



08/04/2016

Fort Eustis Bridge Replacement

FHWA Project VA FLAP NPNWS 105(1)
VDOT UPC 105624
Newport News, VA

Agenda

Project Description

Traffic Control Phases

Traffic Models

Q&A Session



Project Description

- Replacement of the Ft. Eustis Blvd Bridge over the Lee Hall Reservoir
- Owner Partner: City of Newport News
- Federal Land Partner: Department of the Army
- Prevailing Design Standards: VDOT



U.S. Department
of Transportation
**Federal Highway
Administration**



Project Description

- Existing Bridge was constructed in 1960 and widened in 1985
- Bridge is “Structurally Deficient” per recent inspections
- Two lanes in each direction, with auxiliary lane in the EB direction
- West Abutment is built overtop a dam
- Ft. Eustis Blvd connects I-64 and US-60 and provides access to the Main Entry Control Point at Joint Base Langley Eustis

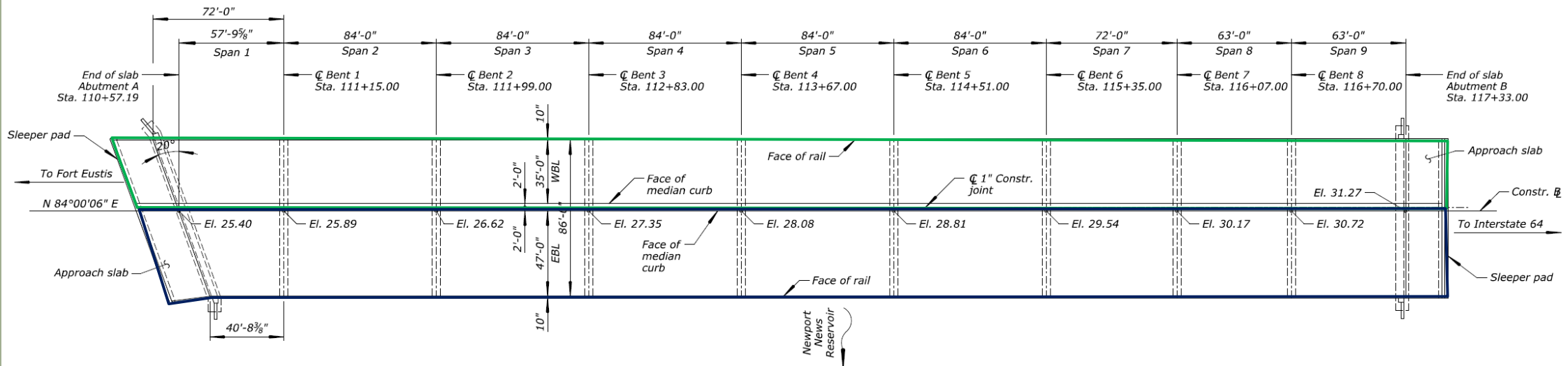


Project Schedule

- **Advertise Contract – Bids Opened March 24**
- Conduct Public Information Meetings – March/April 2020
- Project Award – April 2020
- **Notice to Proceed/Begin Construction – May 2020 (could be impacted)**
- Demolish and Rebuild Westbound Lanes – May 2020-Summer 2021
- Demolish and rebuild Eastbound Lanes – Summer 2021 – Fall 2022
- **Project Completion – November 2022**



Proposed Bridge Layout

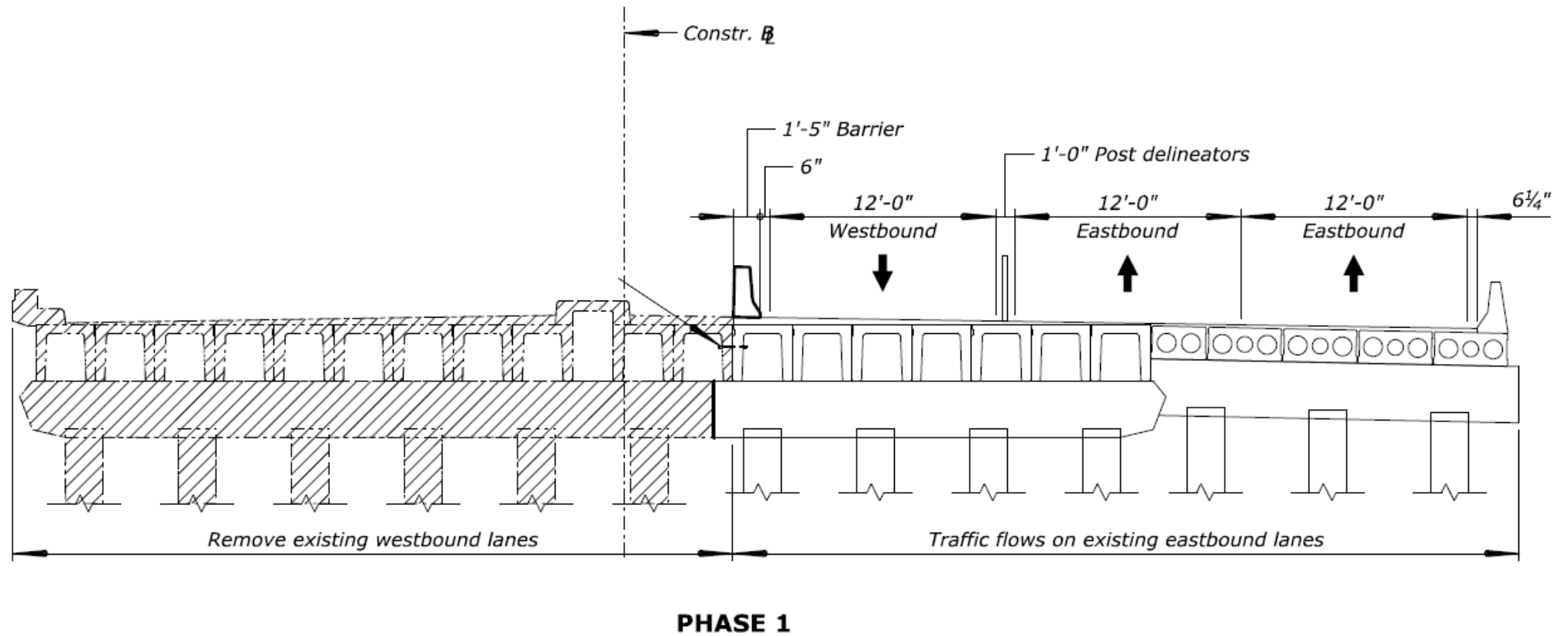


- Constructed in Phases 1 & 2
- Constructed in Phases 3 & 4



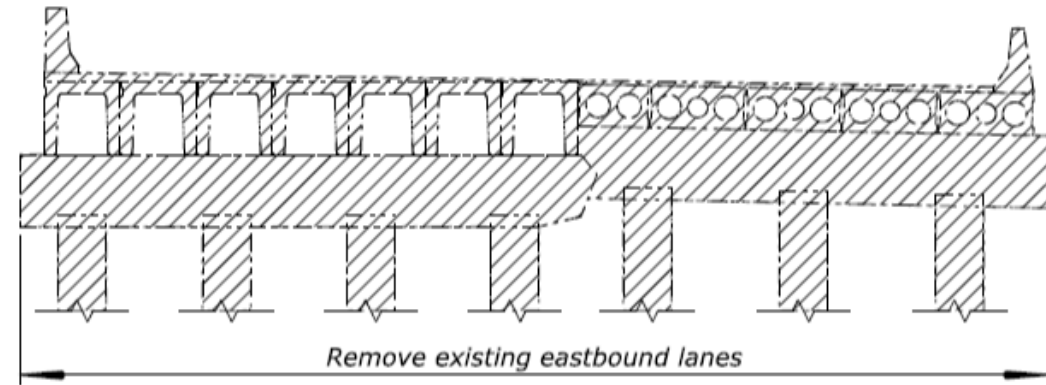
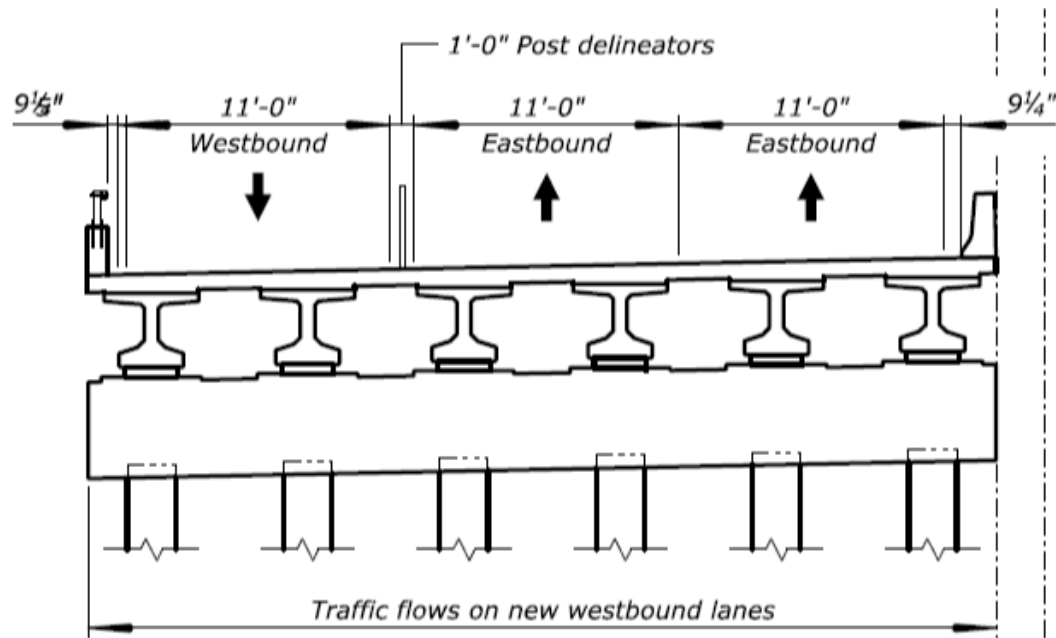
Traffic Control – Phases 1/2

May 2020 – Summer 2021



Traffic Control – Phases 3/4

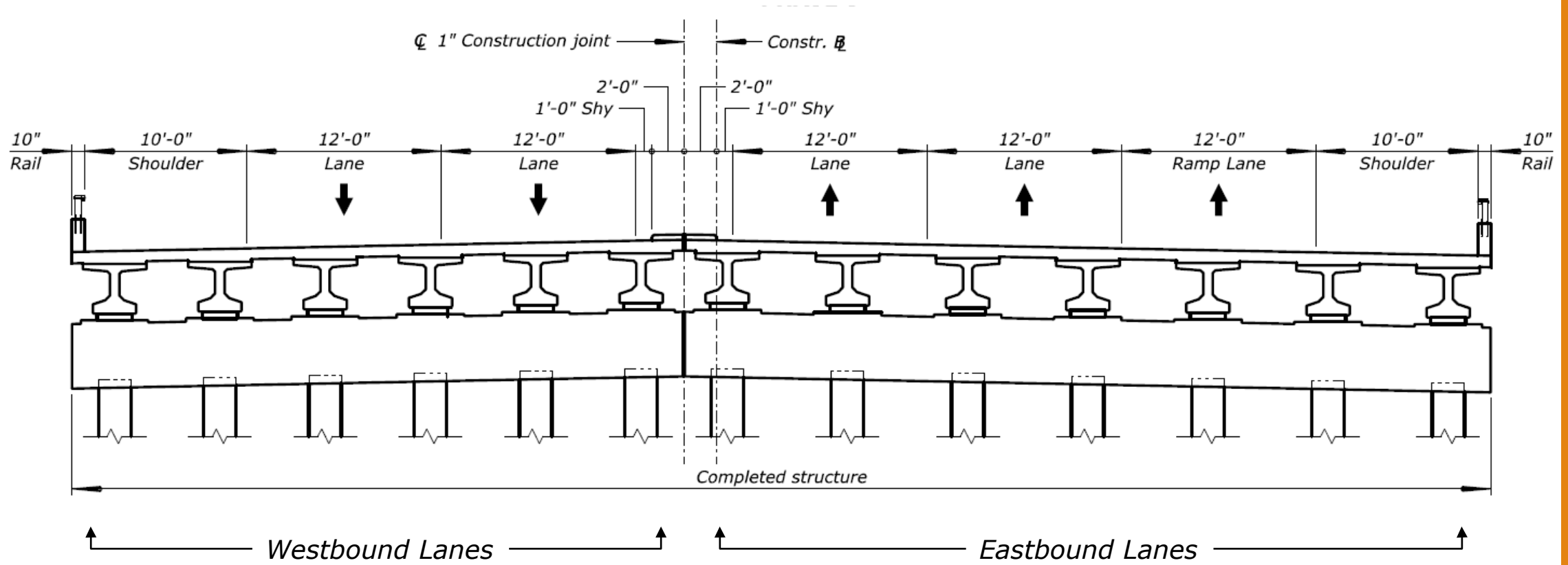
Summer 2021 – Fall 2022



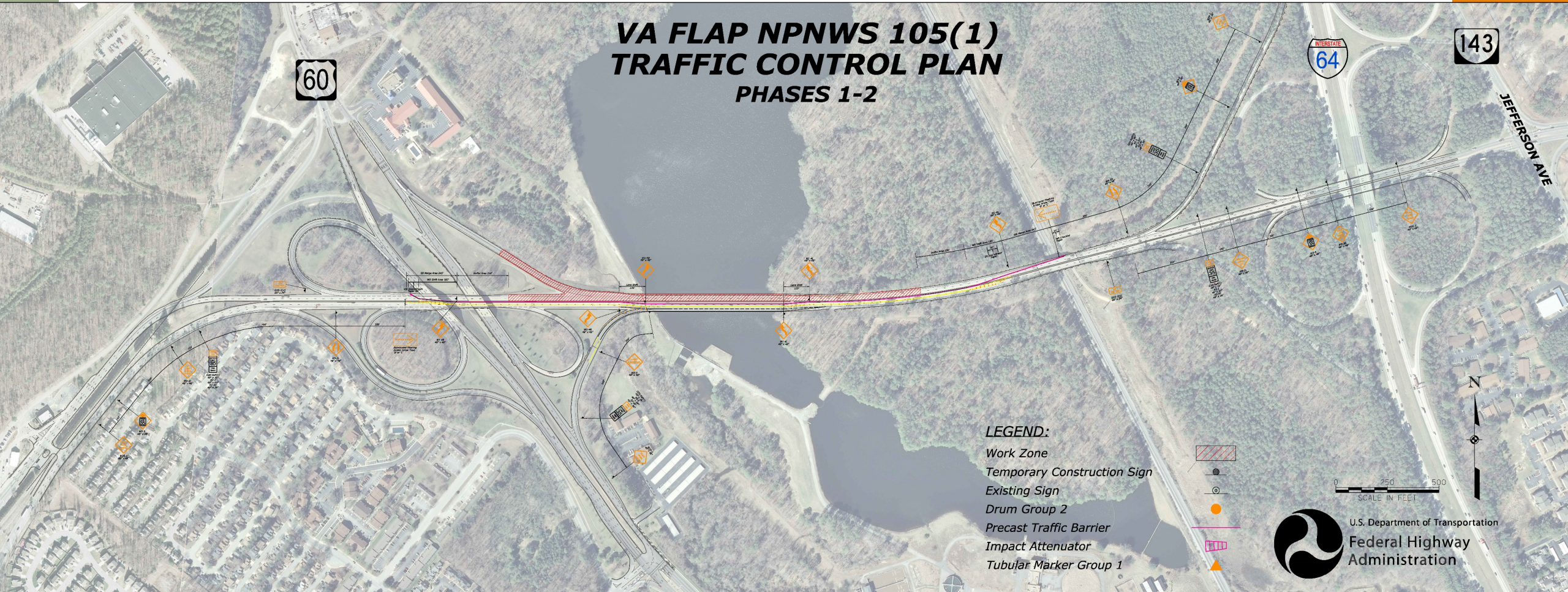
PHASE 3



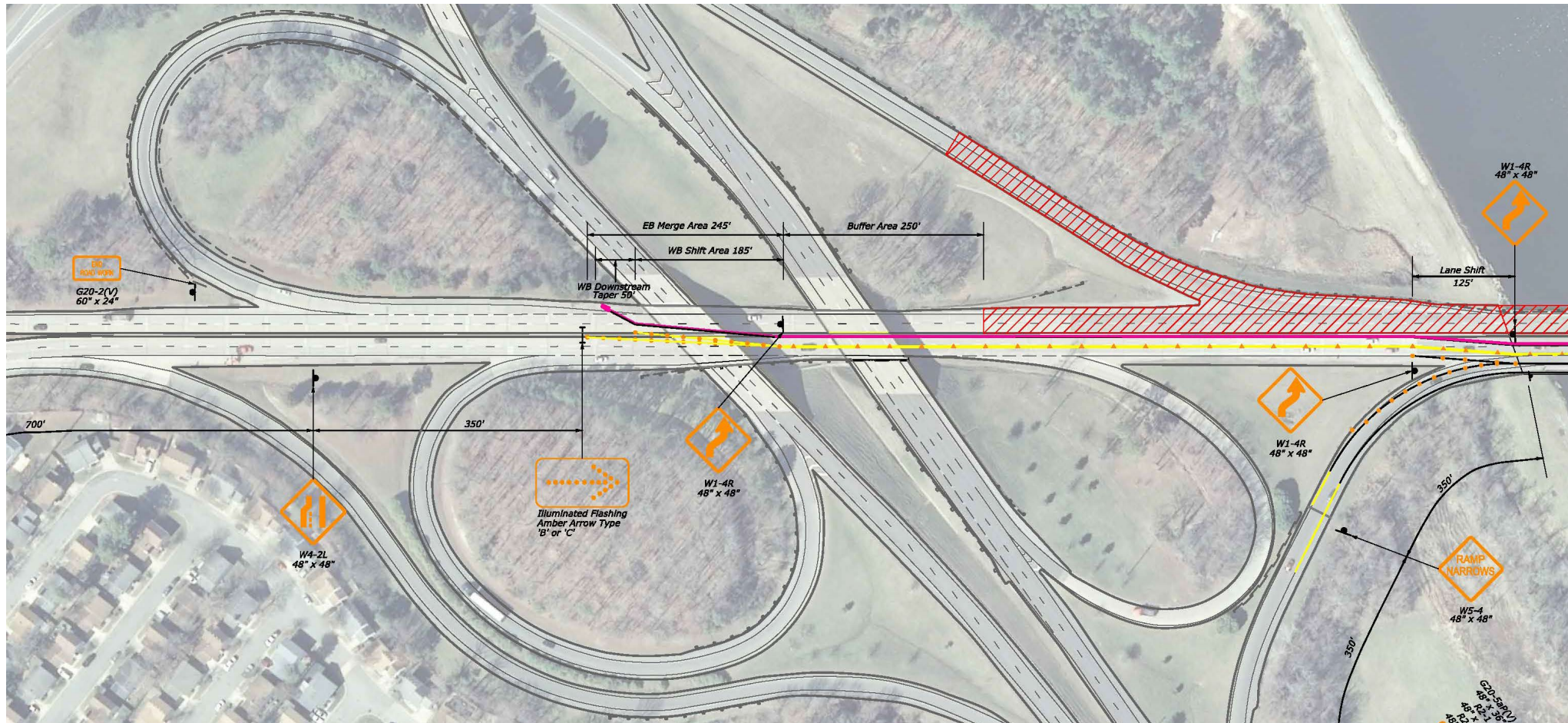
Construction Complete Fall/Winter 2022



Traffic Control Plan Phases 1&2



Phases 1&2 – West Project Limits








Detour Plans – Phases 1 and 2

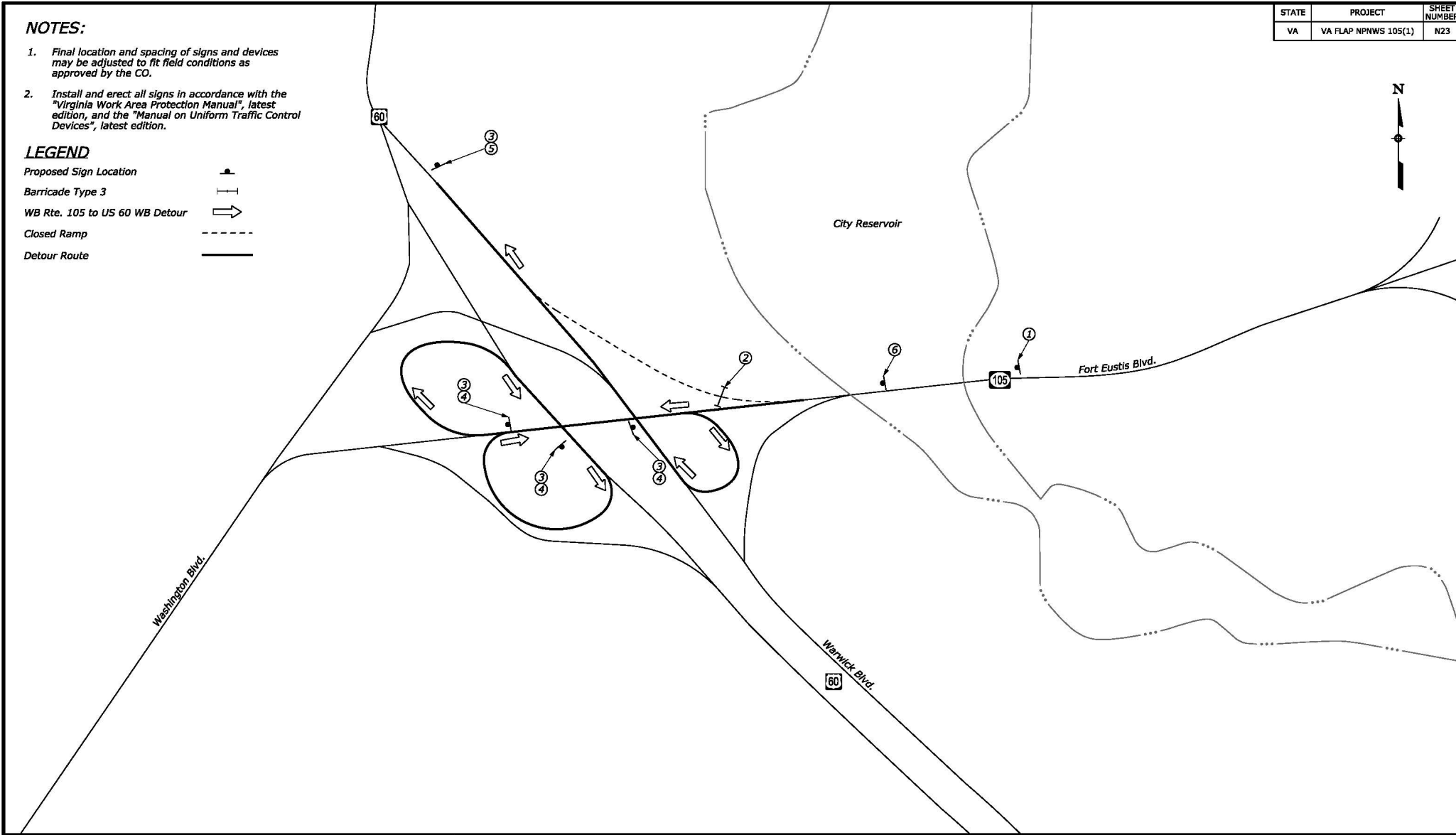
STATE	PROJECT	SHEET NUMBER
VA	VA FLAP NPNWS 105(1)	N23

NOTES:

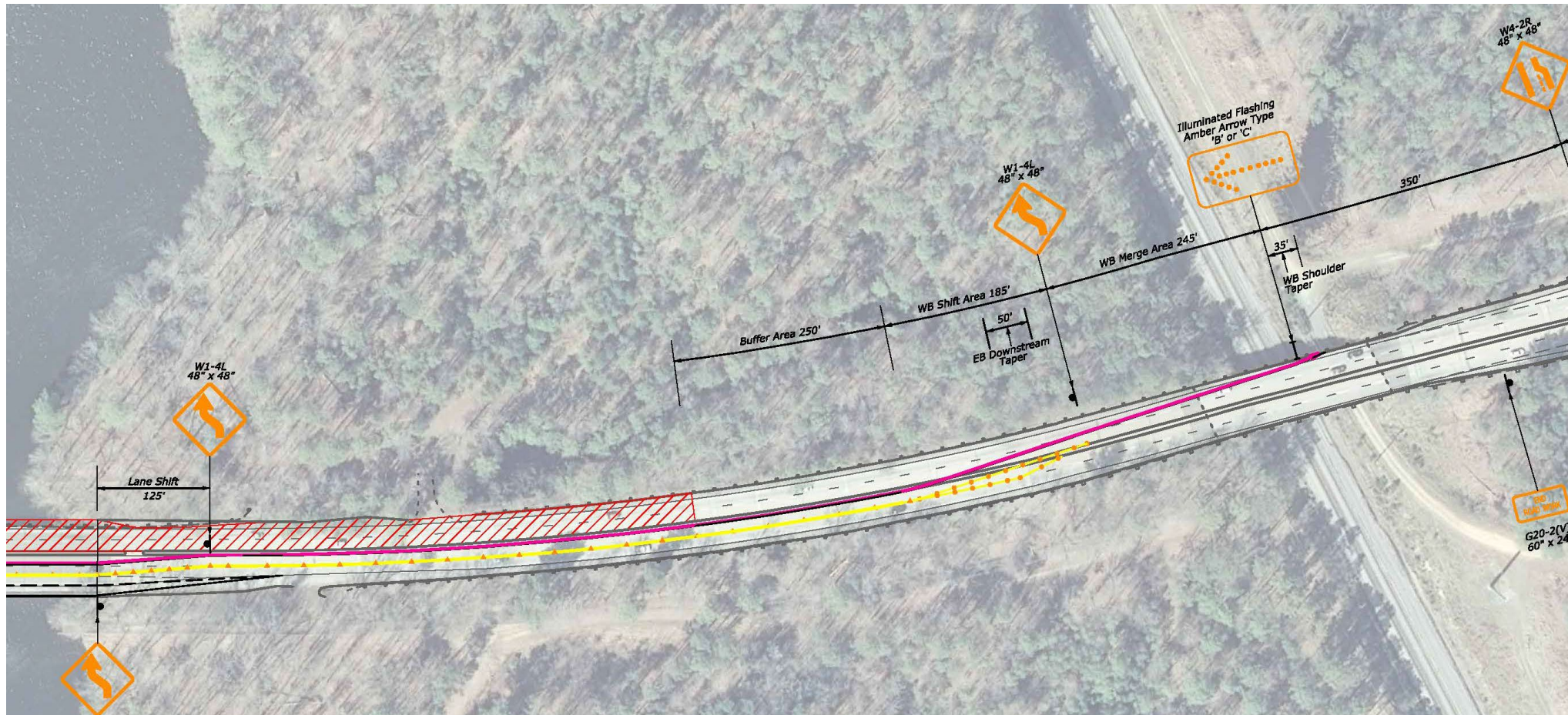
1. Final location and spacing of signs and devices may be adjusted to fit field conditions as approved by the CO.
2. Install and erect all signs in accordance with the "Virginia Work Area Protection Manual", latest edition, and the "Manual on Uniform Traffic Control Devices", latest edition.

LEGEND

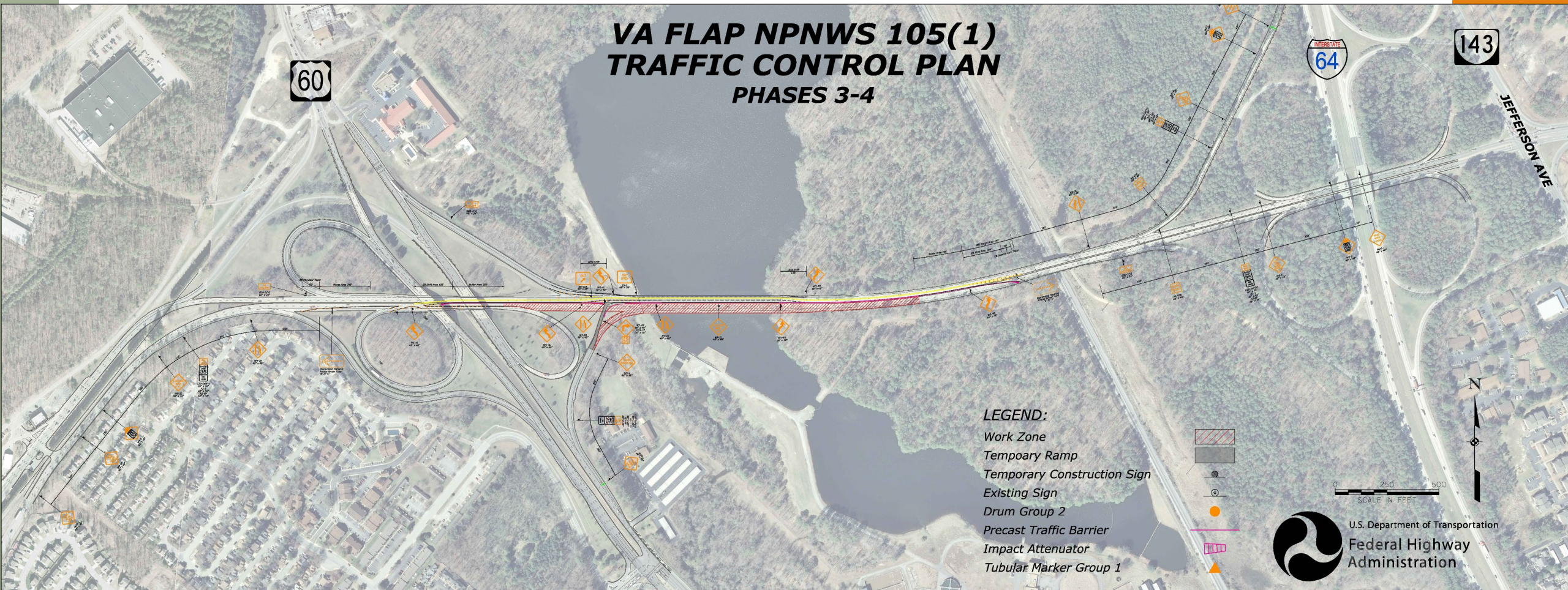
- Proposed Sign Location 
- Barricade Type 3 
- WB Rte. 105 to US 60 WB Detour 
- Closed Ramp 
- Detour Route 



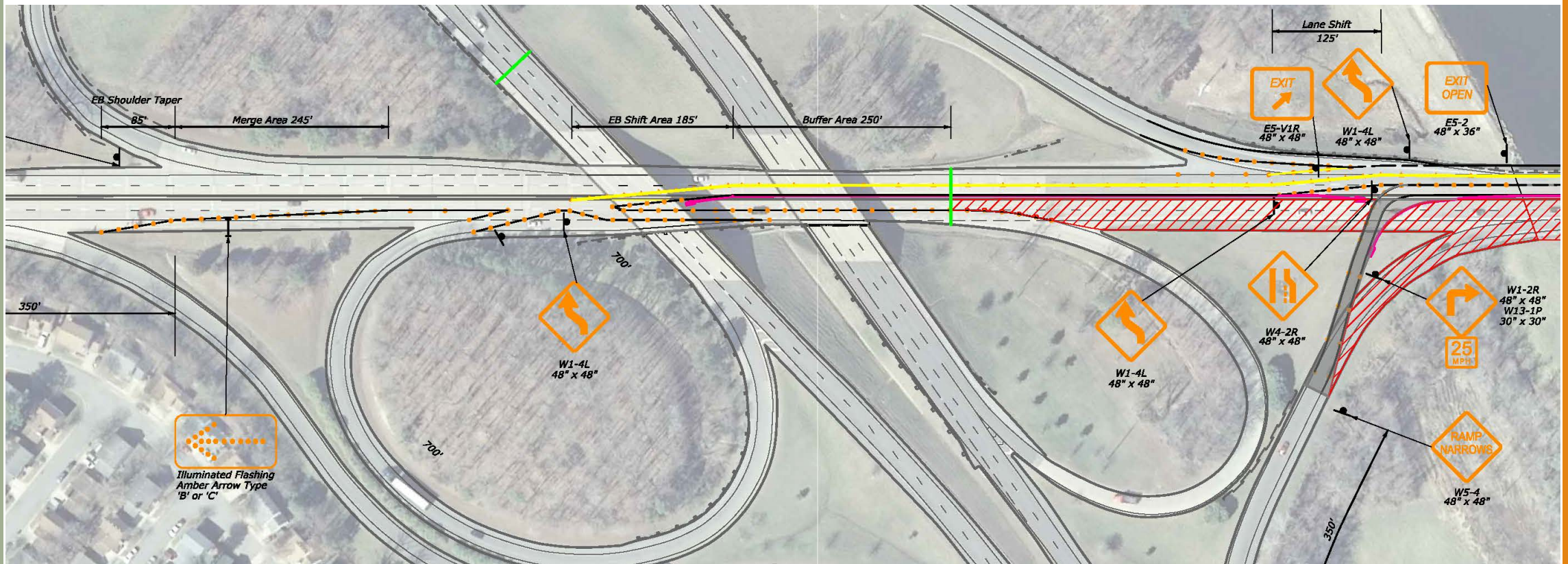
Phases 1&2 – East Project Limits



Traffic Control Plan Phases 3&4



Phases 3/4 – West Project Limits









Detour Plans – Phase 4

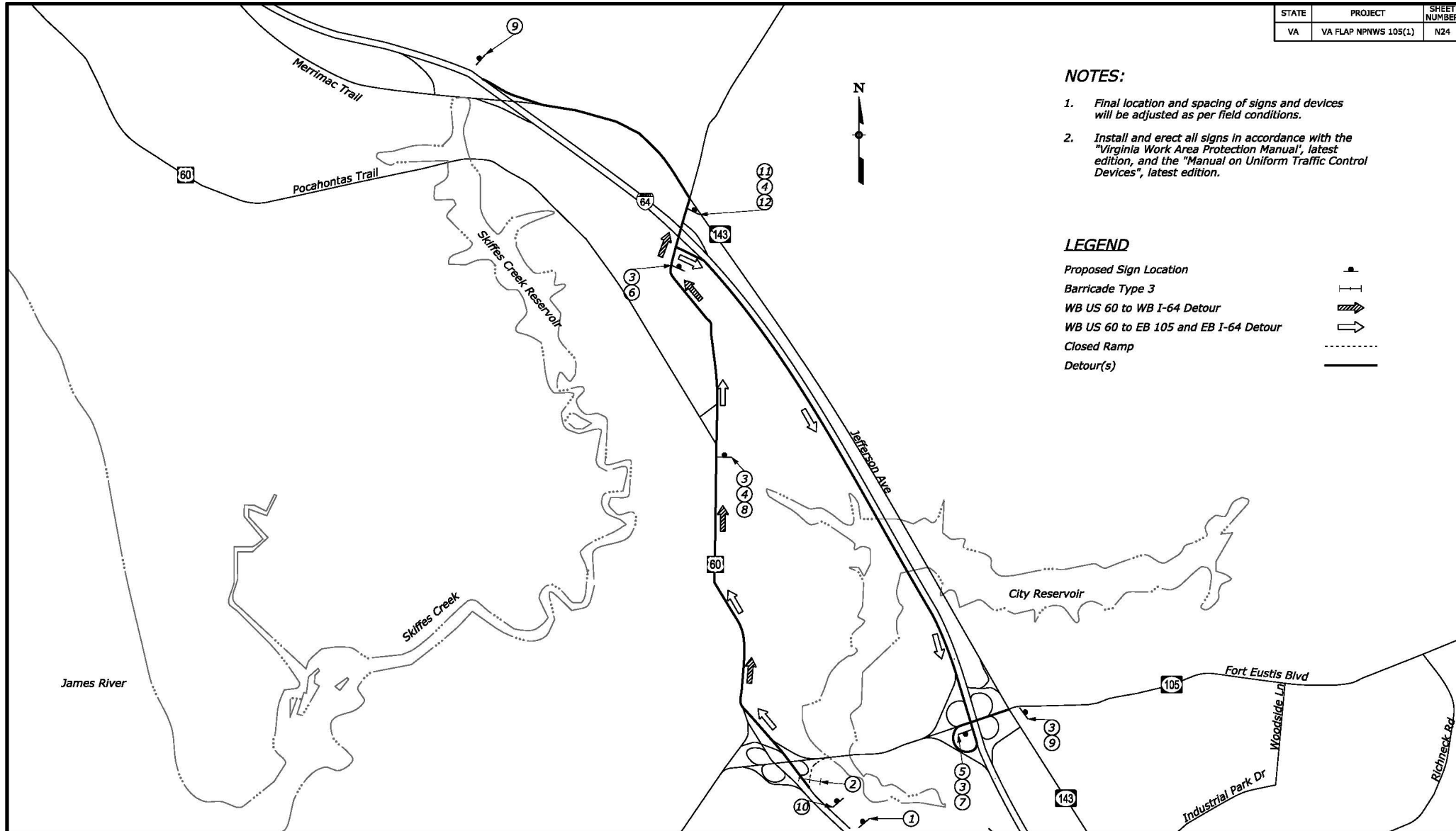
STATE	PROJECT	SHEET NUMBER
VA	VA FLAP NPWS 105(L)	N24

NOTES:

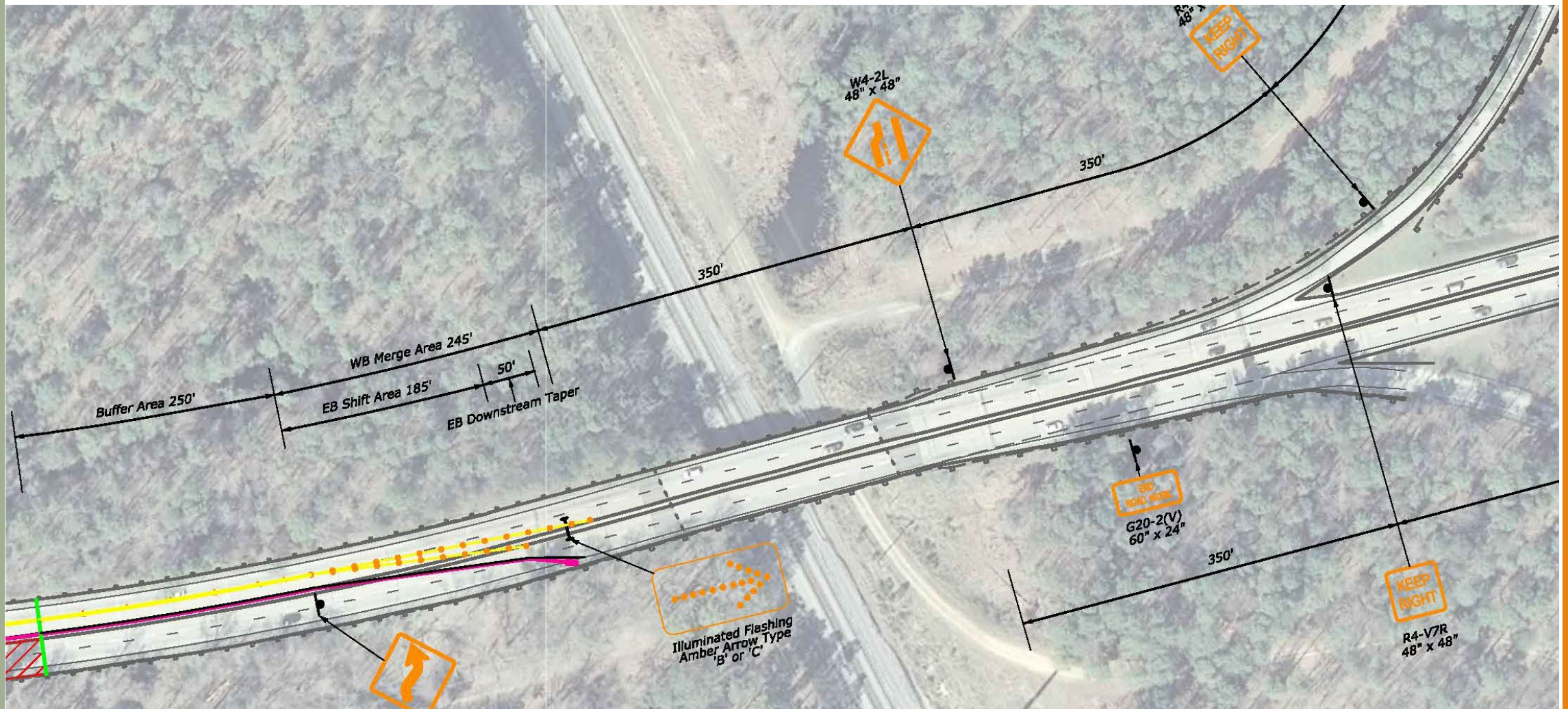
1. Final location and spacing of signs and devices will be adjusted as per field conditions.
2. Install and erect all signs in accordance with the "Virginia Work Area Protection Manual", latest edition, and the "Manual on Uniform Traffic Control Devices", latest edition.

LEGEND

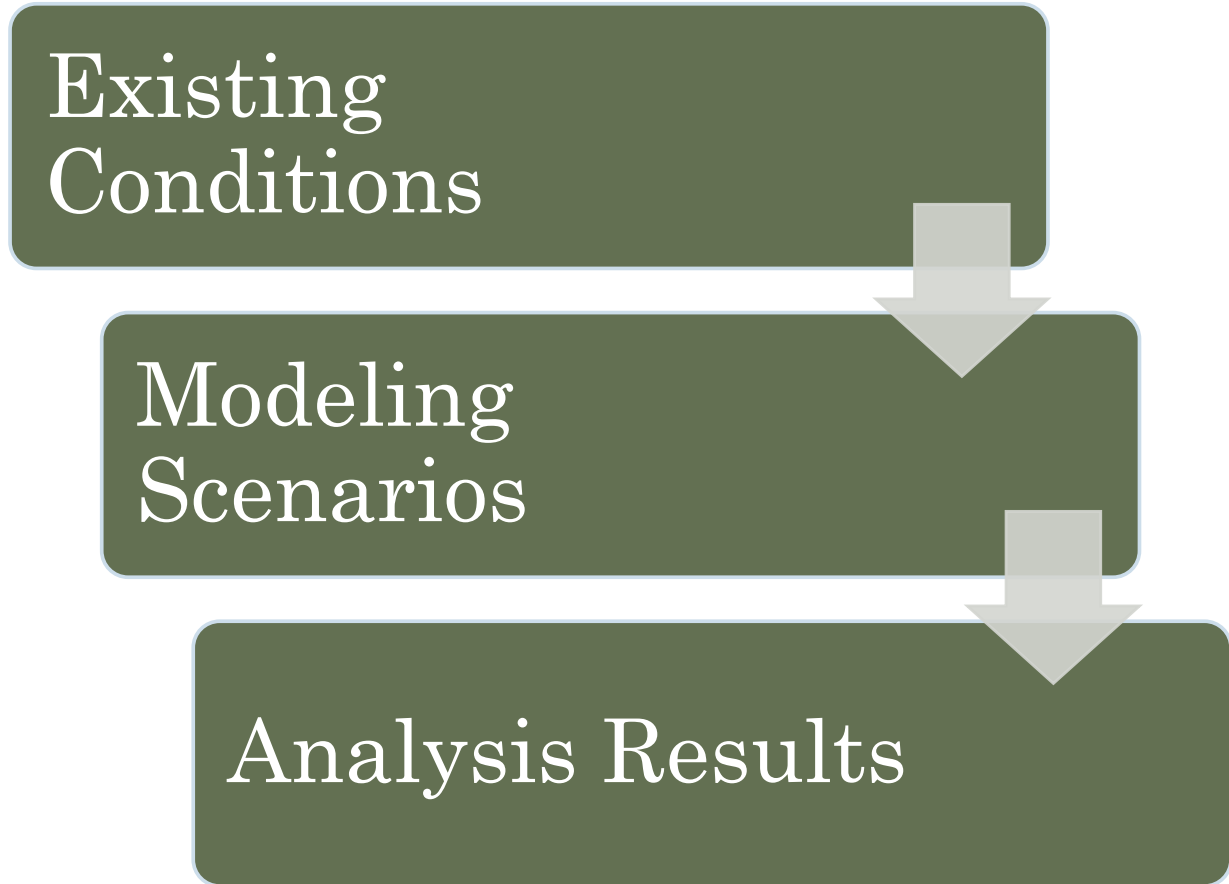
- Proposed Sign Location 
- Barricade Type 3 
- WB US 60 to WB I-64 Detour 
- WB US 60 to EB 105 and EB I-64 Detour 
- Closed Ramp 
- Detour(s) 



Phases 3/4 – East Project Limits

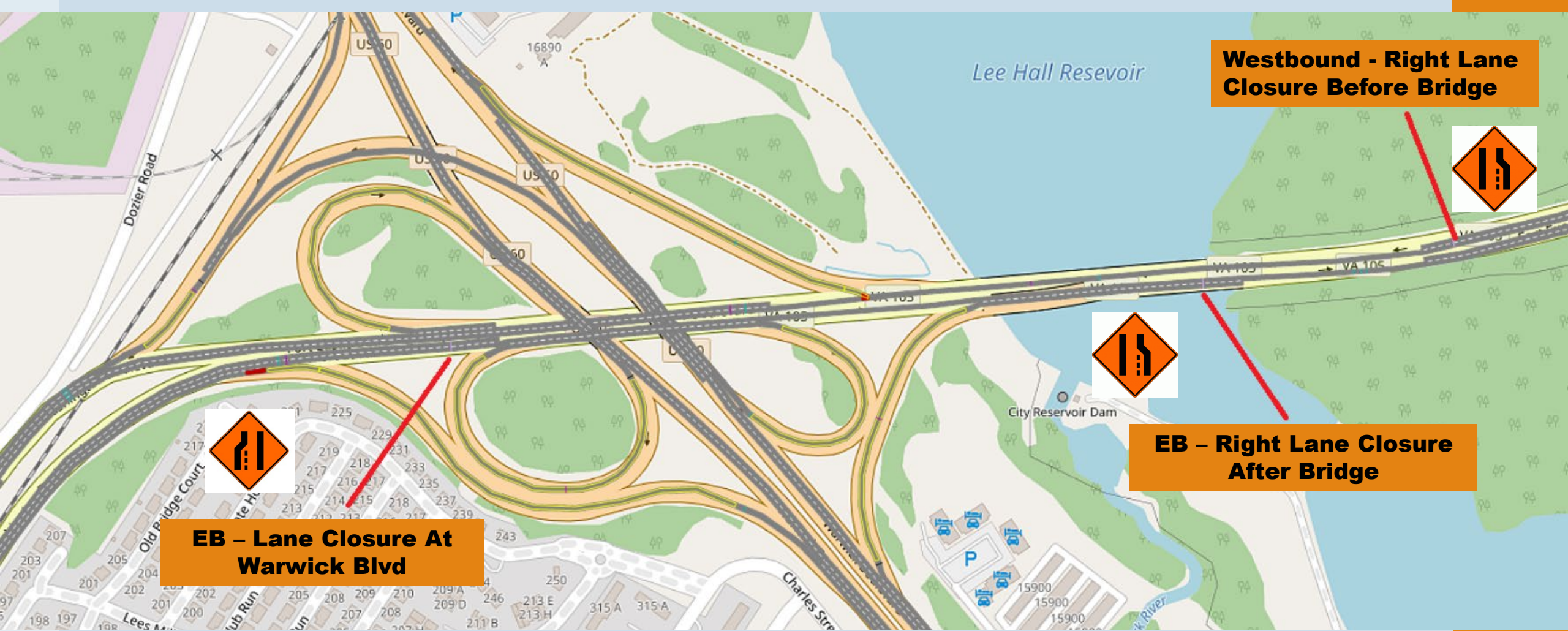


Traffic Management





Existing Conditions



Westbound - Right Lane Closure Before Bridge



EB - Right Lane Closure After Bridge



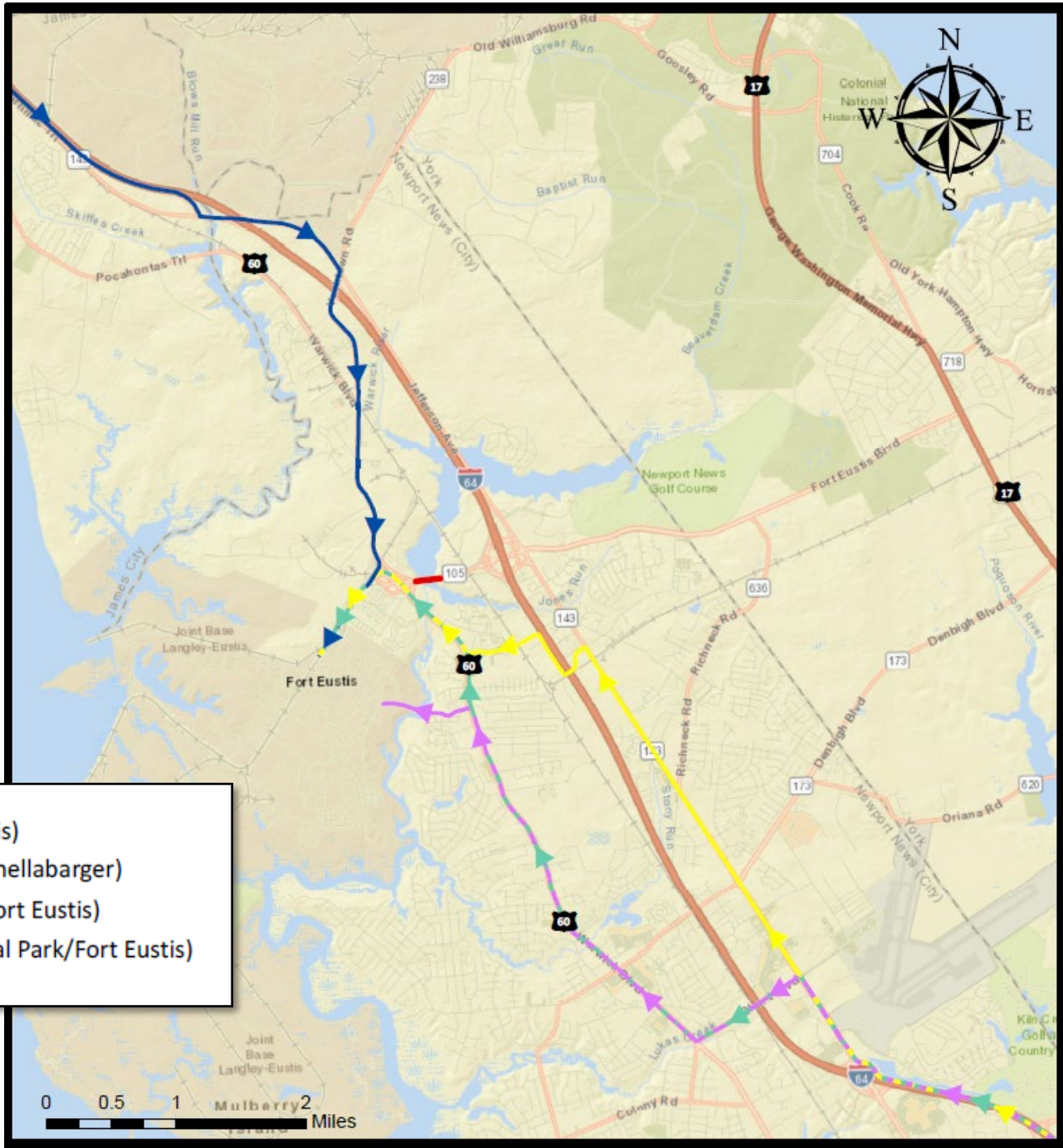
EB - Lane Closure At Warwick Blvd

Proposed Conditions – During Construction

Alternate Routes to Ft. Eustis: AM Peak Hours

Legend

- I-64 East to Joint Base Langley Eustis (via Fort Eustis)
- I-64 West to Joint Base Langley Eustis (via Bland/Shellabarger)
- I-64 West to Joint Base Langley Eustis (via Bland/Fort Eustis)
- I-64 West to Joint Base Langley Eustis (via Industrial Park/Fort Eustis)
- Construction Zone







Alternate Route Assumptions

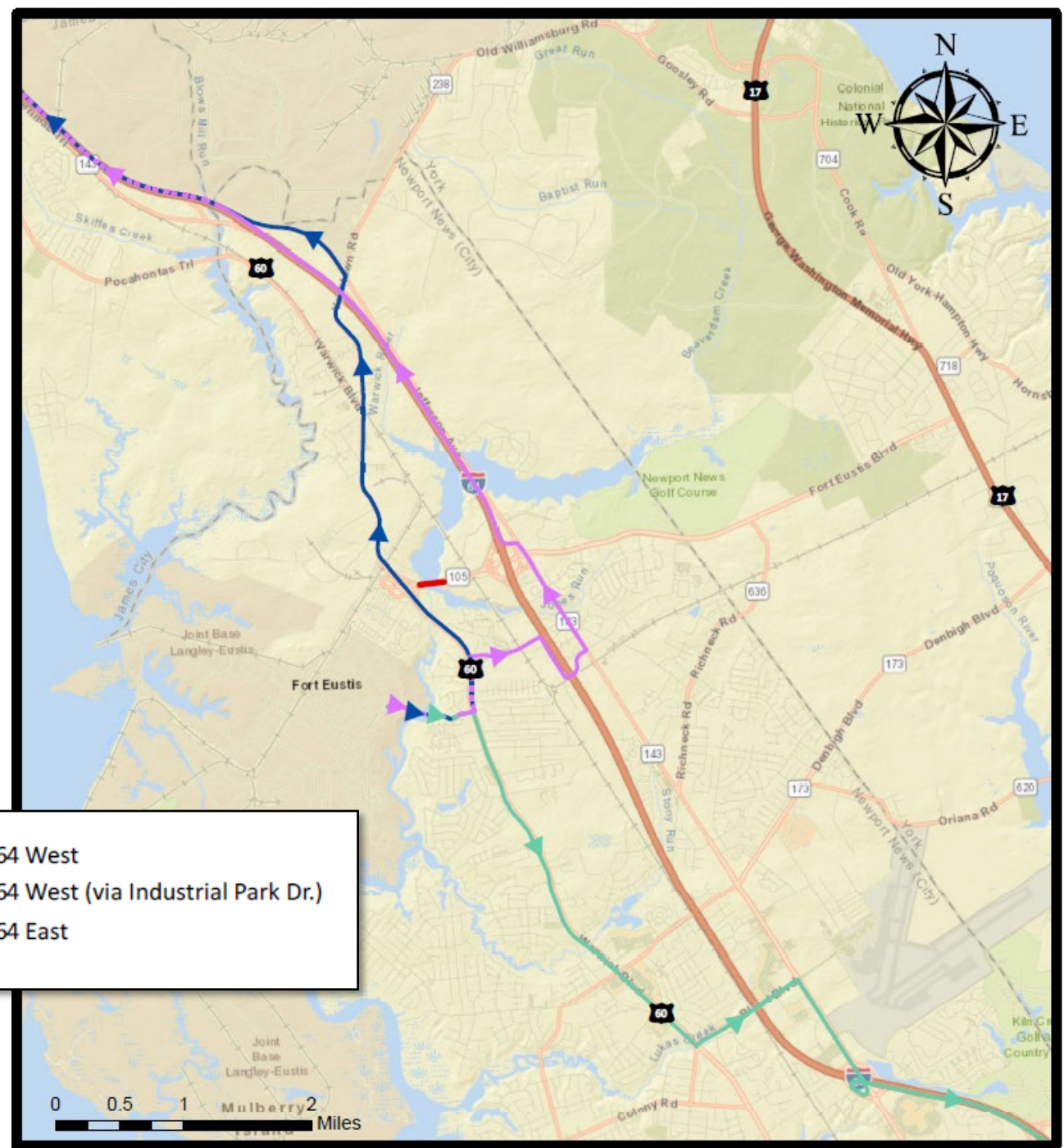
- Denbigh Blvd Bridge Under Construction until August 2021
- Atkinson Blvd Bridge Under Construction until December 2020

Both projects will be completed prior to the end of Ft. Eustis Blvd bridge, which may provide additional relief.

Alternate Routes from Ft. Eustis: PM Peak Hours

Legend

-  Joint Base Langley Eustis (via Shellabarger) to I-64 West
-  Joint Base Langley Eustis (via Shellabarger) to I-64 West (via Industrial Park Dr.)
-  Joint Base Langley Eustis (via Shellabarger) to I-64 East
-  Construction Zone



Recommendations

- Goal: Alternate Routes + Demand Reduction
 - Alternate Routes → 25% reduction
 - Avoiding Rush Hour → 10% reduction
 - Total Reduction of 35%
 - PM Scenario – Reduces Average Delay from 15 minutes to 5 minutes



Rush Hour Reduction

How do we accomplish that?

- Flexible work schedules to avoid entrance and exit during peak hours
 - Peak morning: 7:00 – 9:00 am
 - Peak evening: 4:00 – 6:00 pm
- Teleworking
- Ridesharing



ANY
QUESTIONS?



Thank you for Listening

How can you help?

- **Avoid** Route 105 during peak hours:
 - 7:00 – 9:00 am
 - 4:00 – 6:00 pm
- **Slow Down** to 35 mph in the work zone
- Seek **Alternate** Routes

