VTCA CULPEPER/FREDERICKSBURG
DISTRICT DIALOGUE

CULPEPER DISTRICT UPDATE

John D. Lynch, P.E., Culpeper District Engineer
March 19, 2019
District Safety Pledge

Top-down emphasis ... placed in Employee Performance Plans, under goals and expectations. Setting expectations ... one person at a time.

“I support the District goal for Safety Excellence, which is an integral part of everything I do each and every day. I commit to doing my part to identify safety hazards, prevent unsafe acts, report work force injuries and develop safety solutions in order to protect myself and the Team, while promoting a culture of safety. Safety Excellence starts with me.”

Mission First, Safety Excellence Always!
Everyone is responsible for ensuring that our employees, our contractor partners go home safely. We are also responsible for the motorists on our roads; to ensure that each of them reaches their destination safely. Most important, regardless of our job, we are each responsible for our own safety.
Flood Recovery: We are Still Working on It
Culpeper District Project Development

Greg Cooley, P.E.
Assistant District Administrator for Construction & Preliminary Engineering
Gregory.Cooley@VDOT.Virginia.gov
Project Development Section Heads

Location and Design Engineer  
Mike Jacobs

Environmental Manager  
Rick Crofford

Structure & Bridge Engineer  
Teresa Gothard

District Traffic Engineer  
Nathan Umberger
### FY2018 PE Performance

**July 2017 – June 2018**

<table>
<thead>
<tr>
<th>Measure</th>
<th>FY18 Target</th>
<th>FY18 Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>VDOT Advertisement OT</td>
<td>70%</td>
<td>100%</td>
</tr>
<tr>
<td>VDOT Advertisement OB</td>
<td>74%</td>
<td>100%</td>
</tr>
</tbody>
</table>
## FY2019 PE Performance

**July 2018 – June 2019**

<table>
<thead>
<tr>
<th>Measure</th>
<th>FY19 Target</th>
<th>FY19 Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>VDOT Advertisement OT</td>
<td>70%</td>
<td>41%</td>
</tr>
<tr>
<td>VDOT Advertisement OB</td>
<td>74%</td>
<td>85%</td>
</tr>
<tr>
<td>LAP Advertisement OT</td>
<td>70%</td>
<td>90%</td>
</tr>
<tr>
<td>LAP Advertisement OB</td>
<td>74%</td>
<td>64%</td>
</tr>
</tbody>
</table>
Round 1: $85M
Round 2: $51M
Round 3: $21M
Round 3
Culpeper District Allocation

$21 Million
$19 Million
$2 Million

VDOT Administered
Locally Administered
$6.2 M  Roundabout at Route 3 and McDevitt Dr, Town of Culpeper
$12.7M  West Main Streetscape, City of Charlottesville
$7.1M  Rte 29/Freemans Ford Rd Alternative Intersection, Fauquier Co.
$5.5M  US 33/Route 20 East Roundabout, Orange Co.
Environmental Update

Greg Cooley, P.E.
Assistant District Administrator
for Construction & Preliminary Engineering
Gregory.Cooley@VDOT.Virginia.gov
Environmental Plan Sheets

Pilot 2019 Construction Season

Official Launch 2020 Construction Season
Purpose

• Establishes procedures for noncompliance with CGP
• Establishes methods and tools for quantifying noncompliance activities
DEQ Guidance Memo No. 18-2012

Point Assessment Criteria Levels

- Informal Corrective Actions
- Written Letter
- Referral to the Division of Enforcement using a Notice of Violation

****POINT SYSTEM****
DEQ Points

- Staff compiles list of all non-compliance points and uses the sum of all points calculated to determine response
  - ≥4 Points = NOV
  - ≥2 Points but less than 4 = Warning Letter
  - < 2 Points = Written notice in the inspection report

- Point totals for a site should be evaluated CUMULATIVELY over rolling 12 month period (first inspection), unless corrections performed 6 months prior may be excluded
- Points double for repeat occurrences of SWPPP documentation items and failure to install and implement CGP requirements
DEQ Points

- Point totals for a site evaluated **CUMULATIVELY**
- Points Double
  - Repeat occurrences of SWPPP documentation items
  - Failure to install and implement CGP requirements
Culpeper Construction

Greg Cooley, P.E.
Assistant District Administrator
for Construction & Preliminary Engineering
Gregory.Cooley@VDOT.Virginia.gov
Construction Section Heads

Northern Region ACE
Satish Airi, PE

Southern Region ACE
Mauris Mackenzie, PE

ACE (Design-Build/LAP)
Will Stowe, PE

District Materials Engineer
Haroon Shami, PE

District Contracts Manager
Michael Coffey, VCO
2019 Construction Program

FY 2019
• 16 projects to be delivered in 2019
• Total Value: $35 million

Active Contracts
• $61 million
## FY2019 CN Performance

**July 2018 – June 2019**

<table>
<thead>
<tr>
<th></th>
<th>FY19 Target</th>
<th>FY19 Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Time (all projects)</td>
<td>77%</td>
<td>77%</td>
</tr>
<tr>
<td>On-Budget (all projects)</td>
<td>85%</td>
<td>88%</td>
</tr>
<tr>
<td>Environmental Compl.</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>CQIP</td>
<td>91%</td>
<td>97%</td>
</tr>
</tbody>
</table>
## Upcoming Work

<table>
<thead>
<tr>
<th>Date</th>
<th>Project</th>
<th>Estimated Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Award 2019</td>
<td>Albemarle County DB Bundle</td>
<td>$40M</td>
</tr>
<tr>
<td>Award 2019</td>
<td>Vint Hill (Cut the Hills)</td>
<td>$3.6M</td>
</tr>
</tbody>
</table>
Current Consulting Services:

District Wide CEI Services
1 - Alpha Corporation (Term 1, Year 2)
2 - WR&A (Term 1, Year 1)

Statewide Final Audits
1 - MBP (Term 1, Year 1)
2 - Woolpert (Term 1, Year 1)
Focus for 2019

• Safety
• Environmental Compliance
• Collaboration
• Decision Making
VTCA CULPEPER/FREDERICKSBURG DISTRICT DIALOGUE
WARRENTON SOUTHERN INTERCHANGE US 15/17/29

Will Stowe, P.E., Culpeper Area Construction Engineer
March 19, 2019
Agenda

• Project Overview
• Journey Through Hallowed Ground
• Alternative Technical Concepts
• Plan Grid
• Current and Upcoming Construction Activities
Project Overview

- **Two Phase Design-Build Procurement Method**
- **Location**
  - Fauquier County, Virginia
- **Project**
  - Constructing a grade-separated interchange where U.S. Route 15/17/29 intersects Business U.S. Route 15/17/29 to the west and Lord Fairfax Drive (Route 808) to the east.
Project Overview

Existing Condition ↓

Planned Interchange ↑

• Significantly reduce the number of rear end collisions
• Increase overall safety
• Improve capacity & reduce congestion
• Interconnect multiple roadway types by way of one interchange
• Provide parking for commuter traffic
Project Team
Project Budget/Schedule

- **Total Budget**: $26,930,540.00
- **Contract Value**: $19,586,838.00
  - **Base Scope**: $19,383,818.00
  - **Option 1 (Construct SUP)**: $101,250.00
  - **Option 2 (Mill & Overlay Mainline)**: $101,770.00
- **Contract Execution**: March 7, 2018
- **Notice to Proceed**: March 26, 2018
- **Milestone - Remove Existing Signal**: July 1, 2020
- **Final Completion**: November 25, 2020
Journey Through Hallowed Ground
Alternative Technical Concepts

- Proprietary Meeting #1 utilized to discuss general issues and questions related to the project including any potential ATCs the Offeror is considering.
- Proprietary Meeting #2 utilized for the Offeror to provide a presentation of the ATCs the Offeror plans to submit as a formal ATCs.
- Formal submission of ATCs
Alternative Technical Concepts

- Roundabout shifted farther to the Southeast
- Ramp to NB Bypass relocated to eliminate a retaining wall adjacent to Turkey Run residents
20 Space Park and Ride relocated within VDOT right-of-way eliminating the need to acquire property for the lot

Elected to purchase nutrient credits; eliminated all SWM quality facilities
PlanGrid

Report Information

Date: Mar 11, 2019
Description: Copied from Mar 7, 2019
Submitted by: Jason S.
Submitted on: Mar 12, 2019 at 8:43 AM

Weather

Partly Cloudy
High 62°F  Low 44°F
Wind 4 mph, E
Humidity 37%
Precipitation
Powered by Dark Sky

References

Photos

Untitled Mar 11, 2019
Untitled Mar 11, 2019
Untitled Mar 11, 2019
Untitled Mar 11, 2019
Untitled Mar 11, 2019

Inspector’s Daily Report

Date: 3/11/19
Project No.: CO0077384DB100
Project Name: Warrenton St
Inspector: Jason Settle
Hours Worked: From 8:00 AM To 4:30 PM

Overview of Work Performed on this Date:

General Notes

Maintenance of Traffic
Activity GA1980 Initial MOT devices/Construction Signage
Shirley has a crew on site working on the installation of MOT signs.
Shirley utilizing a shadow vehicle on Rte 29 right shoulder for check dam installation.
Discussed this operation with QA Inspector, Mventional, over the phone. Told QA that I did not
observe any shoulder closure signs and the shadow vehicle was a utility truck and it should
have been a TMA for the shoulder of Rte 29 N.

An existing sign at the intersection of Lord Fairfax Rd and Rte 29 N has been knocked down
however the traffic signal mast arm has the same sign posted. No TMA on Red.

Environmental/Erosion and Sediment Control
Activity G1A3020 Install Perimeter erosion controls east of US 1517/29
Shirley working on installing check dams at various locations for phase 1 environmental
controls.
Upcoming Subcontracting Opportunities

• Landscaping – 70,000 SF

• Pavement Markings
  • Permanent – 34,497 LF
  • Temporary – 103,131 LF
  • Eradication – 34,377 LF

• Pedestrian Fencing

• Underdrain
Major Planned Quantities

- Regular Excavation – 122,700 CY
- Drainage Pipe – 2,440 LF
- Drainage Structures – 88 EA
- Asphalt – 22,890 TN
- Flexible Planing – 11,500 SF
- Guardrail – 6,025 LF
- Median Barrier – 2,450 LF
- Bridge Deck – 760 SY
For More Information About Warrenton Southern Interchange Project:

http://www.virginiadot.org/projects/culpeper/warrentoninterchange.asp

Or Google: “Warrenton Southern Interchange”
CULPEPER DISTRICT
LOCAL ASSISTANCE
PROGRAM

Kim Cameron, PE, Program Manager
LAP – Project Progression

- **PE Phase**
  - LAP Group

- **RW Phase**
  - LAP Group

- **CN Phase**
  - LAP Group
CULPEPER DISTRICT
LOCAL ASSISTANCE

LAP Coordinators

Charlottesville Residency Counties & Towns
Kim Cameron

City of Charlottesville
Michael Barnes

Warrenton Residency Localities
John Price

Louisa Residency Localities
Kim Cameron
Key Team Members for LAP Projects
VDOT Project Pre-Construction Meeting Attendance Sheet

- 16 VDOT staff
- Versus 1 PC for LAP projects
Types of LAP Projects

- Streetscape projects
- New roadways & roadway improvements
- Sidewalks & shared use paths
- Paving Projects
- Bridge Projects
- Roundabouts
- Transportation structures renovations (freight depots, etc.)
Outlook for local projects in 2019

- Currently $137M in local projects in Culpeper District
- Application cycle opens this spring for Transportation Alternatives (TA) and Revenue Sharing (RS) projects
  - Mandatory pre-applications due July 1, 2019
- TA and RS projects make up the majority of LAP projects so more will be coming for FY21 and FY22.
- Smart Scale, HSIP, SGR, etc. are other possible LAP projects
# Streetscape projects to be bid in 2019

<table>
<thead>
<tr>
<th>Funding Type</th>
<th>Project</th>
<th>Est. Bid Date</th>
<th>Construction Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA</td>
<td>East Main St. – Town of Orange</td>
<td>June 2019</td>
<td>$ 550,000</td>
</tr>
<tr>
<td>TA</td>
<td>Stanardsville Streetscape – Greene County</td>
<td>Dec. 2019</td>
<td>$ 1,000,000</td>
</tr>
<tr>
<td>TA</td>
<td>Marshall Main St. – Fauquier County</td>
<td>July 2019</td>
<td>$ 3,600,000</td>
</tr>
</tbody>
</table>
# Road projects to be bid in 2019

<table>
<thead>
<tr>
<th>Fund Type</th>
<th>Project</th>
<th>Estimated Bidding</th>
<th>Construction Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA</td>
<td>Road Diet – Town of Culpeper</td>
<td>Nov. 2019</td>
<td>$ 1,600,000</td>
</tr>
<tr>
<td>RS</td>
<td>Salem Ave. Ext. – Fauquier Co.</td>
<td>Aug. 2019</td>
<td>$ 1,700,000</td>
</tr>
<tr>
<td>HSIP</td>
<td>Monticello/Ridge Int. – Charlottesville</td>
<td>June 2019</td>
<td>$ 209,000</td>
</tr>
<tr>
<td>HSIP</td>
<td>Monticello/2&lt;sup&gt;nd&lt;/sup&gt; St. Int. – Charlottesville</td>
<td>June 2019</td>
<td>$ 338,000</td>
</tr>
<tr>
<td>RS</td>
<td>Rosehill/Rugby Int. – Charlottesville</td>
<td>September 2019</td>
<td>$ 190,000</td>
</tr>
</tbody>
</table>
## Sidewalks & trails to be bid in 2019

<table>
<thead>
<tr>
<th>Funding Type</th>
<th>Project</th>
<th>Estimated Bidding</th>
<th>Construction Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS</td>
<td>Ivy Road SW – Albemarle Co.</td>
<td>October 2019</td>
<td>$1,600,000</td>
</tr>
<tr>
<td>RS</td>
<td>Avon/Rio/250 SW – Albemarle Co</td>
<td>September 2019</td>
<td>$2,500,000</td>
</tr>
<tr>
<td>TA</td>
<td>Cale Elementary SW – Albemarle Co.</td>
<td>November 2019</td>
<td>$420,000</td>
</tr>
<tr>
<td>TA</td>
<td>Woods of Warrenton Trail – Fauquier Co.</td>
<td>April 2019</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>TA</td>
<td>Timber Fence Trail – Town of Warrenton</td>
<td>December 2019</td>
<td>$400,000</td>
</tr>
<tr>
<td>TA</td>
<td>250 Bypass Trail – Charlottesville</td>
<td>Bids due 3/15/19</td>
<td>$968,000</td>
</tr>
<tr>
<td>TA</td>
<td>Rugby Ave Trail – Charlottesville</td>
<td>June 2019</td>
<td>$419,000</td>
</tr>
<tr>
<td>TA</td>
<td>Water St. – Charlottesville</td>
<td>Bids due 3/15/19</td>
<td>$353,000</td>
</tr>
<tr>
<td>RS</td>
<td>Rosehill Sidewalk – Charlottesville</td>
<td>May 2019</td>
<td>$200,000</td>
</tr>
</tbody>
</table>
## Historic Transportation Facilities to be Bid in 2019

<table>
<thead>
<tr>
<th>Funding Type</th>
<th>Project</th>
<th>Estimated Bidding</th>
<th>Construction Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA</td>
<td>Remington Freight Depot – Fauquier Co.</td>
<td>December 2019</td>
<td>$ 100,000</td>
</tr>
<tr>
<td>TA</td>
<td>Gordonsville Freight Depot – Gordonsville</td>
<td>September 2019</td>
<td>$ 100,000</td>
</tr>
</tbody>
</table>
Consulting Opportunities for 2019

• RFP CEI for Timber Fence Trail ($400,000 CN, Warrenton) Spring 2019
• RFP for Design for Meadow Creek Valley Trail ($265,000 CN, Charlottesville) April 2019
• Possibly other CEI opportunities
• Assisting localities with applications & estimates
Dashboard Goals

PROJECT DEVELOPMENT OVERVIEW

ON-TIME PERFORMANCE

- Status On-Time Count: 18
- Active Budget: $46M
- Completed Count: 19
- Total Budget: $46M

ON-BUDGET PERFORMANCE

- Status On-Budget Count: 1
- Active Budget: $1M
- Completed Count: 8
- Total Budget: $1M

(Target: 70% of Projects Complete Development Phase On-Time)

(Target: 74% of Projects Complete Development Phase On-Budget)
District Locality Day planned

• First Locality Day planned for April 25, 2019
• Better Applications = Better Projects
  • Culpeper District Auditorium
  • For Culpeper District localities
LAP Program Goals

• Foster a Partnership with Localities
• Deliver Quality Projects that meet the Localities Expectations
• Deliver projects that are on time and on budget.
CULPEPER DISTRICT

Maintenance

David Pearce, PE  
District Maintenance Engineer  
David.Pearce@VDOT.Virginia.gov
### Maintenance Section Heads

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure and Bridge Engineer</td>
<td>Teresa Gothard, PE</td>
</tr>
<tr>
<td>Infrastructure Manager</td>
<td>Travis Estes</td>
</tr>
<tr>
<td>Equipment Manager</td>
<td>John Brunette</td>
</tr>
<tr>
<td>Traffic Engineer</td>
<td>Nathan Umberger, PE</td>
</tr>
</tbody>
</table>
CULPEPER DISTRICT MAINTENANCE

Pavement contract look-ahead

Ongoing Paving Contracts CY 2019

4 Plant Mix Contracts
1 Latex Modified Contracts
1 Surface Treatment Contracts
1 Slurry Seal
# CULPEPER DISTRICT MAINTENANCE

## Paving schedules, 2016-2019

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quantity</td>
<td>Lane Miles</td>
<td>Quantity</td>
<td>Lane Miles</td>
</tr>
<tr>
<td>Asphalt (Tons)</td>
<td>218,166</td>
<td>237</td>
<td>281,617</td>
<td>301</td>
</tr>
<tr>
<td>LMET (Tons)</td>
<td>9,758</td>
<td>118</td>
<td>3,790</td>
<td>46</td>
</tr>
<tr>
<td>Surface Treatment (SY)</td>
<td>2,041,454</td>
<td>356</td>
<td>2,393,154</td>
<td>433</td>
</tr>
<tr>
<td>Slurry Seal (SY)</td>
<td>109,012</td>
<td>17</td>
<td>104,079</td>
<td>13</td>
</tr>
<tr>
<td>Totals</td>
<td>711</td>
<td>797</td>
<td>901</td>
<td>805</td>
</tr>
<tr>
<td>Interstate</td>
<td>7</td>
<td>21</td>
<td>23</td>
<td>8</td>
</tr>
<tr>
<td>Primary</td>
<td>228</td>
<td>217</td>
<td>251</td>
<td>208</td>
</tr>
<tr>
<td>Secondary</td>
<td>476</td>
<td>559</td>
<td>627</td>
<td>589</td>
</tr>
</tbody>
</table>

*Estimate* $26.9 million $34.0 million 35.0 million $33.0 million

* Includes contract, CEI, contingencies, requirements
Pavement Condition
Ongoing Construction
• 2 Contracts – 2 Bridges (Award Amount ~ $2.7 Mil)
  ➢ UPC 140430 – Rte. 211 over Thornton River, Rappahannock Co.
  ➢ UPC 104848 – Rte. 629 over Middle Fork Kent’s Branch, Fluvanna Co.

Upcoming Construction
• 1 Bridge restoration, estimate ~ $3.2 Mil
  ➢ UPC 113441 – Waterloo Bridge, Rte. 613 over Rappahannock River
• 1 Bridge rehabilitation, estimate ~ $2.1 Mil
  ➢ UPC 95112 – Rte. 15 over Rappahannock River, Fauquier Co.
• 1 Bridge replacement, estimate ~ $3.2 Mil
  ➢ UPC 87954 – Rte. 635 over Norfolk Southern RR, Orange Co.

Design (Estimate ~ $28.4 Mil)
➢ 13 Bridge Replacement/Rehab Projects ($26.6 Mil)
  & 5 Bridge Replacement/Rehab Projects with early SGR PE funds only
CULPEPER DISTRICT MAINTENANCE

Traffic Engineering

Highway Safety Improvement Program
  • District has total annual allocation of $4-4.5 million for safety projects/countermeasures

FY2025 Projects:
  • 1 New VDOT project programmed worth $800,000
    ➢ Signal system upgrades in Albemarle County
  • 3 Locally administered projects $1.77 million
    ➢ Towns of Scottsville & Warrenton: Pedestrian safety & mini-roundabouts

Other contracts to be procured in 2019
  • On-call pavement marking retrace contract
  • On-call raised pavement marker maintenance contract
  • On-call guardrail hits contract
CULPEPER DISTRICT

QUESTIONS?