Greater RVA Transit Vision Plan: Near-Term Strategic Technical Analysis

Community Transportation Advisory Committee
November 19, 2020
Study Purpose

- Build upon the Greater RVA Transit Vision Plan (2017) and recent transit improvements in the Richmond Region

- Identify recommendations for high-frequency routes that can be implemented in the near-term to advance toward the region’s long-term vision
Analysis Methodology

- Activity Density
- Employment & Working Populations
- Environmental Justice & Transit-Dependent Populations
- Existing Network Layout
- Near-Term Development
- Rider Feedback
- Steering Committee Feedback

Initial Screening

Detailed Analysis
- Community Facilities
- Pedestrian Network and Connectivity
- Roadway Suitability
- Potential Ridership

Implementation Feasibility
- Service Plan Options
- O&M Cost Estimates
- Capital Cost Estimates
- Corridor Benefits
- Funding Resources
Study Corridors

Legend

- Orange: Initial Screening Corridors
- Red: Detailed Analysis Corridors
- Purple: Implementation Feasibility Corridors
Corridors Selected for Implementation Feasibility

Legend

- Corridors Selected for Implementation Feasibility

A. Broad Street – Short Pump
   (Willow Lawn to Bon Secours Short Pump)

D. Midlothian Turnpike
   (Downtown Richmond to Huguenot Road)

E. West End South
   (Downtown Richmond to Regency Square)

F. Airport via Route 60
   (Downtown Richmond to Richmond Airport)

H. Route 1 North
   (Downtown Richmond to Parham Road)
Corridor Service Plan Assumptions

- Seven day a week service for all corridors
- Proposed corridor routes build on current network
- Ultimate recommended service changes subject to GRTC approval and funding
- Annual Operations & Maintenance costs estimated using current GRTC cost per service mile of $7.63
## Range of Capital Costs

<table>
<thead>
<tr>
<th>Corridor</th>
<th>Low</th>
<th>High</th>
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<tbody>
<tr>
<td>D. Midlothian Turnpike</td>
<td>$2,740,000</td>
<td>$40,510,000</td>
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<tr>
<td>F. Airport via Route 60</td>
<td>$1,870,000</td>
<td>$24,090,000</td>
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<tr>
<td>H. Route 1 North</td>
<td>$2,190,000</td>
<td>$15,910,000</td>
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<td><strong>Total</strong></td>
<td><strong>$6,800,000</strong></td>
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## Range of Operating Costs

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<thead>
<tr>
<th>Corridor</th>
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<tbody>
<tr>
<td>D. Midlothian Turnpike</td>
<td>$2,274,000</td>
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<td>F. Airport via Route 60</td>
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<td>H. Route 1 North</td>
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<td><strong>Total</strong></td>
<td><strong>$5,196,000</strong></td>
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Most Viable Corridors for Near-Term Implementation

- **D. Midlothian Turnpike**
  (Downtown Richmond to Huguenot Road)

- **F. Airport via Route 60**
  (Downtown Richmond to Richmond Airport)

- **H. Route 1 North**
  (Downtown Richmond to Parham Road)

Legend

- **Midlothian Turnpike (D)**
- **Route 1 North (H)**
- **GRTC Route 7 (F)**
Implementation Activities

- Secure Funding
  - Planning/Design funds
  - Capital funds
  - Operations & Maintenance funds
- Corridor Planning (with localities & CVTA)
  - Identification of bus stop locations
  - Prioritization of sidewalk and intersection improvements
  - Identification of technology improvements
  - Refinement of service schedule
  - Coordination of service between proposed corridor and existing routes
- Procure Vehicles
- Design and Construct Improvements
- Operate Service

Improvements throughout the corridor will need to be coordinated across jurisdictions.
Requested Action

The following resolution was adopted by the RRTPO Policy Board on September 3, 2020:

RESOLVED, that the Richmond Regional Transportation Planning Organization (RRTPO) adopts the proposed plan for the Regional Transit Vision Plan Near-Term Strategic Technical Analysis of five corridor segments considered for enhanced transit in the near-term planning horizon (five to seven years).
Greater RVA Transit Vision Plan
Near-Term Strategic Technical Analysis