


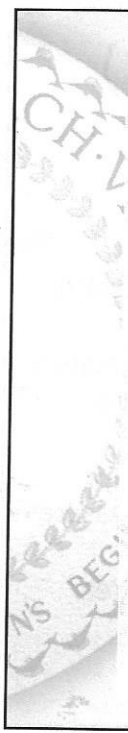
Bayfront Advisory Briefing



Public Works

August 2016

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Projects

- Storm Water
 - Eastern Shore Drive Drainage - CIP 7-151
 - Citywide Sea Level Rise (SLR)/Recurrent Flooding (RF) Analysis 7-030
- Coastal
 - Lynnhaven Inlet Maintenance Dredging II CIP 8-013
 - Various Minor Dredging Projects II CIP 8-011
 - Cape Henry Beach Truck Haul
 - Chesapeake Beach Restoration CIP 8-409
 - Pleasure House Point Mitigation CIP 8-408
- Roadways
 - Lesner Bridge Replacement CIP 2-168
 - Pleasure House Road Street Improvements – Phase I CIP 2-056
 - Pleasure House Road Street Improvements – Phase II CIP 2-057
 - Shore Drive Corridor Improvements – Phase III CIP 2-117
 - Greenwell Drive Sidewalk CIP 2-300.016
 - Kendall Street Sidewalk CIP 2-057
 - Shore Drive Bike Facility CIP 4-064.005
 - Shore Drive Corridor Improvements – Phase IV CIP 2-118
 - Shore Drive & East Stratford Intersection Improvements CIP 2-300.119

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Eastern Shore Drive Drainage - CIP 7-151

- Drainage study completed July 2012 – June 2014
- Interim Project- Under construction. Estimated Completion – Dec. 2016
Phases I and II design underway, Phases I and II construction not funded
- Phases III and IV not funded



Programed Funding : \$18.9M
Future Funding: \$57.5M



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Citywide Sea Level Rise (SLR) / Recurrent Flooding (RF) Analysis 7-030



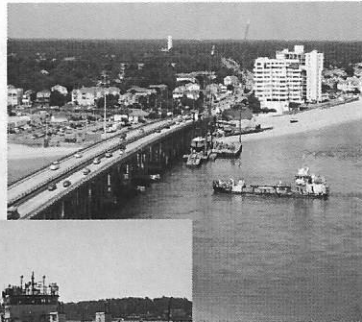
Total Project Cost: \$3.0M

- Identify the probable extent of SLR / RF impacts
- Evaluate appropriate adaptation strategies in the vulnerable areas
- Identify budgetary costs for engineered protection measures and other adaptation
- Second Year of a Three Year Project

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Lynnhaven Inlet Maintenance Dredging II CIP 8-013

- Periodic maintenance dredging of Lynnhaven Inlet and connecting waterways
- Cost participation with U.S. Army Corp of Engineers
- Last full channel dredging completed December 2013
- Minor dredging completed August 2016 where approximately 27,450 CY were placed on Ocean Park Beach
- Next major dredging late 2018 subject to Federal funding



Annual Project Cost:
\$300,000

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Various Minor Dredging Projects II CIP 8-011

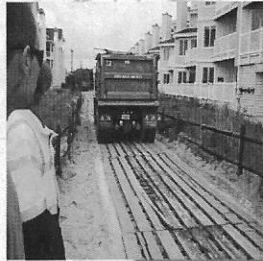


- Dredging of navigational channels in various internal waterways located throughout the City
- Crab Creek and portions of Long Creek dredged in February 2016
- Next Crab Creek dredging cycle is scheduled for late October 2016

Annual Project Cost: \$325,000

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Cape Henry Beach Truck Haul



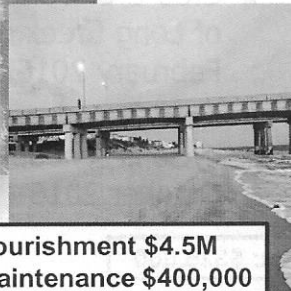
- In May 2016 approximately 32,545 CY of beach quality sand was truck hauled from Lynnhaven Inlet DMMA to western portion of Cape Henry Beach
- The beach placement area extended from just west of the Lynnhaven Fishing Pier to approximately the Harbor Gate Condominiums.



Total Project Cost: \$400,000

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Chesapeake Beach Restoration CIP 8-409



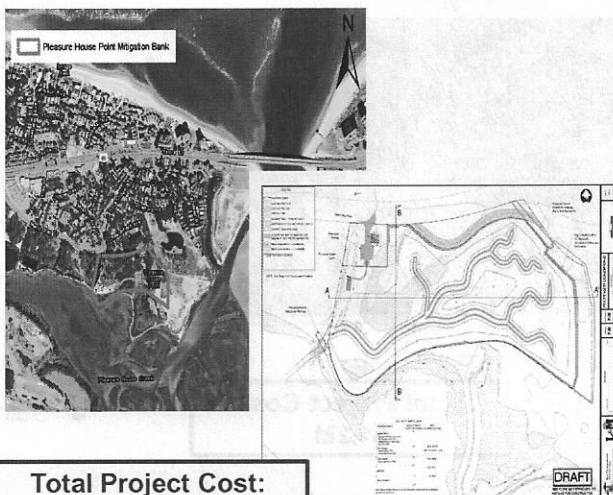
**Initial Nourishment \$4.5M
Periodic Maintenance \$400,000**

- Major beach restoration project proposed with periodic maintenance from Little Creek Base to Baylake Beach
- VIMS sand search completed
- Recommended beach templates developed
- Finalizing Design Report
- Significant real estate issues resolved earlier this summer favorable court ruling that the beach is public
- Additional Funding Required for Construction
- Schedule is TBD subject to permitting and appropriations
- Initial placement could begin in early 2018

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Pleasure House Point Mitigation CIP 8-408

- Development of a wetlands mitigation facility on City owned property
- Mitigation Banking Instrument (MBI) Under Development
- Potential use for Neighborhood Dredging SSD and other City projects
- Construction Start TBD Pending Approval of MBI



Total Project Cost:
\$3.02M

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Lesner Bridge Replacement CIP 2-168

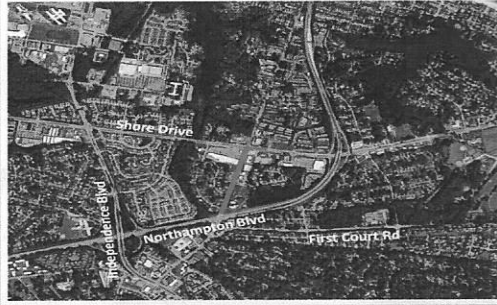


- Started Construction – June 2014
- Approximately 53% Complete
- Complete Construction – January 2018

Total Project Cost:
\$119.5M

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Pleasure House Road Street Improvements – Phase I CIP 2-056



Total Project Cost:
\$1.2M

- Street and Safety Improvements from Northampton Blvd to Shore Drive
- New Curb and Gutter
- Pavement Rehabilitation
- Storm Drainage
- Bike Accommodations
- Concrete Sidewalk
- Start Design – July 2020

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Pleasure House Road Street Improvements – Phase II CIP 2-057



Total Project Cost:
\$2.9M

- Street and Safety Improvements from Shore Drive to Lookout Road
- Pavement Rehabilitation
- Storm Drainage
- Bike Accommodations
- Concrete Sidewalk
- Start Design – July 2019

*INCLUDING
SIDEWALK*

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Shore Drive Corridor Improvements– Phase III CIP 2-117



Total Project Cost:
\$16.6M

- No Capacity Expansion – Retains 4 Lanes from Vista Circle to North Great Neck Road
- Includes Safety Improvements, Edge Treatments, and Shared-Use Paths
- Currently at 60% Design
- Utility Relocations – Overhead; Undergrounding at Signalized Intersections
- Start Construction – May 2018
- Complete Construction – May 2020

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Greenwell Drive Sidewalk CIP 2-300.016



Total Project Cost:
\$467,000

- Includes Safety Improvements, Edge Treatments, and Shared-Use Paths
- Currently ready to advertise for construction.
- Utility Relocations – Ongoing
- Start Construction – October 2016
- Complete Construction – January 2017

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Kendall Street Sidewalk CIP 2-300.005



- Includes Safety Improvements, Concrete Sidewalk and ADA Ramps.
- Currently at 60% Design
- Start Construction – February 2017
- Complete Construction – May 2017

Total Project Cost:
\$414,000

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Shore Drive Bike Facility CIP 4-064.005



- Includes Safety Improvements, Pave Shoulder, Milling and Paving, Extending Turn Lanes at Shore Drive and Helicopter Road, and Adding a Left Turn Lane at Shore Drive and Jack Frost Road.
- Utility Relocations – Completed February 2015
- Start Construction – May 2016
- Complete Construction – December 2016

Total Project Cost:
\$4.7M

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Shore Drive & East Stratford Rd Intersection Improvements CIP 2-300.119

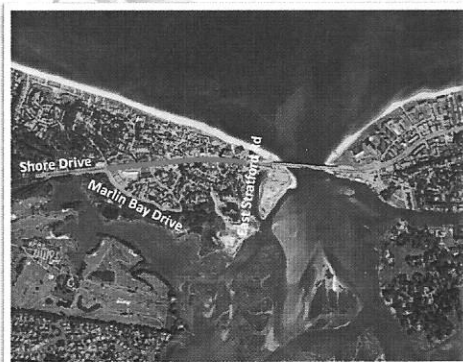


- Includes a New Signal, Pedestrian Crosswalks, & Pedestrian Crossing Signals
- Utility Relocations – September 2016
- Start Construction – January 2017
- Complete Construction – May 2017

Total Project Cost:
\$530,250

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Shore Drive Corridor Improvements – Phase IV CIP 2-118



- No Capacity Expansion – Retains 4 Lanes from Marlin Bay Drive to East Stratford Road
- Includes Safety Improvements, Edge Treatments, and Shared-Use Paths
- Currently at 30% Design

Total Project Cost:
\$12.8M

BTC: \$12M

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