



VTCA – VDOT RICHMOND DISTRICT DIALOGUE

District Overview

Dale Totten, P.E.

Richmond District Deputy Engineer

Shane Mann, P.E.

Richmond District Engineer

May 5, 2021

Safety Topic

Tips for Preparing Your Vehicle for Summer Driving

- Check your tire pressure prior to any long trips; monthly at minimum. Maintain pressure at manufacturer's recommendation. Check all 5 tires including spare.
- Check and clean battery terminals.
- Replace wiper blades and fill washer fluid.
- Do not overload your vehicle – overloading can create excessive heat in your tires and can result in vehicular damage.
- Check the tread and sidewalls of your tires for obvious and uneven wear. Uneven wear may mean you need an alignment. Check for lumps and bumps – if lumpy may be out of balance.

Leadership Changes

District Construction Engineer

Robert Poutier, P.E. promoted to District Construction Engineer in January.
Mona Gabriel, P.E. left the Department for a position in Florida in December.

Chesterfield Resident Engineer

Rebecca Worley, P.E. promoted to Resident Engineer in August. *Kyle Bates, P.E.* left the District for a position in Fredericksburg.

COVID-19 Impacts

- Over 30% of staff have been teleworking full-time since onset.
- Field crews practicing social distancing, staggering shifts, etc.
- Over 400 exposure notifications in Richmond District. 52 positive tests of employees/embedded contract employees.
- VDOT is in Stage 3 of re-opening plan – up to 20% of teleworking staff allowed back in the office.

COVID-19 Impacts

- Richmond District will begin to phase employees back into the office environment slowly.
- Field crews (Area Headquarters, Bridge Crews, Equipment shops, Sign shop, Signal technicians, Construction staff, etc.) have continued to perform their functions throughout pandemic.

Central Virginia Transportation Authority

- Authority is working on establishing policies.
- 50% locality funding is flowing from VDOT to localities.
- 15% GRTC funding is flowing to GRTC.
- 35% Regional funding is accruing as Authority defines criteria.
 - Defining Regional Project eligibility
 - Defining Scoring Criteria
 - Defining Application Process
- VDOT is a support entity.

Interstate Studies

- Result of I-81 legislation – Portion of truck registrations distributed to other interstates in Commonwealth
- I-95 Study is complete – ~\$40M/year
- I-64 Study is almost complete – ~\$28M/year
- I-85/I-295 Study is underway – ~\$44M/year (anything other than 95/64)

District Challenges

- Winter Ice Storm Recovery
- Staffing

Contact Information

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- Shane Mann
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PROJECT DEVELOPMENT OPPORTUNITIES

Jason Williams, P.E. *on behalf of* Mark Riblett, P.E.

Assistant District Engineer - Project Development, Planning, and Investment Management

May 5, 2021

PROJECT DEVELOPMENT OPPORTUNITIES

Mark Riblett, P.E.

Assistant District Engineer - Project Development,
Planning, and Investment Management

May 5, 2021

Topics Overview

- District Performance over the Years
- Dashboard Performance Current Fiscal Year
- Upcoming Advertisements – VDOT Administered Projects
- Upcoming Advertisements – Locally Administered Projects
- SMART SCALE Round 4 Applications
- SMART SCALE Round 4 Draft Recommended Funding Scenario
- Next Steps for Round 4 SMART SCALE Approval Schedule

District Performance – Project Development

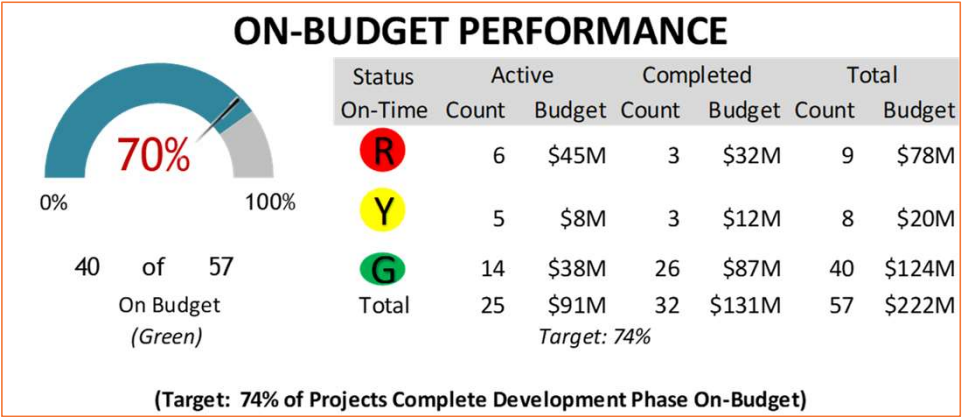
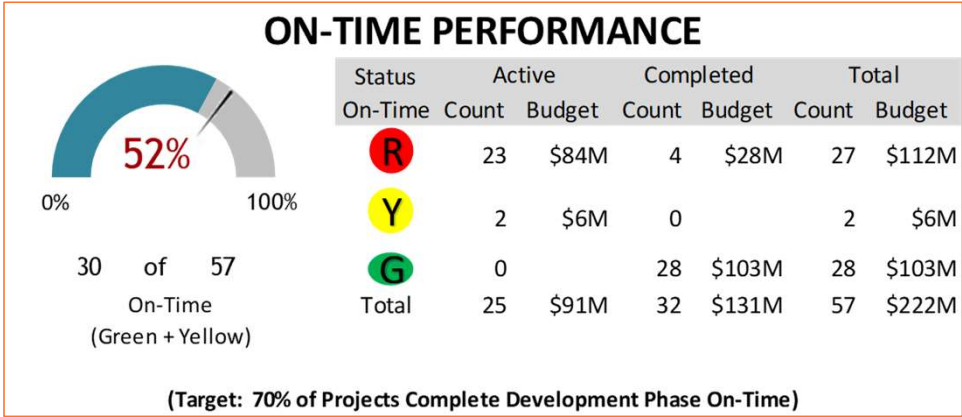
Year-End Results

Fiscal Year	VDOT Advertisement Goal: 70%	Local Advertisement Goal: 70%	VDOT Cost Estimate Goal: 74%
2021*	85%	31%	82%
2020	88%	70%	94%
2019	77%	69%	94%
2018	80%	78%	92%
2017	91%	81%	89%
2016	91%	77%	89%
2015	85%	64%	89%
2014	82%	58%	88%
2013	74%	52%	85%

* Projected

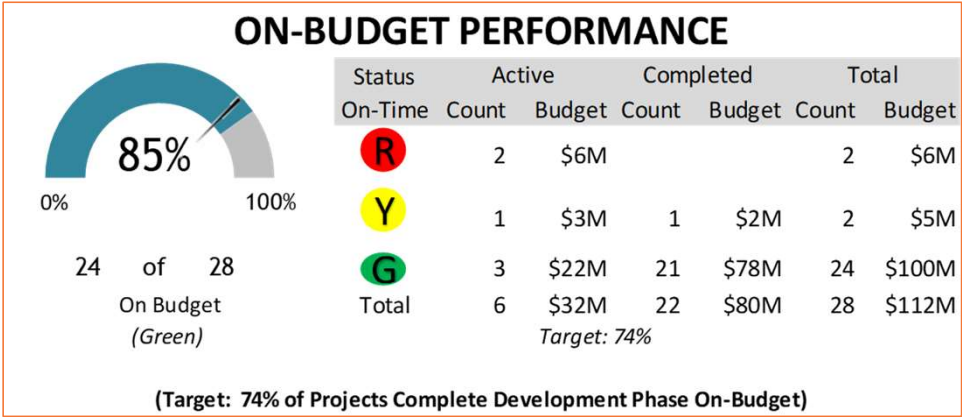
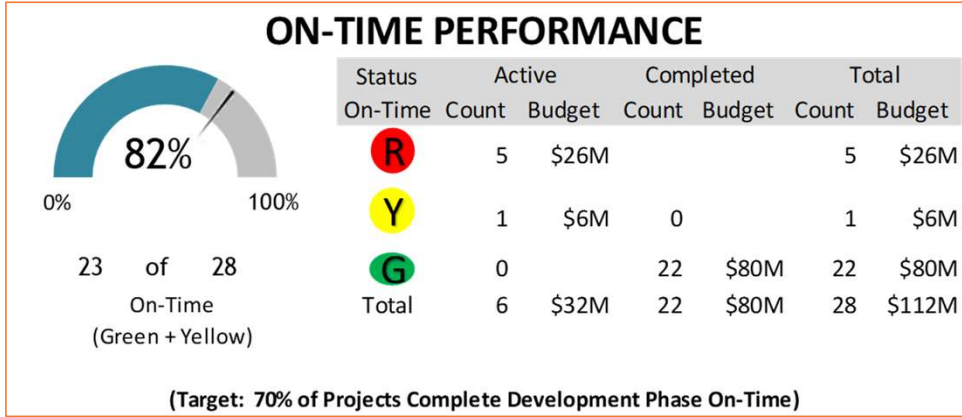
DASHBOARD – All Projects (with award date in FY21)

Performance as of 04/30/2021



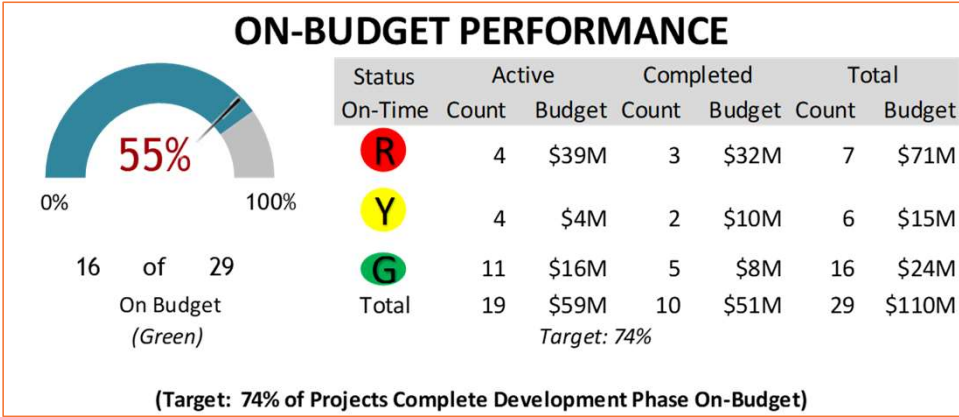
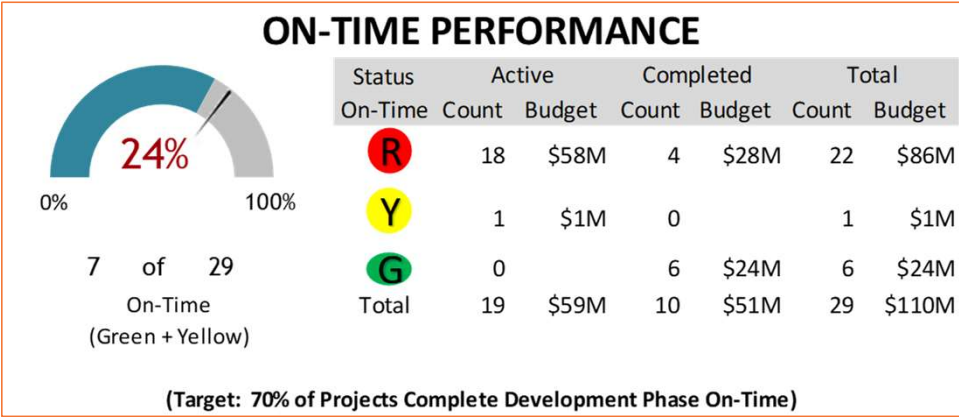
DASHBOARD – VDOT Administered Projects

Performance as of 04/30/2021



DASHBOARD – Locally Administered Projects

Performance as of 04/30/2021



Upcoming Advertisements (through July 2022)

VDOT Administered – 24 projects are anticipated to be advertised by July 2022

Highlights – VDOT Administered Projects *(\$ shown for total CN phase)*

- UPC 118581: #I64CIP-664 / I-95 SB Lane Reallocation / Arthur Ashe Boulevard Ramp Widening - City of Richmond
 - \$4.2M; Advertisement Planned for Winter 2021/2022
- UPC 111466: I-95 Aux Lanes (NB & SB) between Route 288 & Route 10 – Chesterfield County (SMART SCALE ROUND 2)
 - \$24.7M; Advertisement Planned for Winter 2021/2022
- UPC 107085: Route 641 Bridge Replacement – Chesterfield County
 - \$8.7M; Advertisement Planned for Fall 2021
- UPC 111303: I-64 over I-95 Bridge Rehabilitation – City of Richmond
 - \$4.2M; Advertisement Planned for Summer 2021

Upcoming Advertisements (through July 2022)

VDOT Administered – *Continued*

Highlights – VDOT Administered Projects *(\$ shown for total CN phase)*

- UPC 93093: Route 46 Bridge Rehabilitation over Nottoway River – Brunswick County
– \$7.6M; Advertisement Planned for Summer 2021
- UPC 90931: Route 711 Intersection Improvements – Powhatan County (SMART SCALE ROUND 2)
– \$1.5M; Advertisement Planned for Winter 2021/2022
- UPC 110650/111290: Bridge Rehabilitation – Henrico County
– \$6.0M; Advertisement Planned for Winter 2021/2022
- UPC 111291/111292: Bridge Rehabilitation – Henrico County
– \$5.6M; Advertisement Planned for Winter 2021/2022

Upcoming Advertisements (through July 2022)

Locally Administered – 33 projects are anticipated to be advertised by July 2022

Highlights – Locally Administered Projects *(\$ shown for total CN phase)*

- UPC 13551: Route 360 Widening - Hanover County (SMART SCALE ROUND 2)
– \$13.8 Million; Advertisement Planned for Summer 2021
- UPC 107088: Route 636 Nash Road Extension - Chesterfield County
– \$22.2 Million; Advertisement Planned for Late Fall 2021
- UPC 111467: SB Route 288 to WB US 360 WB Off-Ramp, US 360 PNR Lot - Chesterfield County (SMART SCALE ROUND 2)
– \$11.4 Million; Advertisement Planned for Late Winter 2022
- UPC 108639: Elkhardt Road – Roadway, Pedestrian, & Bike Improvements - Chesterfield County (SMART SCALE ROUND 2)
– \$4.3 Million; Advertisement Planned for Spring 2021

SMART SCALE Round 4 – Pre-Applications

SMART SCALE Round 4 Pre-Applications	Applications Submitted	Pre-Screen In	Pre-Screen In Conditionally	Pre-Screen Out
Richmond District	96*	6	85	5
Statewide	484	61	394	21
Richmond District % of Statewide	19.8%	9.8%	21.6%	23.8%

* +2 CTB pre-applications that fall within Richmond District

SMART SCALE Round 4 – Final Applications

SMART SCALE Round 4 Final Applications	Applications Submitted	Applications Recommended for Funding
Richmond District	75	19
Statewide	473	166
Richmond District % of Statewide	15.8%	11.4%

Round 4 Applications Recommended for Funding

Applicant	Applications Recommended for Funding Submitted
Ashland	1
Brunswick	2
Chesterfield	2
GRTC	2
Hanover	1

Applicant	Applications Recommended for Funding Submitted
Henrico	2
Mecklenburg	1
RRTPO	2
City of Richmond	5
Town of South Hill	1

Round 4 Applications Recommended for Funding

Applicant	Project Description	SMART SCALE Request	Total Cost Estimate
Ashland	Ashcake Rd Pedestrian Improvements	\$ 4,601,655	\$ 4,601,655
Brunswick	Intersection Improvements for US 58 and Robinson Ferry Rd	\$ 4,260,602	\$ 4,260,602
Brunswick	US 58 Improvements between Rt 46 and Brunswick Square	\$ 3,198,053	\$ 3,198,053
Chesterfield	Alverser at Old Buckingham Roundabout	\$ 7,850,932	\$ 8,015,932
Chesterfield	RT 60/Stonebridge Plaza/Boulders - Intersection Improvements	\$ 13,049,681	\$ 13,049,681
GRTC	Articulated Vehicles for Bus Rapid Transit Expansion	\$ 3,355,697	\$ 3,355,697

Round 4 Applications Recommended for Funding

Applicant	Project Description	SMART SCALE Request	Total Cost Estimate
GRTC	Williamsburg Road Pedestrian and Transit Improvements	\$ 15,440,473	\$ 15,440,473
Hanover	Sliding Hill Road/Peaks Road Roundabout	\$ 7,501,325	\$ 7,501,325
Henrico	Nine Mile Rd Roadway Reconfiguration & Ped Safety Project	\$ 3,426,269	\$ 3,426,269
Henrico	Nine Mile Rd Multimodal Mobility & Safety Improvements	\$ 14,115,665	\$ 14,115,665
Mecklenburg	Intersection Improvements to US 58/626 and US 58/759	\$ 3,726,168	\$ 3,726,168
Richmond	Gillies Creek Greenway	\$ 3,758,546	\$ 3,758,546

Round 4 Applications Recommended for Funding

Applicant	Project Description	SMART SCALE Request	Total Cost Estimate
Richmond	Commerce Road Streetscape	\$ 9,441,459	\$ 12,441,459
Richmond	Clay Street Streetscape Improvements	\$ 8,332,621	\$ 9,332,621
Richmond	US Route 1 Phase II Improvements	\$ 12,242,272	\$ 13,242,272
Richmond	James River Branch - Rail to Trail Greenway	\$ 14,303,411	\$ 14,303,411
RRTPO	Broad Street Streetscape w/ Pulse BRT Expansion Phase I	\$ 26,803,183	\$ 26,803,183
RRTPO	Powhite NB at Chippenham Capacity and Safety Improvements	\$ 17,168,958	\$ 17,168,958
South Hill	Intersection Improvements - US 58 and Country Ln/ Atlantic St	\$ 5,181,850	\$ 5,757,611

SMART SCALE Round 4 Schedule

Round 4 Projects will be adopted into the final FY22-27 SYIP

Feb – April 2021	Board to develop potential revisions to staff recommended funding scenario
April – May 2021	Public hearings on staff recommended scenario and any potential revisions
May CTB Meeting	Revised funding scenario developed
June CTB Meeting	Adoption of FY22-27 Six-Year Improvement Program

Thank You!

Contact Information:

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on behalf of

Mark E. Riblett, P.E.

Assistant District Engineer

Project Development, Planning, & Investment Management

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Thank You!

Contact Information:

Mark E. Riblett, P.E.

Assistant District Engineer

Project Development, Planning, & Investment Management

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Cell: (804) 356-3205

E-mail: mark.riblett@vdot.virginia.gov



CONSTRUCTION, CEI AND LAP

Robert Poutier, P.E.

Assistant District Engineer - Construction

May 5, 2021

2021 Richmond District Dialogue

SAFETY

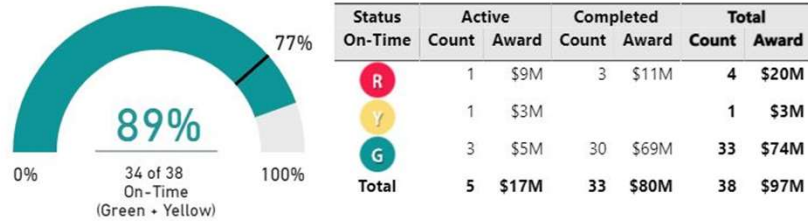
Crashes Injuries Deaths WorkZone			
Description	Recent 12 Months	3-Year Avg	
Angle	56	65	
Backed Into	4	2	
Bicyclist	0	0	
Deer	1	2	
Fixed object in road (from ditch to ditch)	7	5	
Fixed object off road (from outside of ditch)	18	24	
Head on	4	3	
Miscellaneous or other	9	9	
Motorcyclist	0	0	
Non-Collision, overturned, jackknifed or ran off road (no object)	4	2	
Not Stated	0	0	
NotApplicable	0	0	
Other Animal	0	0	
Pedestrian	6	5	
Rear End	111	137	
Sideswipe - Opposite direction of travel	2	2	
Sideswipe - Same direction of travel	20	25	
Train	0	0	
Undetermined Cause	0	0	
Total	242	280	

2021 Richmond District Dialogue

FY21 Dashboard

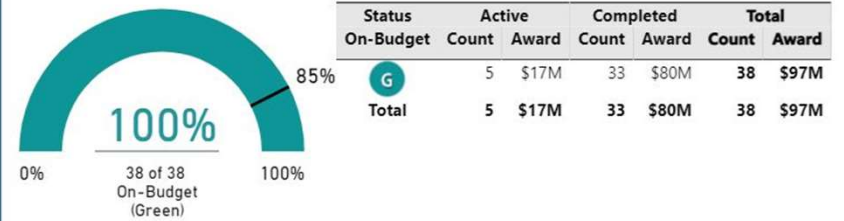
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ON-TIME PERFORMANCE



(Target : 77% of Projects Complete Delivery Phase On-Time)

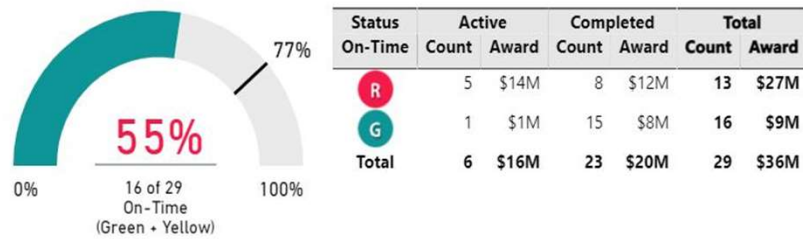
ON-BUDGET PERFORMANCE



(Target : 85% of Projects Complete Delivery Phase On-Budget)

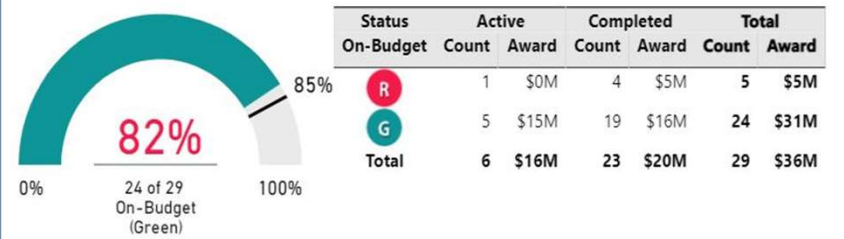
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ON-TIME PERFORMANCE



(Target : 77% of Projects Complete Delivery Phase On-Time)

ON-BUDGET PERFORMANCE

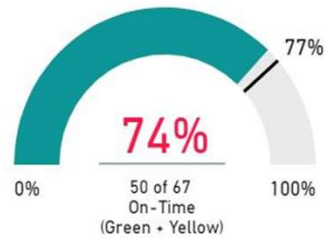


(Target : 85% of Projects Complete Delivery Phase On-Budget)

2021 Richmond District Dialogue

FY21 Dashboard: TEAM

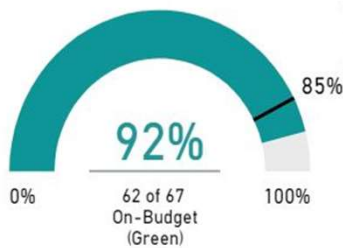
ON-TIME PERFORMANCE



Status	Active		Completed		Total	
	Count	Award	Count	Award	Count	Award
R	6	\$24M	11	\$23M	17	\$47M
Y	1	\$3M			1	\$3M
G	4	\$6M	45	\$77M	49	\$83M
Total	11	\$33M	56	\$100M	67	\$133M

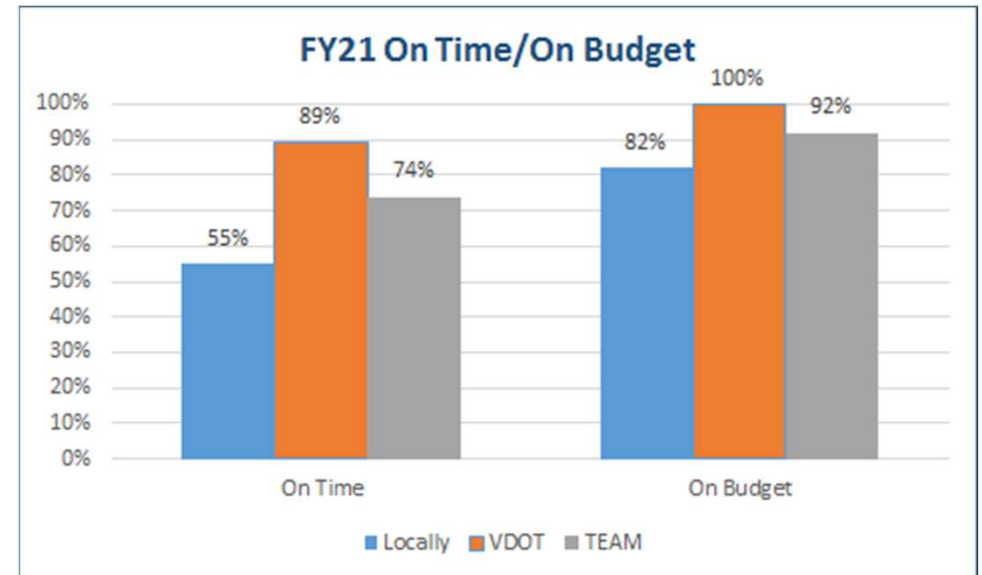
(Target : 77% of Projects Complete Delivery Phase On-Time)

ON-BUDGET PERFORMANCE



Status	Active		Completed		Total	
	Count	Award	Count	Award	Count	Award
R	1	\$0M	4	\$5M	5	\$5M
G	10	\$32M	52	\$96M	62	\$128M
Total	11	\$33M	56	\$100M	67	\$133M

(Target : 85% of Projects Complete Delivery Phase On-Budget)



2021 Richmond District Dialogue

FY21 CQIP

District	Total Questions Asked	Compliant Responses	% Compliant Responses
Bristol	649	630	97.1%
Culpeper	354	346	97.7%
Fredericksburg	1129	1102	97.6%
Hampton Roads	1727	1648	95.4%
Lynchburg	501	478	95.4%
Northern Virginia	757	731	96.6%
Richmond	1939	1876	96.8%
Salem	1388	1300	93.7%
Staunton	563	551	97.9%
Statewide	9007	8662	96.2%

2021 Richmond District Dialogue

Current Workload

Richmond District has 44 Active VDOT Administered Projects with contract value of \$112M

Richmond District has 15 Active Locally Administered Projects with contract value of \$82M

2021 Richmond District Dialogue

Estimated Advertised Construction Value including CEI

**Does not include all Maintenance Schedules*

- **VDOT Administered**
 - 2021 - \$120M
 - 2022 - \$113M

- **LAP Administered**
 - 2021 - \$145M
 - 2022 - \$68M

2021 Richmond District Dialogue

Upcoming Projects	Ad	Estimate
UPC 93093 Rte 46 Bridge Rehab	Spring	\$7.5M
UPC 117780 On-Call ITS Contract	Spring	\$4M
UPC 108639 Elkhardt Road (Chesterfield)	Spring	\$4M
UPC 13551 Rte 360 Widening (Hanover)	Spring	\$13M
UPC 107085 Rte. 641 over CSX	Summer	\$8.7M
UPC 111303 I-64(Laburnum) over I-95	Summer	\$4.2M
UPC 111466 I-95 Aux Lanes 288/10	Fall	\$24M

2021 Richmond District Dialogue

VDOT Construction Staff:

- **Mega Projects Engineer - Scott Fisher, P.E.**
- **Northern Region ACE - Brian Ramsey, P.E.**
 - CMs: Jimmy Morris, Marcos Kocolis, Doug Kisamore (+1 vacancy)
 - 10 Inspectors
- **Central Region ACE - Jeremy Cobb, P.E.**
 - CMs: Chris Copeland, P.E, Chip Frazer, Corey Murphy, John Rogers
 - 9 Inspectors
- **Southern Region ACE - Susan Warr, P.E.**
 - CMs: Jessica Miller, Blake Smith (+1 vacancy)
 - 11 Inspectors

2021 Richmond District Dialogue

VDOT Staff Continued:

- **Locally Administered ACE - Brian Lokker, P.E.**
 - CMs: Scott Thornton (+1 vacancy)
- **District Materials Engineer - Thomas Schinkel, P.E.**
- **Project Controls - Vacant**
 - Constructability Review Team: Andrew Dyson
 - Contract Manager: Larry Ruiz
 - Business Support: Karen Kee
 - District Scheduler: Sam Giallombardo
- **CRO Project Delivery ACE - Ron Hobson, P.E.**
 - CM: Jamie Maiden

2021 Richmond District Dialogue

Additional Anticipated Needs:

- Over the next couple years, Richmond District anticipates supplementing VDOT staff with the following:
 - Between 20 and 60 consultant inspectors
 - Materials Technicians
 - ITS/Signal Inspection Specialist
 - Potential for additional Construction Managers
 - Project Controls Support
 - LAP Construction Manager Support

2021 Richmond District Dialogue



2021 Richmond District Dialogue

Current Consultants Contracts:

- **44905 – Jacobs – Expired 6/8/2020 (Completing remaining Tasks)**
- **46719 – AMT – Expires 4/1/2022 (Currently in Term #3)**
- **46722 – RK&K – Expires 6/5/2022 (Currently in Term #2)**
- **46844 – Alpha – Expires 6/5/2022 (Currently in Term #2)**

2021 Richmond District Dialogue

Upcoming Procurements

One (1) procurement scheduled to advertise in 3rd Quarter 2021

- 3 contracts estimated at \$4M per term for maximum of 3 terms
 - Estimated Staff during peak CN season
 - » 2 CMs
 - » 25 Inspectors during peak
 - » Materials Technician
 - » Signal/ITS Technician
 - » NACE Coating Technician II

Contact Information

Robert Poutier

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MAINTENANCE CONTRACTING

Sean Nelson, P.E.
District Maintenance Engineer



May 5, 2021

Richmond District Maintenance Program - FY21

FY21 Maintenance and Operations Budget over \$200M

- **Bridge**
 - \$36.4 million
- **Pavement**
 - \$60.5 million
- **Routine Maintenance**
 - \$77 million
- **Snow**
 - \$18 million

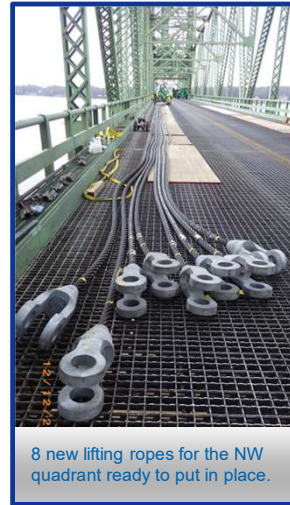


FY21 Hurdles

- **August Flooding**
 - \$1.5 million
- **Winter 2021**
 - \$32 million
- **Ice Storm Debris**
 - \$23 million

FY21 Highlights

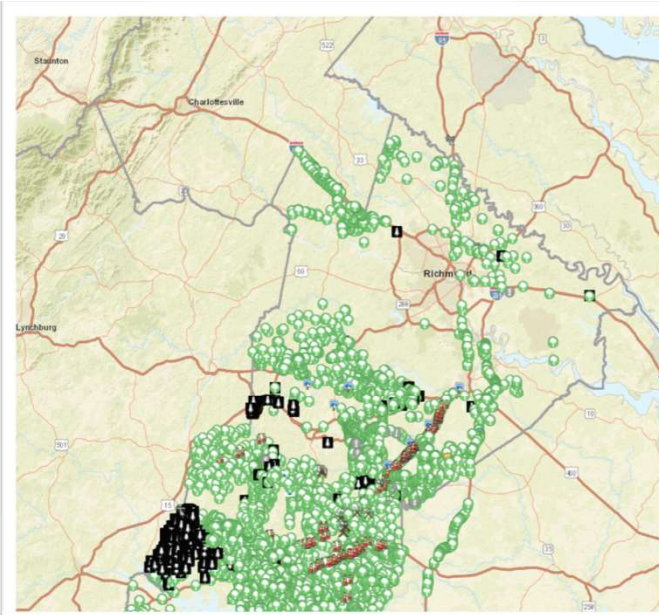
BHB Wire Rope and Clutch Replacement



FY21 Highlights

February Ice Storm

- 500,000+ cu. yds. of debris
- 127,000 Hazardous Limbs
- 90-day schedule



Richmond District Maintenance Program - FY22

FY22 Maintenance and Operations Budget

- **Bridge**
 - \$38.6 million
- **Pavement**
 - \$56 million
- **Routine Maintenance**
 - \$66 million
- **Snow**
 - TBD

State of Good Repair

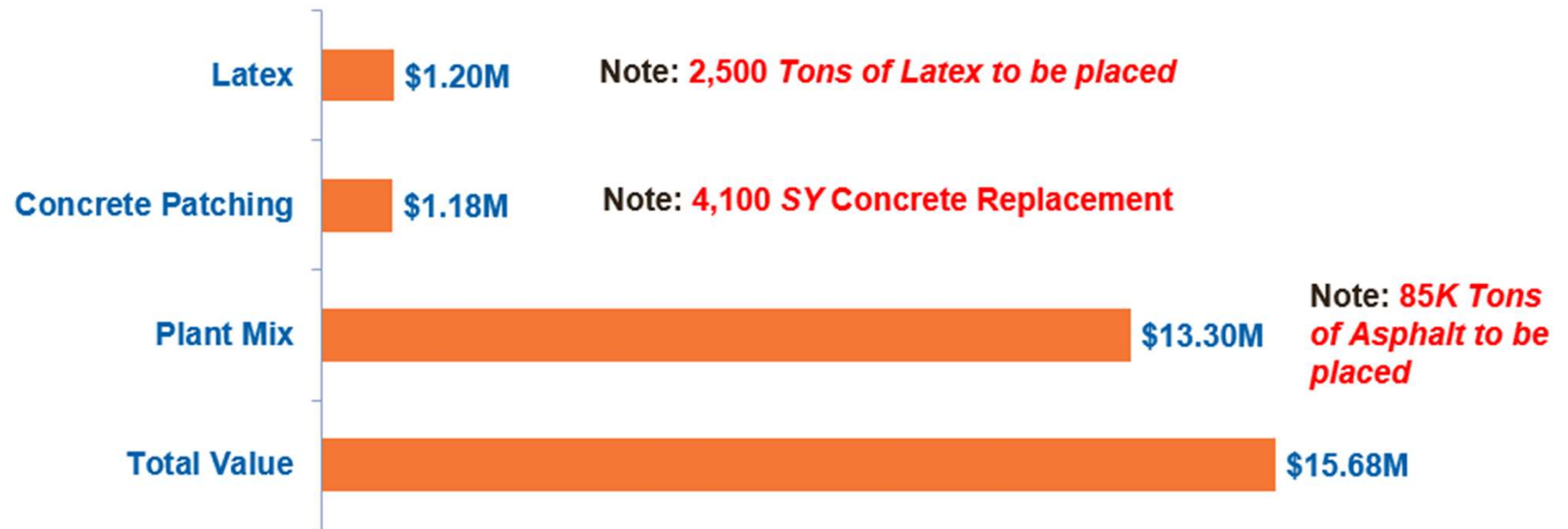
- **Pavements**
 - \$6.1 million
- **Bridges**
 - \$34.1 million

VITAL Infrastructure

- **Varina-Enon**
 - \$2.2 million
- **Benjamin Harrison**
 - \$3.6 million

2021 Richmond District Paving Program Summary

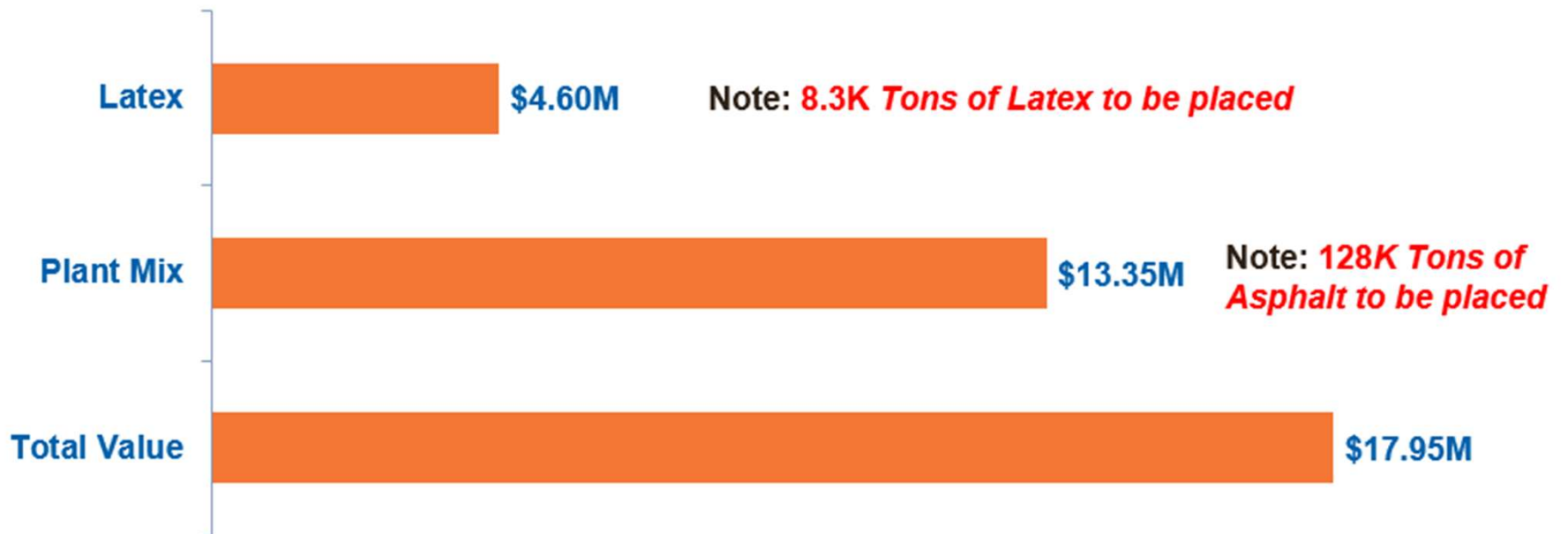
Interstate System Paving Breakdown



**3 Plant Mix, 1 Latex & 1 On-Call Concrete Patching;
Work on IS 64, 85, 95 & 295; 61 Lane Miles of Paving**

2021 Richmond District Paving Program Summary

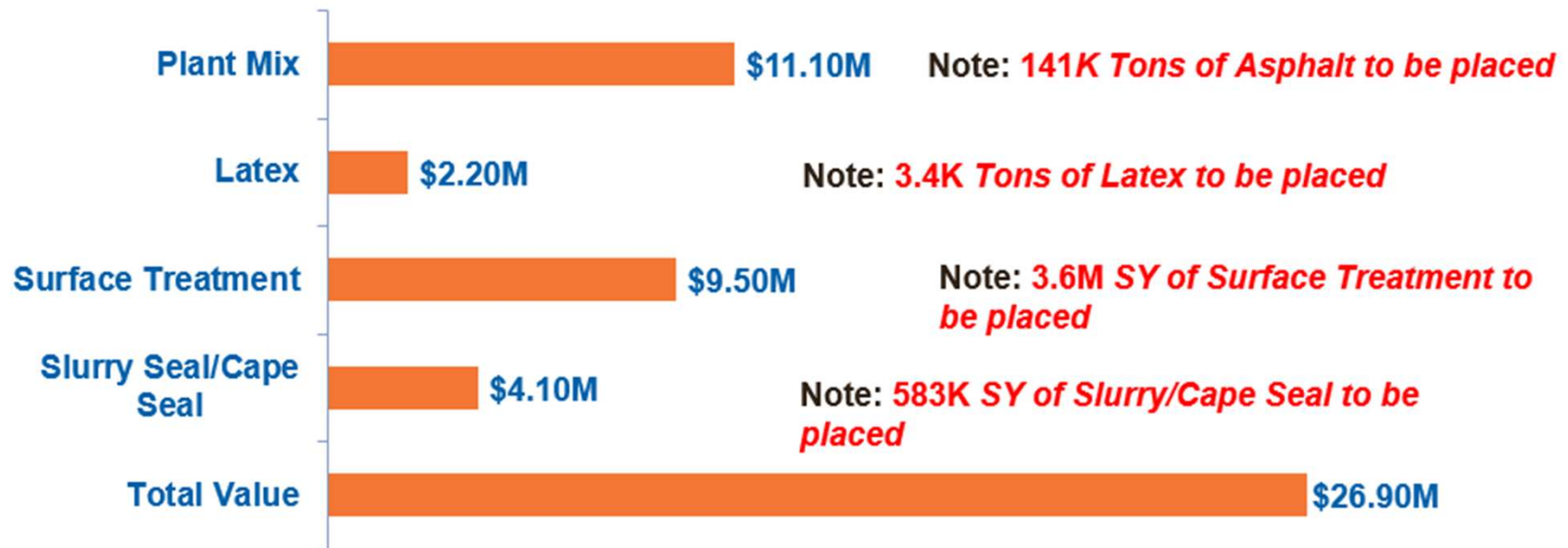
Primary System Paving Breakdown



**2 Latex & 5 Plant Mix;
191 Lane Miles of Paving**

2021 Richmond District Paving Program Summary

Secondary System Paving Breakdown



**4 Surface Treatment, 2 Slurry, 1 Latex, 4 Plant Mix & 1 FDR;
902 Lane Miles of Paving**

2021 Richmond District Paving Program Summary

- 14 Contracts Awarded & 7 “On the Street” Total Value = \$60.5M
- Total of 1,154 Lane Miles to be paved in CY 2021
- Construction Engineering Inspection Services (CEI) = \$3.7M
- Contingencies, Contract Requirements & State Police = \$3.6M
- Special Projects: Concrete Repair and Multi-Lift Overlay on I-295 in Prince George and US-60 in New Kent
- Interstate On-Call concrete paving and patching
- FDR in Meadowville Landing subdivision

CIR on 360/460/40



2022 Paving Program (*Tentative*)

- TBD Advertisement Target
- ~16 Contracts to be advertised for CY 22
- Scope of work similar to CY 21
 - Sustain PM type work on Interstate and Primary
 - Reduction in Primary Funding
 - Increased focus on Secondary
 - Potentially 55% of the Secondary Paving Program will be Plant Mix
 - Potentially 45% of the Secondary Paving Program will be Non-Plant Mix

District Structure & Bridge

Late FY21 thru FY22 Tentative Preventive & Restorative Maintenance Program

<u>Preventive & Restorative Projects</u>		<u>Estimate</u>	<u>Advertisement</u>
UPC TBD	Varina Enon Ftg. Preventive Maint. (Multi year)	\$1,000,000	(contract type to be determined)
UPC 112749	New Generator Benjamin Harrison Bridge	\$6,000,000	Late Spring 2021
UPC 116523	Route 156 over James River Aerial Cables	\$3,000,000	Late Spring 2021
UPC TBD	On-Call Steel Repair Contract (Renewable)	\$2,000,000	Sep. 2021
UPC TBD	On-Call Concrete Repair Contract (Renewable)	\$2,000,000	Sep. 2021
UPC TBD	On-Call Zone Coating Paint Contract (Renewable)	\$2,000,000	Sep. 2021
UPC 109990	Paint Specific Bridges	\$2,000,000	Feb. 2022
UPC 114711	Rte. 712 over Smith Creek - Scour Repairs	\$ 500,000	Dec. 2021
UPC 112360	I-95 Corridor Substructure Repairs	\$3,000,000	Jan. 2022
UPC TBD	Varina Enon Superstructure Repairs (Multi-year)	\$3,000,000	Winter 2021
UPC TBD	Varina Enon Electrical Conduit Rehab	\$ 500,000	Winter 2021
Total Preventive & Restorative Maintenance			\$ 25,000,000

Late FY21 thru FY22 New Construction

Structure & Bridge Program (Tentative)

<u>Replacement/Rehabilitation Projects</u>		<u>Estimate</u>	<u>Advertisement</u>
UPC 111303	I-64 (Laburnum Ramp) over I-95	\$ 4,200,000	Jun. 2021
UPC 93093	Replace Super. Rte. 46 over Nottoway River	\$ 7,700,000	May 2021
UPC 107085/111299	Rte. 641 over CSX Trans. & DGSCSR	\$ 8,750,000	Aug. 2021
UPC 113389	Rte. 1 over CSX R/W	\$ 2,600,000	Sep. 2021
UPC 104955	Replace Bridge Rte. 92 over Butchers Creek	\$ 2,000,000	Nov. 2021
UPC 111297	Rehab. Bridge Rte. 657 over I-95	\$ 5,300,000	Nov. 2021
UPC 111466	I-95 Aux. Lane (NB & SB) over Rte. 616	\$24,700,000	Nov. 2021
UPC 93091	Rte. 715 over Meherrin River Truss Rehab.	\$ 4,300,000	Dec. 2021
UPC 111290	Deck Replacement Skipwith Rd. over I-64	\$ 6,000,000	Jan. 2022
UPC 111291	Deck Replacement Pemberton Rd. over I-64	\$ 5,000,000	Jan. 2022
UPC 111699	Replace two Culverts (Prince George Co.)	\$ 1,400,000	Mar. 2022
Total Replacement/Rehabilitation		\$ 71,950,000	

Contact Information

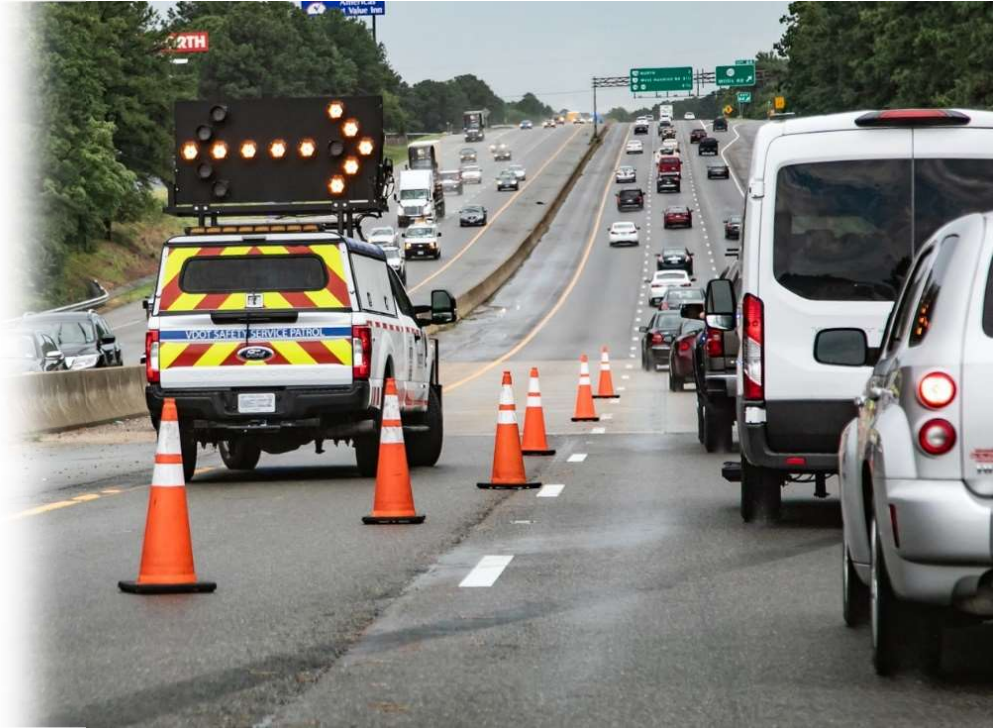
Sean Nelson

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Sean.Nelson@VDOT.Virginia.gov



CENTRAL REGION OPERATIONS

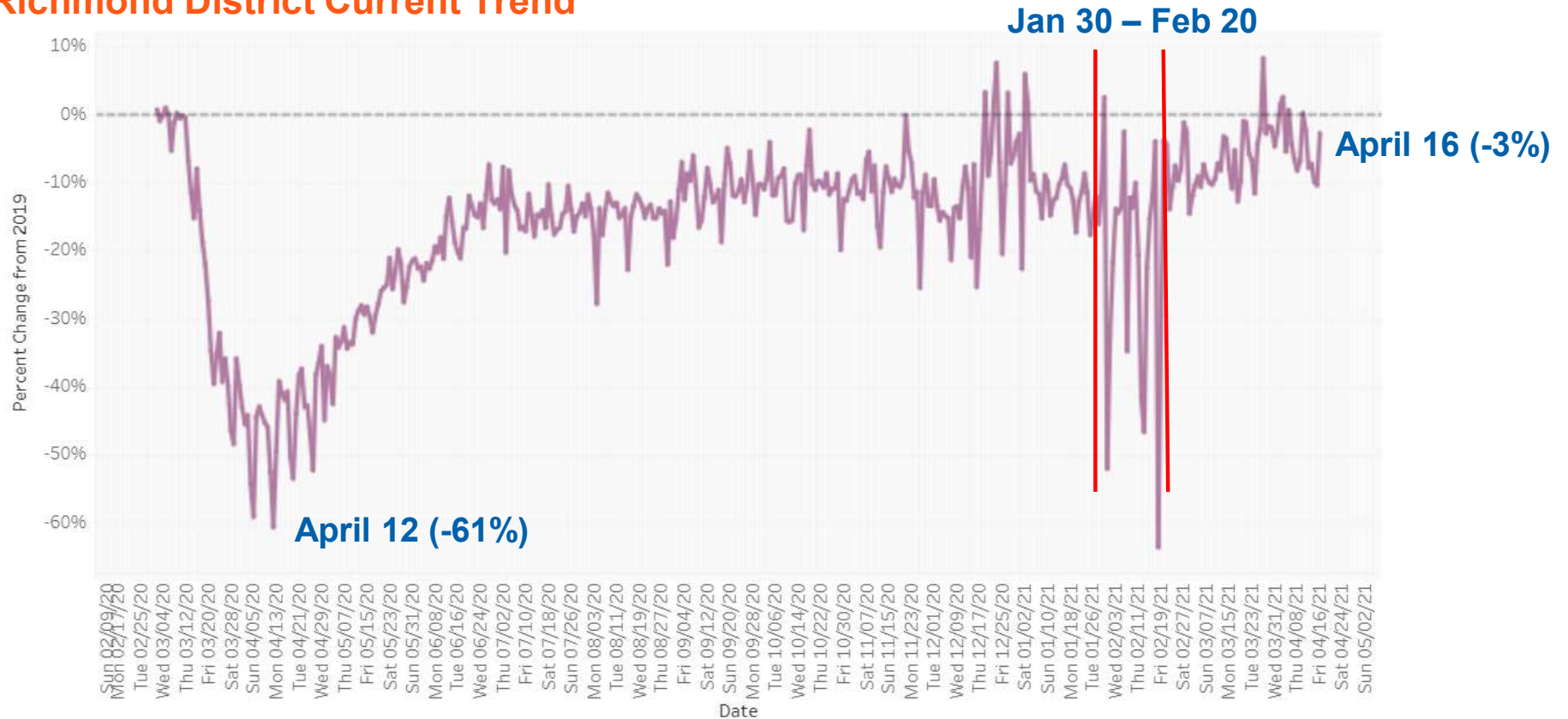


Robb Alexander, P.E.
Central Region Operations Director

May 5, 2021

COVID-19 Impacts on Traffic Volumes

Richmond District Current Trend



COVID-19 Impacts on Traffic Volumes

- **Traffic Volumes (vs. same period 2019)**
 - Stay at Home Order issued (March 30, 2020)
 - Traffic Volumes currently within +/- 5% of pre-COVID
- **Steady Recovery**
 - Currently operating near normal historical volumes
 - Interstate volumes within -5 to +10% of pre-COVID
 - Non-Interstate remains roughly -10% of pre-COVID
 - Commercial/Truck traffic exceeding pre-COVID volumes (10-20%)

Commercial Vehicle Accidents

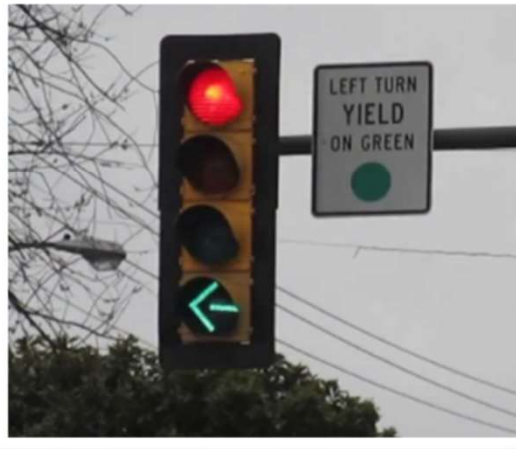


Towing and Recovery Incentive Program (TRIP)

- Averaging 120+ severe crashes annually
- 240 miles of interstate in Richmond divided among 15 tow companies
- Specialized training and equipment
- Timely arrival to scene and lanes clear within 90 minutes
- Max. \$3500 bonus
- 81% meet criteria for bonus incentive payment
- 110 minute reduction in accidents with cargo spill
- 12:1 cost/benefit ratio



High Visibility Signal Backplates and Flashing Yellow Arrow



Electrical Service Upgrades



Non-metered services changed to metered services



Traffic Signal Technology





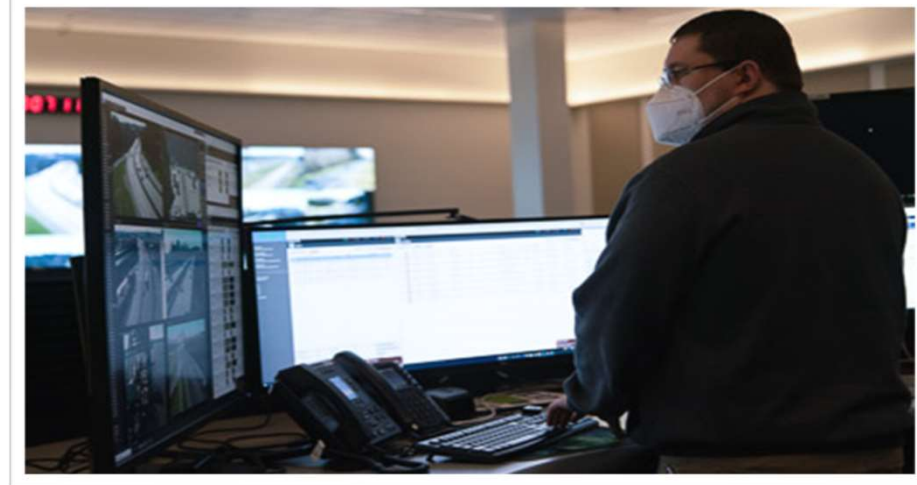
VDOT ESCO Highway Lighting Performance Contract

Replaces existing **High Pressure Sodium (HPS)** luminaires with **Light Emitting Diode (LED)** luminaires and provides a Lighting Control System in **Richmond, Fredericksburg, NOVA and Hampton Roads.**



Joint Safety and Operations Center (JSOC) Update

- August 2020 - VDOT began operations
- November 2020 - VSP began operations
- Tight COVID protocols
 - Off-site location remained functional should an outbreak occur
 - Implemented some telework functions should one or more employees need to quarantine
- Coordination between agencies improving response time, scene clearance, and overall communication



Operations Planned Projects

Richmond District

Project Description	Project Advertisement	
	FY 22	FY 23
ITS On-Call - I-95 CCTV Installations (Greensville to Caroline) (UPC 117780 – Bids Due May 26)	\$2,000,000	\$2,000,000
Districtwide On-Call Pavement Markings (UPC 116559 – Ad May 2021)	\$500,000	\$500,000
Install Pedestrian Signals/Accommodations (UPC 108669 – Ad June 2021)	\$1,000,000	
On-call MASH Guardrail (UPC TBD – Ad Summer 2021)	\$500,000	\$500,000
Districtwide Rumble Strip Installation (UPC 118819 – Ad September 2021)	\$750,000	\$750,000
Signs and Structures Replacement On-call (UPC TBD – Ad Fall 2021)	\$750,000	\$1,000,000
Systemic Curve Delineation – Districtwide (UPC 115887 – Ad June 2022)		\$2,400,000

Contact Information

Robb Alexander
(804) 609-5332
robert.alexander@vdot.virginia.gov



*Blue Ridge Tunnel
West Entrance
near Waynesboro, VA*





VDOT PROJECT I-195 AT LABURNUM AVENUE

Precast Roundabout

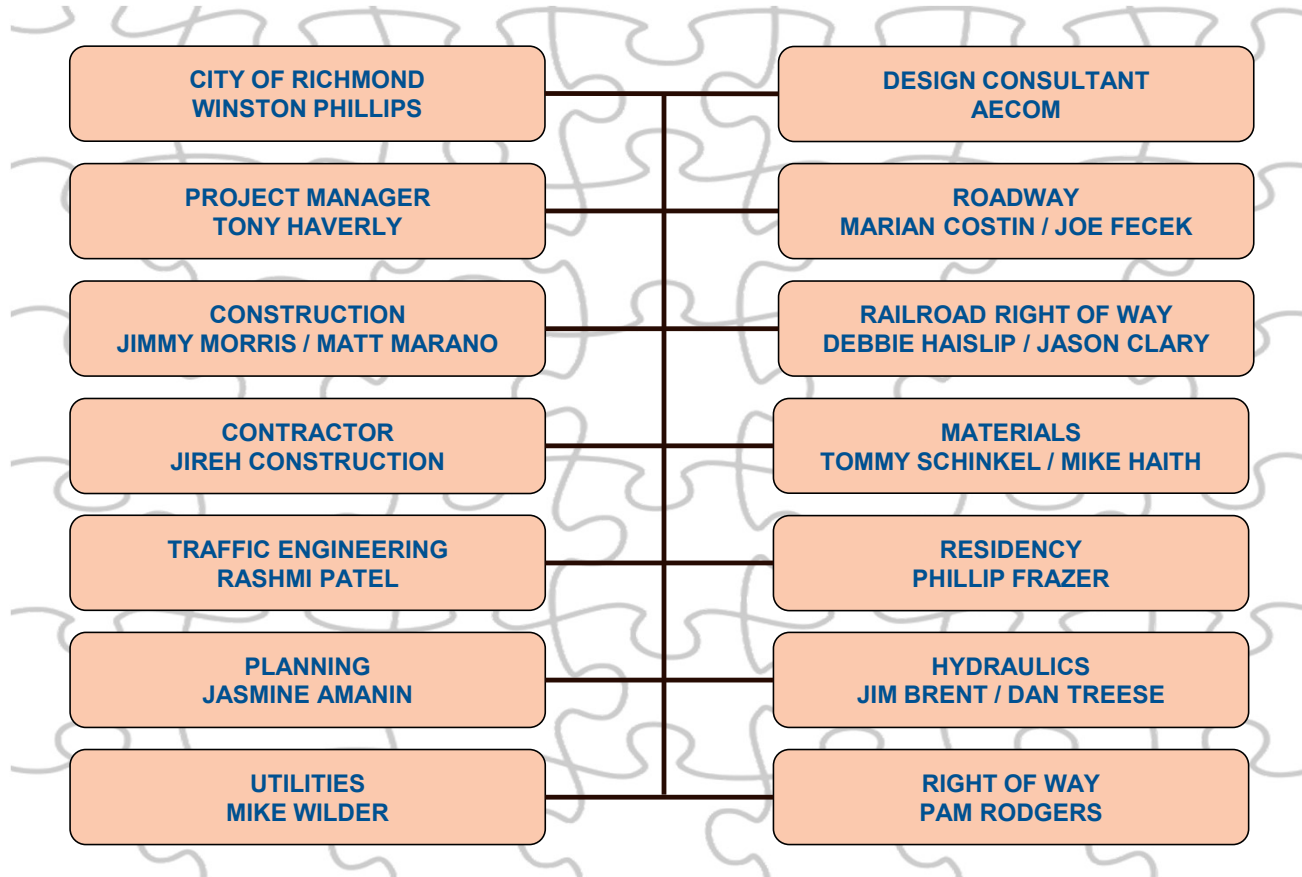
UPC 109311, State Project U000-127-969, P101, R201, C510

Brian Ramsey, P.E.

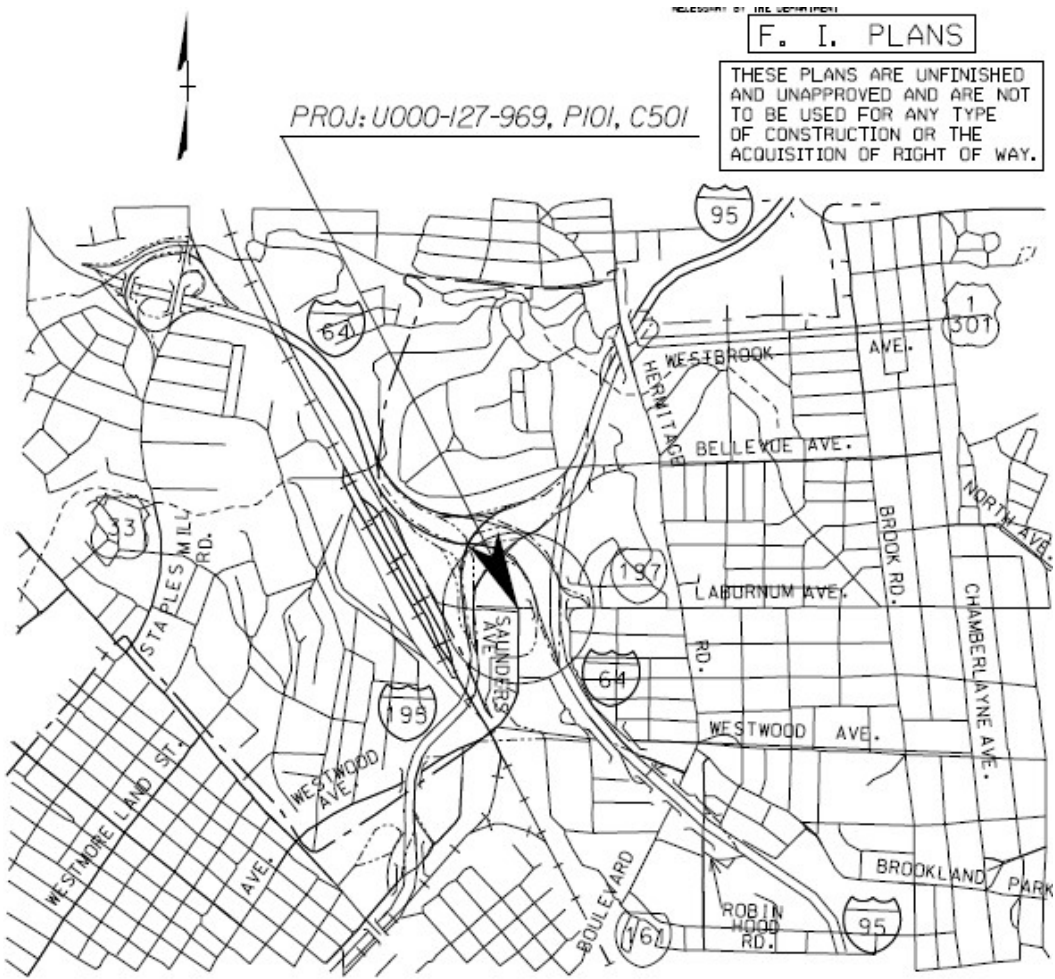
Northern Region Area Construction Engineer

May 5, 2021

Project Team for UPC 109311



Location Map



PROJ: U000-127-969, P101, C501

F. I. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

CITY OF RICHMOND

Purpose and Scope

Purpose and Need

- FY17 Smart Scale to reduce queuing on the northbound and southbound I-195 exit ramps during the peak hours as well as improve the overall safety of the intersections.

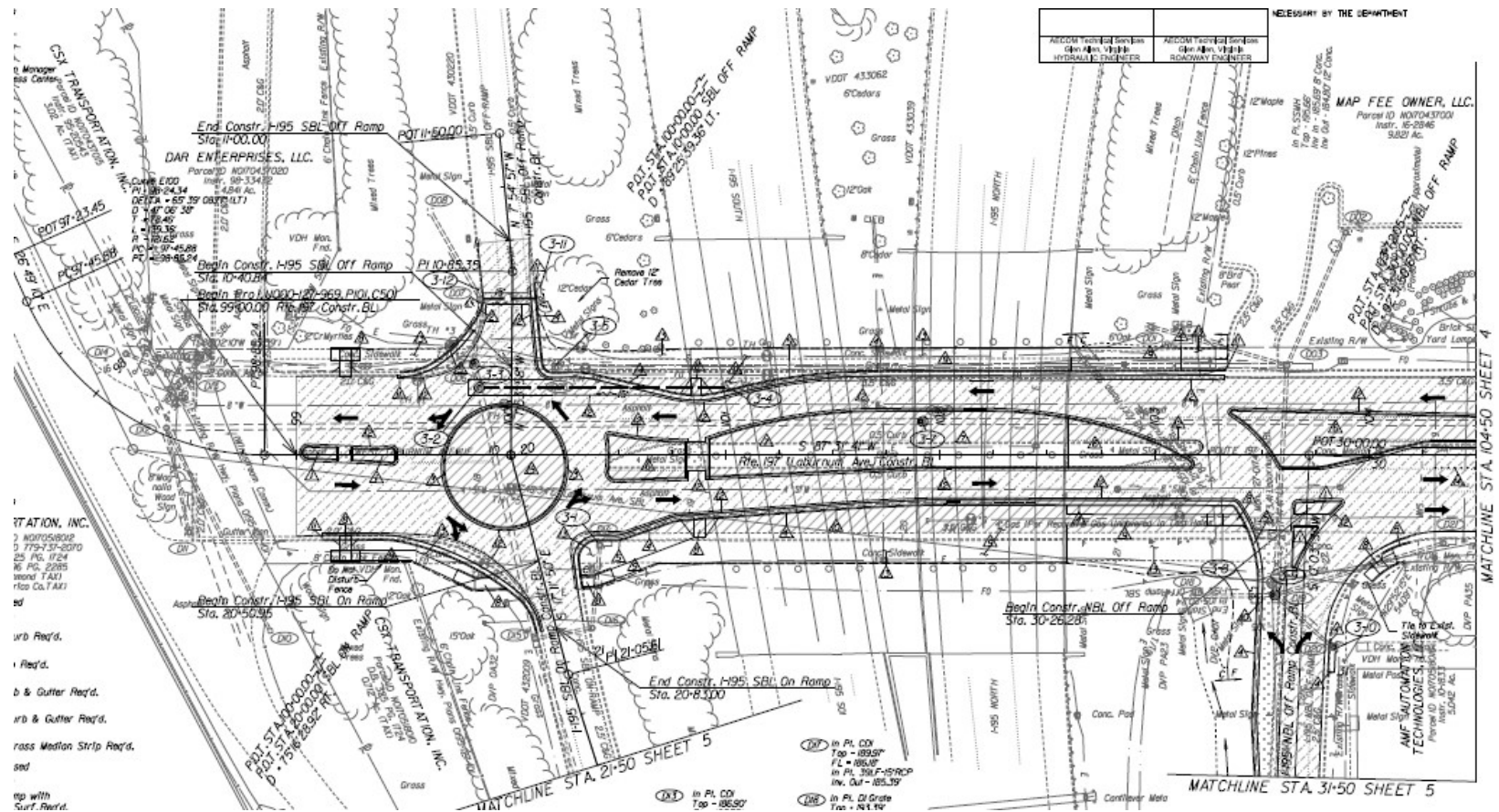
Basic Scope

1. Install a single lane roundabout at the I-195 southbound off-ramp intersection with Laburnum Avenue.
2. Construct a separate left turn lane at the I-195 northbound off-ramp intersection with Laburnum Avenue. Also convert the right turn movement to free flow at this intersection.
3. Convert Laburnum Avenue to a single lane in the vicinity of these intersections.

Contract Details

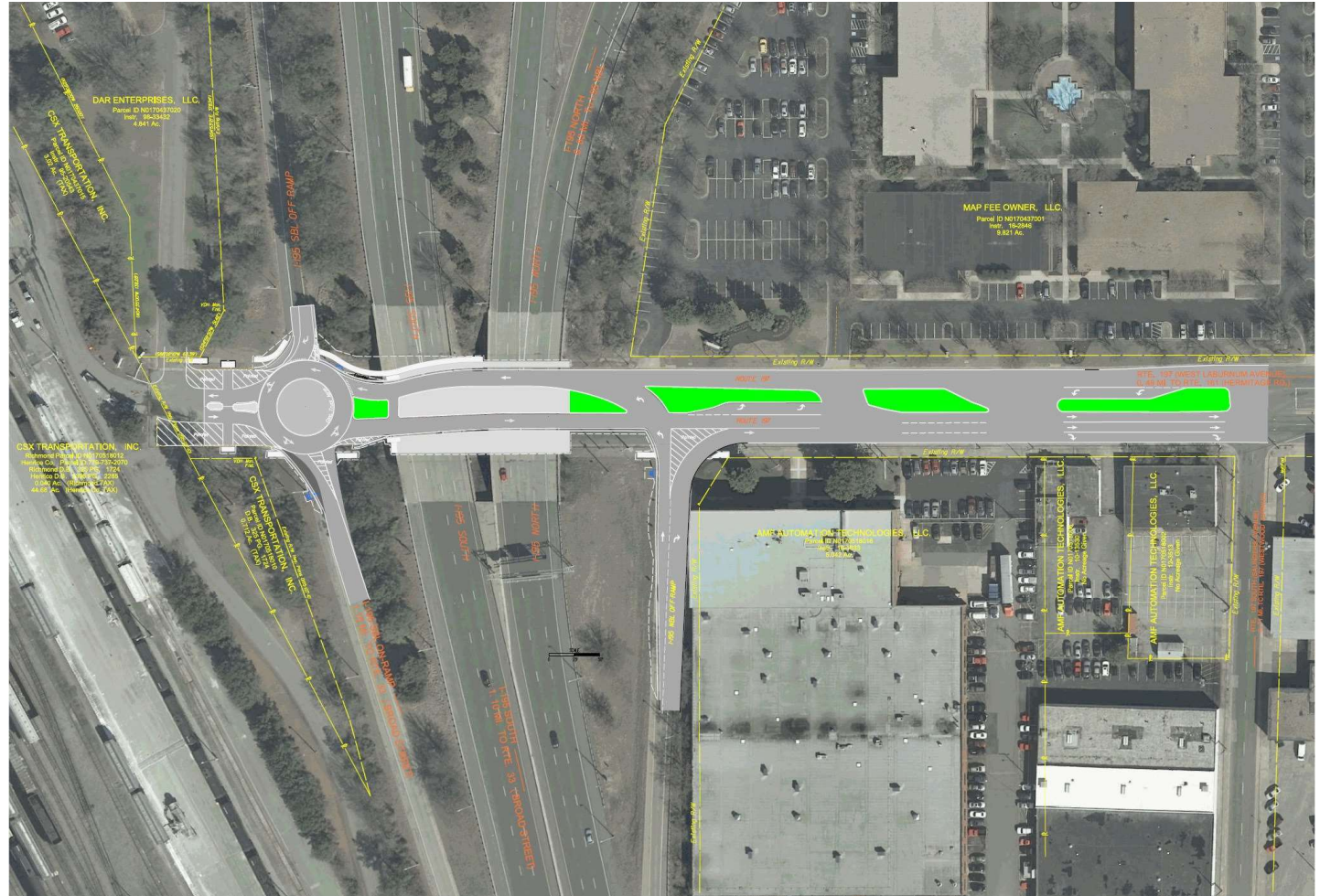
- Order No. B81
- Prime Contractor: Jireh Construction Company, Inc.
- Contract Value: \$1,449,297
- Fixed Completion Date: April 15, 2021
- Substantial Completion Date: December 22, 2020
- Contract Execution: July 14, 2021
- Contractor Start: August 2, 2021
- Major Items
 - Precast Concrete Truck Apron, 284 SY - \$89,460
 - Asphalt 12.5E, 803 Tons - \$120,450
- Convert Laburnum Avenue to a single lane in the vicinity of these intersections

Sheet 3

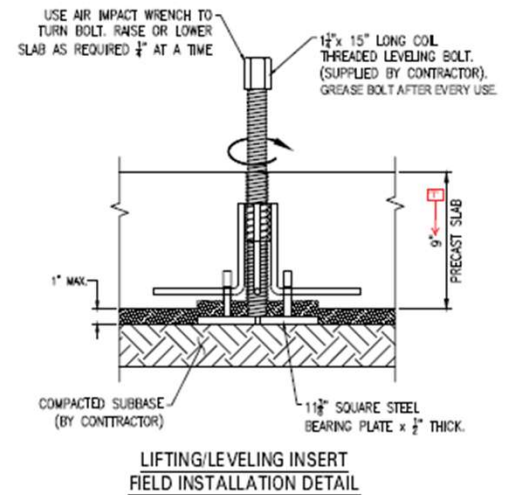
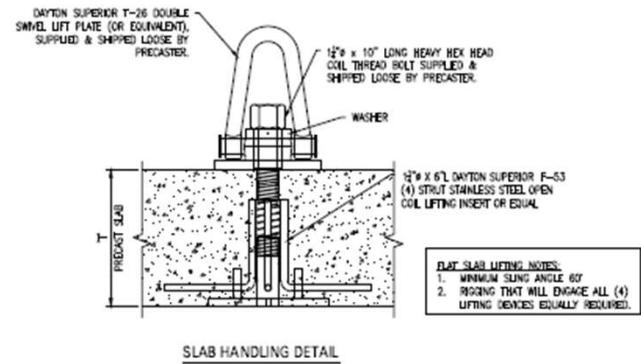
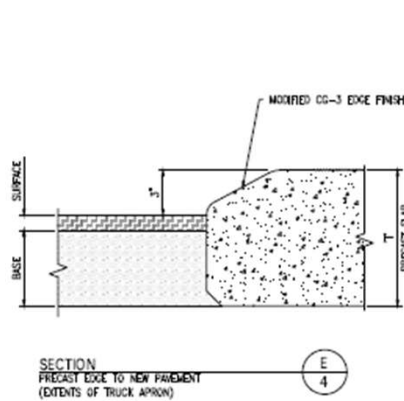
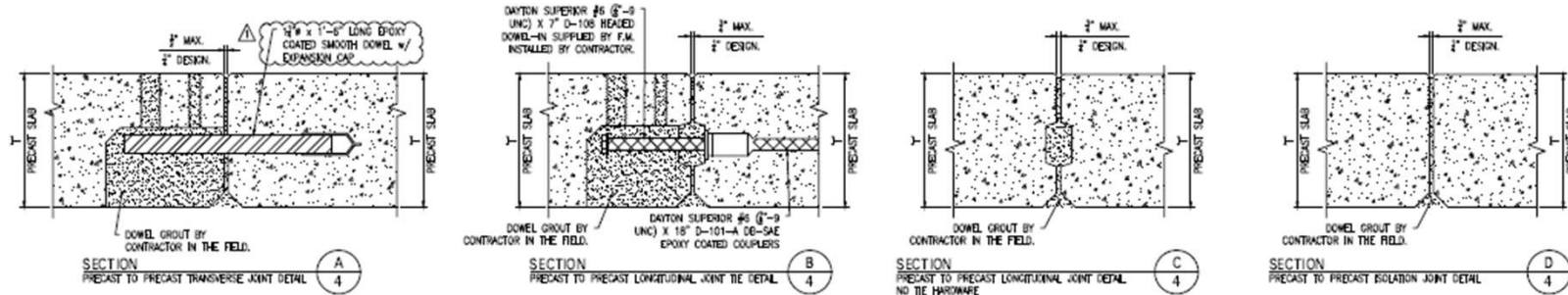


TATION, INC.
 2 4017558302
 3 7797558310
 25 PG. 17.24
 16 PG. 2285
 (revised 1/4/11)
 Hwa Co. FAX
 ed
 urd Road.
 1 Road.
 b & Gutter Road.
 urd & Gutter Road.
 grass Median Strip Road.
 and
 top with
 Surf. Road.

Project Overview



Truck Apron Details



Contractor Perspective

Precast Roundabout Challenges

- Precast special provisions
- Off-site demonstration assembly (performed in NY virtually)
- Installation preparation
 - Removal of existing pavement (milling tolerance)
 - Base preparation and grade control of sand-cement bedding
- Panel installation sequence
 - Center panel critical for correct placement of subsequent panels
 - Minimize handling of precast panels prior to final placement
 - Grouting – self-performed
- Fort Myer representative on-site
- Weekend closure and detour for installation

Key Dates/Milestones

December 9th – Test fit

December 11th – Arrives at jobsite

December 18th – Shut down intersection to begin demo and placement

December 22nd – Open intersection back to traffic

Apron Installation



Apron Installation



Project Overview





I-95 at Route 10 (Exit 61) Interchange Improvements A Phased Approach Through SMARTSCALE

Richmond District Dialogue

May 5, 2021



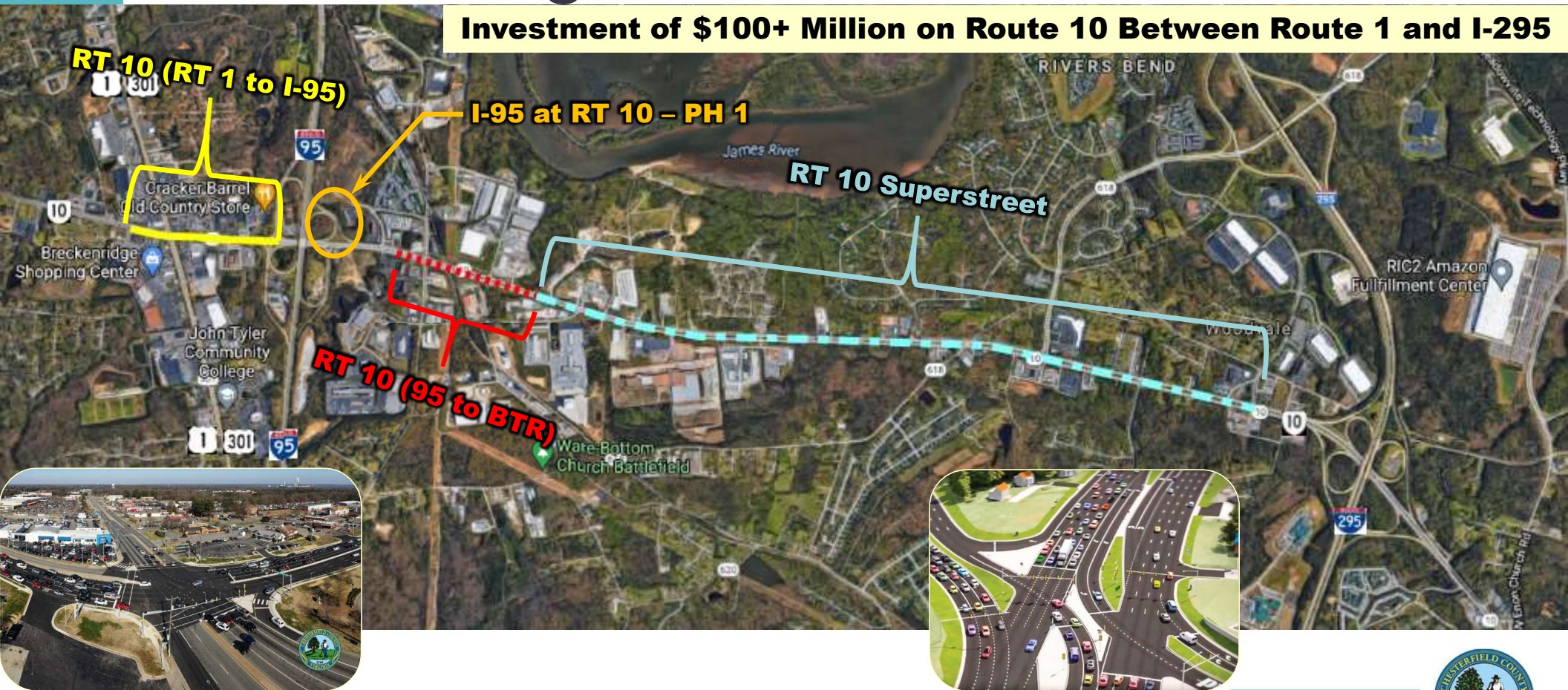
Importance of Route 10 to the County

1. Important commercial and commuter route for Chesterfield County
2. Route 10 carries 52,400 vpd today and an estimated 76,000+ vpd by 2042
3. Industrial access to Meadowville Technology Park

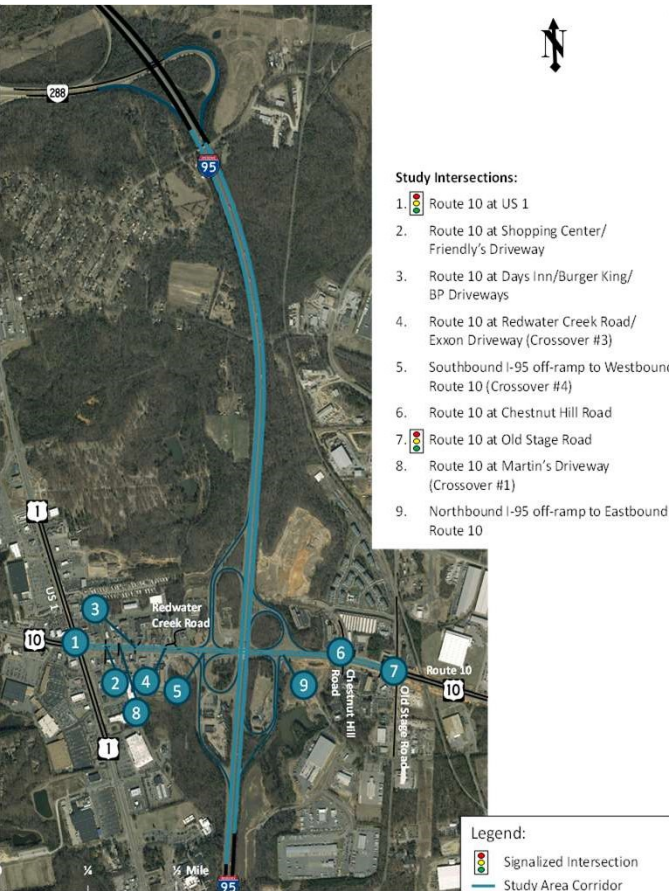


Decades Long Commitment to Route 10

Investment of \$100+ Million on Route 10 Between Route 1 and I-295



Interchange Modification Report



1. Focused on Rte. 10 WB to I-95 NB and I-95 SB to Rte. 10 EB
2. P&N = Improve safety and decrease congestion
3. Studied existing conditions, no-build and build scenarios for Rte. 10 and I-95 at Exit 61 (Rte. 10) and Exit 62 (Rte. 288)
4. Exit 61 alternatives considered included:
 - o Diverging diamond
 - o Partial cloverleaf
 - o New I-95 access points
 - o Auxiliary lanes
 - o Completion of the 8 In. Route 10 to East





I-95 and Route 10 Interchange Improvements

EXIT 61



**I-95 at
Route 10 (Exit 61)**

INTERCHANGE
MODIFICATION
REPORT

Chesterfield County, Virginia

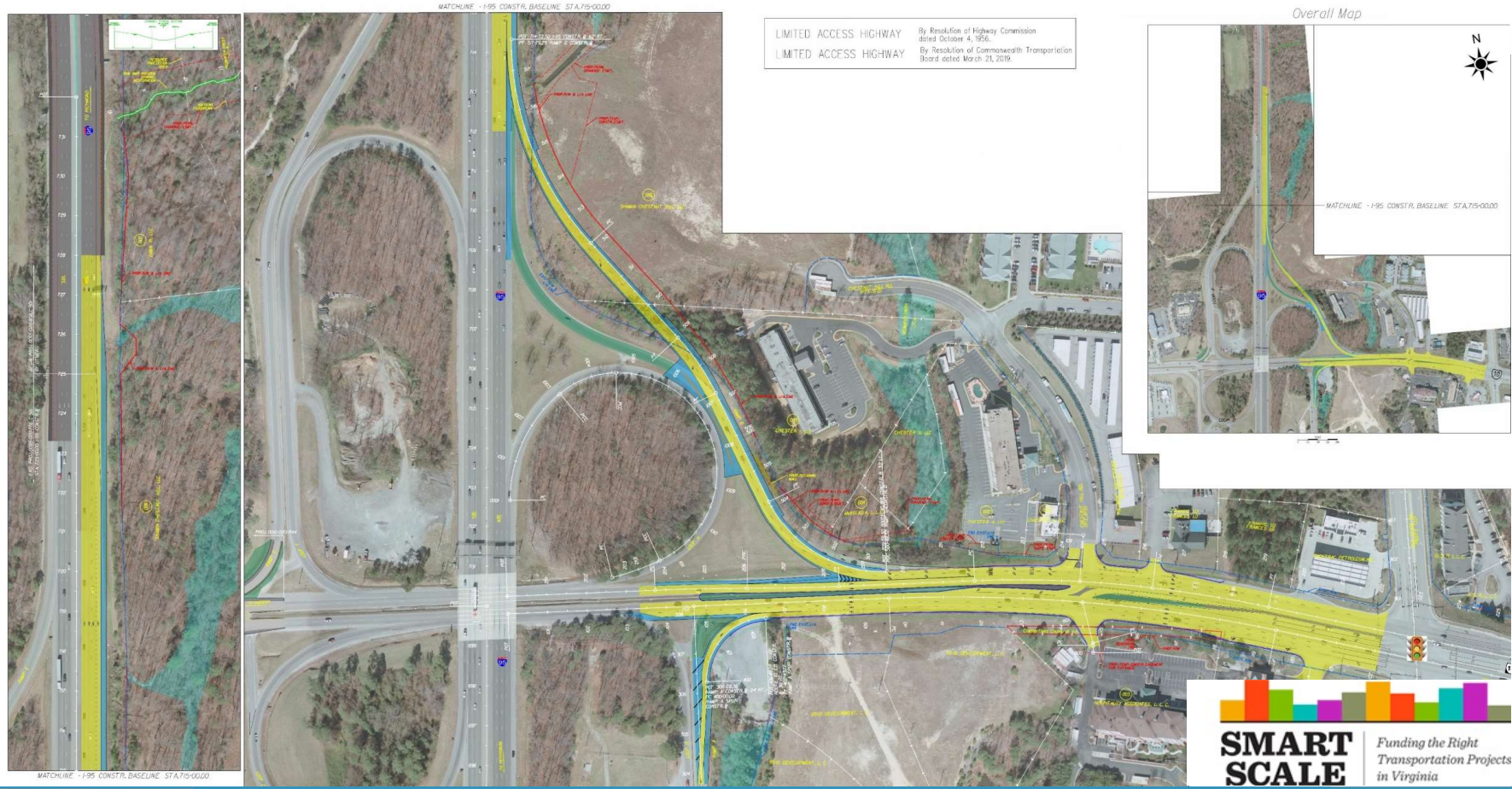
March 16, 2017 | Final

Phase 1 Improvements (UPC 109322)

- Funded through SMARTSCALE Round 1
- Improvements include:
 - New 2 lane on ramp from Rte. 10 WB to I-95 NB
 - New free flow off ramp from I-95 NB to Rte. 10 EB
 - Completes 8 lane cross section for Rte. 10 East of 95



Phase 1 Improvements (UPC 109322)

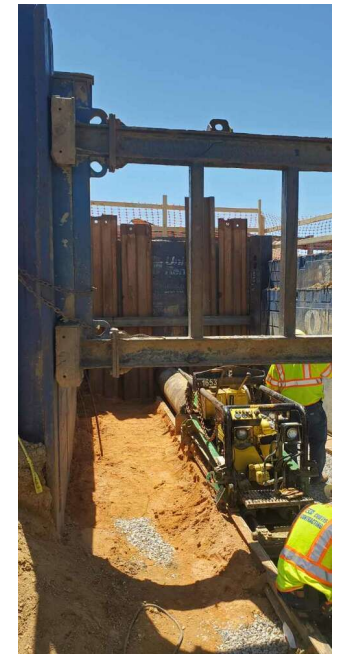
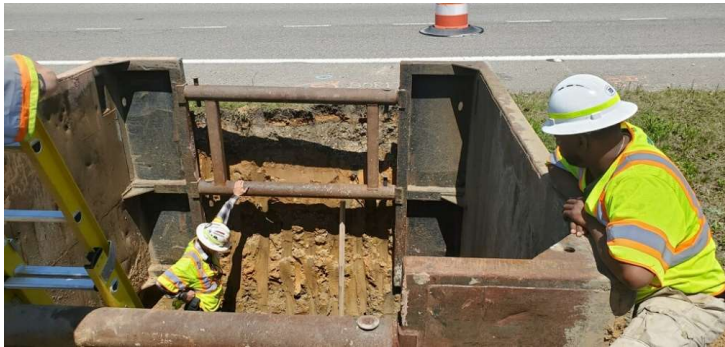


Phase 1 Improvements (UPC 109322)

Construction Update

- \$6,552,090 Million Contract with *Curtis Contracting Inc.*
- May 13, 2022 Fixed Completion Date
- Currently on-time and on-budget
- Currently working water line in Route 10 and Rte. 10 WB to I-95 NB ramp grading

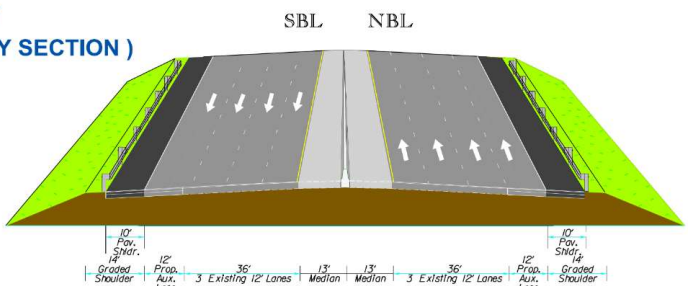
Curtis Contracting Inc.



I-95 (Exit 61 to Exit 62) Aux Lanes (UPC 111466)



RTE 95 - PAVEMENT
(WIDENED OVERLAY SECTION)



I-95 (Exit 61 to Exit 62) Aux Lanes (UPC 111466)

- Total Project Cost Estimate = \$28 million
- Anticipated Advertisement Late 2021
- Anticipated Completion in Late 2023
- Constructs auxiliary lanes on NB & SB I95 between Exit 61 (Rte. 10) and Exit 62 (Rte. 288)
- Total length = 1.4 miles
- Widens existing I-95 bridge over Osborne Rd. (Rte. 616)
- NB builds off Phase 1 Improvements on I-95 NB for a continuous auxiliary lane



Phase 2 Interchange Improvements



- Convert Full Cloverleaf to Partial Cloverleaf Interchange
 - Remove I-95 NB to Rte. 10 WB Loop
 - Remove I-95 SB to Rte. 10 EB Loop
 - Signalized ramp terminal intersections on Rte. 10
 - I-95 NB to Rte. 10 off ramp widening
 - I-96 SB to Rte. 10 off ramp widening
- County, MPO, and VDOT exploring funding through SMARTSCALE, CVTA, and other funding options.
- Completion date TBD

INGREDIENTS OF SUCCESS



TARGETED APPROACH

- Practical Design
- Focused P&N



NAVIGATING



-> Estimating



INNOVATION

- Early Fiber Optic Relocation
- Overhead Sign Structures



PARTNERSHIP



