



HAMPTON ROADS
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TDCHR Work Session August 24, 2023

12:00-1:00pm
2nd floor Boardroom
509 E. 18th Street, Norfolk

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Agenda

- Transit Strategic Plan (TSP)
- Capital Improvement Plan (CIP)
 - Light Rail
 - Safety and Security
- Wrap Up



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Transit Strategic Plan (TSP)

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10-Year Transit Strategic Plan (TSP)

- Mandated by state law
- 10-year planning horizon
- A “living document” updated annually and Major Update every 5 years
 - June 2020 TSP was the first 10-year plan
 - HRT has updated the document annually for the last three years (most recent adopted in December 2022)
 - This year we will prepare our 4th annual update (minor) and bring that forward for adoption in December 2023

TSP Chapters Overview

CHAPTER 1

**System Overview and
Strategic Vision**

CHAPTER 2

**System Performance and
Operations Analysis**

CHAPTER 3

**Planned Improvements
and Modifications**

CHAPTER 4

Implementation Plan

CHAPTER 5

Financial Plan

CHAPTER 6

**Hampton Roads Regional
Transit Program**

TSP Appendices Overview



10-Year Transit Strategic Plan (TSP)

- TSP Major Update will commence later this calendar year
- Ideal time to examine performance of entire transit network outside of the RTS routes:
 - 13 Regional Backbone routes
 - 9 MAX Routes
 - 5 PCS routes
- There are 44 other “local”/coverage routes
 - Examine route performance in terms of ridership, coverage and operator resource needs
 - Develop a System Optimization Plan



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HRT System Optimization Plan

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System Optimization Plan - Goals

- Reverse / mitigate trends of ridership loss
- Improve service performance / efficiency
- Ensure fiscal sustainability
- Address changing travel market demands
 - Examine how Microtransit fits into the revised transit network
 - Develop a deployment plan for future Microtransit services
- Improve service quality
- Remain competitive

System Optimization Plan

- Value employee health, safety and well-being
 - Improving service network alignment to bus operator availability
- “Equity” is a priority for any service adjustments
 - Post pandemic customer base needs to receive dependable service
 - Title VI will guide any recommended service adjustments
- Understand post pandemic ridership trends
 - O & D survey results
- Look at historic underperforming routes
 - Balance ‘resource availability’ with integrity of transit network



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Capital Improvement Plan (CIP)

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Planned Work Session Topics

- **Today** – Safety and Security, Light Rail
- September 28 (Hampton) – Facilities, Electrification, Technology
- October 26 (Norfolk) – Operations (Fleet Plan), Complete Draft FY25-34 CIP
- December 14 (Norfolk) – CIP Adoption vote

Safety and Security

- The safety of HRT's customers and employees drives everything we do. Safety/security assets are essential to:
 - Ensure our vehicles and assets are properly monitored
 - Secure our facilities
 - Allow security officers to better respond to threats
 - Protect the public and employees
- Many of HRT's safety and security needs are technology related.
 - For example, cameras, card readers, software systems
 - Ongoing maintenance and upgrades required for systems to remain in working order and protected from threats

Safety and Security Capital Projects by the Numbers



15

Projects



\$19.8 million

in capital needs (current year dollars) from FY2025 to FY2034

August 2023 *Draft; capital project information subject to updating.*

Unconstrained Projects List

UID	Project Name	Cost (\$ thousands)
SS01	Upgrade the Video Recording Equipment for Buses	\$6,440
SS02	Light Rail Video Recording Equipment	\$244
SS15	Enterprise Video Surveillance System Upgrade	\$1,224
SS16	Enterprise Access Control System Upgrade	\$2,180
SS17	Safety Management System	\$927
SS19	Mobile Telescoping and Surveillance Tower	\$680
SS21	Rail System Surveillance Enhancement	\$2,838
SS22	Emergency Alert Beacons, Sirens, and Strobes	\$532
SS24	Operator Safety Barrier Installation	\$1,442
SS25	Fall Protection System for Southside and Northside Bus Garages	\$532
SS27	Intrusion Detection Systems	\$250
SS31	Blast Resistant Trash Receptacle and Bollard Project	\$1,968
SS34	Enterprise Lock and Lever State of Good Repair	\$250
SS35	Hardening Perimeter Security of NTF Generator	\$150
SS36	Partner Radio Network	\$150
	Total	\$19,806

August 2023 *Draft; capital project information subject to updating.*

Operator Safety Barrier Installation

- This project would allow HRT to procure and install 155 hardened operator barriers on its buses.
- The barriers help reduce the risk of assault on bus operators while performing their job duties.



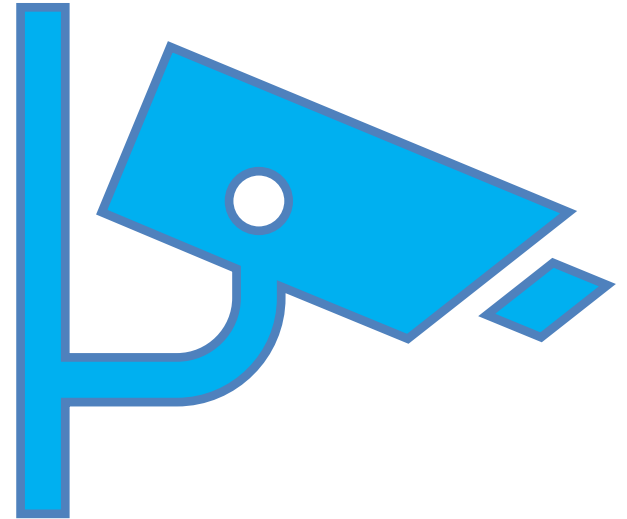
Fall Protection System (Northside and Southside Bus Garages)

- This project procures and installs fall protection systems at HRT's bus maintenance facilities.
- These systems reduce risk of occupational injuries for HRT's maintenance staff and contractors and mitigate the dangers of performing maintenance from elevated positions in the shop and on vehicles.



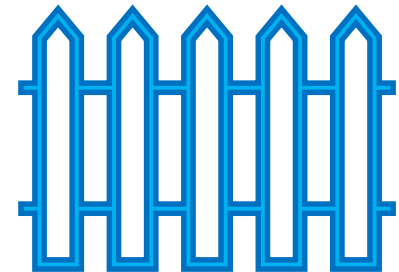
Rail System Surveillance Equipment

- This project would allow HRT to procure and install approximately 80 additional surveillance cameras along the rail alignment.
- Surveillance capabilities allow for active and effective system monitoring, reduce risk, and serve as a tool for incident management and response.



Hardening Perimeter Security of NTF Generator

- Project was initiated as a result of the CY2022 Light Rail Emergency Exercise.
- Protecting the site generator provides for a more secure and reliable continuity of operations asset.
- “Hardening” security infrastructure for critical assets is best practice and promotes resilience.



Light Rail

- The Tide Light Rail is HRT's second-most ridden mode.
- HRT maintains and manages 7.4 miles of rail guideway, 11 stations, and 9 train cars.
- Agency wrapping up an update to its 30-year LRT state-of-good repair plan during this CIP.

Light Rail Capital Projects by the Numbers



16

Projects



\$87.6 million

in capital needs (current year dollars) from FY2025 to FY2034

August 2023 *Draft; capital project information subject to updating.*

Unconstrained Projects List

UID	Project Name	Cost (\$ thousands)
IT29	Light Rail APC System Fixed-Side Hardware/Software	\$229
LR01	Light Rail Right-of-Way State of Good Repair	\$27,557
LR02	Light Rail Vehicle State of Good Repair	\$22,458
LR04	Light Rail Station Upgrades	\$5,981
LR05	Light Rail Cab Signaling Study	\$100
LR06	Tide Supervisory Control and Data Acquisition (SCADA)	\$5,018
LR48	Light Rail Facilities State of Good Repair	\$4,499
LR50	Light Rail Aerial Structures	\$9,515
LR52	Passenger Facility and Grade Crossing Lighting Improvements	\$300
LR53	NSU Platform and Stairs Rehabilitation	\$1,010
LR54	Light Rail Crossing Repair/Replacement Design	\$1,525
LR55	Conduit Signal Upgrades	\$120
LR56	Light Rail Fare Collection State of Good Repair	\$5,086
LR57	Light Rail Shop Equipment Renewal	\$2,594
LR48	Tide Light Rail Climate Resiliency Study	\$750
LR59	Military Highway Park and Ride Pedestrian Access Improvements	\$900
	Total	\$87,642

August 2023 *Draft; capital project information subject to updating.*

Light Rail Right-of-Way State of Good Repair

- Replace infrastructure along The Tide LRT such as tracks, ballast, trackside structures, and power systems.
- Ensures ongoing reliable operations.



Light Rail Vehicle State of Good Repair

- Project funds the maintenance of HRT's light rail vehicles, including rehabilitation and upkeep of:
 - Suspension
 - Body
 - Brakes
 - Powertrain
 - Interior
- Mid-life overhauls of the light rail vehicles keep the agency on track with its 30-year Light Rail State of Good Repair plan.



Light Rail Vehicle State of Good Repair





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Wrap Up

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Next Steps

- Meetings with City staff: Local TSPs, Transit Strategic Plan, Local priorities, key issues
- Work sessions and Updates: September-October
- Board vote on CIP and TSP updates: December