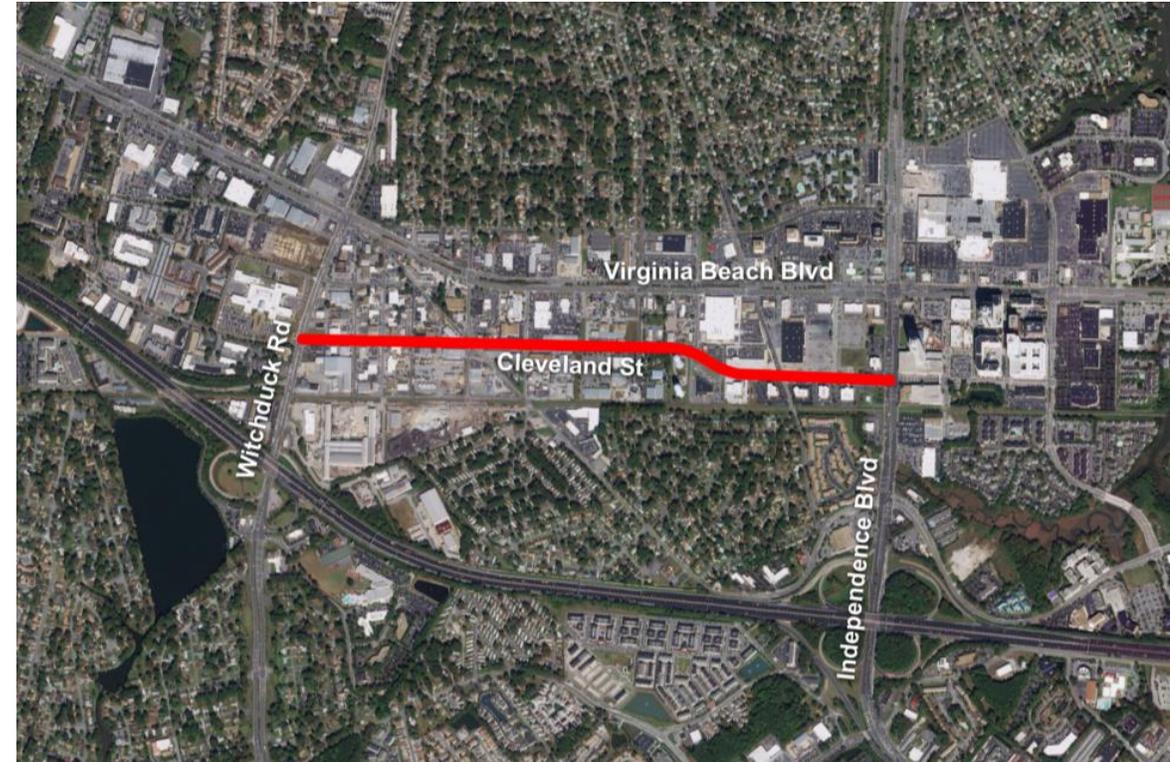
Funding modified to support building renovations

Total Project Cost: \$42.8 M

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	10,256,851	4,869,972	2,794,180	13,598,342	3,527,480	3,000,000	-	38,046,825
Change	4,706,536	(1,079,972)	-	-	1,155,477	-	-	4,782,041
FY 2021 Proposed	14,963,387	3,790,000	2,794,180	13,598,342	4,682,957	3,000,000	-	42,828,866

Cleveland Street Improvements Phase IV

- CIP 2-135
- Three-lane divided highway from Witchduck Road to Independence Boulevard
- SMART SCALE Project
- Reduced 4-lane section to a 3-lane section
- Right-of-way costs were increased to more accurately reflect anticipated impacts
- No schedule change



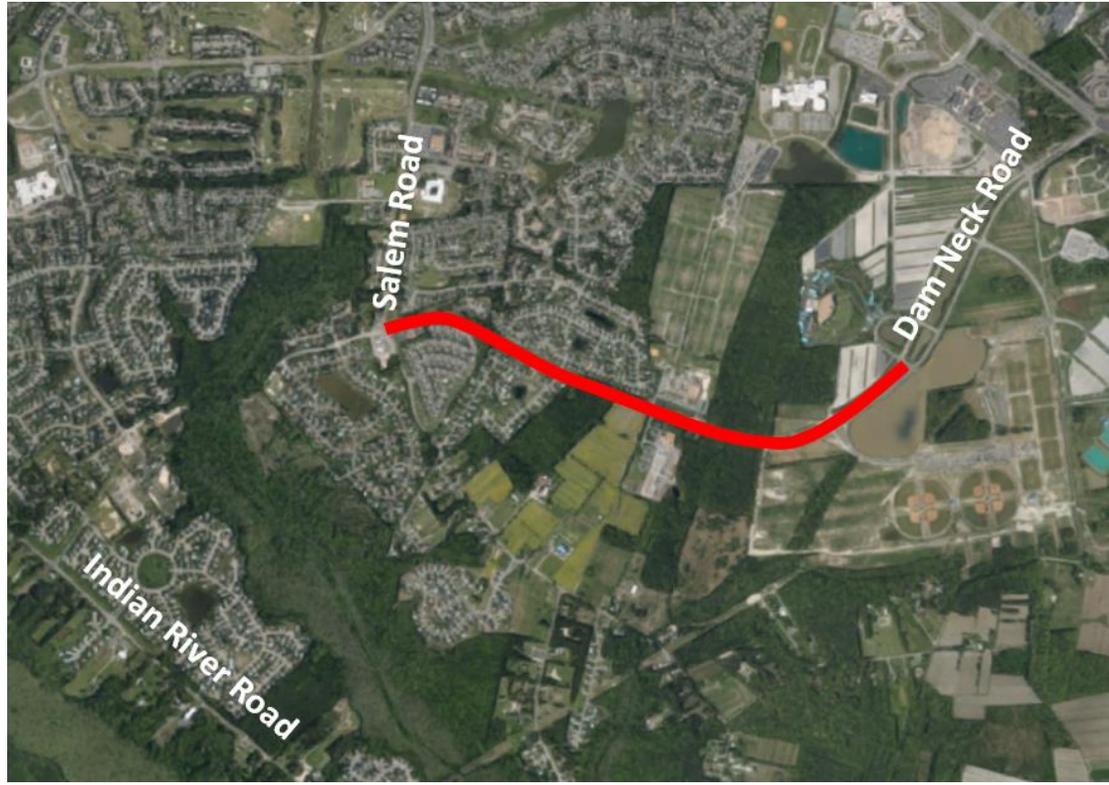
Total Project Cost: \$25 M

Funding modified to support building renovations

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	1,761,000	11,027,250	4,185,443	5,385,897	1,287,410	-	-	23,647,000
Change	11,027,250	(10,777,250)	(2,250,000)	(1,361,837)	3,601,837	1,160,000	-	1,400,000
FY 2021 Proposed	12,788,250	250,000	1,935,443	4,024,060	4,889,247	1,160,000	-	25,047,000

Elbow Road Phase II-D

- CIP 2-153
- Final two through lanes from Salem Road to the Virginia Beach Amphitheater
- 8-ft sidewalk
- 4-ft on-road bike lanes
- FY22 funds were moved to FY24
- Construction start: 7/25



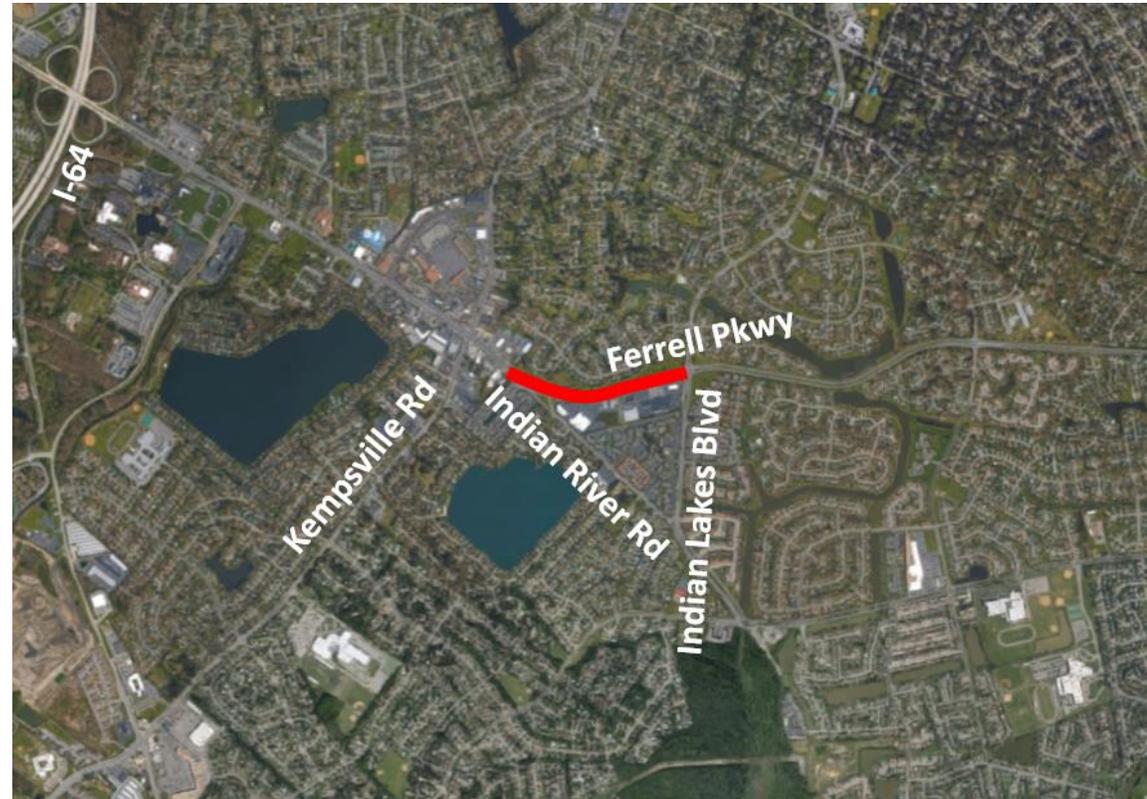
Funding modified to support building renovations

Total Project Cost: \$27.3 M

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	-	-	1,794,000	3,250,000	11,114,816	11,114,816	-	27,273,632
Change	-	-	(1,294,000)	-	138,523	(1,844,523)	3,000,000	-
FY 2021 Proposed	-	-	500,000	3,250,000	11,253,339	9,270,293	3,000,000	27,273,632

Ferrell Parkway

- CIP 2-054
- Additional westbound lane from Indian Lakes Blvd to Indian River Road
- New Mast Arm Signal
- Bike/Pedestrian Accommodations
- Construction start: 7/24



Total Project Cost: \$4.1 M

Funding modified to support building renovations

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	1,262,750	2,619,750	250,000	-	-	-	-	4,132,500
Change	359,403	(359,403)	-	-	-	-	-	-
FY 2021 Proposed	1,622,153	2,260,347	250,000	-	-	-	-	4,132,500

Landstown Road Improvements Phase I

- CIP 2-050
- Widen Landstown Road to four-lane undivided, from Sportsplex Drive to the bend
- Design complete, utility relocations in progress
- FY21 funding moved to FY26
- Construction start: 7/25



Total Project Cost: \$10.2 M

**Funding modified to support building renovations
Schedule affected**

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	8,951,014	-	-	-	-	-	-	8,951,014
Change	(5,712,090)	1,218,641	-	-	-	-	5,712,090	1,218,641
FY 2021 Proposed	3,328,924	1,218,641	-	-	-	-	5,712,090	10,169,655

Newtown Road/Baker Road Intersection Improvements

- CIP 2-037
- Additional turn lanes to improve safety and reduce congestion
- FY 21 funds were moved to FY23
- Construction start: 2/26



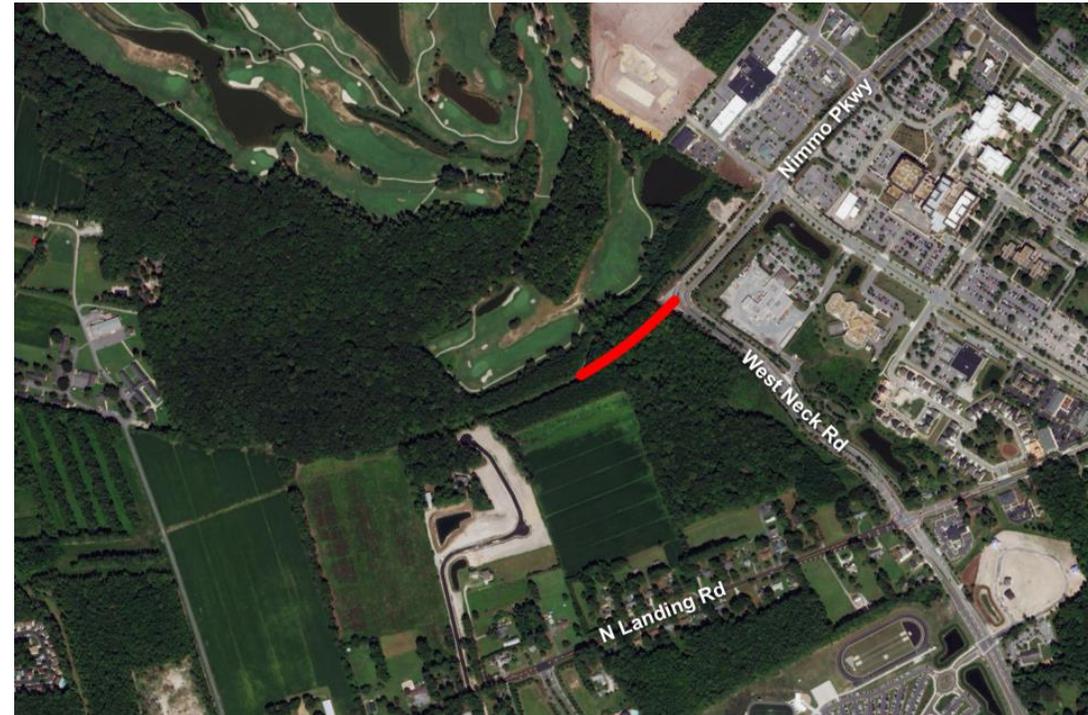
Total Project Cost: \$1 M

Funding modified to support building renovations
Schedule affected

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	-	350,000	-	672,500	-	-	-	1,022,500
Change	-	(350,000)	-	350,000	-	-	-	-
FY 2021 Proposed	-	-	-	1,022,500	-	-	-	1,022,500

Nimmo Parkway Phase II-A

- CIP 2-501
- Two-lane Undivided Roadway from West Neck Road to the Veteran’s Care Center Entrance
- Roundabout at intersection of Nimmo Parkway and West Neck Road
- 700 linear feet
- Construction start: 5/20
- *\$4M in FY21 is State Funding*



Total Project Cost: \$4.5 M

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	4,527,261	-	-	-	-	-	-	4,527,261
Change	(4,000,000)	4,000,000	-	-	-	-	-	-
FY 2021 Proposed	527,261	4,000,000	-	-	-	-	-	4,527,261

Shore Drive Phase IV

- CIP 2-118
- Four lanes from Marlin Bay Drive to East Stratford Road—no capacity expansion
- Design is being re-initiated
- FY21 funds were moved to FY24
- No change to the construction start date: 3/24



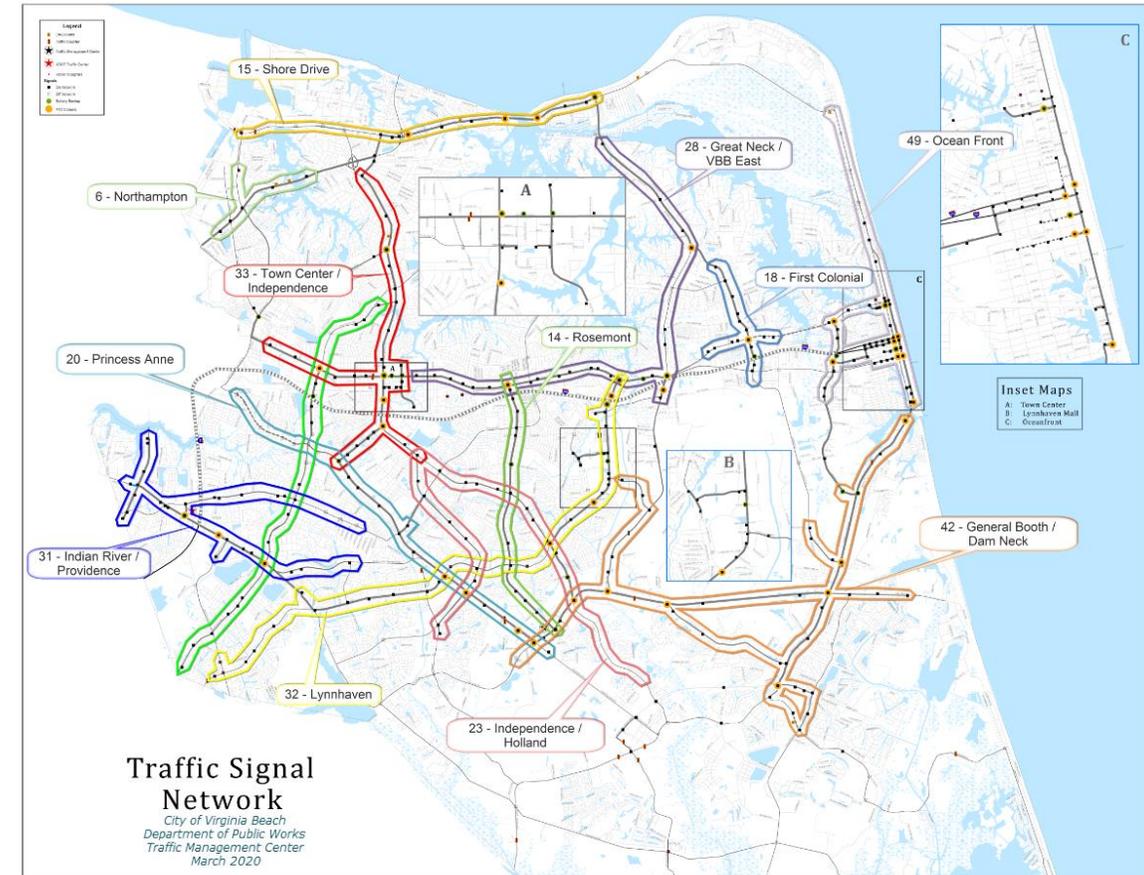
Total Project Cost: \$15.5 M

Funding modified to support building renovations

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	2,025,076	4,562,646	2,602,660	4,353,513	1,000,000	-	-	14,543,895
Change	-	(4,562,646)	(10,000)	(10,000)	4,908,123	674,523	-	1,000,000
FY 2021 Proposed	2,025,076	-	2,592,660	4,343,513	5,908,123	674,523	-	15,543,895

Traffic Signal Retiming II

- CIP 2-155
- Additional funding will be used to perform traffic signal retiming along major corridors throughout the City.
 - Indian River corridor (includes Indian River/Kempsville intersection)
 - Dam Neck Rd, Princess Anne Rd, Nimmo Pkwy, Upton Dr, Lynnhaven Pkwy, Independence Blvd, Northampton Blvd, Shore Dr, Great Neck Rd, Va. Beach Blvd
- This will reduce delay & travel time and increase traffic safety along major arterial roadways throughout the City
- CMAQ application pending, FY26-27 funding



	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	-	-	911,180	-	-	-	-	911,180
Change	-	150,000	150,000	150,000	150,000	150,000	150,000	900,000
FY 2021 Proposed	-	150,000	1,061,180	150,000	150,000	150,000	150,000	1,811,180

West Neck Road Phase IV

- CIP 2-088
- Two-lane undivided parkway from Kellam High School to King’s Landing Development entrance
- Cost participation with the King’s Landing Developer
- Approximately 1.1 miles
- Paved shoulders for cyclists
- Shared-Use Path
- Improve safety
- Construction start: 10/20
- *\$6M in FY21 is State Funding*



Total Project Cost: \$9.4 M

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
FY 2020 Adopted	8,966,533	400,000	-	-	-	-	-	9,366,533
Change	(6,000,000)	6,000,000	-	-	-	-	-	-
FY 2021 Proposed	2,966,533	6,400,000	-	-	-	-	-	9,366,533

City Manager's Proposed FY2021-2026 Roadways CIP

V. New Projects

Pungo Ferry Road Improvements (Recurring Flooding)

- CIP 2-170
- Raise Pungo Ferry Road from Blackwater Road to the west side of the Pungo Ferry Road Bridge approach
- 2 miles
- Minimize Recurring Flooding and Address Sea Level Rise
- Result of Rural Road Recurring Flooding Analysis



Total Project Cost: \$11.5 M

BTC: \$4.3 M

	Appropriated to Date	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	Total
City Funding	-	-	-	-	720,000	500,000	5,980,000	7,200,000

VI. Roadways Challenges

Summary

- **Funding**
 - State/Federal Grants continue to be a significant source of funding for the program
 - City funding is vital to leverage grant funding

- **Franchise Utility Impacts**
 - Resource limitations are causing significant delays in both design and construction

- **Right-of-Way Acquisitions**
 - Acquisition is taking longer

- **Environmental Permitting**
 - Reviews are taking longer



Next: Coastal – Dan Adams, P.E.

