



MAJOR REHABILITATION OF MULTIPLE BRIDGES OVER INTERSTATE 95

City of Richmond

Virginia Department of Transportation
Richmond District

Project Goals

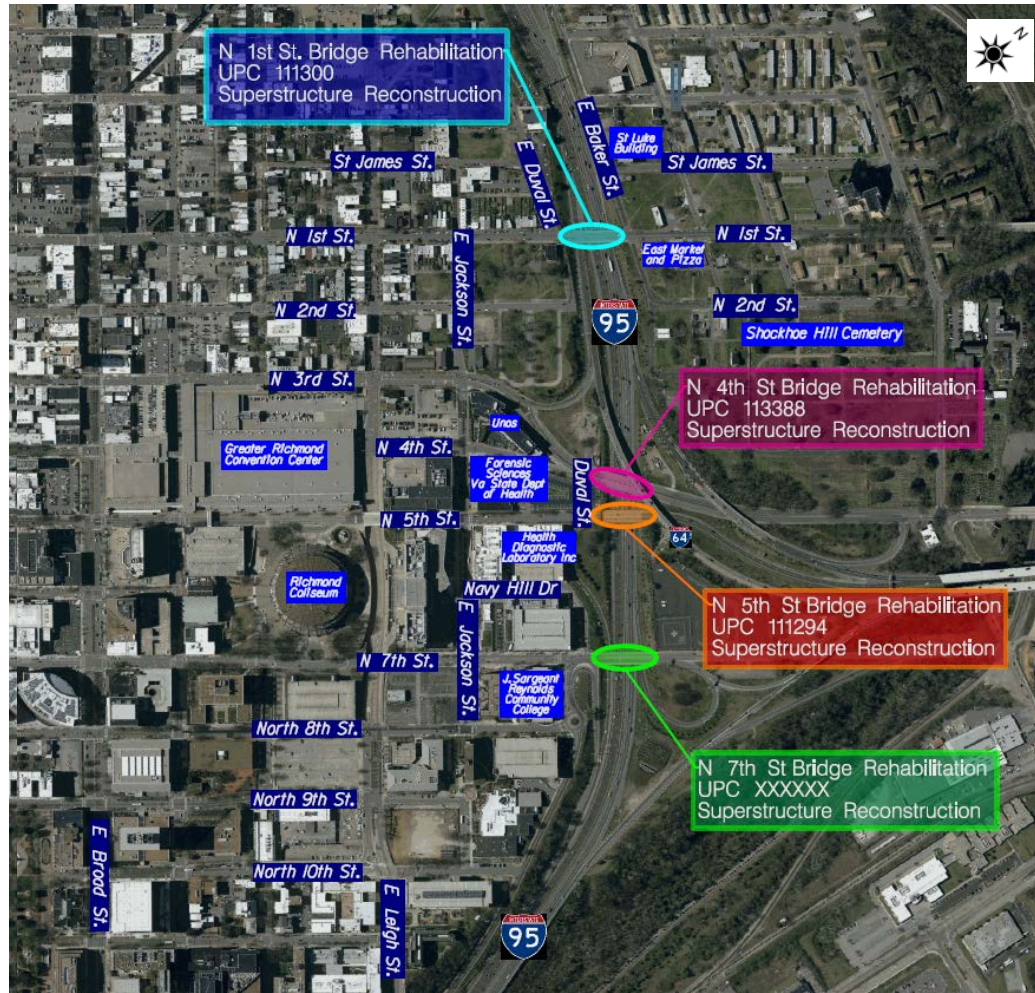
Rehabilitate 5 Structurally Deficient Bridges crossing I-95

- North 1st Street, North 4th Street, North 5th Street, North 7th Street, and East Broad Street Bridges
- Superstructure Replacements with some Minor Substructure Repairs

Bundle these five bridge rehabilitations into a single design-build procurement

- Capture cost and coordination efficiencies through bundling into single project/contract

Project Location Map



Proposed Scope of Work

Superstructure Replacements and Minor Substructure Repairs

- **Vertical Clearance – Improvement to 15'-0" (Granted Variance)**
- **Reduced beam sizes**
- **Pier concrete resurfacing/crack repair**
- **Pedestrian fencing & architectural treatments**
- **Reconstruction of approach slabs and minor roadway approach work**
- **Utility work to remove and reset active assets currently on structures**

Additional Items

- **Relocate Guide Signs currently attached to the 1st and 7th St. bridges**

Proposed Design-Build Schedule

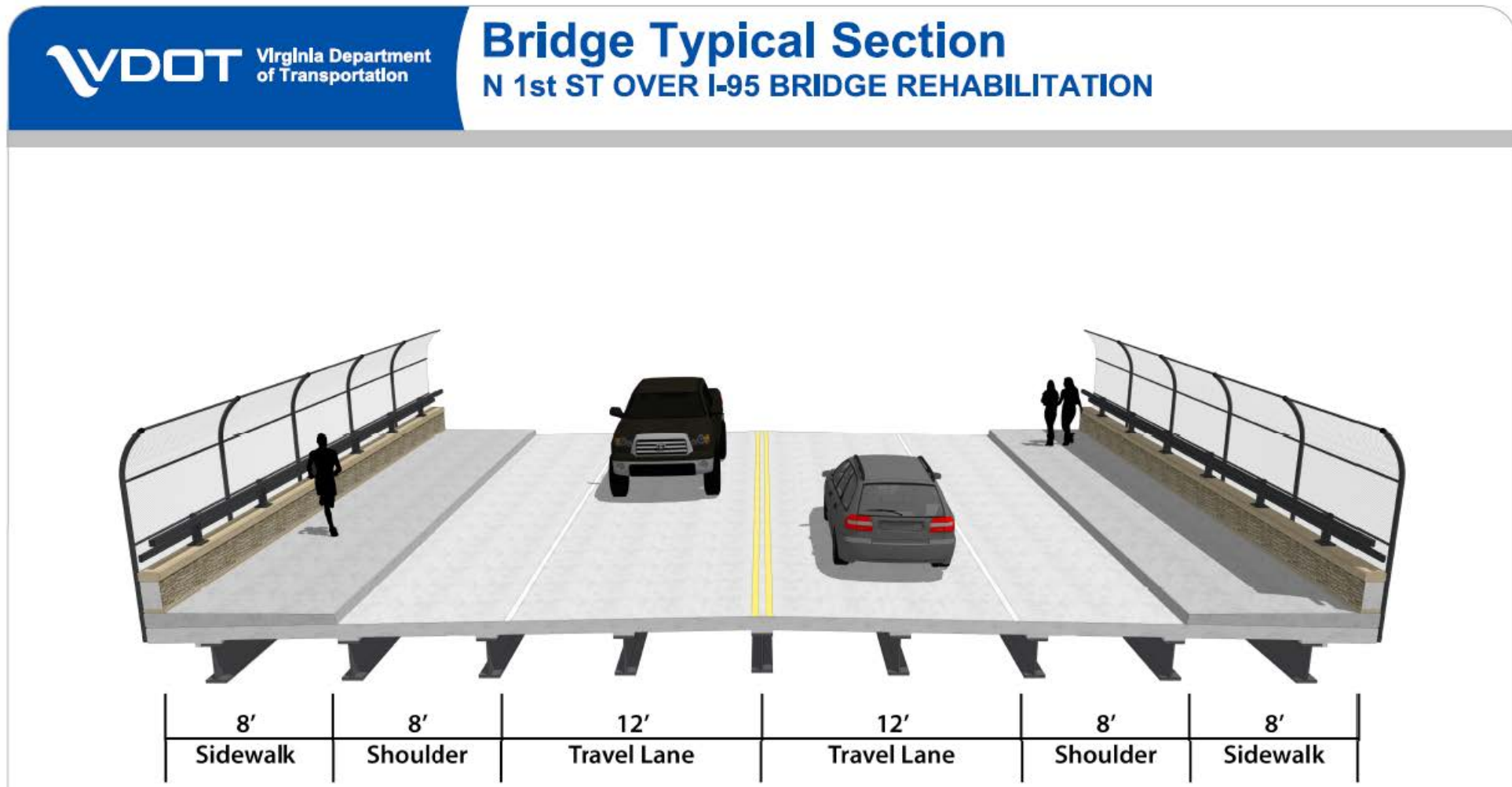
Tasks	Proposed Dates
Request for Design-Builder Qualifications	December 2020
Request for Proposals from Qualified Design-Builders	March 2021
Commonwealth Transportation Board Award Date	November 2021
Notice to Proceed	December 2021
Construction Completion *	December 2024

* Incentive to finish construction early to mid 2024

Cost Estimate

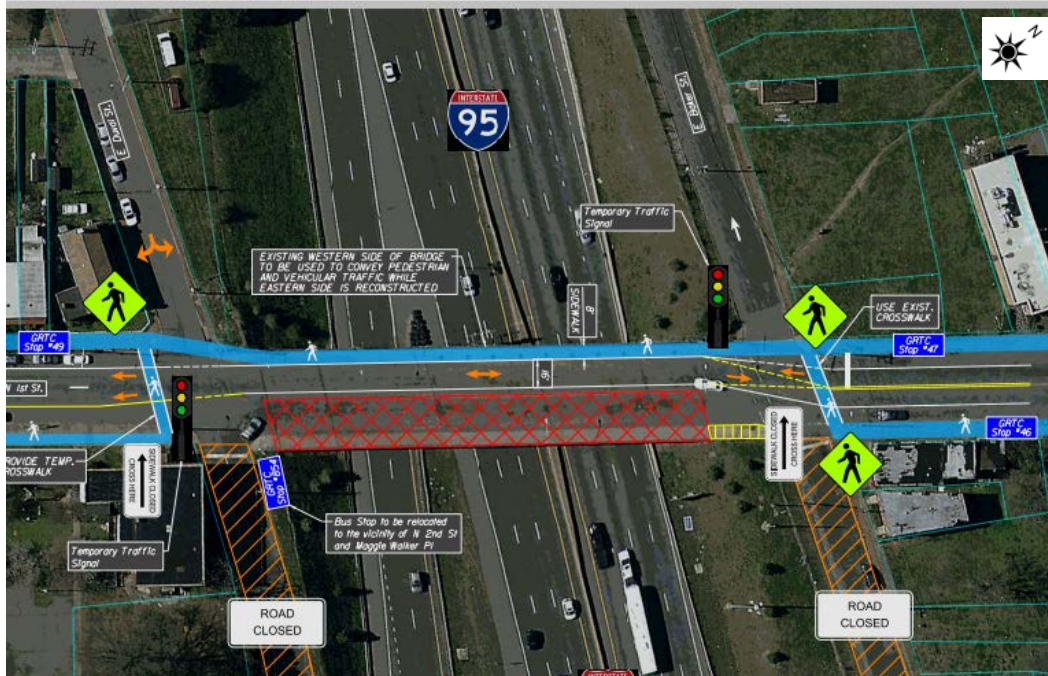
	Preliminary Engineering	Right of Way	Construction	Total Estimate
Total	\$2,000,000	\$268,060	\$47,492,607	\$49,760,667

1st St. Over I-95 Bridge Rehabilitation Proposed Typical Section



1st St. Over I-95 Bridge Rehabilitation Proposed Sequence of Construction

PEDESTRIAN ACCESS - SEQUENCE OF CONSTRUCTION PHASE 1
N 1st ST OVER I-95 BRIDGE REHABILITATION









PEDESTRIAN ACCESS - SEQUENCE OF CONSTRUCTION PHASE 2
N 1st ST OVER I-95 BRIDGE REHABILITATION

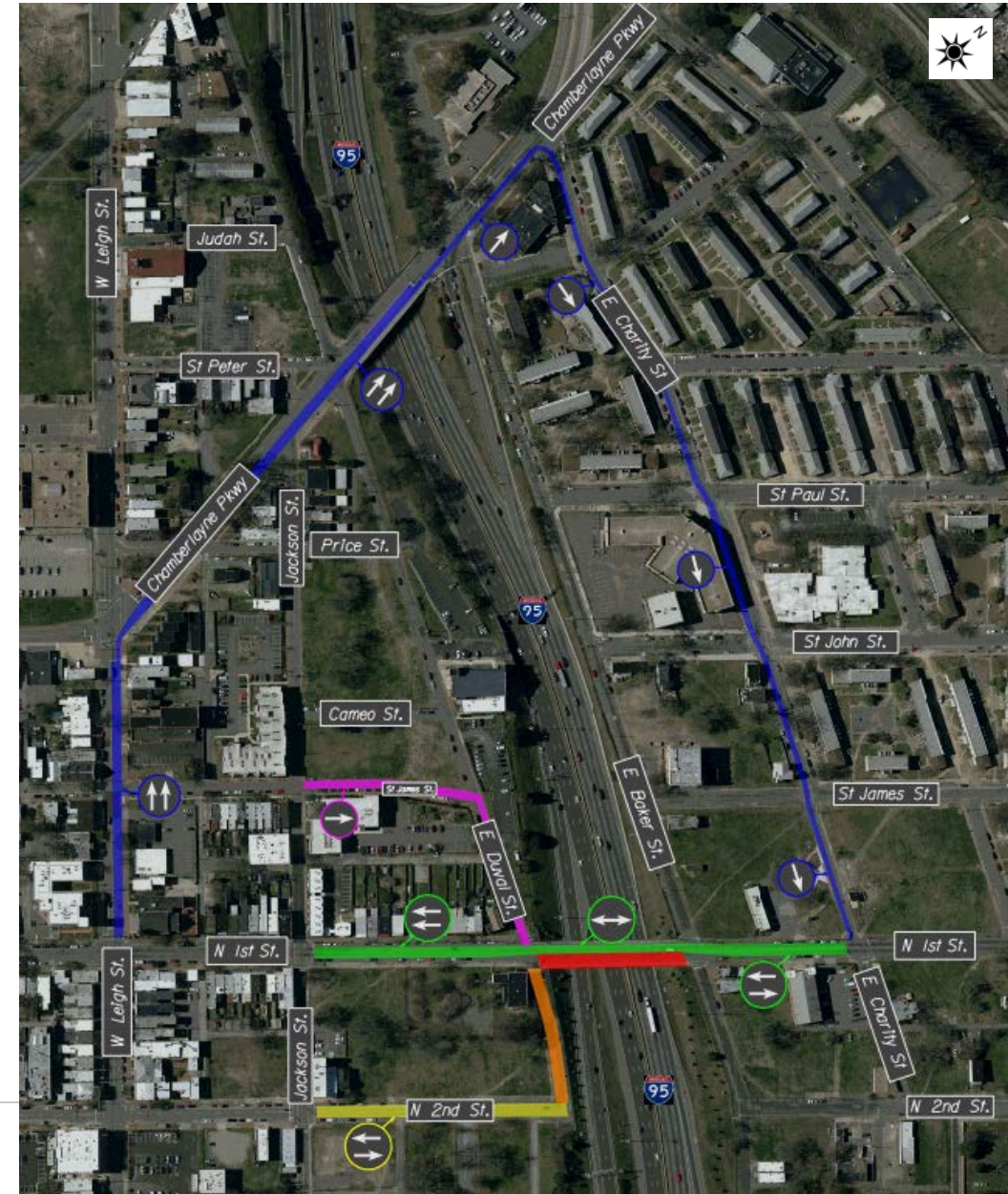


- Reduction of 1st Street to one lane total with temp. traffic signal
- Bikes and pedestrians will be given access to cross the bridge during construction.

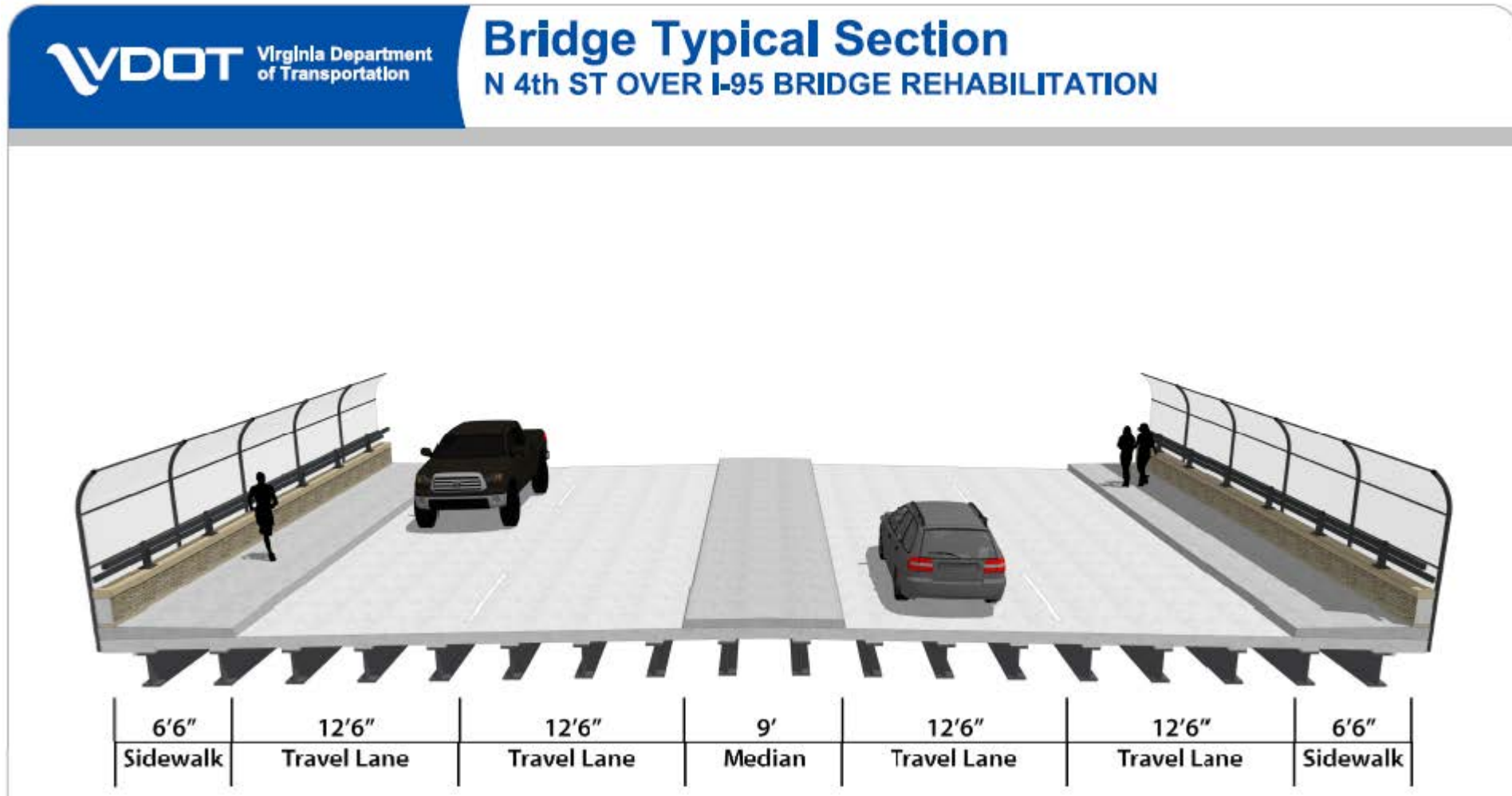
1st St. Over I-95 Bridge Rehabilitation Proposed Detour Map

- Detour for Northbound Trucks and Buses

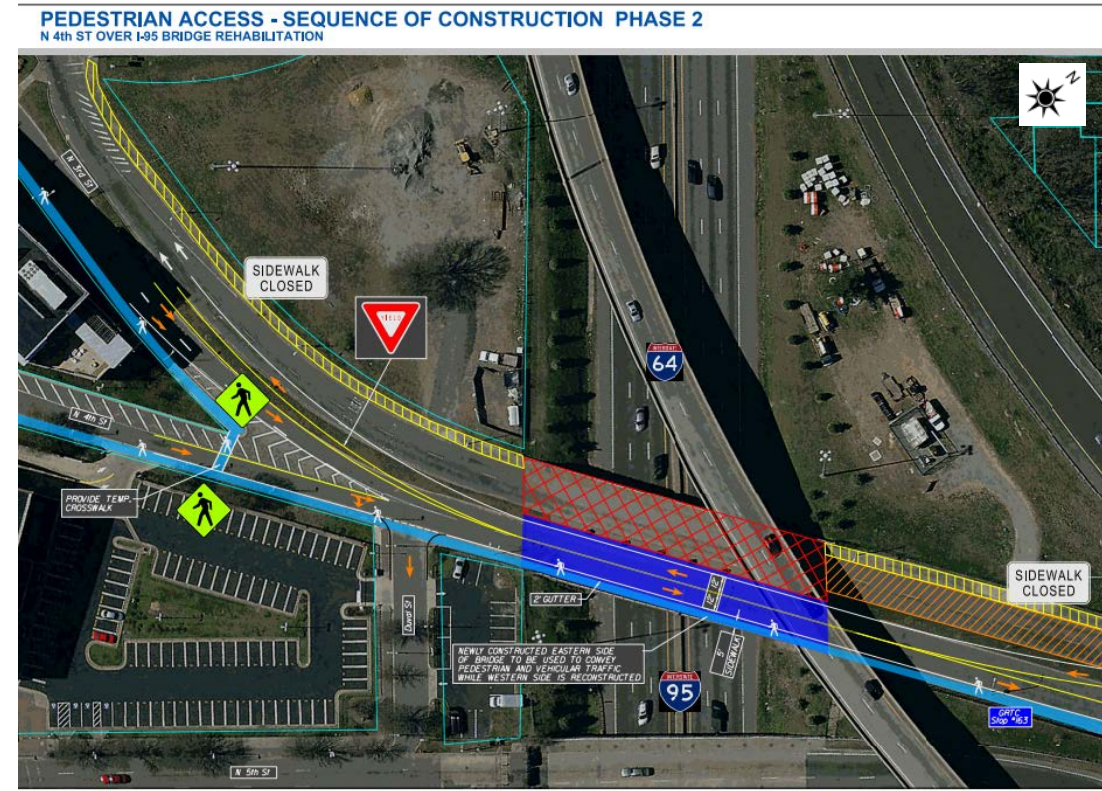
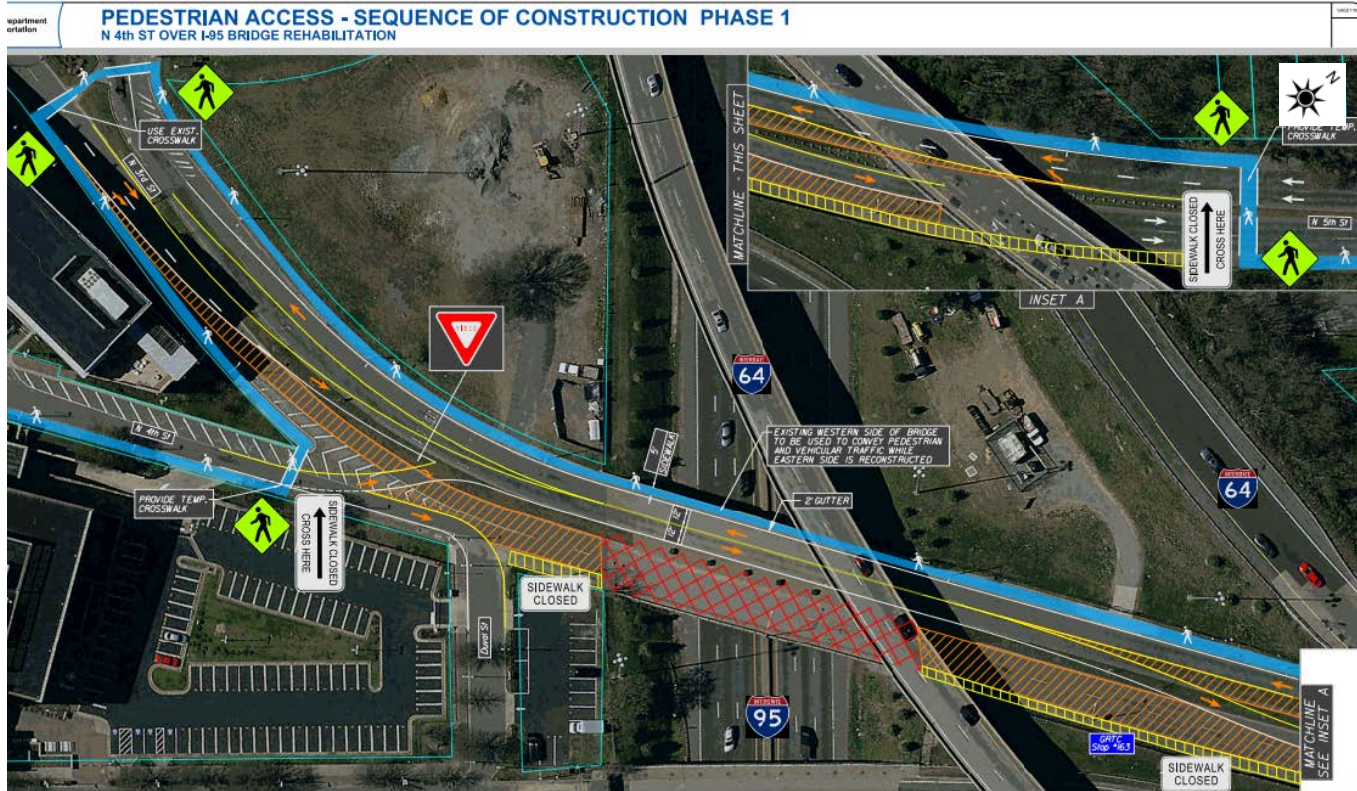
Legend			
	Detour for Northbound Trucks and Buses		Bridge Under Construction
	Path for Northbound Passenger Vehicles		Road Closed
	Traffic Across Bridge During Construction		
	Temporary Conversion to Two-Way Street		



4th St. Over I-95 Bridge Rehabilitation Proposed Typical Section

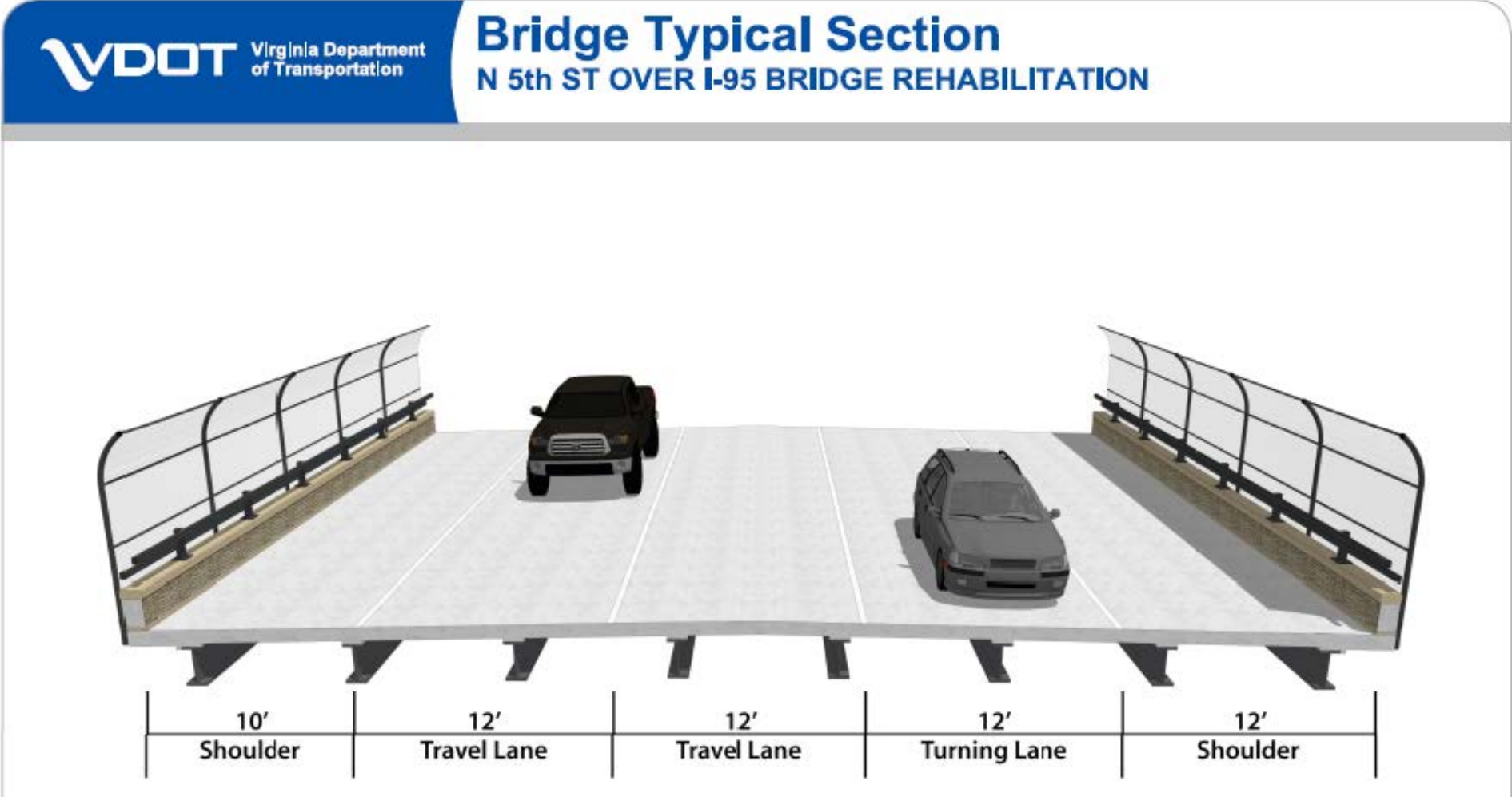


4th St. Over I-95 Bridge Rehabilitation Proposed Sequence of Construction

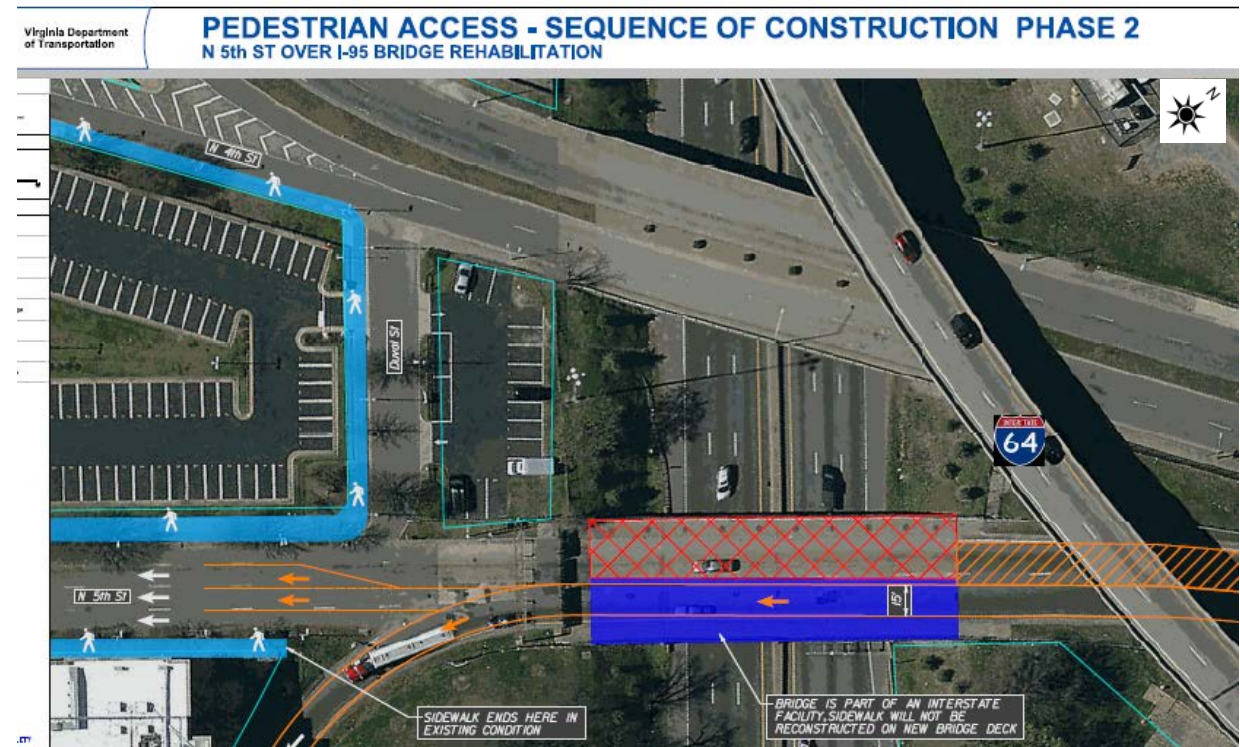
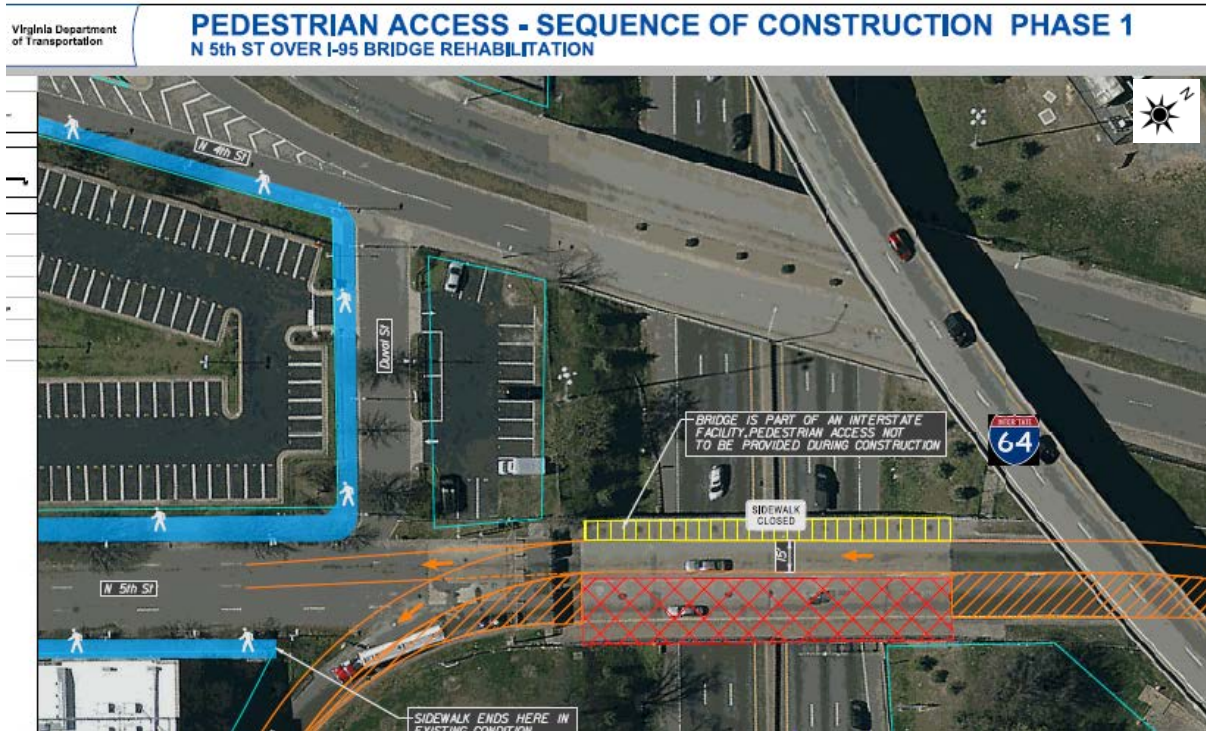


- One Southbound and one Northbound lane will be open during construction
- Bikes and pedestrians will be given access to cross the bridge during construction.

5th St. Over I-95 Bridge Rehabilitation Proposed Typical Section

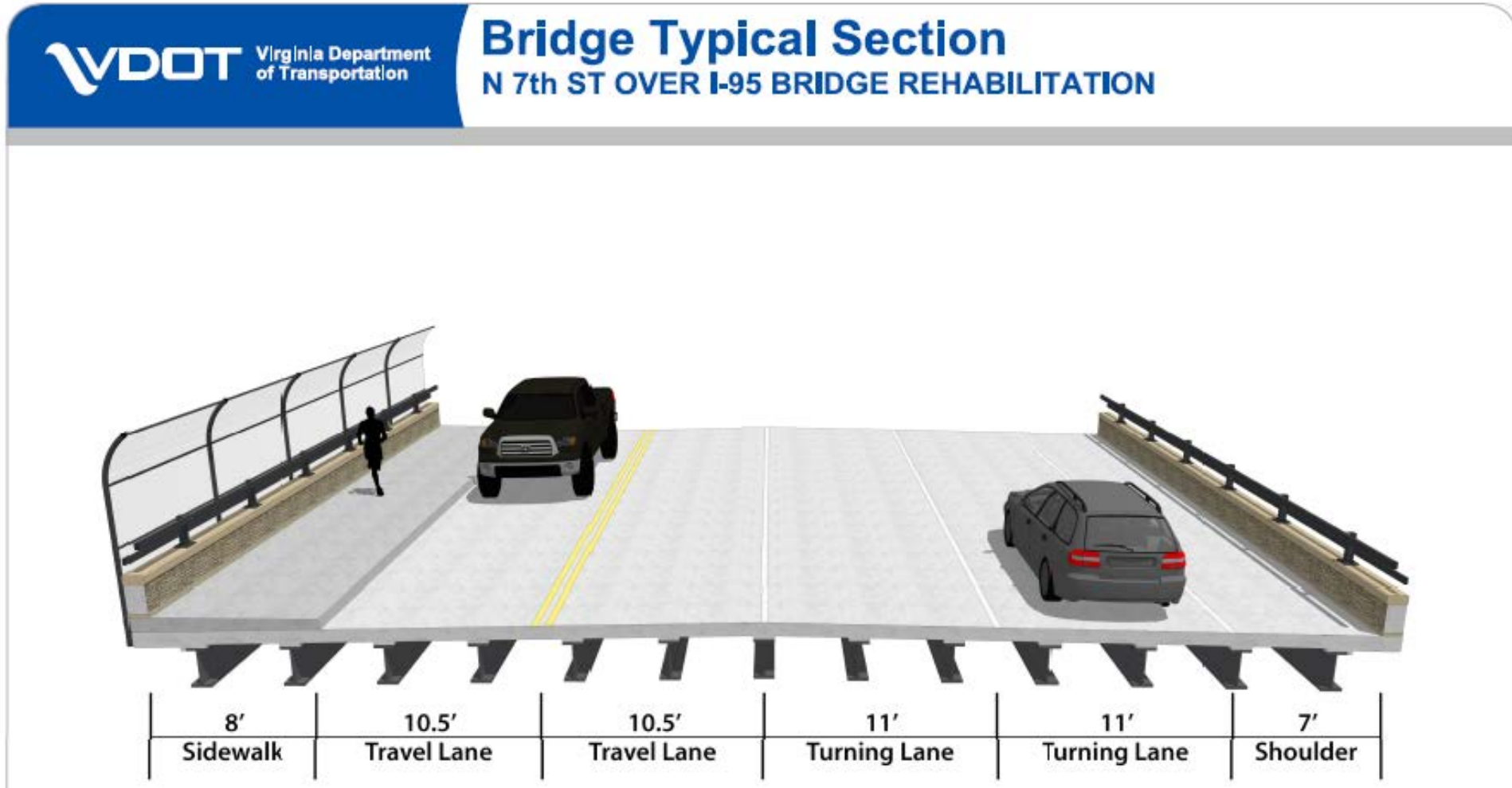


5th St. Over I-95 Bridge Rehabilitation Proposed Sequence of Construction



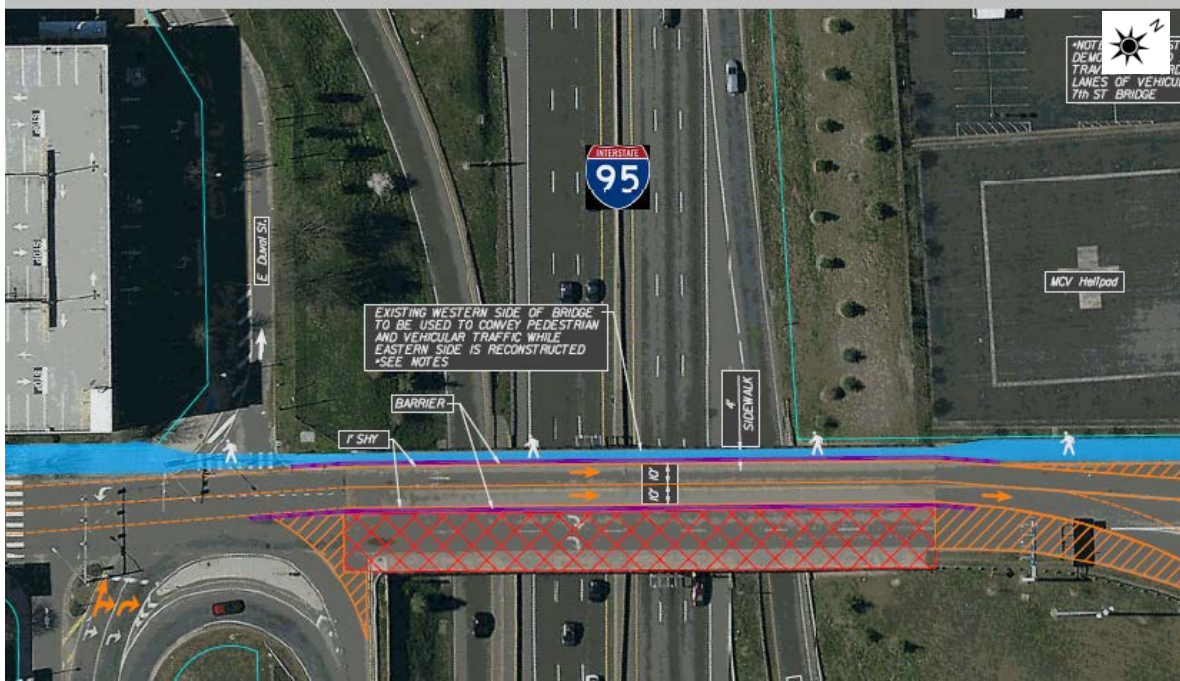
- One Southbound lane will be open during construction
- Bridge is part of the I-64 Westbound off ramp. Bike and pedestrians access will not be provided during construction.

7th St. Over I-95 Bridge Rehabilitation Proposed Typical Section

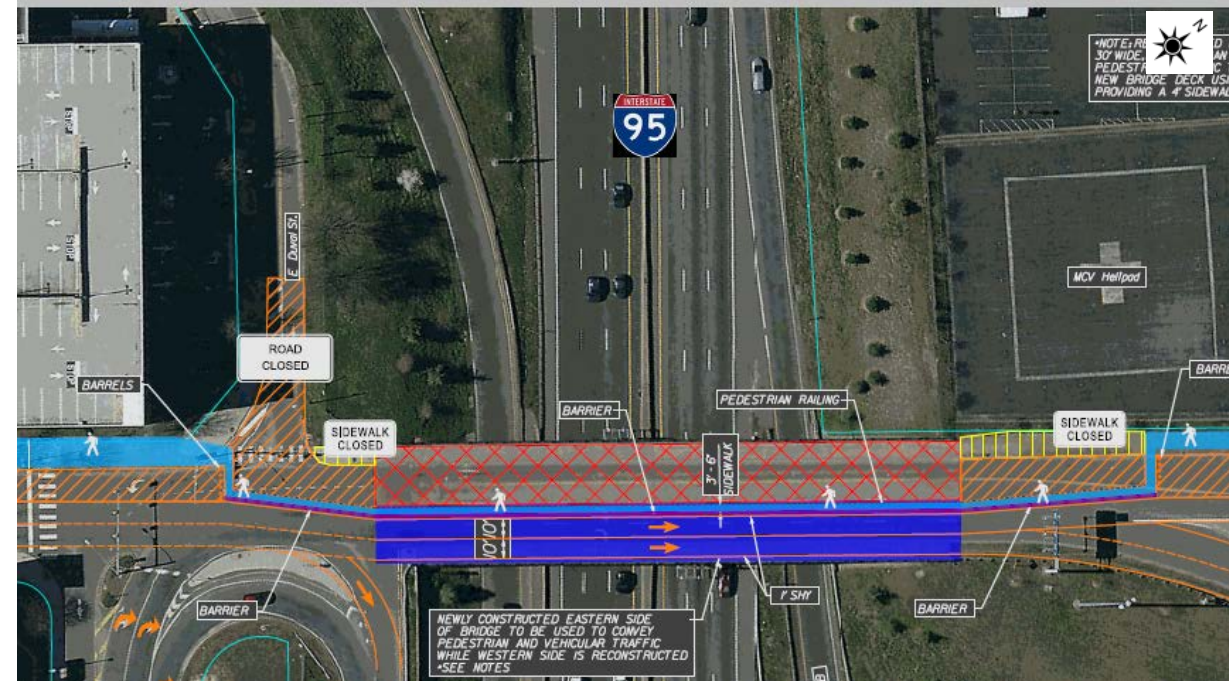


7th St. Over I-95 Bridge Rehabilitation Proposed Sequence of Construction

PEDESTRIAN ACCESS - SEQUENCE OF CONSTRUCTION PHASE 1
N 7th ST OVER I-95 BRIDGE REHABILITATION



PEDESTRIAN ACCESS - SEQUENCE OF CONSTRUCTION PHASE 2
N 7th ST OVER I-95 BRIDGE REHABILITATION







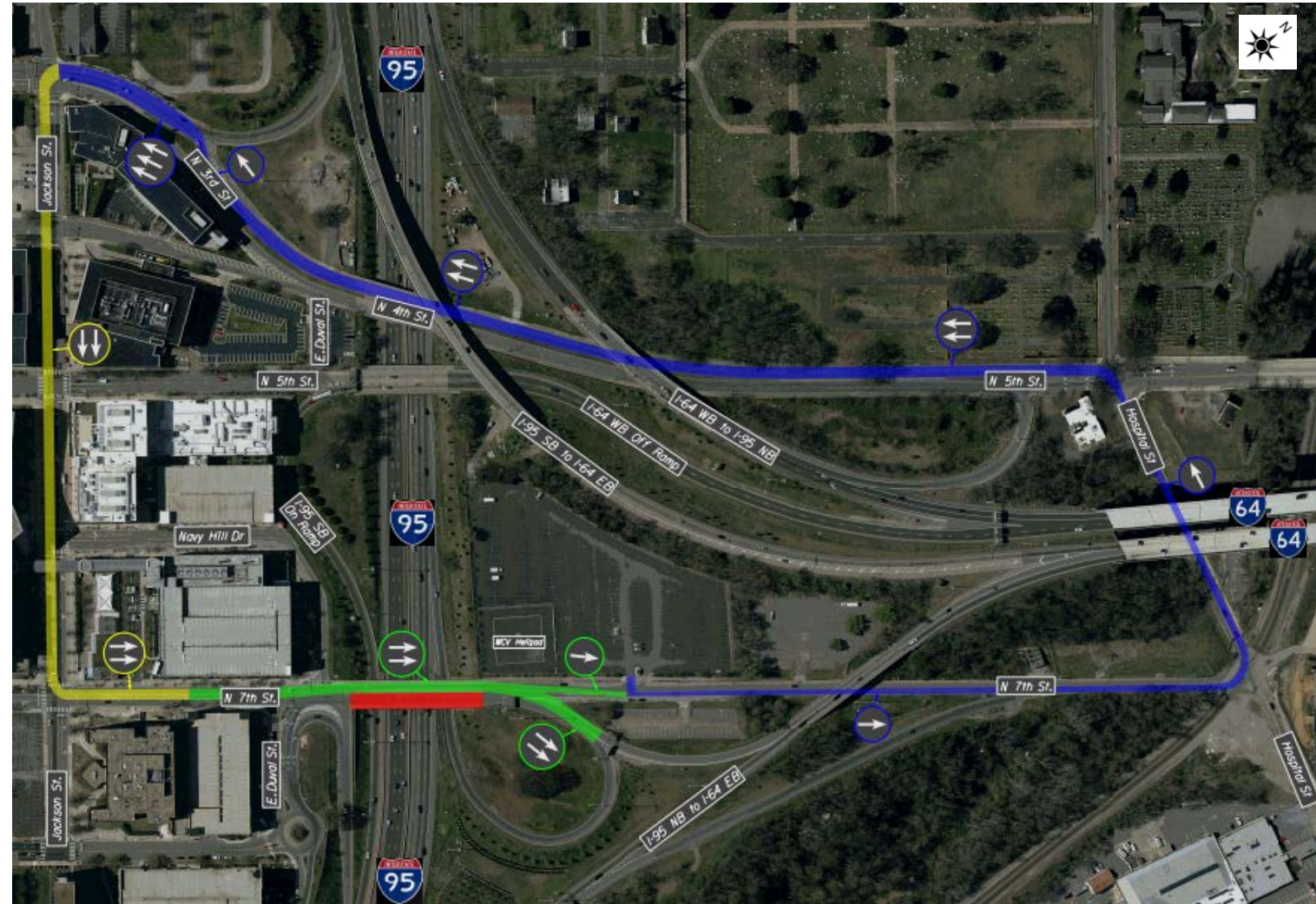
- Two Northbound lanes of traffic will be open during construction.
- Bikes and pedestrians will be given access to cross the bridge during construction.

7th St. Over I-95 Bridge Rehabilitation Proposed Detour Map

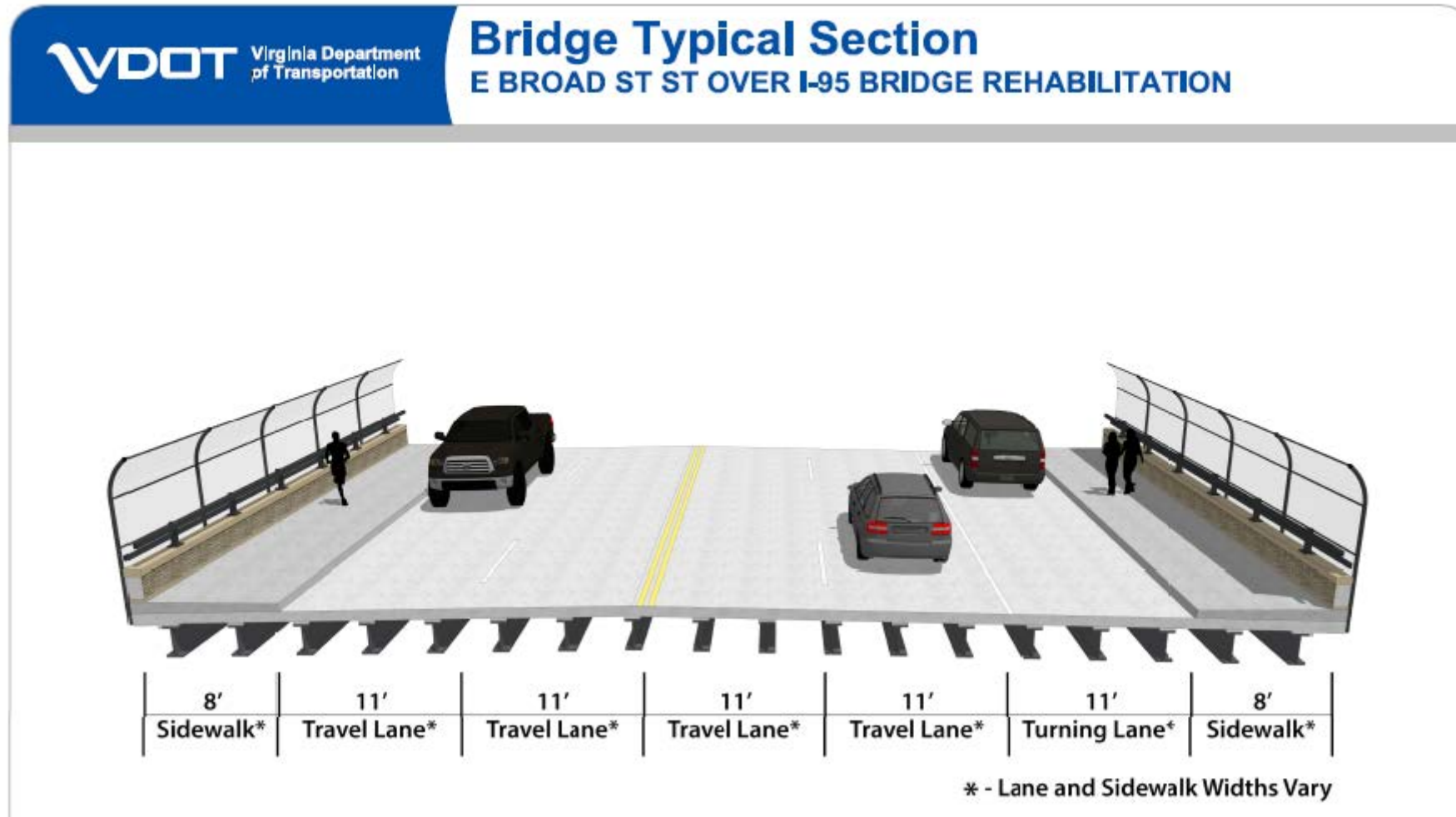
- Circular detour with 7th and 4th Street for Southbound Traffic into the City

Legend

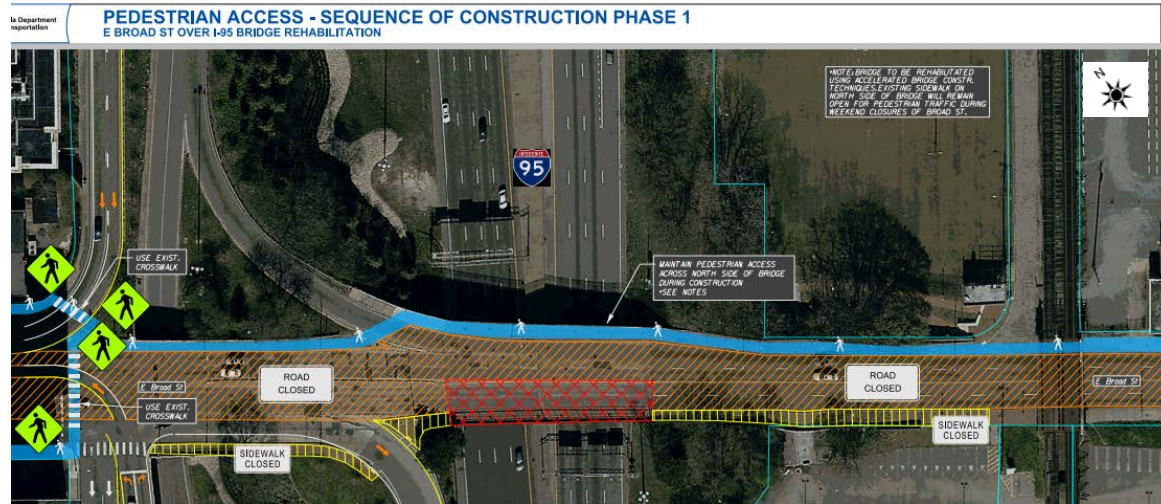
-  Detour for Southbound Traffic Into the City
-  Traffic Across Bridge During Construction
-  Circular Route from 4th St to 7th St
-  Bridge Under Construction



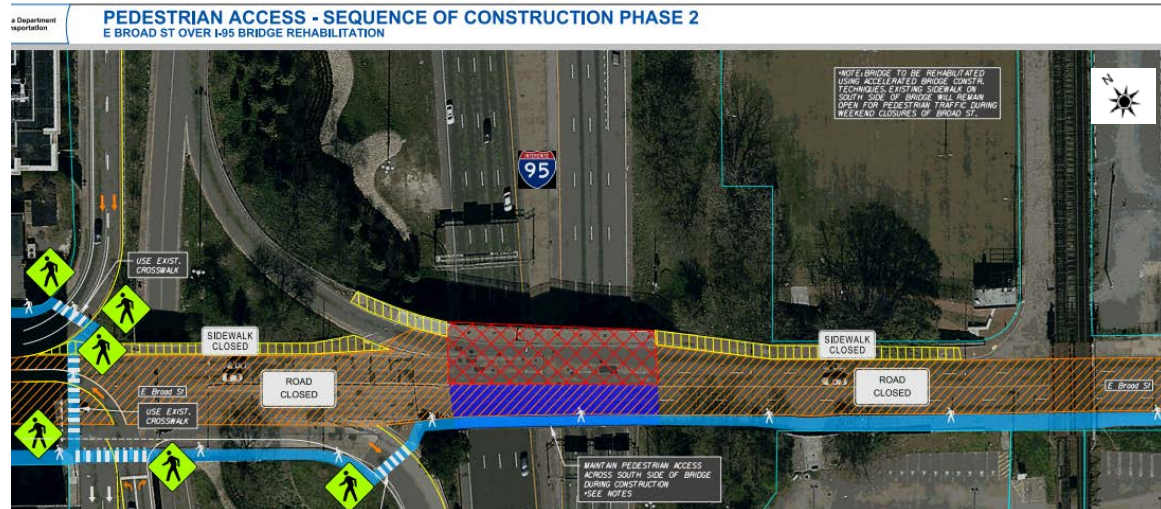
Broad St. Over I-95 Bridge Rehabilitation Proposed Typical Section



Broad St. Over I-95 Bridge Rehabilitation Proposed Sequence of Construction



- The bridge will be closed on the weekend for construction.



- Bikes and pedestrians will be provided access to cross the bridge during the weekend construction.

Broad St. Over I-95 Bridge Rehabilitation Proposed Detour Map

- Weekend closures. Vehicle traffic will be detoured to E. Main St.

Legend



Eastbound Detour Around Weekend Closure of E Broad St Bridge



Westbound Detour Around Weekend Closure of E Broad St Bridge



Bridge Under Construction



I-95 Proposed Maintenance of Traffic at Night

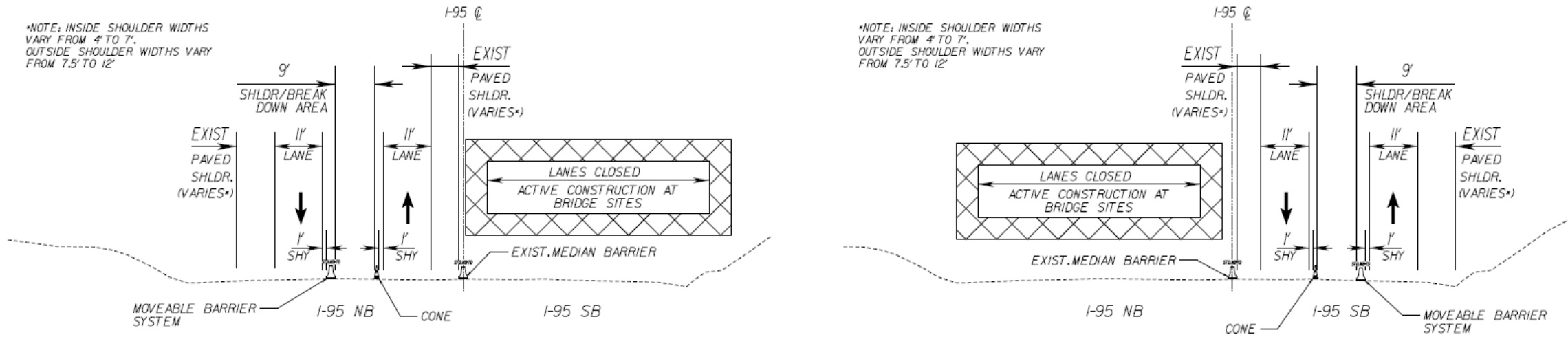
TYPICAL SECTIONS

I-95 SOUTHBOUND TRAFFIC SHIFT

NIGHTTIME LANE SHIFT W/ MOVEABLE BARRIER SYSTEM

I-95 NORTHBOUND TRAFFIC SHIFT

NIGHTTIME LANE SHIFT W/ MOVEABLE BARRIER SYSTEM



- Reduced to one lane at night for beam placement and deck construction

Environmental

- **VDOT's Richmond District Environmental Office has performed environmental reviews and coordination to obtain information about environmental resources in the project vicinity; to provide natural and historic resource agencies an opportunity to review and comment on the project during its development, and to identify opportunities for avoidance, minimization and mitigation of potential environmental impacts.**
- **The National Environmental Policy Act (NEPA) is applicable to this project and NEPA documentation has been developed in cooperation with the Federal Highway Administration and in accordance with federal guidelines. The NEPA documents include information from various technical reviews including those related to natural resources, biological resources, water quality, air quality, noise, etc.**
- **Also, in compliance with the National Historic Preservation Act, Section 106 and 36 CFR Part 800, information concerning the effects of the proposed project on properties listed on or eligible for listing on the National Register of Historic Places is included in the project's environmental documentation.**
- **The project will continue to be coordinated with the appropriate federal, state and local agencies as part of the environmental review and approval processes required throughout project development and construction. All required environmental clearances and permits will be obtained prior to commencement of construction. Strict compliance with all environmental conditions and commitments resulting from regulatory approvals, and implementation of VDOT's specifications and standard best practices will protect the environment during construction.**

Comments or Questions

- Provide comments or questions on the survey form located at the project website, <http://www.vdot.virginia.gov/projects/richmond/i-95-bridges-in-richmond.asp>
- You can also contact the VDOT Project Manager, Anthony Haverly, at 804-609-5225 or by email at Anthony.Haverly@vdot.virginia.gov