



www.VirginiaDOT.org

Public Information Meeting
**Route 123 over Route 7
Bridge Rehabilitation
Fairfax County**

**Thursday, May 30, 2019
6:30 p.m. to 8:30 p.m.
Presentation starts at 7 p.m.**

Freedom Hill Elementary School
1945 Lord Fairfax Road
Vienna, VA 22182

Public Information Meeting

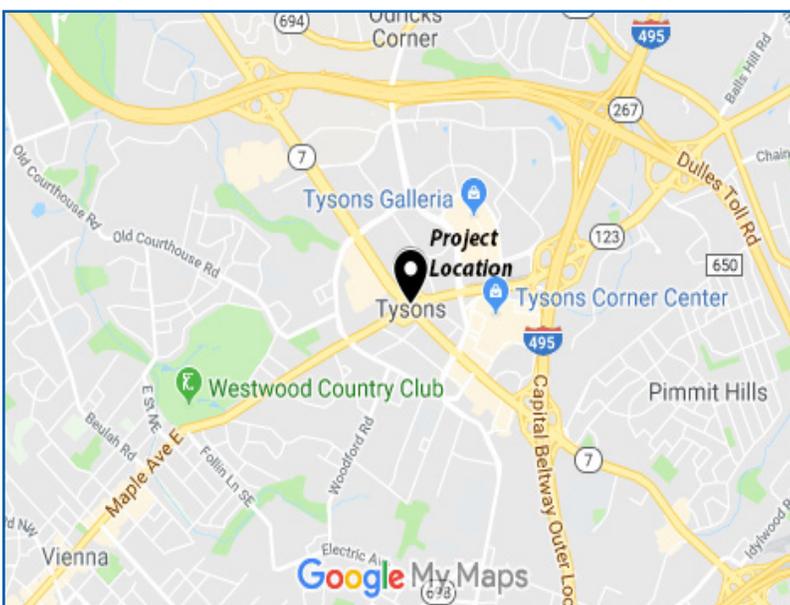
Welcome to the Virginia Department of Transportation's (VDOT) public information meeting about plans to rehabilitate the northbound and southbound Route 123 (Chain Bridge Road) bridges over Route 7 (Leesburg Pike) to improve safety for drivers, bicyclists and pedestrians and extend the overall life of the bridges. We look forward to your active participation.

This meeting is being held to provide an opportunity for residents and organizations to give VDOT comments and/or suggestions on the

proposed project. VDOT strives to ensure that all members of the community have the opportunity to participate in public decisions on transportation projects and programs affecting them.

VDOT representatives are here to discuss the project and answer your questions. We have included a comment sheet with this brochure and encourage your input. All written comments received will be reviewed by the design team, summarized and made available on the VDOT project website.

Project at a Glance



Purpose: Aims to improve safety for drivers, bicyclists and pedestrians and extend the overall life of the bridges.

Lengths and Limits: Route 123 from just south of Route 7 to just north of Route 7

Phase: In Design

Construction Begin Date: Early 2020

Cost: \$2.5 million

These costs are subject to change as the project is further developed. This project is being financed with federal and state funding.

Project Overview

This project will rehabilitate the northbound and southbound Route 123 (Chain Bridge Road) bridges over Route 7 (Leesburg Pike) to improve safety for drivers, bicyclists and pedestrians and extend the overall life of the bridges. The bridges were built in 1965. The planned improvements include:

- Repairing and resurfacing the concrete bridge decks.
- Repairing, waterproofing and providing corrosion protection to bridge piers, abutments and bearings.
- Painting steel bridge beams.
- Repaving Route 123 adjacent to the bridges.

The project is being financed with federal and state State of Good Repair funds used for maintenance of structures and bridges.

In this area, Route 123 averages up to 31,000 vehicles a day and Route 7 averages up to 64,000.

Civil Rights

VDOT ensures nondiscrimination and equal employment in all programs and activities in accordance with Title VI and Title VII of the Civil Rights Act of 1964. If you need more information or special assistance for persons with disabilities or limited English proficiency, contact Gang Zhang, P.E. at 703-259-2770 or TTY/TDD 711.

Get Involved

VDOT will review and evaluate any information received as a result of the public information meeting. The comment sheet and brochure are provided to assist in making your comments. You may leave the sheet or any other written comments in the comment box, or mail/email your comments.

Comments must be postmarked, emailed or delivered to VDOT by **June 10, 2019**. Mail comments to Gang Zhang, P.E. at the address below or email meetingcomments@vdot.virginia.gov.

Contact Information

Primary Contact:
Mr. Gang Zhang, P.E.

Structure & Bridge

4975 Alliance Drive
Fairfax, VA 22030

703-259-2770

Environmental Review

Pursuant to the National Environmental Policy Act (NEPA) and 23 CFR 771, a Programmatic Categorical Exclusion (PCE) was prepared for each bridge structure on August 9, 2018 and on February 21, 2019, respectively, under agreement with the Federal Highway Administration (FHWA) dated October 16, 2017. The PCE documents are both available for review on the project website.

Right of Way

The construction work associated with this bridge rehabilitation will not require the displacement of any families, businesses or non-profit organizations.

As the project is further developed, additional right of way for utility relocation or construction may be required beyond the proposed limits shown.

The property owners will be informed of the exact location of the easements during the right of way acquisition process and prior to construction.

Information about right of way purchase is discussed in VDOT's brochure, "Right of Way and Utilities: Guide for Property Owners and Tenants." This brochure is available on the VDOT website and from any VDOT Right of Way agent.

Fold Line

Postal Service
will not
deliver without
a stamp

Virginia Department of Transportation
Northern Virginia District
Mr. Gang Zhang, P.E.
4975 Alliance Drive
Fairfax, VA 22030

Fold Line





**ROUTE 123 OVER ROUTE 7
BRIDGE REHABILITATION
FAIRFAX COUNTY
PROJECT NO. 0123-029-385; UPC 111685 & 111686**

PUBLIC MEETING

www.virginiadot.org/projects

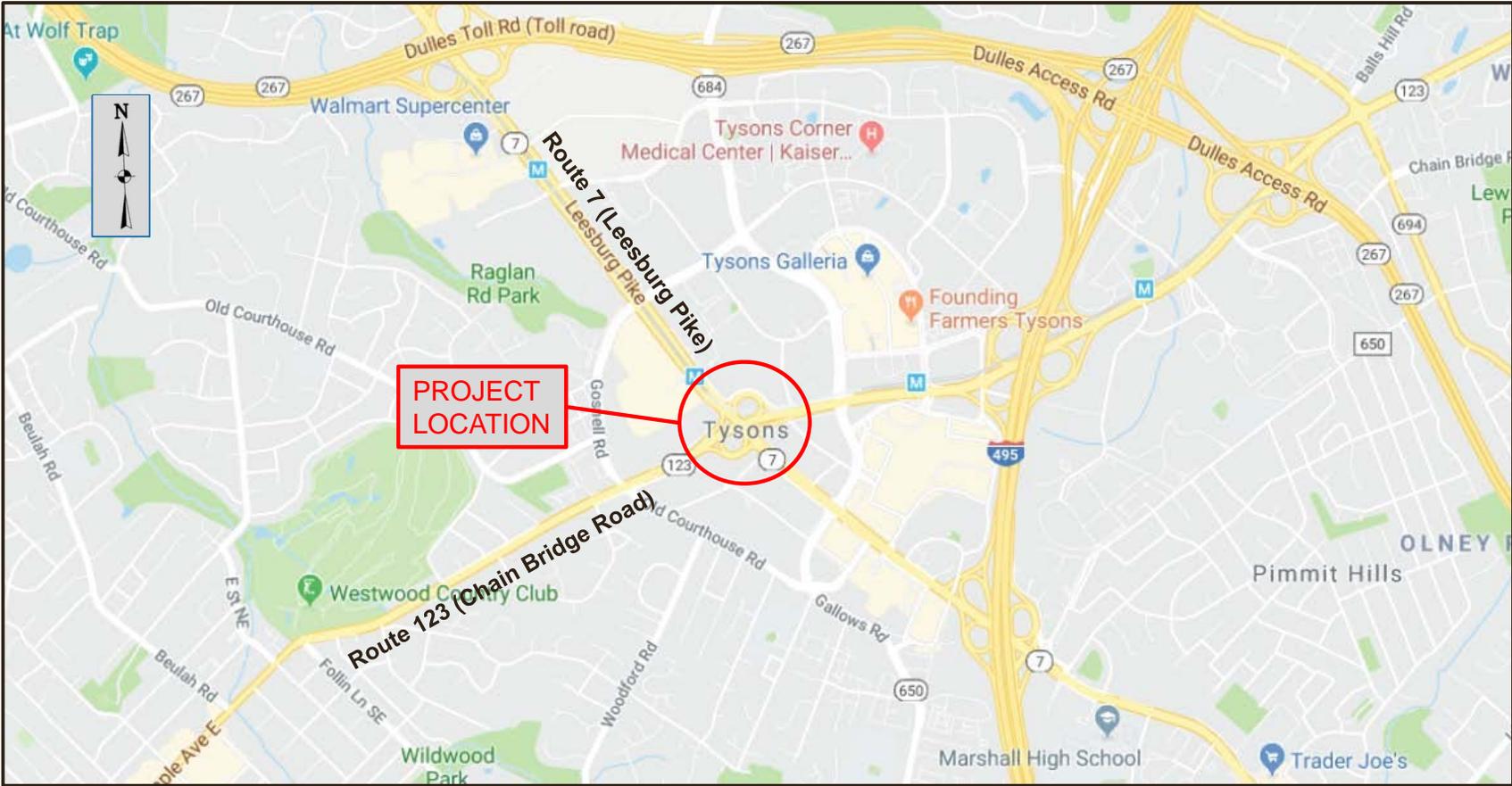
| Gang Zhang, PE – Project Manager, Structure & Bridge

Thursday, 30th May, 2019

Presentation Agenda

- **Introduction**
 - Gary Runco, P.E., NOVA District Bridge Engineer
- **Project Overview and Objectives**
 - Gang Zhang, P.E., VDOT
- **Conceptual Design**
 - John Michels, P.E., WSP USA
- **Project Schedule and Cost Summary**
 - Gang Zhang, P.E.
- **Questions and Answers**
 - Gary Runco, P.E.

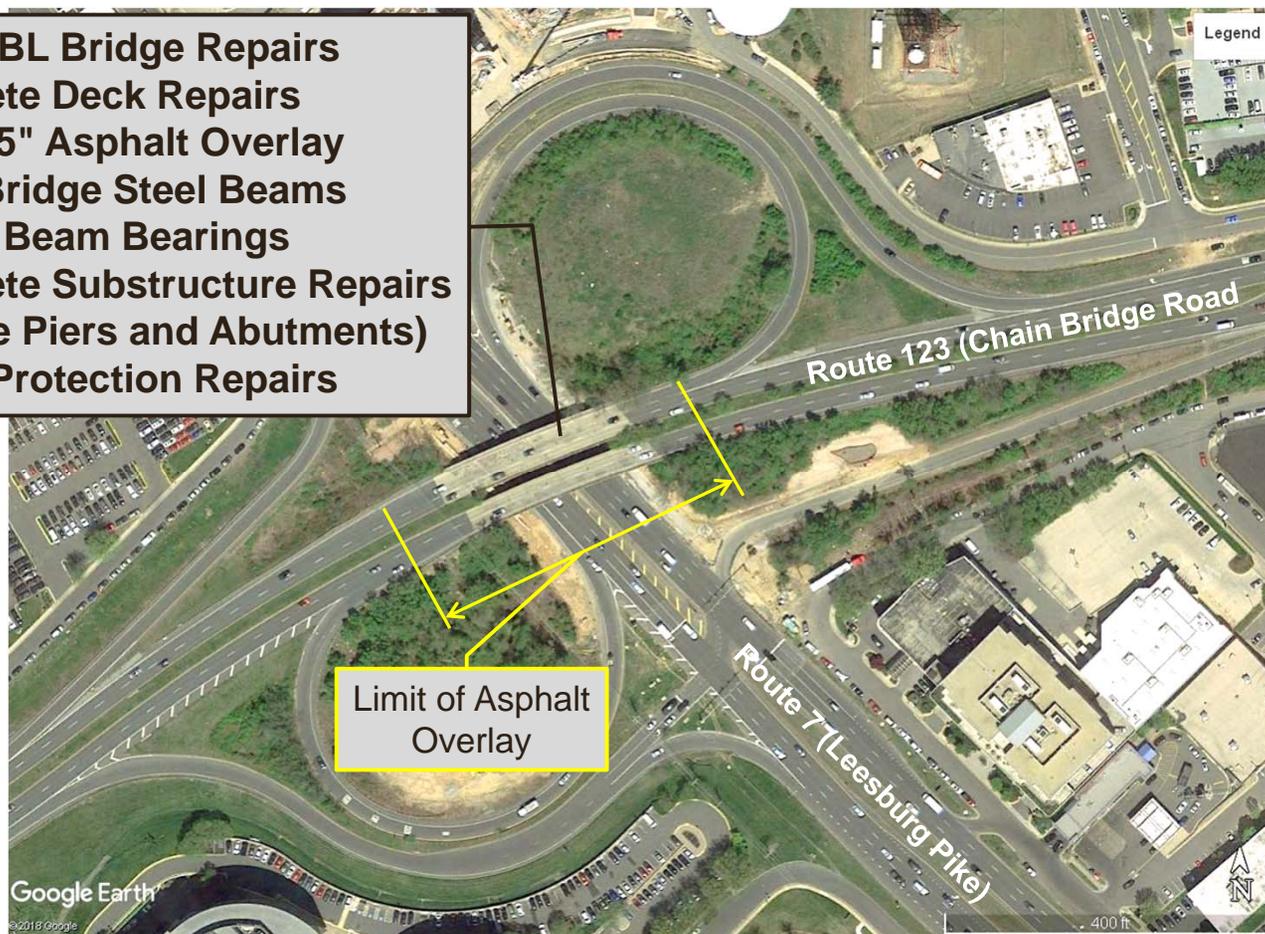
PROJECT LOCATION



PROJECT OVERVIEW / OBJECTIVE

NBL & SBL Bridge Repairs

- Concrete Deck Repairs
- New 1.5" Asphalt Overlay
- Paint Bridge Steel Beams
- Repair Beam Bearings
- Concrete Substructure Repairs (Bridge Piers and Abutments)
- Slope Protection Repairs



Restore the bridge back to a Satisfactory Structure Condition Rating (6 out of 9)

The existing bridge deck has a POOR Condition Rating (4 out of 9) and the piers and abutments have FAIR Condition Rating (5 out of 9) due to concrete deterioration

EXISTING BRIDGE DESCRIPTION



- Existing Dual NBL & SBL Bridges built in 1965. The bridges consist of concrete deck on steel rolled beams with cover plates.
- Dual Bridges 215' Long, four simple spans (37'-64'-64'-50')
- Roadway Classification: Urban Other Principal Arterial (Rte. 123 and Rte 7)

EXISTING BRIDGE DESCRIPTION



- Existing min vertical clearance is 14'-4" (NB Bridge)
- Posted Speed Limit 35 mph (Rte. 123 and Rte. 7)
- 2016 Average Daily Traffic (ADT) Data: 31,000 vehicles (Rte. 123), 64,000 (Rte. 7)
- Fairfax County added pedestrian sidewalks in 2018

EXISTING CONDITION & PROPOSED WORK BRIDGE DECK



- Concrete and asphalt patches, spalls and delamination on bridge deck and approach slabs
- Deck joints in poor condition with broken/patched concrete edges and failed/leaking sealant
- Condition Rating 4 of 9 (Poor, Structurally Deficient)
 - **Proposed work: Repair concrete bridge deck and overlay with 1 ½" asphalt. Install asphalt plug joints at all transverse deck expansion joints.**

EXISTING CONDITION & PROPOSED WORK STEEL BRIDGE BEAMS



Steel rolled beams with cover plates. SB Bridge steel is in fair condition. NB Bridge steel is in poor condition due to corrosion and paint failure.

➤ **Proposed work: Paint fascia beams and end 5 ft. of all beams**

EXISTING CONDITION & PROPOSED WORK BRIDGE BEARINGS



Broken and deteriorated concrete bearing pedestals, missing anchor bolts and corroded bearing plates

- **Proposed: Repair concrete pedestals, replace missing anchor bolts and clean and paint bearing plates**

EXISTING CONDITION & PROPOSED WORK BRIDGE ABUTMENTS AND PIERS



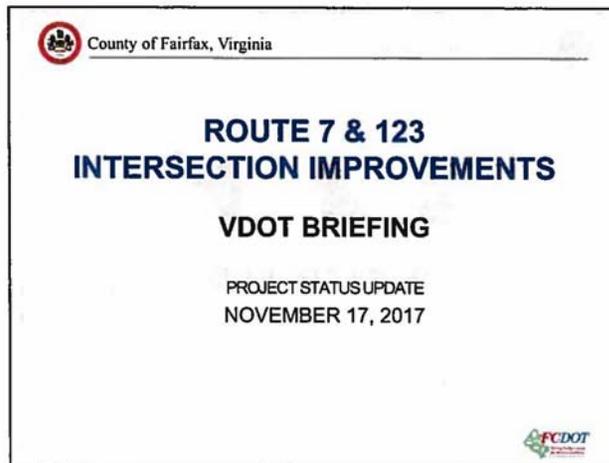
Abutment backwalls and pier caps are in poor condition (Condition Rating 4 of 9) with deteriorated concrete and exposed rebar.

- **Repair deteriorated concrete at abutment backwalls, pier caps and columns, install galvanic anode corrosion protection and apply waterproofing coating.**

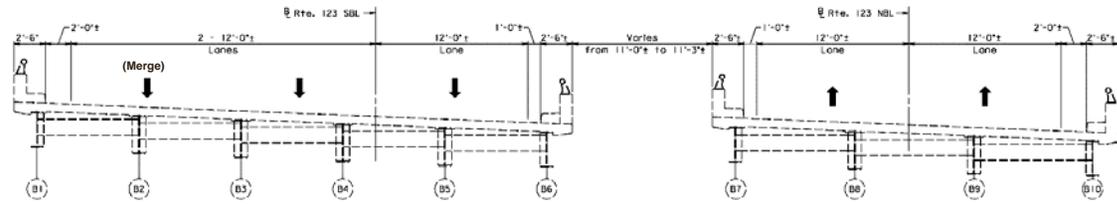
INTERCHANGE MODIFICATION

Fairfax County is studying options to replace the Route 123 over Route 7 Interchange to accommodate widening Route 7 and improve traffic capacity.

Construction is anticipated to begin in 10 to 20 years depending on funding.



PROPOSED MAINTENANCE OF TRAFFIC (ROUTE. 123)



EXISTING SBL BRIDGE

EXISTING NBL BRIDGE

Close one existing Route 123 NB & SB through lane during allowable lane closure hours for bridge deck repairs

Potential Lane Closure Hours

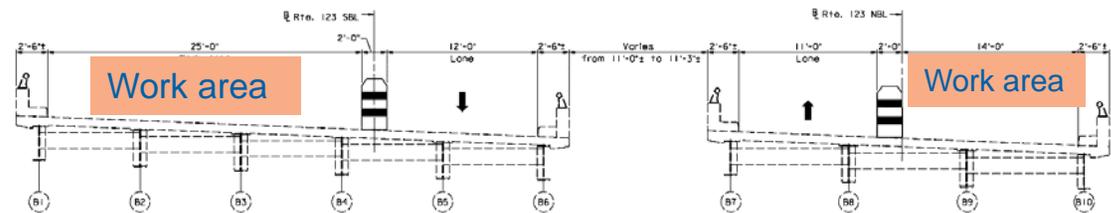
Daytime 9:30 AM – 3 PM

Evening 10 PM – 5 AM

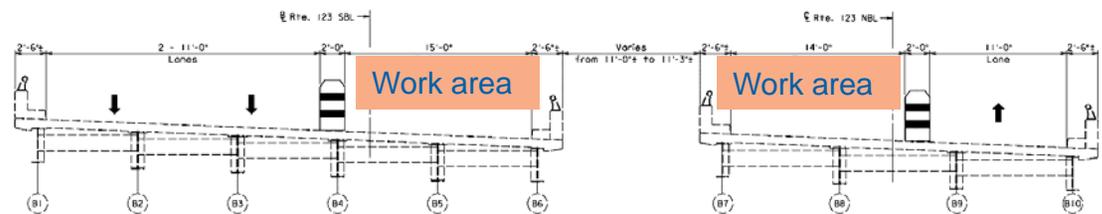
(weekdays)

Evening 10 PM – 9 AM

(weekends)

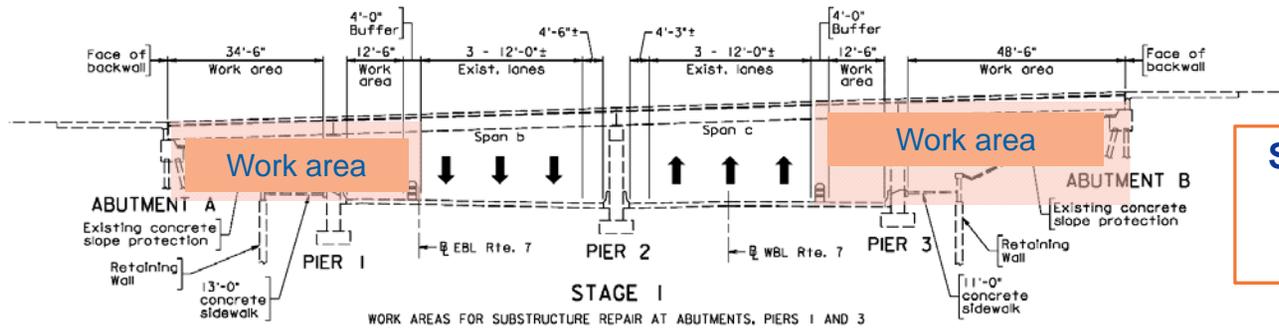


STAGE I – CLOSE OUTER THROUGH LANES AND SB MERGE LANE



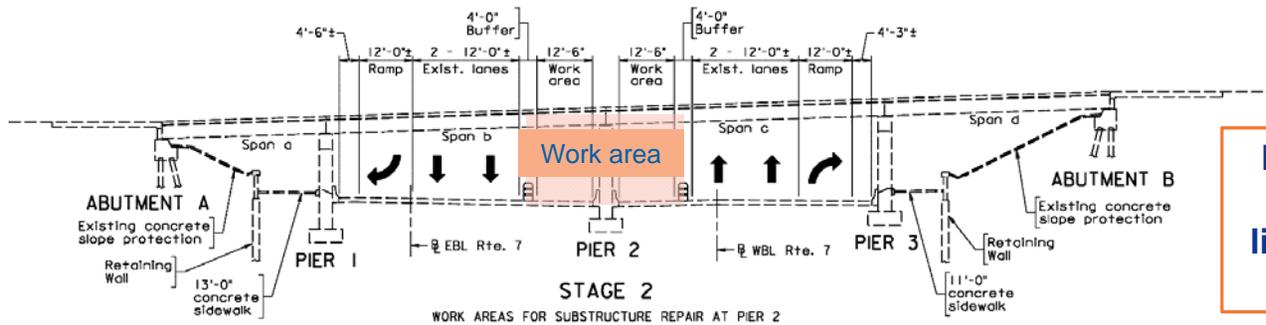
STAGE 2 – CLOSE INNER THROUGH LANES

PROPOSED MAINTENANCE OF TRAFFIC (ROUTE 7)



Sidewalk access will be maintained by flagger during construction

CLOSE EXIT LANES UNDER BRIDGE TO CREATE WORK AREAS AT ABUTMENTS A & B AND PIERS 1 & 3



Lane closures on EB & WB Route 7 will be limited to allowable lane closure hours

CLOSE INNER LANE UNDER BRIDGE TO CREATE WORK AREA AT PIER 2

Anticipated Results after Repair



Anticipated Project Schedule

Milestones	Dates
Public Information Meeting	May 30, 2019
Advertise for Construction	Late 2019
Begin Construction	Early 2020
Complete Construction	Late 2020

Estimated Project Cost and Funding

Project Cost	
Preliminary Engineering	\$ 300,000
Right of Way/Utility Relocation	n/a
Construction	\$ 2,200,000
Total	\$ 2,500,000

Project Funding	
State of Good Repair	\$ 2,500,000

Questions?

- **Contact information:**

Gang Zhang, P.E.	Gary Runco, P.E.
Project Manager, VDOT Bridge Section	Project Sponsor, VDOT Bridge Section
4975 Alliance Drive, Fairfax, VA 2203	4975 Alliance Drive, Fairfax, VA 2203
Email: gang.zhang@vdot.virginia.gov	Email: gary.runco@vdot.virginia.gov
Phone: 703-259-2770	Phone: 703-259-3341

- **Email comments to: Meetingcomments@vdot.virginia.gov**
 - Please include “Route 123 Bridge Rehab” in subject line
 - Comment period ends: Jun 9, 2019
- **Project information for this meeting is available:**
 - Online: www.virginiadot.org/projects
 - In Person: VDOT’s Northern Virginia Office

