Connect
RVA 2045

Constrained List of Projects

RRTPPO Policy Board Meeting
July 1, 2021

Presentation by:
Sulabh Aryal, AICP
Transportation Planning Manager
RESOLVED, that the RRTPO Policy Board approves the draft ‘Constrained List of Projects’ for the ConnectRVA 2045 Long-Range Transportation Plan as presented by staff.

FURTHER RESOLVED, that the RRTPO Policy Board approves the Constrained List of Projects in the ConnectRVA 2045 Long-Range Transportation Plan and ungrouped projects of FY21-24 Transportation Improvement Plan (TIP) as RRTPO projects for air quality conformity analysis as required by federal regulations (23 CFR § 450.326) and authorizes the Technical Advisory Committee (TAC) to review the draft regional conformity report and open the public review and comment period as needed.
Phase 4: Programming

Objective – Develop the Fiscally Constrained List of Regionally Significant Transportation Projects

Fiscal Constraint - Comparison of Revenues and Cost and Demonstration of sufficient revenues to

1. Operate and Maintain the Existing Transportation System
2. Fund Local Projects/Priorities
3. Implement proposed Transportation System Improvements - Universe of Projects – If funds are not sufficient – **Prioritize**
Constrained Plan Development Process

1. Universe of Projects
2. Project Scoring and Evaluation Process
3. Score and Rank Projects
4. Draft Constrained List of Projects
5. Public Review and Comments
6. Project Champions Review
7. Staff Recommended Constrained List of Projects
8. Revenue Projections
9. Total Funds Available
10. Constrained Budget
Project Scoring and Evaluation Process

• Scoring process comply with Performance-Based Planning and Programming (PBPP) as required by Federal regulations.
• Data Driven, Transparent and Understandable process which leaves no room for personal judgement or subjective nature of scoring.
• Score in not based on better project description or the severity of the current condition but the actual merit/performance of the project implementation.
• Fair for all regions (Urban, Sub-Urban, Rural) and modes of transportation.
• Relative scoring with a cost-benefit element.
• Each project evaluated by 15 performance measures which accessed the degree to which any project implementation will advance the Policy Board approved Vision, Goals and Objectives.
• Vetted by the LRTP-AC.
# Project Scoring and Evaluation Process

## ConnectRVA 2045

<table>
<thead>
<tr>
<th>Goals</th>
<th>Project Performance Measure</th>
<th>PM Weights</th>
<th>Goal Weights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety</td>
<td>Crash Frequency</td>
<td>17.50%</td>
<td>25.00%</td>
</tr>
<tr>
<td></td>
<td>Crash Rate</td>
<td>7.50%</td>
<td></td>
</tr>
<tr>
<td>Mobility</td>
<td>Person Throughput</td>
<td>7.50%</td>
<td>15.00%</td>
</tr>
<tr>
<td></td>
<td>Person Hours of Delay</td>
<td>7.50%</td>
<td></td>
</tr>
<tr>
<td>Equity and Accessibility</td>
<td>Access to Jobs</td>
<td>7.50%</td>
<td>25.00%</td>
</tr>
<tr>
<td></td>
<td>Access to Jobs (EJ)</td>
<td>5.00%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Access to Destinations</td>
<td>7.50%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Access to Destinations (EJ)</td>
<td>5.00%</td>
<td></td>
</tr>
<tr>
<td>Economic Development</td>
<td>Job Growth</td>
<td>7.50%</td>
<td>15.00%</td>
</tr>
<tr>
<td></td>
<td>Connection to Truck Intensive Areas</td>
<td>3.75%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Truck Throughput</td>
<td>3.75%</td>
<td></td>
</tr>
<tr>
<td>Environment/Land Use</td>
<td>Sensitive Features</td>
<td>5.00%</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>Air Pollution</td>
<td>5.00%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>VMT per Capita</td>
<td>5.00%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Connection to Activity Center</td>
<td>5.00%</td>
<td></td>
</tr>
</tbody>
</table>
Public Review and Comments

- Review and Comment Period – June 2, 2021, to June 17, 2021
- Comments Received
  - Wikimap – 133
  - Direct Email – 10
  - ConnectRVA 2045 Website – 7
  - Total 150 Comments
- Unique Individuals - 39
- Comments can normally be summarized into three major categories
  - Support of the Specific Projects (40%)
  - Opposition of the Specific Projects (44%)
  - Generic suggestions/comments/questions/misc. (16%)
- No major support/opposition
- Documented in the staff report
# Staff Recommended Constrained List of Projects

<table>
<thead>
<tr>
<th>Time Band</th>
<th>Fiscal Years</th>
<th># of Projects</th>
<th>Inflated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Committed List</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>FY22-FY27</td>
<td>62*</td>
<td>$466,787,410</td>
</tr>
<tr>
<td>Constrained List</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>FY22-FY27</td>
<td>69</td>
<td>$669,115,000</td>
</tr>
<tr>
<td>2</td>
<td>FY28-FY33</td>
<td>65</td>
<td>$1,195,813,000</td>
</tr>
<tr>
<td>3</td>
<td>FY34-FY39</td>
<td>35</td>
<td>$1,670,164,000</td>
</tr>
<tr>
<td>4</td>
<td>FY40-FY45</td>
<td>25</td>
<td>$1,987,664,000</td>
</tr>
<tr>
<td>Total (All Time Bands)</td>
<td></td>
<td>194</td>
<td>$5,522,756,000</td>
</tr>
</tbody>
</table>

## SGR Project List

<table>
<thead>
<tr>
<th>Time Band</th>
<th>Fiscal Years</th>
<th># of Projects</th>
<th>Inflated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>16</td>
<td>$294,408,000</td>
</tr>
</tbody>
</table>
# Vision List of Projects

<table>
<thead>
<tr>
<th>Project Type</th>
<th># of Projects</th>
<th>Project Total Cost (2020 Dollars)</th>
<th>Project Total Cost (inflated to 2030 Dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway, Transit, Active Transportation and Park and Ride</td>
<td>40</td>
<td>$2,057,899,500</td>
<td>$2,634,288,000</td>
</tr>
<tr>
<td>Rail</td>
<td>9</td>
<td>$1,372,940,000</td>
<td>$1,757,480,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>49</strong></td>
<td><strong>$3,430,839,500</strong></td>
<td><strong>$4,391,768,000</strong></td>
</tr>
</tbody>
</table>
Staff Recommended Constrained List of Projects

CONSTRAINED PLAN FUNDING ALLOCATION BY JURISDICTION

- Henrico: 31%
- Richmond: 12%
- Chesterfield: 22%
- Charles City: 0.4%
- Powhatan: 3%
- New Kent: 5%
- Hanover: 10%
- Goochland: 5%
- Multi-Jurisdiction: 9%
- Ashland: 3%
Staff Recommended Constrained List of Projects

CONSTRAINED PLAN FUNDING ALLOCATION BY PROJECT TYPE

- Highway: 84%
- Active Transportation: 3%
- Transit: 7%
- SGR: 5%
- Park & Ride: 1%
Air Quality Conformity

- As part of the ConnectRVA 2045 process, the Richmond-Petersburg Area is required to demonstrate Conformity under the Clean Air Act.
- Projects from ConnectRVA 2045 (Constrained List) and FY21-FY24 TIP will constitute RRTPO set of projects for conformity analysis.
- Must undergo public review process before adoption.
- Policy Board to authorize TAC to review draft conformity report and open the public review.
- Policy Board to adopt the draft Conformity Report in their August meeting.
Action Requested

ConnectRVA 2045 Advisory Committee RECOMMENDATION: ConnectRVA 2045 AC reviewed the draft constrained list of projects and approved it as presented by staff.

STAFF RECOMMENDATION: Staff recommends approval of the draft Constrained List of Projects as presented.

RESOLVED, that the RRTPO Policy Board approves the draft ‘Constrained List of Projects’ for the ConnectRVA 2045 Long-Range Transportation Plan as presented by staff.

FURTHER RESOLVED, that the RRTPO Policy Board approves the Constrained List of Projects in the ConnectRVA 2045 Long-Range Transportation Plan and ungrouped projects of FY21-FY24 Transportation Improvement Plan (TIP) as RRTPO projects for air quality conformity analysis as required by federal regulations (23 CFR § 450.326) and authorizes the Technical Advisory Committee (TAC) to review the draft regional conformity report and open the public review and comment period as needed.
Website
www.connectrva2045.org

Contact Information

ConnectRVA2045@planrva.org

Chet Parsons
cparsons@planrva.org

Sulabh Aryal
saryal@planrva.org