## District Performance
As reported on Dashboard as of 04/30/2019

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>VDOT Advertisement Goal: 70%</th>
<th>Local Advertisement Goal: 70%</th>
<th>VDOT Cost Estimate Goal: 74%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>77%</td>
<td>68%</td>
<td>94%</td>
</tr>
<tr>
<td>2018</td>
<td>80%</td>
<td>78%</td>
<td>92%</td>
</tr>
<tr>
<td>2017</td>
<td>88%</td>
<td>86%</td>
<td>89%</td>
</tr>
<tr>
<td>2016</td>
<td>91%</td>
<td>72%</td>
<td>89%</td>
</tr>
<tr>
<td>2015</td>
<td>69%</td>
<td>64%</td>
<td>88%</td>
</tr>
<tr>
<td>2014</td>
<td>53%</td>
<td>40%</td>
<td>79%</td>
</tr>
<tr>
<td>2013</td>
<td>50%</td>
<td>56%</td>
<td>67%</td>
</tr>
</tbody>
</table>
DASHBOARD 4.0
Has been in use this Fiscal Year

Dashboard 4.0

- provides refined data analysis of key transportation performance measures.
- Allows for proactive project management to assist with successful project development
Upcoming Advertisements (through July 2020)
VDOT Administered – 15 projects are anticipated to be advertised by July 2020

Highlights – VDOT Administered Projects:

• UPC 109083 – Route 95 Roadway Lighting
  – $4.0 Million; Ad Date 05/2019 (SMARTSCALE Round 2 Project)

• UPC 109315 - Route 288 Improve Interchange at Route 250 – Goochland County
  – $2.9 Million; Ad Date 10/2019 (SMARTSCALE Round 1 Project)

• UPC 82849 – Route 460 and Route 629/630 Intersection Project – Prince George County
  – $2.0 Million; Ad Date 01/2020 (SMARTSCALE Round 1 Project)

• UPC 107797 – Route 95 Extend NB Accel Lane at Belvidere Street – City of Richmond
  – $2.3 Million; Ad Date 06/2020 (SMARTSCALE Round 1 Project)
Upcoming Advertisements (through July 2020)
Locally Administered – 48 projects are anticipated to be advertised by July 2020

Highlights – Locally Administered Projects:

• UPC 104957 - Route 656 – Sliding Hill Road Corridor Widening – Hanover County
  – $8.9 Million; Ad Date 5/2019

• UPC 113258 – Woodman Road/Greenwood Road Roundabout – Henrico County
  – $4.0 Million; Ad Date 8/2019

• UPC 50529 – Three Chopt Road Widening – Henrico County
  – $18.8 Million; Ad Date 11/2019

• UPC 105890 – Signal System – City of Richmond
  – $5.4 Million; Ad Date 12/2019
SMART SCALE Update

Round 3 Update – Applications

• 85 applications (20 applicants) submitted in Richmond District (468 statewide)
• 79 applications in Richmond District were screened in and scored
• $1.3 billion in SMART SCALE requests
• $1.4 billion in total project cost
• The number of applications submitted between Rounds 1 and 3 increased by roughly 54%
• Scores and initial staff recommended funding scenario were announced at the January 2019 CTB Workshop and on the SMART SCALE website
SMART SCALE Update

Round 3 Update – Initially Recommended Projects
• Fourteen projects in Richmond District were recommended for funding (total $64.1 million)

<table>
<thead>
<tr>
<th>Applicant</th>
<th># of Recommended Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charles City County</td>
<td>1</td>
</tr>
<tr>
<td>Chesterfield County</td>
<td>2</td>
</tr>
<tr>
<td>Dinwiddie County</td>
<td>1</td>
</tr>
<tr>
<td>GRTC</td>
<td>2</td>
</tr>
<tr>
<td>Henrico County</td>
<td>2</td>
</tr>
<tr>
<td>Nottoway County</td>
<td>2</td>
</tr>
<tr>
<td>Prince George County</td>
<td>1</td>
</tr>
<tr>
<td>City of Richmond</td>
<td>3</td>
</tr>
</tbody>
</table>
SMART SCALE Update

Round 3 Update – Project Types / Next Steps

- Recommended project types vary:
  - Superstreet project
  - Roundabout
  - ITS signal system
  - Sidewalk projects
  - Streetscape projects

- In March 2019, CTB was briefed: DGP and HPP funding levels for Round 3
  - Recommended that an additional $15.8M of HPP and $2.3M of DGP be distributed to Richmond District

- Final CTB action approving the SMART SCALE projects as part of the FY20-25 SYIP will occur in June
# SMART SCALE Round 3 (FY20-25) Schedule

<table>
<thead>
<tr>
<th>Month</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>Scores announced at CTB with initial staff draft scenario</td>
</tr>
<tr>
<td>February – April</td>
<td>CTB considers evaluated projects for inclusion in FFY20-25 SYIP</td>
</tr>
<tr>
<td>March – April</td>
<td>SYIP Public Hearings to gather input on draft scenario</td>
</tr>
<tr>
<td>April</td>
<td>Draft FFY20-25 SYIP released</td>
</tr>
<tr>
<td>June</td>
<td><strong>CTB approves final FY20-25 SYIP</strong></td>
</tr>
<tr>
<td>July 1</td>
<td>FY19 begins; lessons learned from prior rounds (July – December)</td>
</tr>
</tbody>
</table>
SHANE MANN, P.E.
Assistant District Engineer – Construction
2019 Richmond District Dialogue

Rte 691 Emergency Bridge Repairs – Lunenburg County
Corman-Kokosing Construction Company
As of April 1, 2019, Richmond District had 40 Active Projects with a Contract Value of $163,161,278.
Richmond District has averaged the 2\textsuperscript{nd} most active projects (66) in the state from 2015 to present. Salem District averaged 69.
2019 Richmond District Dialogue

Active Projects by Month

Number of Projects

Month - Year

VDOT
2019 Richmond District Dialogue

Washington Street Bridge – City of Petersburg
M. D. Miller Co., Inc.
2019 Richmond District Dialogue
Projected Workload

Richmond District has/will let:
• Jan 9 – 3 projects: $12.7M
• Jan 23 – 3 projects: $10.9M
• Feb 13 – 2 projects: $5.3M
• Feb 27 – 6 projects: $20.5M
• Mar 20 – 1 project: $2.2M

15 additional projects worth $51.6M
2019 Richmond District Dialogue
Projected Workload

**Upcoming Major Projects (over $2M)**
- Apr 2019 – BHB Foundations $2.2M
- May 2019 – I-95 Lighting $5.7M
- Nov 2019 – Rte 1 Widening (Ashland) $4.3M
- Jan 2020 – Rte 460/629 Intersection (Dinwiddie) $2.1M
- May 2020 – Rte 684 Bridge (Powhatan) $2.9M
- June 2020 – I-95 @ Belvidere $2.3M
- July 2020 – Rte 360 Bridge (Amelia) $6.2M
- July 2020 – I-95 @ Maury Interchange $4.8M
- Sep 2020 – 288 @ Broad Street $2.9M
- Nov 2020 – Patterson & Parham $6.6M
- Nov 2020 – Rte 715 Bridge (Brunswick) $3.1M
2019 Richmond District Dialogue

Huguenot Trail (Rte 711) – Powhatan County

E.J. Wade Construction, LLC
2019 Richmond District Dialogue
Projected Workload

Current VDOT Staffing:

• **1 Mega Projects Engineer**
• **3 ACEs** (1 North, 1 Central, 1 South)
• **12 CMs** (4 North, 5 Central, 3 South)
• **47 Inspectors** (19 North, 16 Central, 12 South) (11 Permits/7 Trainees)
2019 Richmond District Dialogue

Varina Enon Bridge Repairs – Henrico County

Corman-Kokosing Construction Company
2019 Richmond District Dialogue
Projected Workload

Current Consultant Contracts:

• 43163 – RK&K – Expires 9/18/2018 (completing some tasks)
• 43240 – Jacobs – Expires 10/13/2018 (completing some tasks)
• 45056 – AMT – Expires 7/27/2019
• 44905 – Jacobs – Expires 6/8/2020
• 46719 – AMT – Expires 6/5/2022
• 46722 – RK&K – Expires 6/5/2022
• 46844 – Alpha – Expires 6/5/2022
2019 Richmond District Dialogue

Carter-Gallier Boulevard – Powhatan County
Phillips Construction, LLC
2019 Richmond District Dialogue

Projected Consultant CEI Staffing

Average = 56
2019 Richmond District Dialogue

Rte 33 – Hanover County
Fielder’s Choice Enterprises, Inc.
# 2019 Richmond District Dialogue

Dashboard Results

<table>
<thead>
<tr>
<th>Year</th>
<th># of Projects</th>
<th>Value</th>
<th>On-Time</th>
<th>On-Budget</th>
<th>CQIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY12</td>
<td>52</td>
<td>$155M</td>
<td>50%</td>
<td>85%</td>
<td>90.2%</td>
</tr>
<tr>
<td>FY13</td>
<td>59</td>
<td>$163M</td>
<td>71%</td>
<td>92%</td>
<td>91.3%</td>
</tr>
<tr>
<td>FY14</td>
<td>53</td>
<td>$139M</td>
<td>70%</td>
<td>92%</td>
<td>91.4%</td>
</tr>
<tr>
<td>FY15</td>
<td>46</td>
<td>$146M</td>
<td>78%</td>
<td>96%</td>
<td>94.3%</td>
</tr>
<tr>
<td>FY16</td>
<td>71</td>
<td>$247M</td>
<td>72%</td>
<td>99%</td>
<td>94.8%</td>
</tr>
<tr>
<td>FY17</td>
<td>51</td>
<td>$188M</td>
<td>80%</td>
<td>94%</td>
<td>95.1%</td>
</tr>
<tr>
<td>FY18</td>
<td>53</td>
<td>$217M</td>
<td>85%</td>
<td>91%</td>
<td>93.9%</td>
</tr>
<tr>
<td>FY19</td>
<td>39*</td>
<td>$166M*</td>
<td>94%*</td>
<td>100%*</td>
<td>95.1%*</td>
</tr>
</tbody>
</table>

*As of April 24, 2019 (Dashboard 4.0)
2019 Richmond District Dialogue
Dashboard Results

Richmond District Project Delivery Performance - VDOT Delivered

- On-Time Goal = 77%
- On-Budget Goal = 85%
2019 Richmond District Dialogue

Questions?

Shane Mann, P.E.
(804) 720-4229 (cell)
Shane.Mann@VDOT.Virginia.Gov
VDOT/VTCA Richmond District Dialogue
May 2, 2019
SEAN NELSON, P.E.
District Maintenance Engineer

May 2, 2019
Richmond District Pavement Condition Summary
2019 Interstate Pavement Condition

Total Rated Lane Miles = 1327.42*  
Deficient Lane Miles = 109.3%  
% Sufficiency = 92%  
% Deficient = 8%  
Average CCI = 85 [Good]

- District meets the goal of 82.0% sufficiency for all IS Pavement
- District exceeds current Statewide sufficiency of 90% for all IS Pavement

Total Lane Miles to be paved in CY 2019 = 106 (Mainline) [Highest in State, 8% of IS Mileage]  
Work planned on all “Very Poor” pavements (CCI<35) & 64 “Poor” to “Very Poor” RAMPS
Richmond District Pavement Condition Summary
2019 Primary Pavement Condition*

*Largest in the state
Total Rated Lane Miles = 3281*
Deficient Lane Miles = 416
% Sufficiency = 86%
% Deficient = 14%
Average CCI = 80 [Good]

☑️ District meets the goal of 82.0% sufficiency for all Primary Pavement
☑️ District exceeds current Statewide sufficiency of 85% for all PRI Pavement

Total Lane Miles to be paved in CY 2019 = 395 (Mainline) [Highest in State, 12% of Primary Mileage]
Richmond District Pavement Condition Summary
2018 Secondary Pavement Condition*

*60% collected in 2016
*20% collected in 2017
*20% collected in 2018

Largest in the state

Total Rated Lane Miles = 12866*
Deficient Lane Miles = 5257
% Sufficiency = 59.15%
% Deficient = 40.86%
Average CCI = 63 [Fair]

Total Lane Miles to be paved in CY 2019 = 709

District doesn’t meet the goal of 65% sufficiency for all Secondary Pavement
2019 Richmond District Paving Program Summary
Interstate System Paving Breakdown

- TE Items: $3.3M
- Concrete Items: $0.84M  Note: 540K LB Asphalt Repair Mastic
- Asphalt Items: $12.49M  Note: 121K Tons of Asphalt to be placed
- Total Contract Value: $16.83M

4 Contracts Awarded; IS 64, 85, 95 & 295; 106 Lane Miles of Paving
2019 Richmond District Paving Program Summary

Primary System Paving Breakdown

- TE Items: $3.2M
- Latex + MSS + Crack Seal/Patch: $4.97M (Note: 16K Tons of Latex to be placed)
- Asphalt Items: $22.9M (Note: 242K Tons of Asphalt to be placed)
- Total Contract Value: $31.74M

8 Contracts Awarded; 2 Latex & 6 Plant Mix; 405 Lane Miles of Paving
2019 Richmond District Paving Program Summary
Secondary System Paving Breakdown

- **Slurry Seal**: $1.8M  
  Note: 508K SY of Slurry Seal to be placed

- **TE Items**: $1.1M

- **Surface Treatment**: $8.0M  
  Note: 3.1M SY of Surface Treatment to be placed

- **Asphalt Items**: $6.9M  
  Note: 79K Tons of Asphalt to be placed

**Total Contract Value**: $17.8M

10 Contracts Awarded; 4 ST, 2 Slurry & 4 PM; 720 Lane Miles of Paving
2019 Richmond District Paving Program Summary

- 18 Contracts Awarded & 1 Advertised, Total Contract Value = $66.4M
- Total of 1,220 Lane Miles to be paved in CY 2019
- Construction Engineering Inspection Services (CEI) Budget = $3.8M
- Contingencies, Contract Requirements & State Police Budget = $4.6M

- Pilot Projects: Micro-Mill + THMACO, Cold Recycling, Ground Tire Rubber Modified Asphalt, Use of Fibermat & Asphalt Mastic for Concrete Pavements

In addition (for 2019), 4 On-Call Paving Contracts, $2.5M in Contract Value
2020 Paving Program *(Tentative)*

- ~$55M Advertisement Targets
- ~20 Contracts to be advertised for CY 20
- Scope of work similar to CY 19
  - Focus on PM type work on IS via THMACO
  - Address CRCP deficiencies on IS 295 & 85 corridor
  - Increase use of Ground Tire Rubber Modified Asphalt
  - Increase use of Cold Recycling (In-Place/Plant)
  - Increase PM type work on Primary
  - Address Deficient Pavement on Limited Access Corridors
  - Innovative Pilot Projects
Richmond District Bridge Condition Summary
2019 Interstate Bridge Condition

Total Number of Bridges = 520
% Sufficiency = 98%
% Deficient = 2%

District doesn’t meet the goal of 99% Non-Structurally Deficient for all IS Bridges*
Richmond District Bridge Condition Summary
2019 Primary Bridge Condition

Total Number of Bridges = 784
% Sufficiency = 95%
% Deficient = 5%

*District doesn’t meet the goal of 96% Non-Structurally Deficient for all Primary Bridges*
Richmond District Bridge Condition Summary

2019 Secondary Bridge Condition

- Good: 67%
- Fair: 26%
- Poor: 7%

Total Number of Bridges = 1133
% Sufficiency = 93%
% Deficient = 7%

District doesn’t meet the goal of 94% Non-Structurally Deficient for all Secondary Bridges*
## District Structure & Bridge
### 2019-2020 Preventative & Restoration Maintenance Program

<table>
<thead>
<tr>
<th>Projects</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 District-wide Structural Steel Repair On-call Contracts</td>
<td>$700,000 (renew)</td>
</tr>
<tr>
<td>2 District-wide General Maint. Repair On-call Contracts</td>
<td>$700,000 (renew)</td>
</tr>
<tr>
<td>Varina-Enon Pylon Acoustic Emissions</td>
<td>$3,000,000</td>
</tr>
<tr>
<td>Varina-Enon Stay Cable Coating and Rain Boots</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>Benjamin Harrison Footing Repairs</td>
<td>$2,500,000</td>
</tr>
<tr>
<td>Benjamin Harrison Bridge Lift Cable and Generators</td>
<td>$15,000,000</td>
</tr>
<tr>
<td>I-95 over James River Trough and Deck Repairs</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>Joint/Deck Rehab/Repair On-call Contract</td>
<td>$700,000 (renew)</td>
</tr>
<tr>
<td>District-wide Zone Coating Paint Contract</td>
<td>$300,000 (renew)</td>
</tr>
<tr>
<td>I-64 Corridor Substructure Repairs</td>
<td>$500,000</td>
</tr>
<tr>
<td>I-85 Corridor Deck Rehabs</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>Tropical Storm Related Substructure Repairs</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>Bridge Specific Paint Contract</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>Culvert Specific Pipe Lining</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>On-Call Pipe Lining</td>
<td>$1,000,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$33,400,000</strong></td>
</tr>
</tbody>
</table>
## 2019-2020 New Construction
### Structure & Bridge Program

### Replacement/Rehabilitation Projects

<table>
<thead>
<tr>
<th>Route</th>
<th>Cost</th>
<th>Advertise Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route 634 over Courthouse Creek</td>
<td>$750,000</td>
<td>Aug 2019</td>
</tr>
<tr>
<td>Route 155 over Chickahominy Canal</td>
<td>$750,000</td>
<td>Aug 2019</td>
</tr>
<tr>
<td>Route 630 over Waqua Cr.</td>
<td>$1,200,000</td>
<td>Jul 2019</td>
</tr>
<tr>
<td>Route 13 over Sallee Cr.</td>
<td>$1,100,000</td>
<td>Sep 2019</td>
</tr>
<tr>
<td>Route 156 over 360</td>
<td>$2,000,000</td>
<td>Oct 2019</td>
</tr>
<tr>
<td>Route 681 over Appomattox River</td>
<td>$1,000,000</td>
<td>Dec 2019</td>
</tr>
<tr>
<td>Route 684 over Deep Cr.</td>
<td>$1,000,000</td>
<td>May 2020</td>
</tr>
</tbody>
</table>

**Total Replacement/Rehabilitation** $7,800,000
2019-2020 Design-Build Program
Structure & Bridge Program

RFQ for Superstructure Replacements (Anticipated Advertisement May 2020)

- Route 250 over I-95
- 1st Street over I-95
- 4th Street over I-95
- 5th Street over I-95
- 7th Street over I-95

Total Procurement Value: $35,000,000
ROBB ALEXANDER
Central Region Operations

May 2, 2019
What is Operations?
Managing Incidents

- Regional TIM Committee
  - Police, fire, towing, DOT
- Safety Service Patrol
- Instant Tow
- TRIP Program
Commercial Vehicle Accidents
Towing and Recovery Incentive Program (TRIP)

- Interstate system is divided among 11 tow companies
  - Training and equipment
- Timely arrival to scene and lanes clear
- Max. $3500 bonus
- Results:
  - Commercial vehicle crash durations reduced 60 minutes
  - Cargo spill crashes reduced 100 minutes
  - Reduced congestion = Millions of dollars saved
  - 1st year costs approx. $350,000
Safety Service Patrol

• 24x7 patrols
• 26 trucks – 24 Operators
• 2018 stats:
  • 1.6M miles
  • 4,583 vehicle crashes
  • 16,289 disabled vehicles
• Shifting patrol routes
  • I-95 South vs. 288 & 150
  • Stakeholder buy-in
SSP Route Adjustment – February 2, 2019

December 2018
- 288/150 – 298 incidents
- Downtown – 406 incidents

March 2019
- Downtown – 445 incidents
- I-95 south – 461 incidents
- 288/150 – 127 incidents
CCTV

- Currently have 84 Cameras
- Analog to Digital upgrades
- Incident detection
New CCTV Coverage
## Operations Six Year Plan Projects
**Richmond District**

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Project Advertisement</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASH GUARDRAIL INSTALLATION ON-CALL – DISTRICTWIDE (UPC TBD)</td>
<td>FY20: $600,000</td>
</tr>
<tr>
<td></td>
<td>FY21: $600,000</td>
</tr>
<tr>
<td>I-195 SAFETY IMPROVEMENTS (UPC 112051)</td>
<td>FY20: $1,300,000</td>
</tr>
<tr>
<td>PAVEMENT MARKINGS – CENTRAL REGION – RICHMOND DISTRICT (UPC TBD)</td>
<td>FY20: $500,000</td>
</tr>
<tr>
<td></td>
<td>FY21: $500,000</td>
</tr>
<tr>
<td>I-95 - EXTEND NB ACCELERATION LANE AT BELVIDERE ST (UPC 107796)</td>
<td>FY20: $2,300,000</td>
</tr>
<tr>
<td>PEDESTRIAN SAFETY ENHANCEMENTS ALONG THE CAPITAL TRAIL (UPC 110838)</td>
<td>FY20: $450,000</td>
</tr>
<tr>
<td>TRAFFIC SIGNAL CONTRACT – DISTRICTWIDE (UPC 114462)</td>
<td>FY20: $3,400,000</td>
</tr>
<tr>
<td>INSTALL PEDESTRIAN ACCOMMODATIONS – DISTRICTWIDE (UPC 107036)</td>
<td>FY20: $1,200,000</td>
</tr>
<tr>
<td>CONSTRUCT ROUNDABOUT – INTERSECTION OF RTE. 637/611 (UPC 106197)</td>
<td>FY20: $2,200,000</td>
</tr>
<tr>
<td>PEDESTRIAN SIGNALIZED INTERSECTION ACCOMMODATIONS – DISTRICTWIDE (UPC 108890)</td>
<td>FY20: $1,300,000</td>
</tr>
</tbody>
</table>
Timeline

- **A/E Services and Construction Administration**
  - June 6, 2016 – RFP issued
  - Hammel, Green, and Abrahamson, Inc. (HGA)
  - November 1, 2016 - Contract executed

- **Contractor Pre-Qualification**
  - July 14, 2017 – RFQ issued
  - Four contractors deemed qualified
  - February 9, 2018 – low bid contract awarded to KBS, Inc.

- **April 26, 2018 – Groundbreaking Ceremony**
Design Basics

- Three-story structure, approx. 85,000 sqft
- Category 3 rating
- Physical separation between VSP and VDOT
- State-of-the-art Operations Center with Data Center
- Integrate well within existing VDOT complex
- “Inspire innovation and collaboration and pay homage to the achievements of civil engineering and reflect a culture of service to our fellow citizens.”
Other Challenges

- Construction within an active VDOT complex
- Fiber-optic connection to I-95
  - 2 private easements
  - 1 railroad agreement
- Wireless tower for VSP radio system
- Funding
- Designing a building that integrates with existing buildings both in scale and materiality.
Site Plan

Existing Buildings to Remain

VDOT Colonial Heights 2015

VDOT Colonial Heights 2019
NEW GROUND LEVEL TO VISUALLY RELATE BOTH IN HEIGHT AND FINISHES TO EXISTING MASONRY BUILDINGS

- GLASS BOX
- UPPER LEVELS THAT BRIDGE ACROSS LOBBY
- MASONRY GROUND LEVEL TO INTEGRATE WITH COMPLEX
A New Vision

View from South-West Corner
A New Vision

Joint Operation Center

VISUAL CONNECTION
TO 2ND LEVEL
Humble Beginnings
October 2018
Structure Taking Shape
Future Timeline

- Substantial completion – 9/3/19
- First VDOT occupancy – 60 days
- TOC operational – mid-November
- VSP move-in – early 2020