

Arlington National Cemetery Southern Expansion (ANCSE) Defense Access Road (DAR) Project

ASHE Presentation - Nov. 11, 2020

INCLUDING

Columbia Pike (Route 244) Realignment and Columbia Pike/Washington Boulevard (Route 27) Interchange Modifications and Limited Access Control Change

Wednesday, November 11, 2020



U.S. Department of Transportation
Federal Highway Administration

Eastern Federal Lands Highway Division



**US Army Corps
of Engineers®**

VDOT Virginia Department
of Transportation


ARLINGTON
VIRGINIA

Presentation Outline

- Introductions
- Defense Access Road (DAR) Project Overview
- Arlington National Cemetery Southern Expansion (ANCSE) Project Overview
- DAR project:
 - Specific Design elements
 - Interchange Modification Report (IMR)
 - Proposed Section & Multimodal Connectivity
 - Major Design Coordination Efforts
 - Anticipated Construction Phasing
- Questions



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(Special thanks for continued support and coordination with ASHE)



Our Team

Project Agencies and Stakeholders



**US Army Corps
of Engineers®**



- ✓ Arlington National Cemetery
- ✓ Air Force Memorial
- ✓ Foxcroft Heights Neighborhood
- ✓ Joint Base Myer-Henderson Hall
- ✓ Pentagon Memorial Fund Visitor Education Center
- ✓ U.S. Commission of Fine Arts
- ✓ Traveling public – drivers, transit users, pedestrians, bicyclists

DAR Project Overview



Purpose: *Realignment and reconfiguration of streets and sidewalks to allow for the expansion of contiguous interment space for Arlington National Cemetery (ANC)*



DAR Project Overview



- ✓ Realignment of Columbia Pike and S. Joyce Street
- ✓ Replacement of Southgate Road with a new segment of S. Nash Street—including expansion of Foxcroft Heights Park
- ✓ Modification of the Columbia Pike/Washington Boulevard interchange
- ✓ Relocation of multiple utilities
- ✓ Grading for connection to future Cemetery Wall Trail (between Columbia Pike and Memorial Avenue)
- ✓ Construction of pedestrian and bicycle facilities to increase connectivity
- ✓ Construction of street lighting to enhance safety
- ✓ Retaining walls, service vehicle tunnel, and mass grading for ANC Southern Expansion project
- ✓ Maintenance of safe multimodal access to the Air Force Memorial (AFM) for most of construction period
- ✓ Construction of driveway entrances for future Pentagon 9/11 Memorial Visitor Education Center (VEC)
- ✓ Adjustment of Limited Access Control along Route 27 and I-395

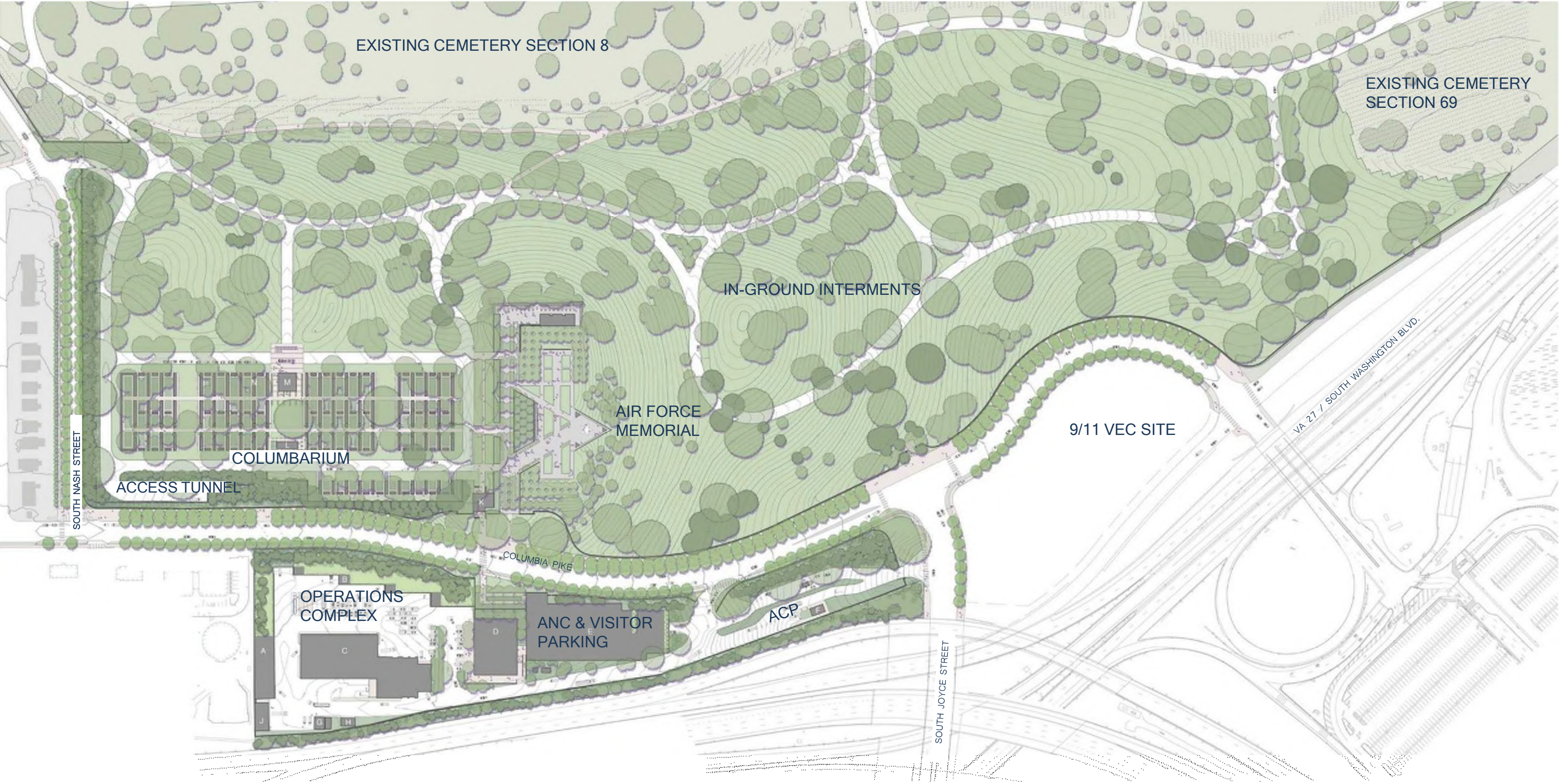
Air Force Memorial

- Goal: To integrate the Air Force Memorial seamlessly into the expanded Arlington National Cemetery grounds
- Recognize the national importance of the project site

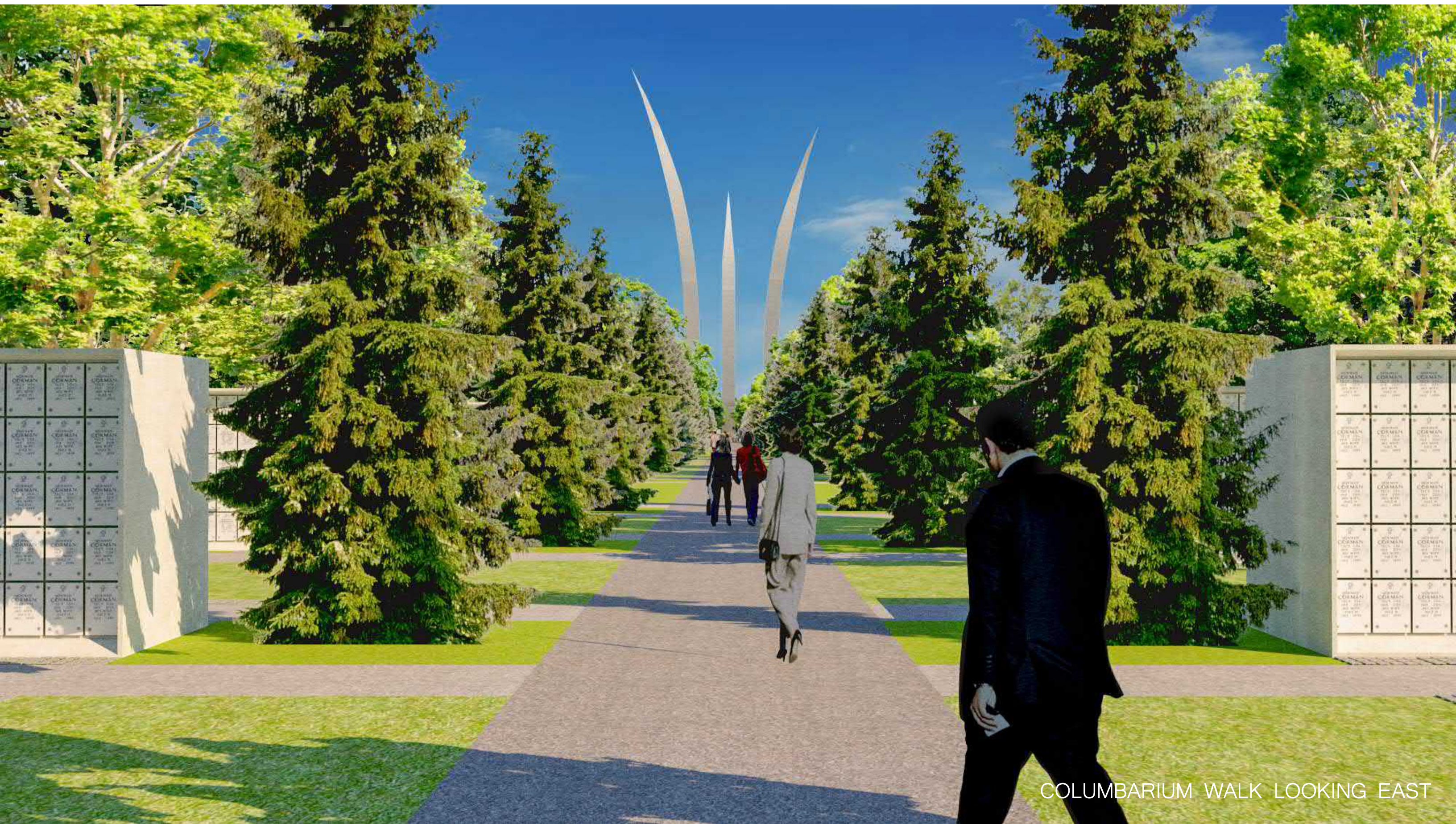


ANC Southern Expansion (ANCSE) Project Overview





35% DESIGN PHASE ILLUSTRATIVE PLAN



COLUMBARIUM WALK LOOKING EAST

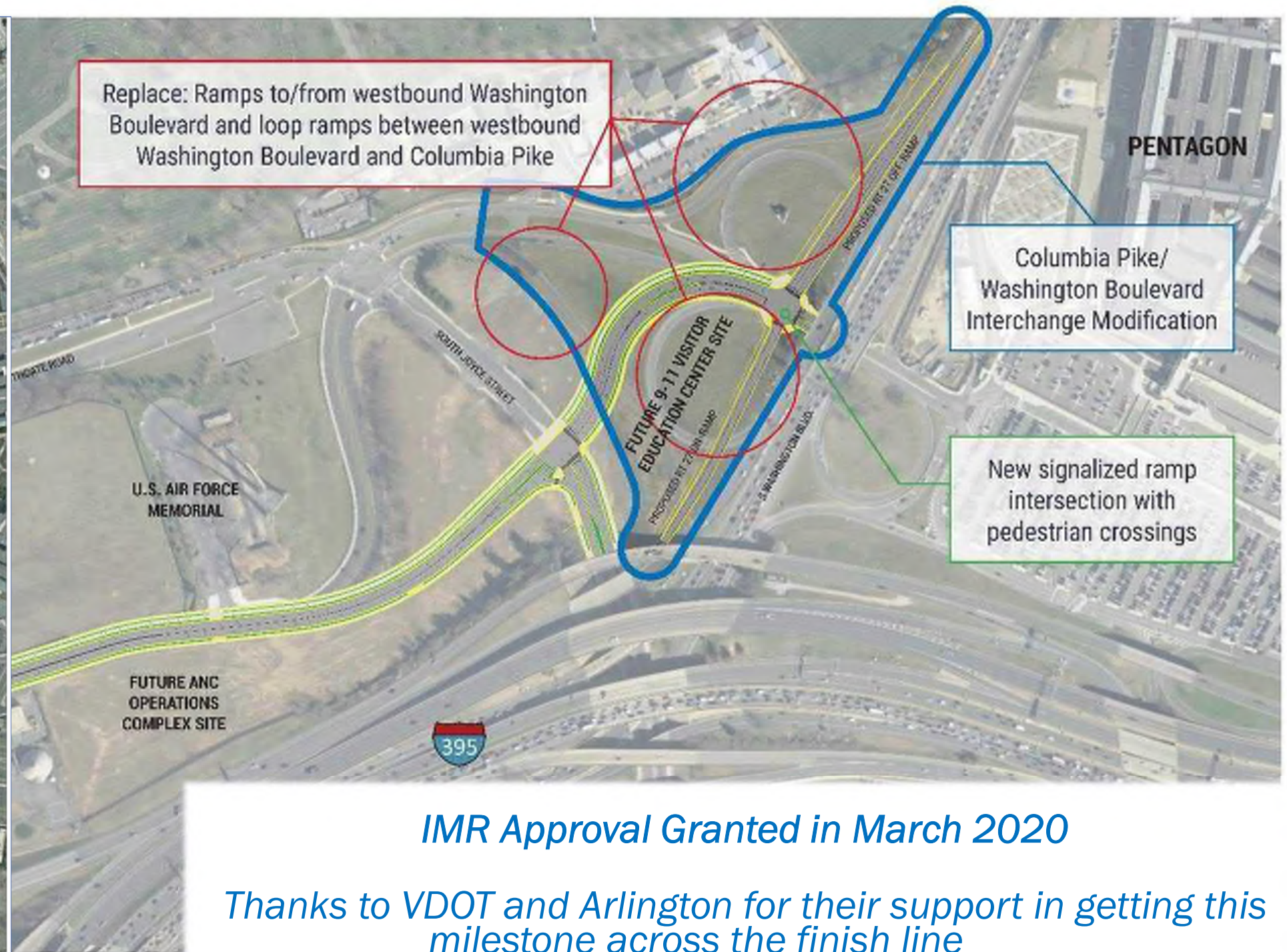


TRAM AND BUS STOP BETWEEN COLUMBARIUM AND AIR FORCE MEMORIAL

DAR Project ← → ANC Southern Expansion



Columbia Pike/Washington Blvd Interchange Modification



IMR Approval Granted in March 2020

Thanks to VDOT and Arlington for their support in getting this milestone across the finish line

DAR Project Overview

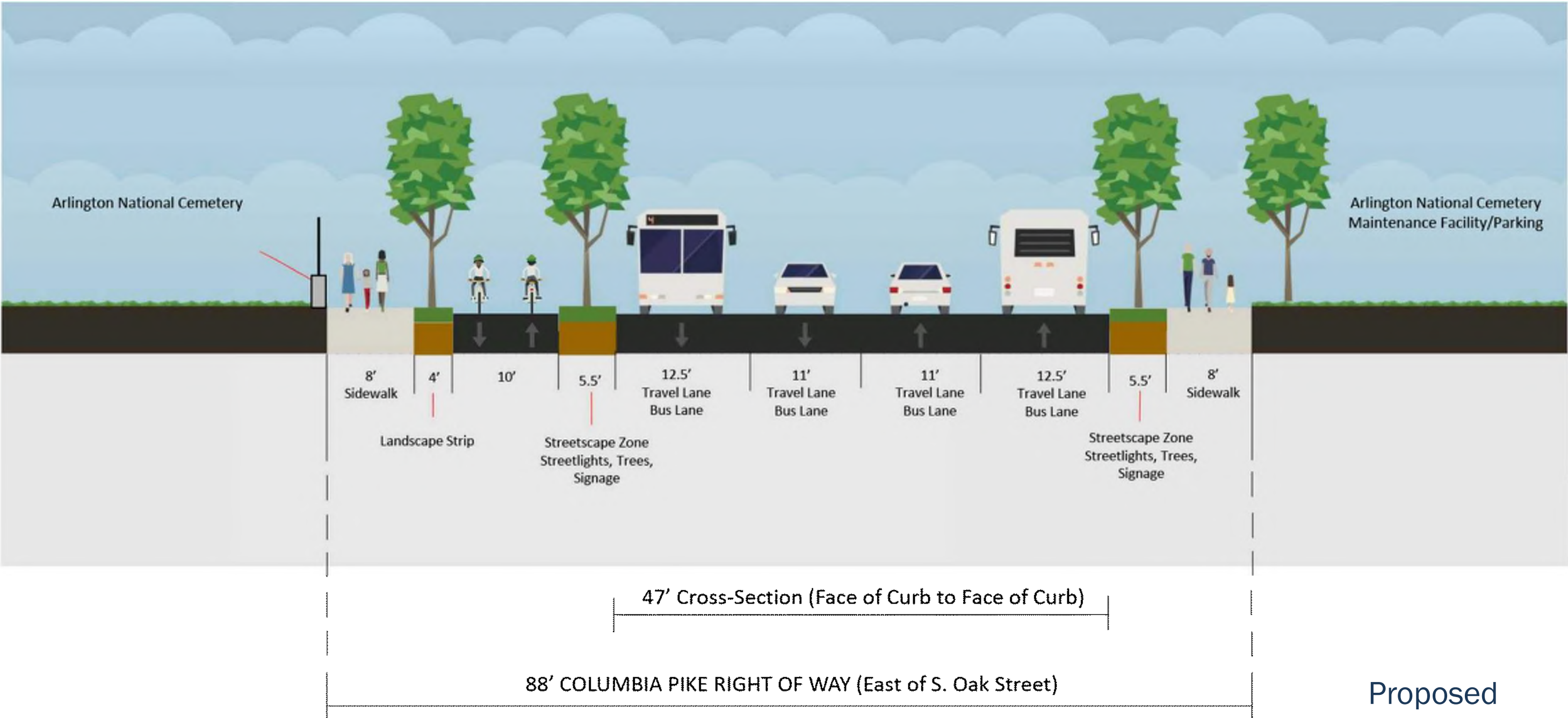


Columbia Pike - Cross Section Near AFM



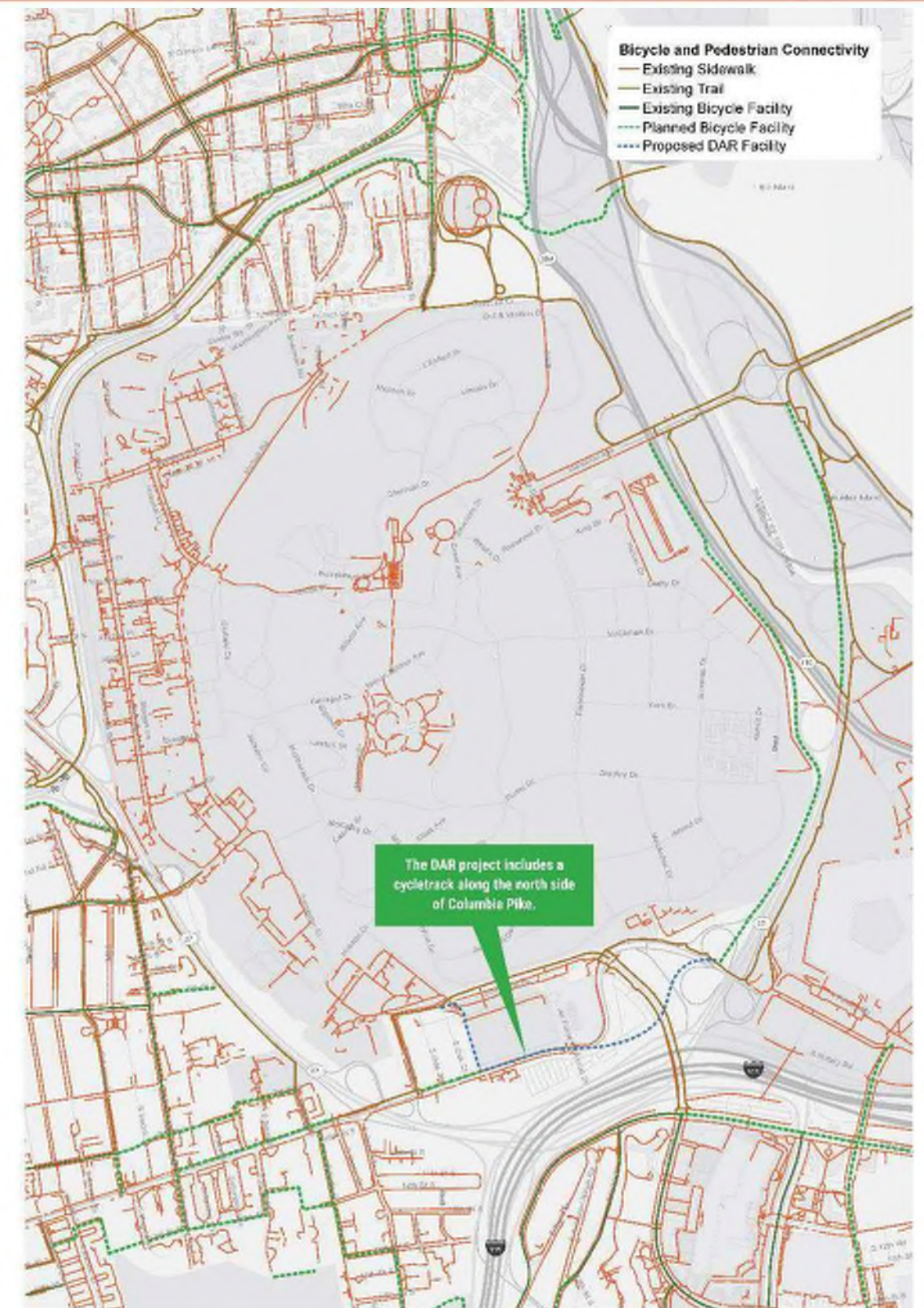
Existing – January 2020

Columbia Pike - cross section near AFM

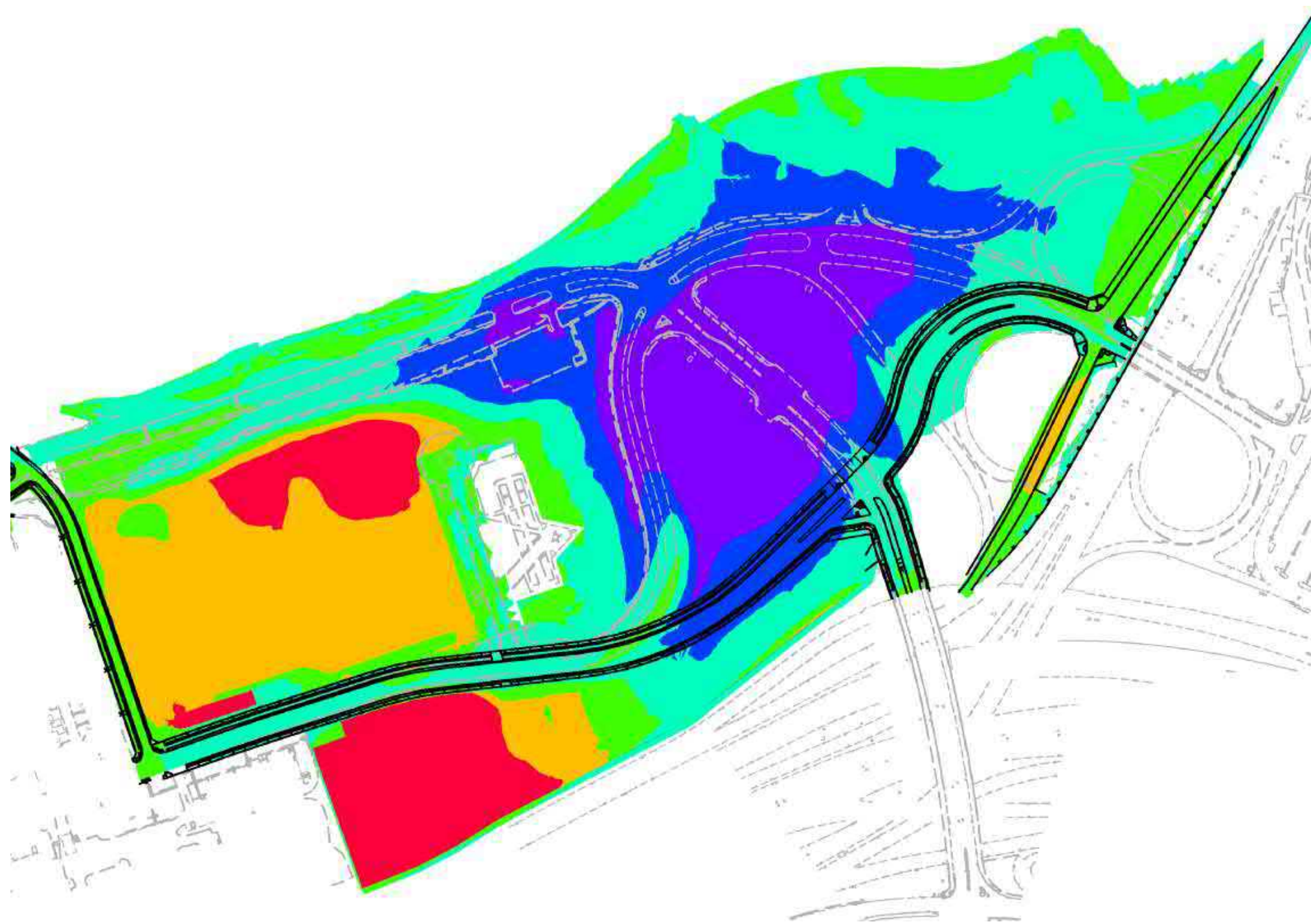


Multimodal Connectivity

- DAR project will...
- Maintain connectivity during construction
- Build sidewalks throughout and cycle track along Columbia Pike
- Modify Columbia Pike/Washington Boulevard interchange
- Grade connection to future Cemetery Wall Trail



DAR Project - Mass Grading



Legend

- >16' Cut
- 8'-16' Cut
- 0-8' Cut
- 0-8' Fill
- 8-16' Fill
- >16' Fill

ANCSE Retaining walls and Maintenance Tunnel

The image is a detailed site plan for the ANCSE project. It features a large central area with several irregularly shaped plots. A prominent feature is a large, irregularly shaped area outlined in red, which is labeled 'Proposed Retaining Walls'. This area follows the perimeter of a large, irregularly shaped plot. To the left of this red-outlined area, there is a smaller, rectangular plot outlined in green, labeled 'Proposed Tunnel'. This plot is situated between a larger building complex and the red-outlined area. The building complex consists of several interconnected rectangular structures with internal divisions. The overall layout suggests a complex development with a focus on retaining walls and a dedicated maintenance tunnel.

Proposed Tunnel

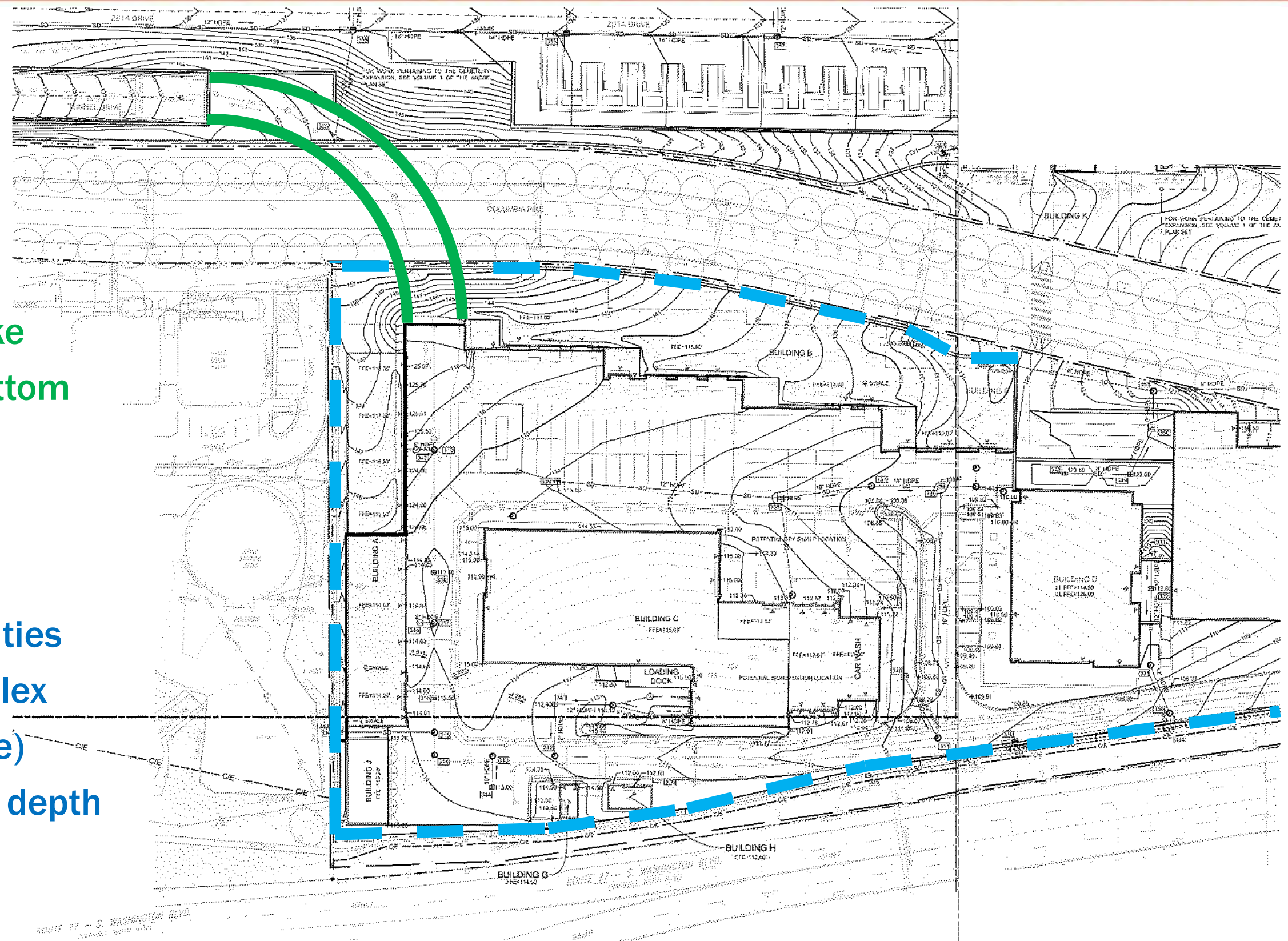
Proposed Retaining Walls

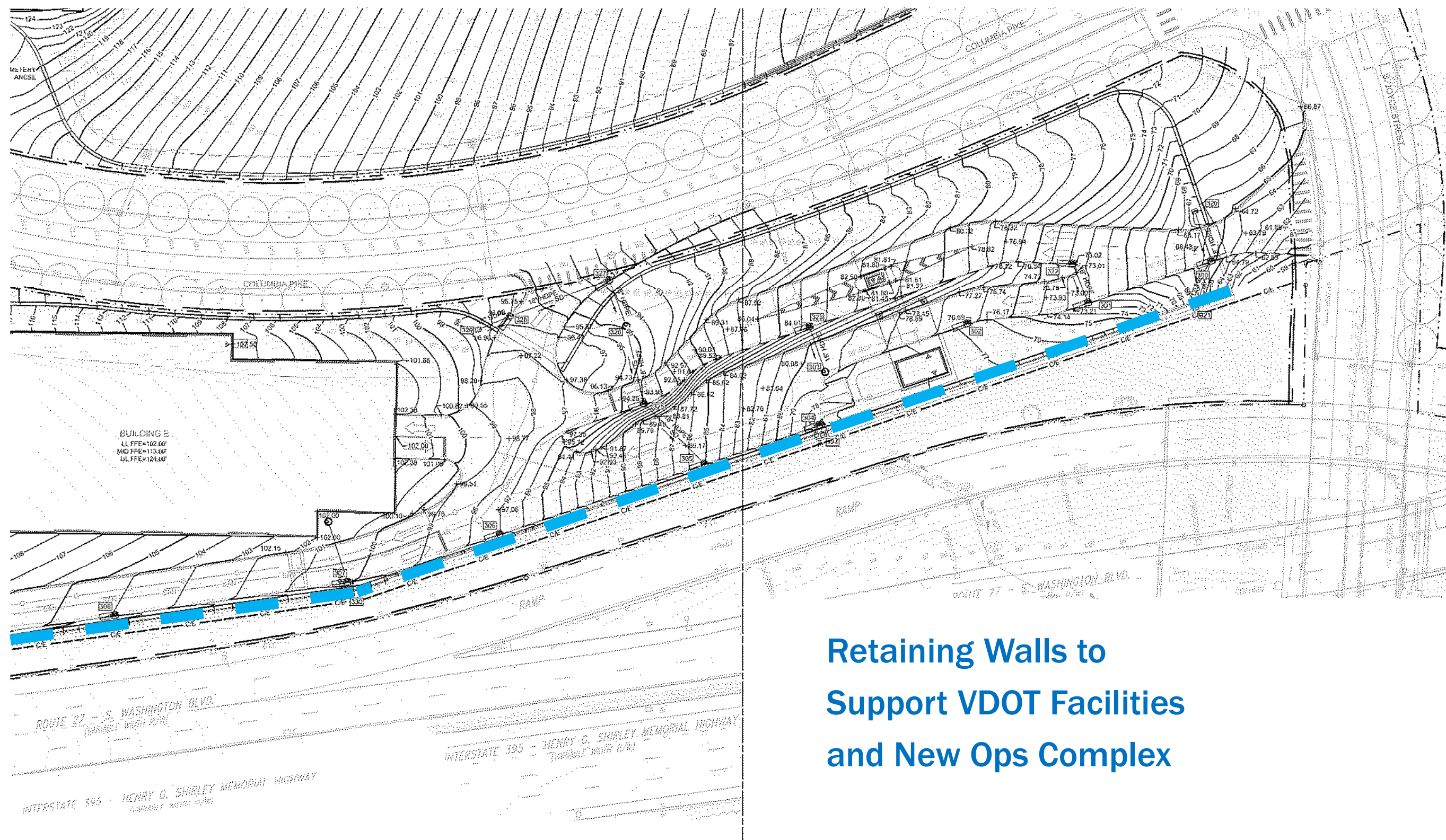
Proposed Tunnel Under Columbia Pike

- ~28' deep at bottom

Retaining Walls to Support VDOT Facilities and New Ops Complex

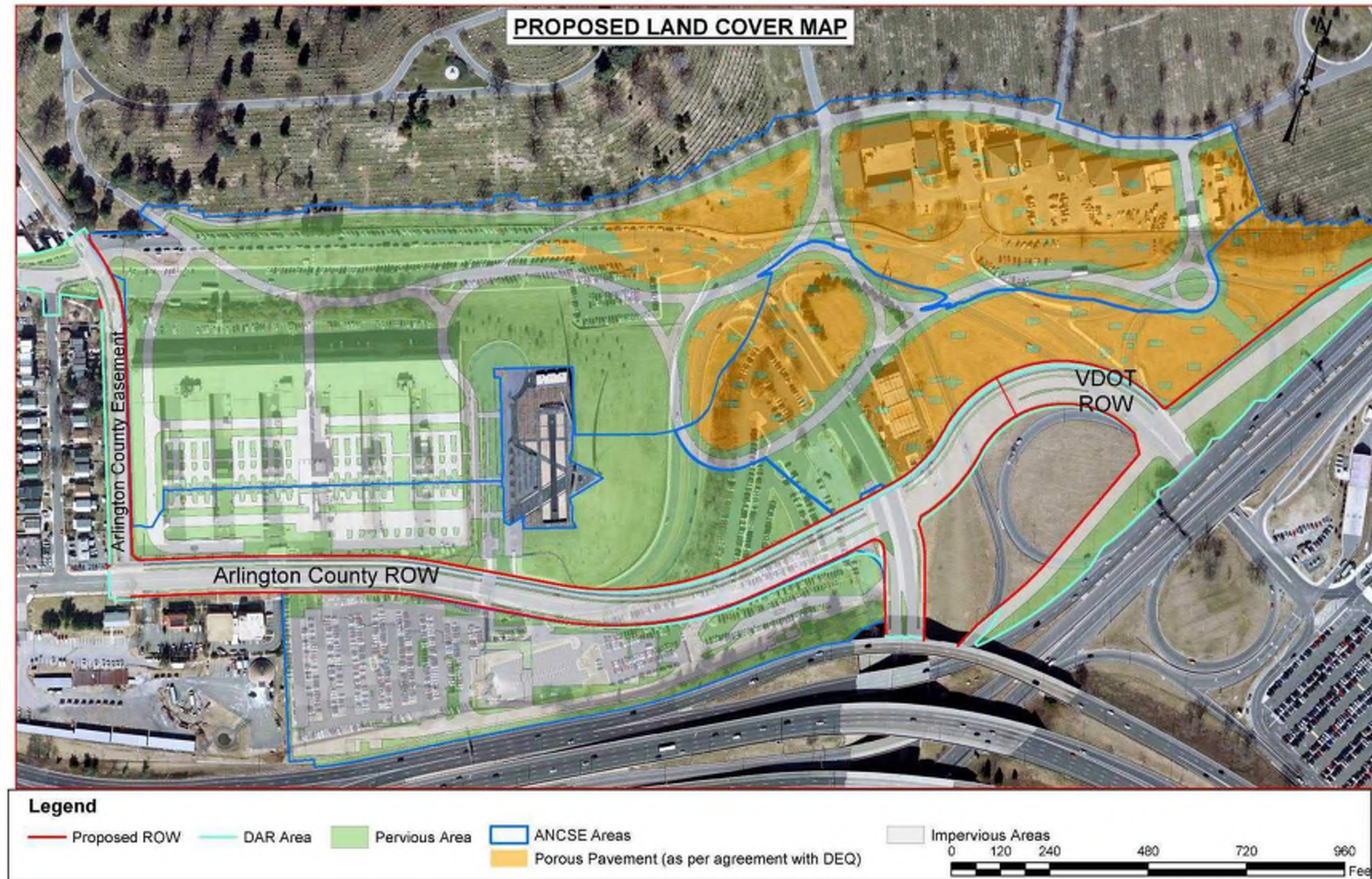
- 30'+ height (face)
- 35' embedment depth





**Retaining Walls to
Support VDOT Facilities
and New Ops Complex**

DAR Project Update – Stormwater Management



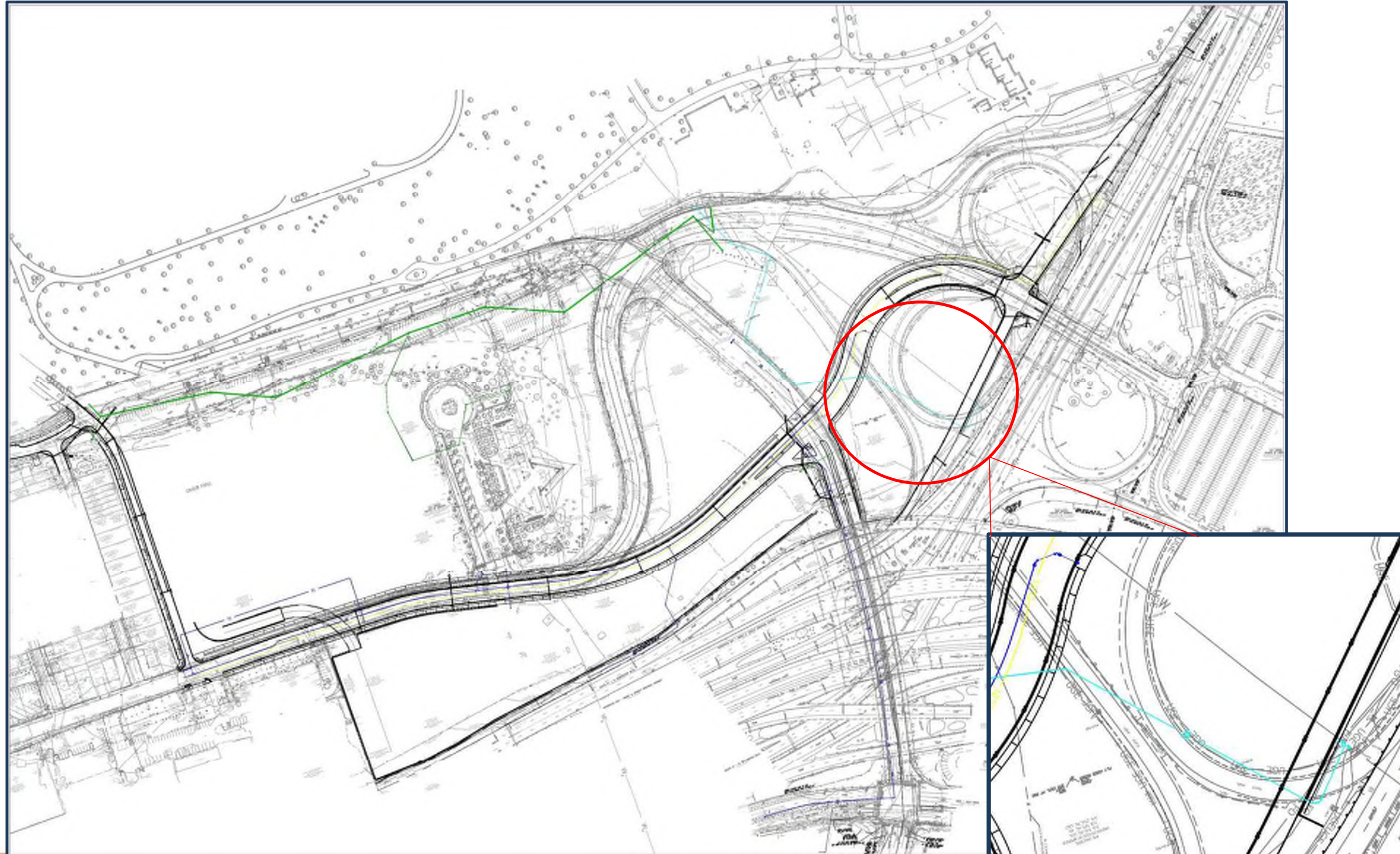
DAR Project – Complex “Dry” Utility Relocations

- Dominion
- Verizon
- Comcast
- MCI
- Jones
- FiberLight
 - CenturyLink
 - TW
 - LookingGlass
 - Zayo
 - Qwest
- L3
- Crown Castle
- 844
- Arlington Fiber
- Arlington Streetlighting
- VDOT Communications
- VDOT Electric



DAR Project – Complex “Wet” Utility Relocations

- Arlington Water
- Washington Aqueduct
- Arlington Sanitary
- Potomac Interceptor
- AFM Sanitary
- Washington Gas
- Pentagon Steamline
- Storm Drainage System



DAR Project – Utility Relocation Full Picture

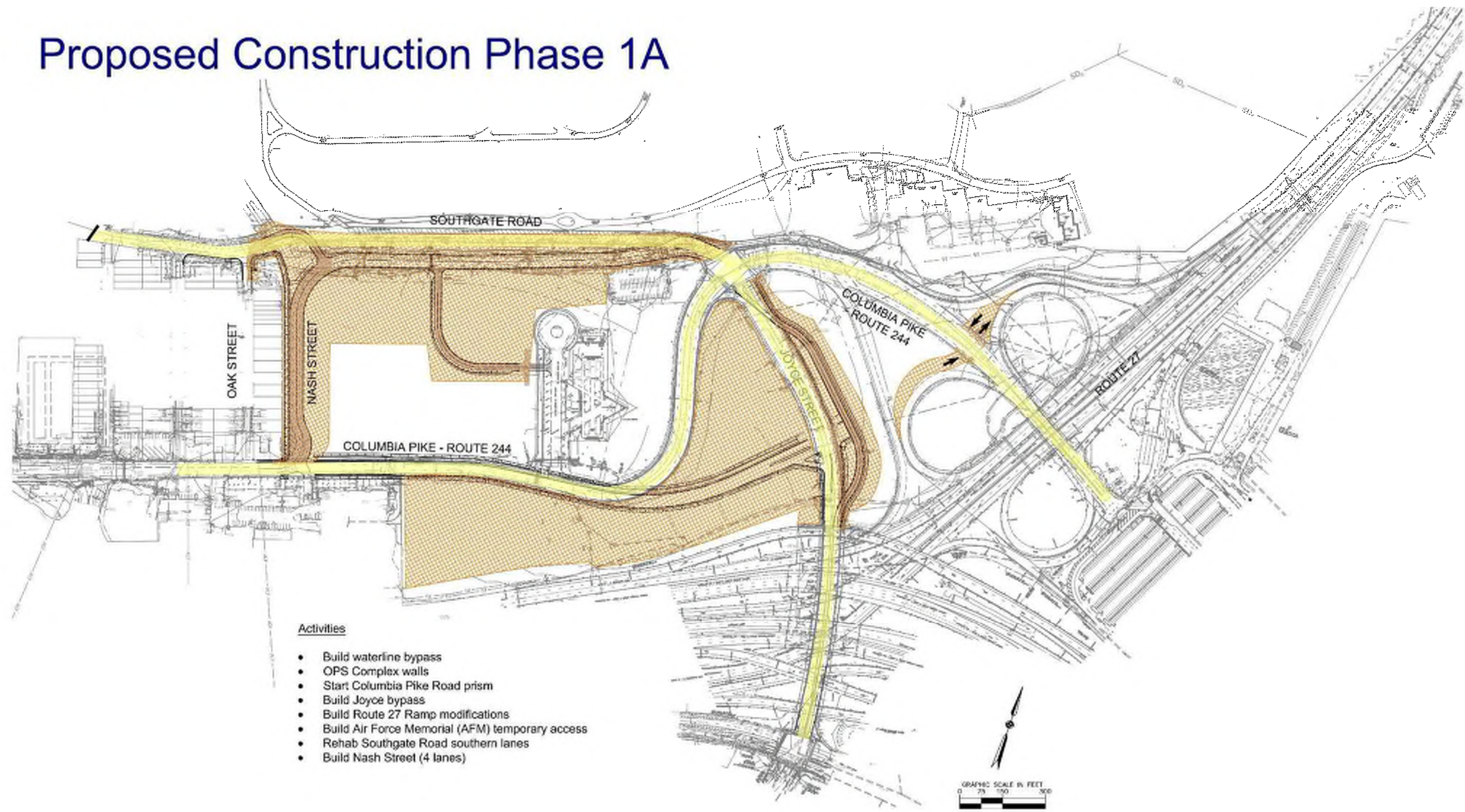


DAR Project → Construction Phasing

The DAR Project is committed to maintaining safe vehicular, transit, bicycle, and pedestrian access through the project site throughout the duration of construction.

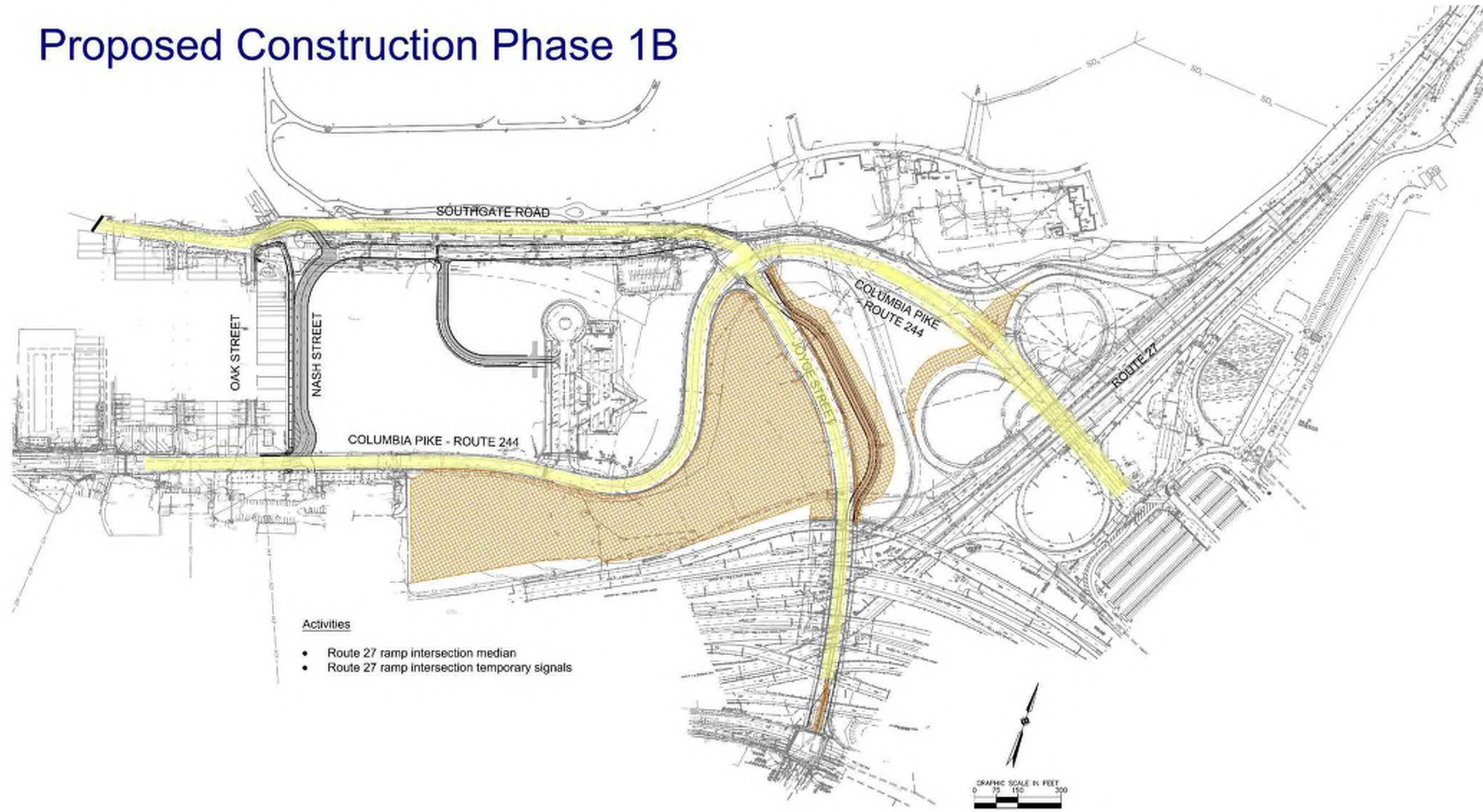
DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 1A



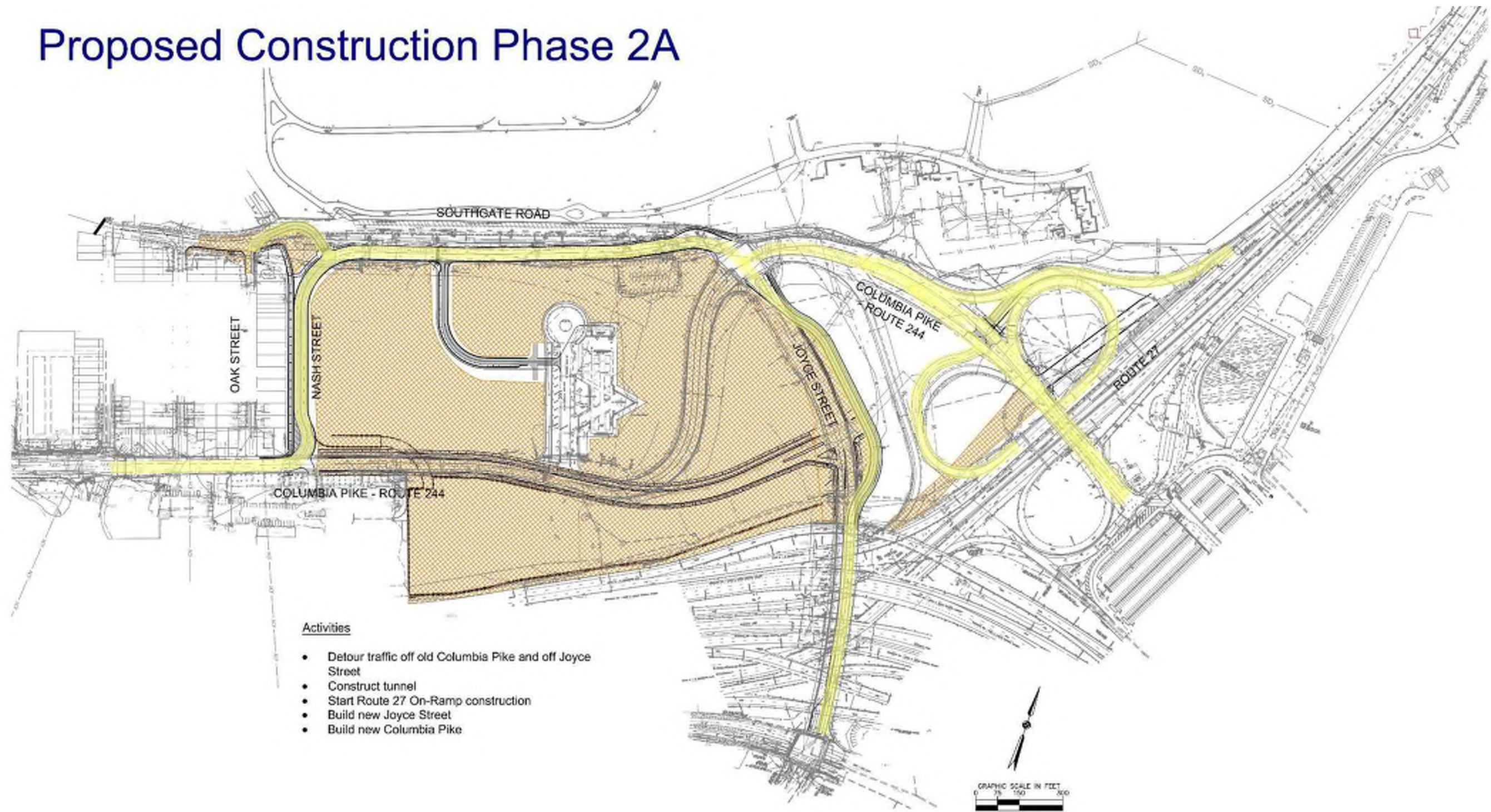
DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 1B



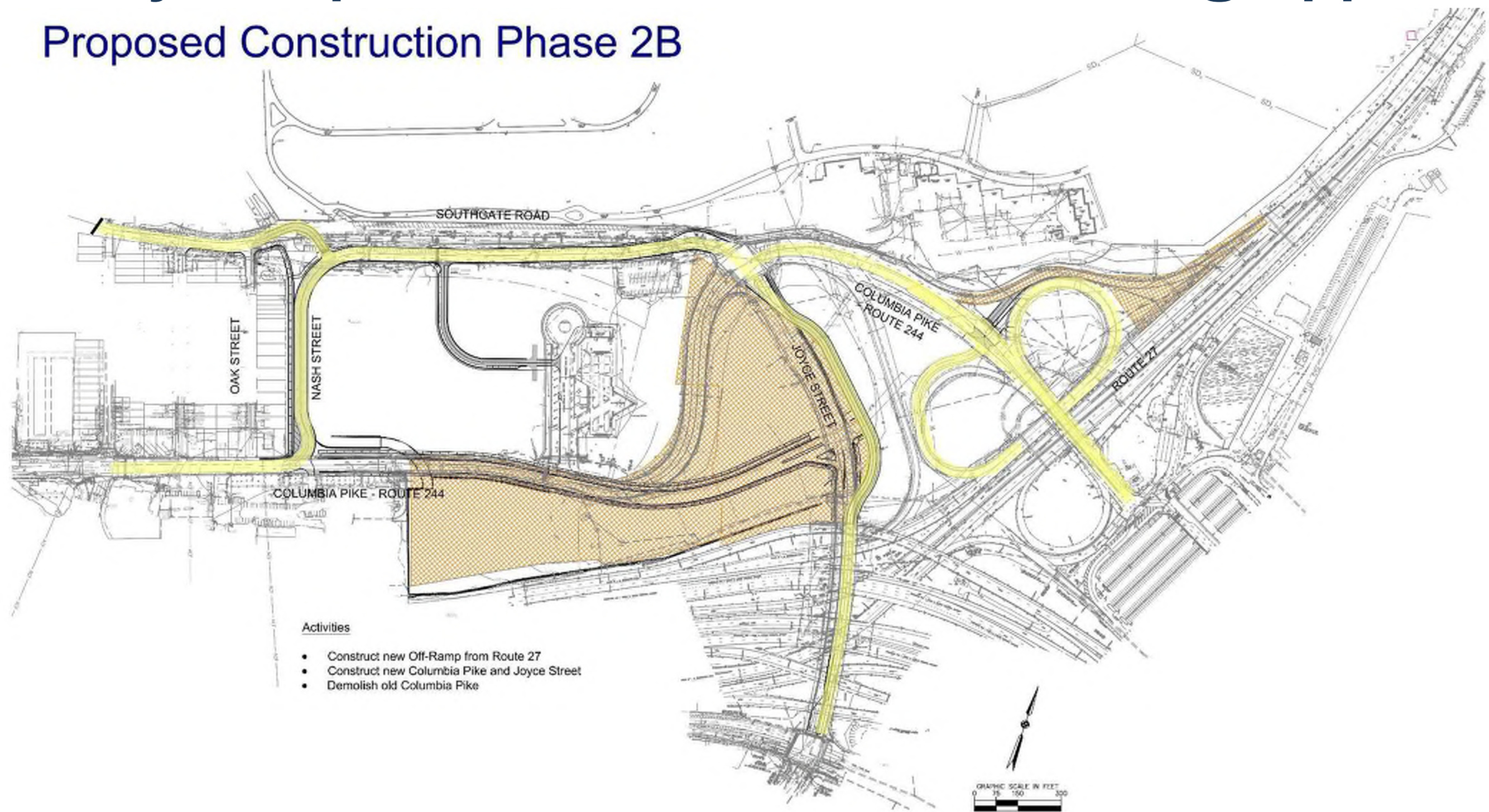
DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 2A



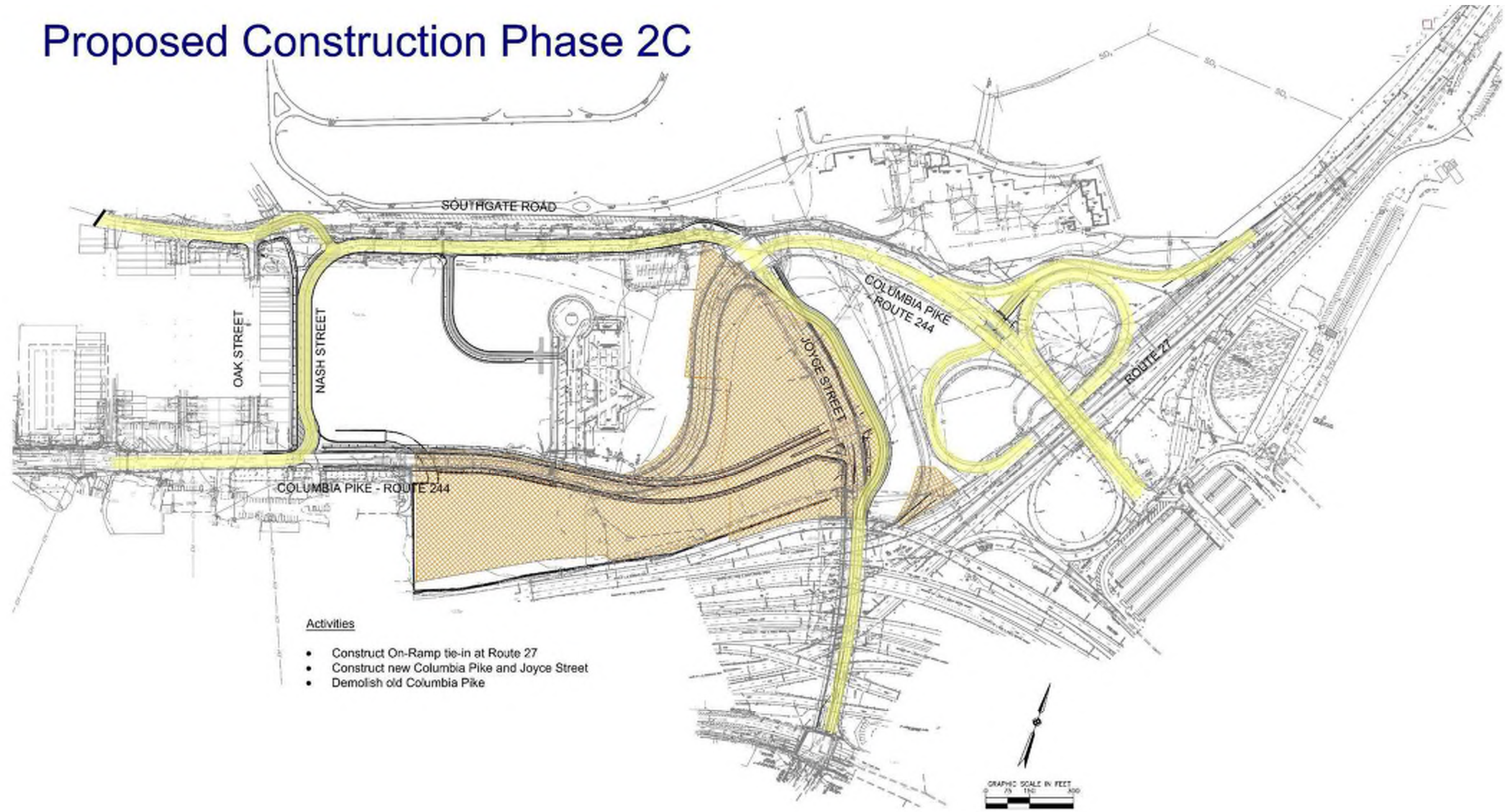
DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 2B



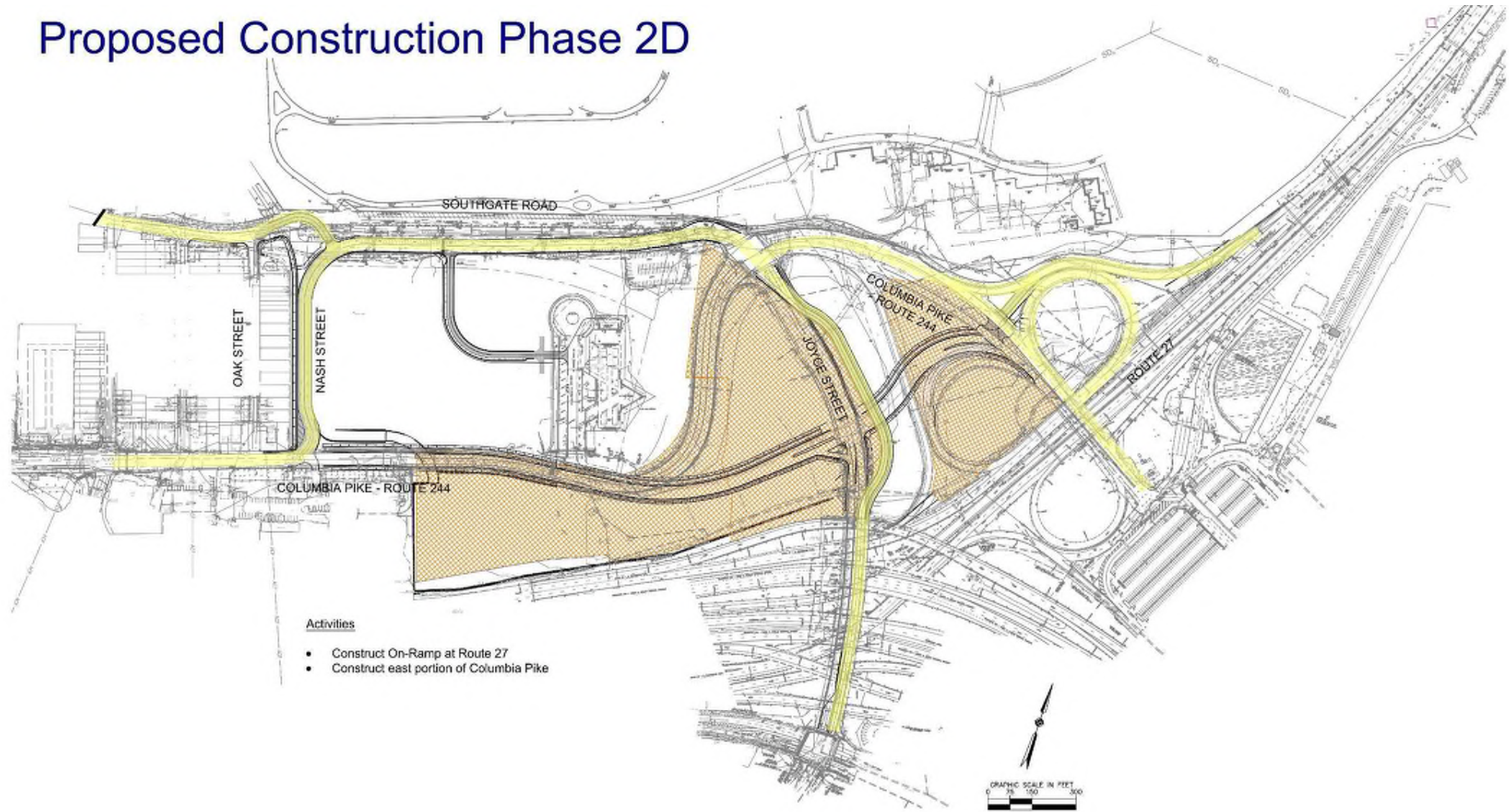
DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 2C



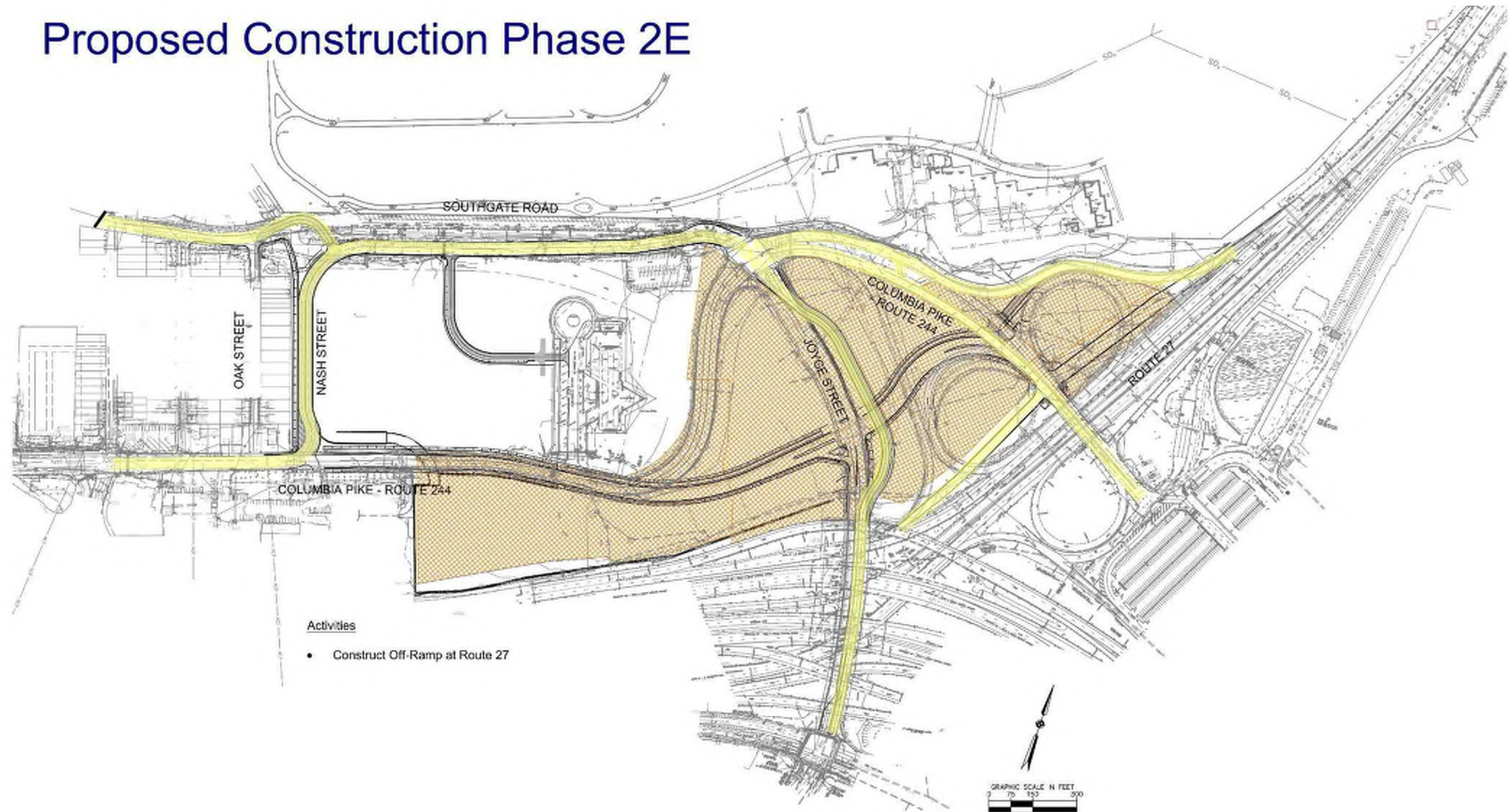
DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 2D



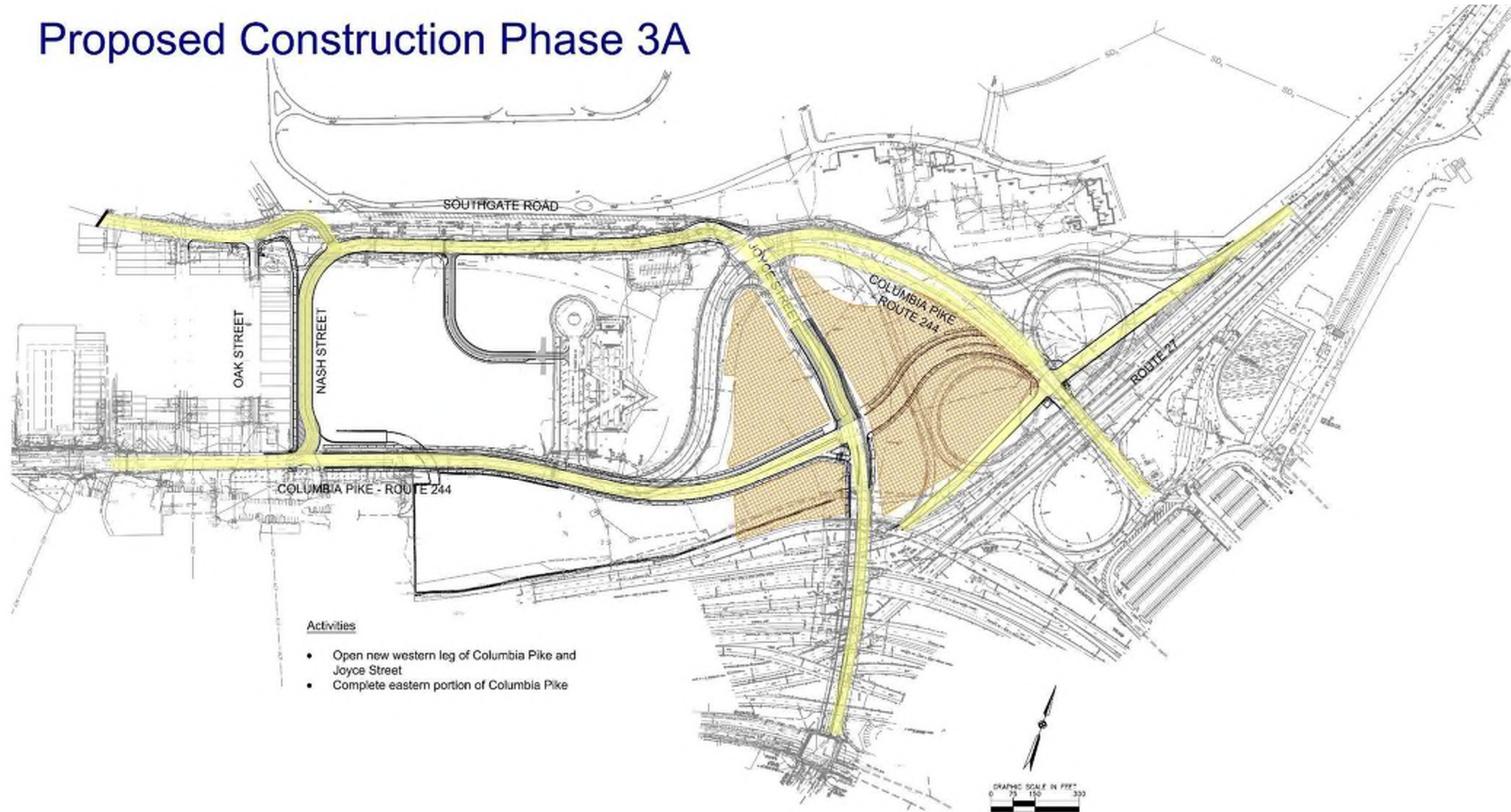
DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 2E



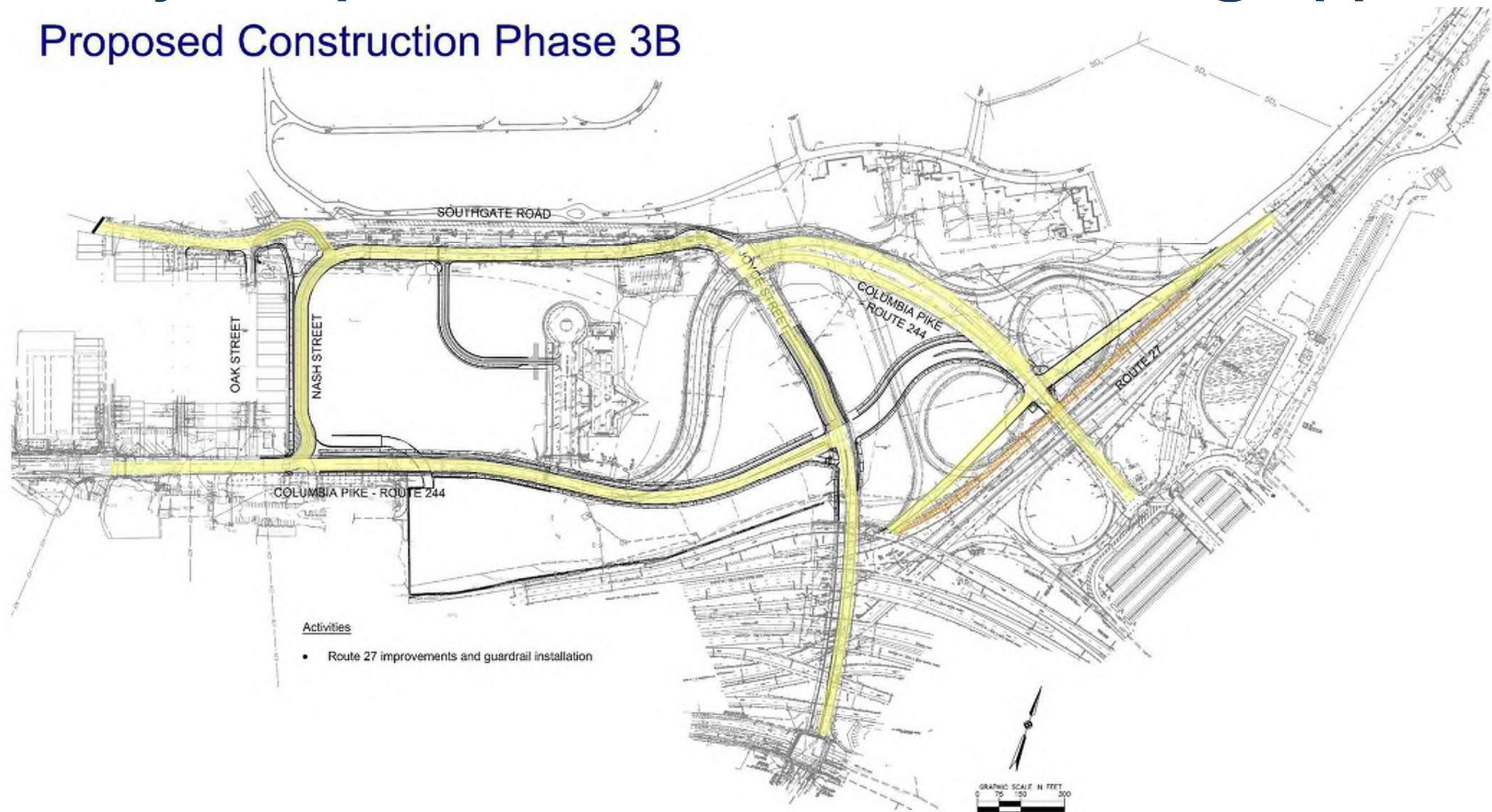
DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 3A



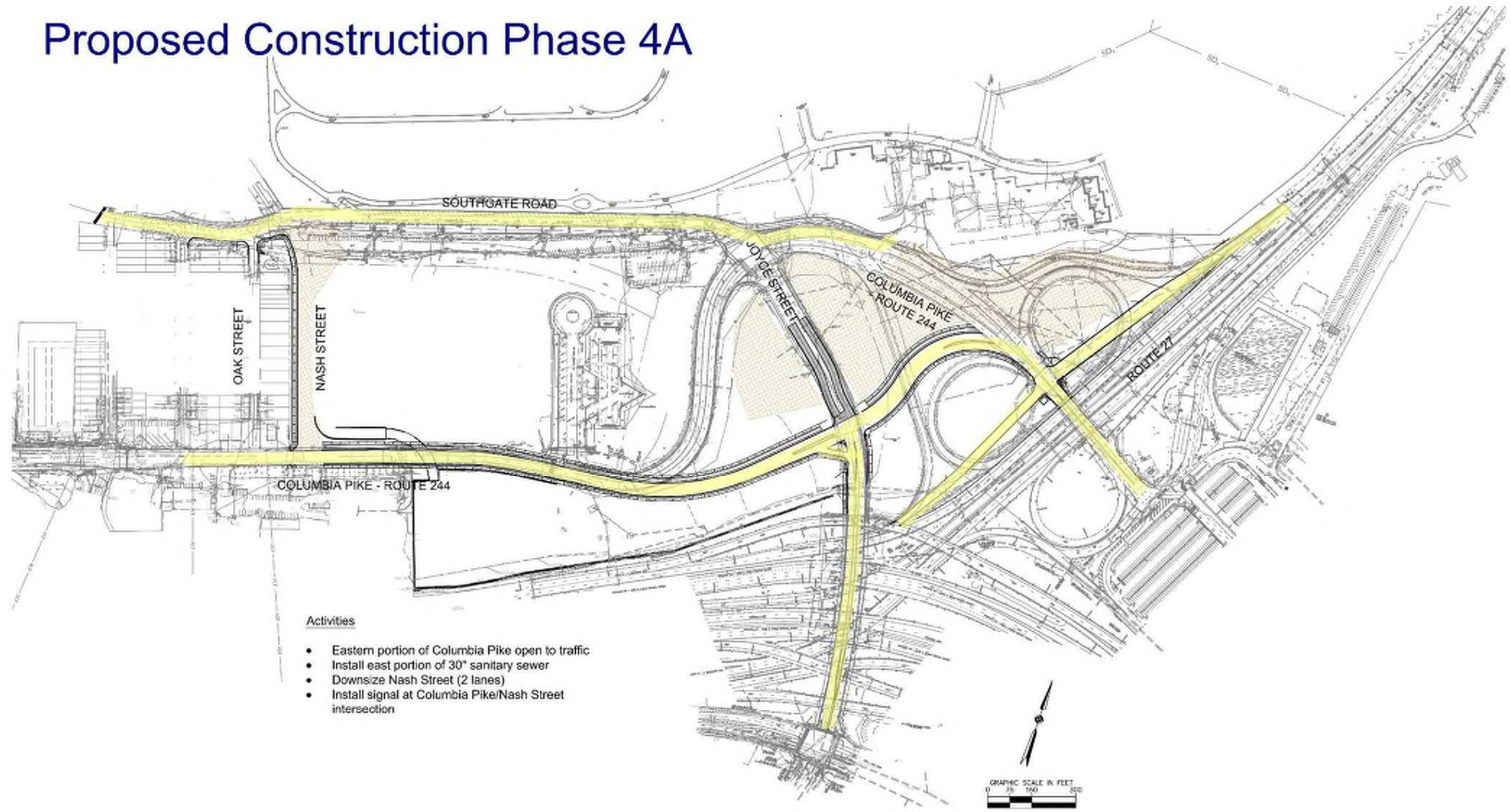
DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 3B



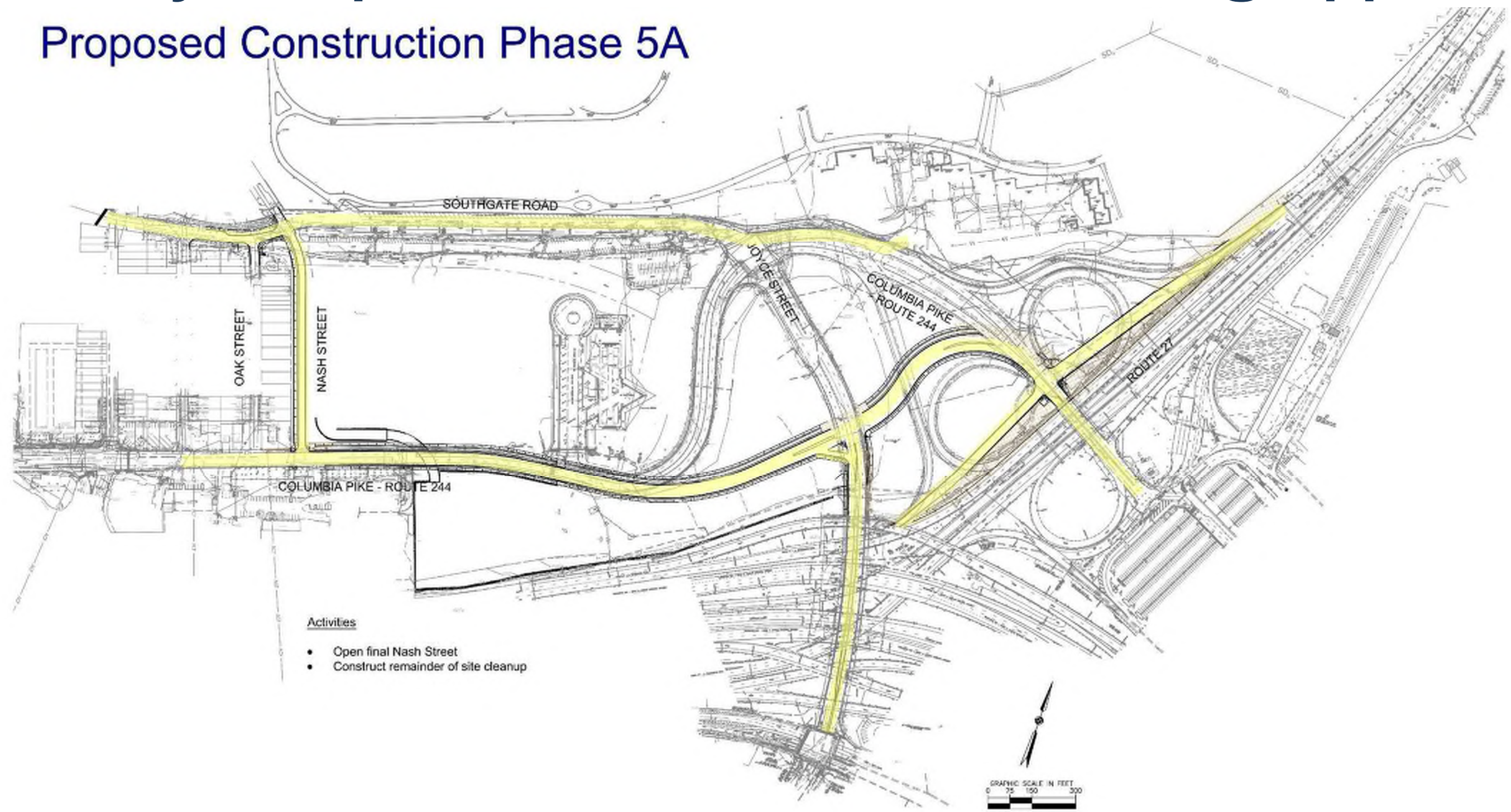
DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 4A

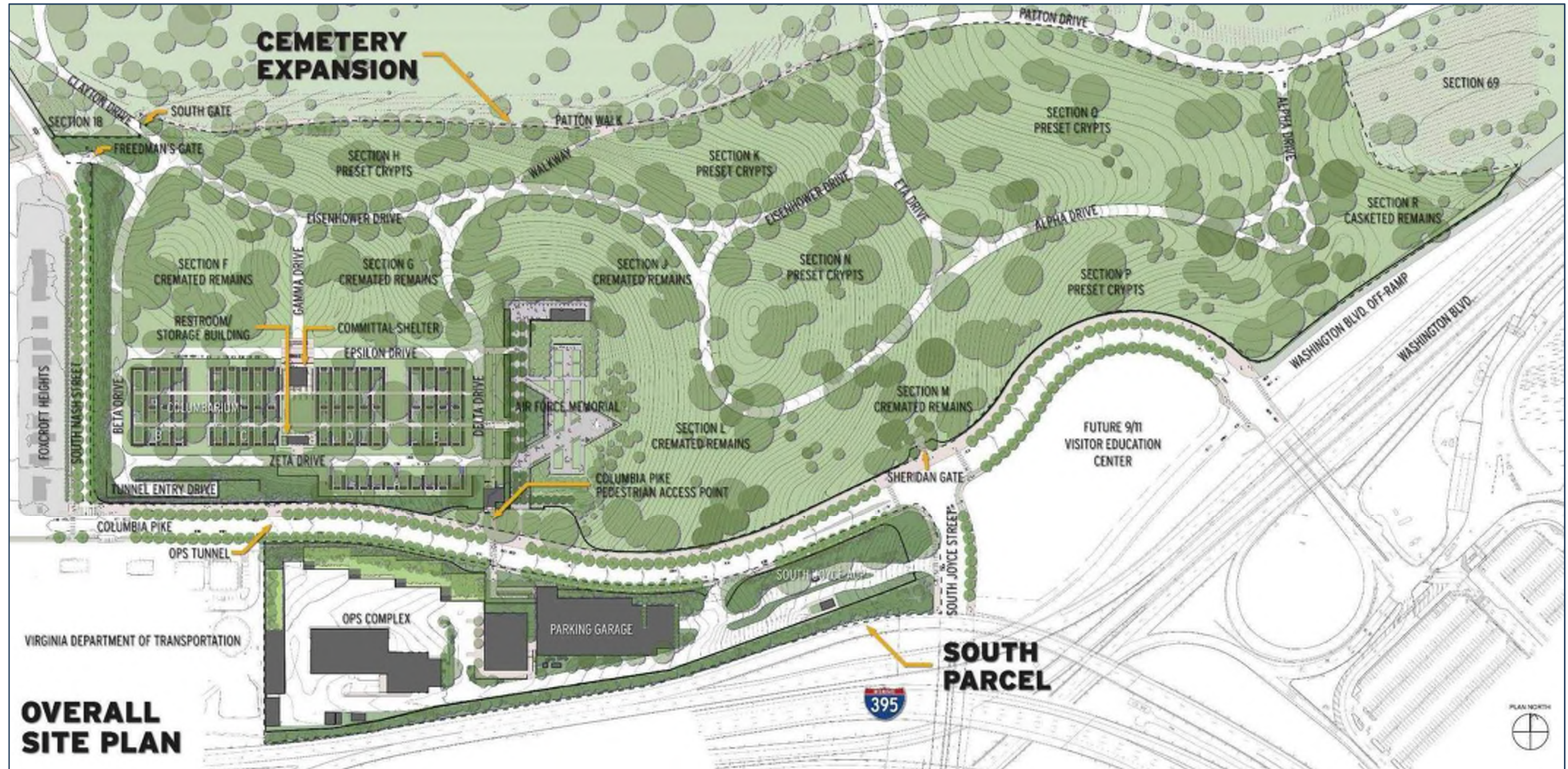


DAR Project Update – Construction Phasing Approach

Proposed Construction Phase 5A



ANCSE & DAR Project Vision



Major Milestones

Defense Access Road Design

- 40% Plans..... Completed
- 75% Plans..... Completed
- 95% Plans..... Late 2020
- Final Plans.....Early 2021

Arlington National Cemetery Southern Expansion Design

- 35% Plans..... Completed
- 65% Plans..... Completed
- 95% Plans..... Mid 2021
- Final Plans..... Late 2021

Anticipated Project Construction Start

- Defense Access Road Construction Start..... Mid 2021
- ANCSE Construction Start..... 2022





Kimley»Horn

Expect More. Experience Better.

THANK YOU

Questions?