



AMAZON TRANSPORTATION PROJECT UPDATE

Commonwealth Transportation Board

December 7, 2021 Robert H. Cary, PE, LS – Chief Deputy Commissioner



Amazon Transportation Project Update

Route 1 Multimodal Improvements Feasibility Study

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Project Locations



Route 1 Multimodal Improvements Feasibility Study

- Agreement between the Commonwealth of Virginia and Amazon includes a transportation project for Route 1 in National Landing to “improve safety, accessibility, and the pedestrian experience crossing Route 1...”
- Feasibility study aims to provide sufficient information to make the best decision on a future project on Route 1 to meet transportation needs with the coming of Amazon and other related development
- The study examines converting Route 1 to an at-grade or elevated urban boulevard or improving the existing elevated roadway from 12th St. to 23rd St. South



Concept Planning Study Area

Route 1 Multimodal Improvements

Feasibility Study

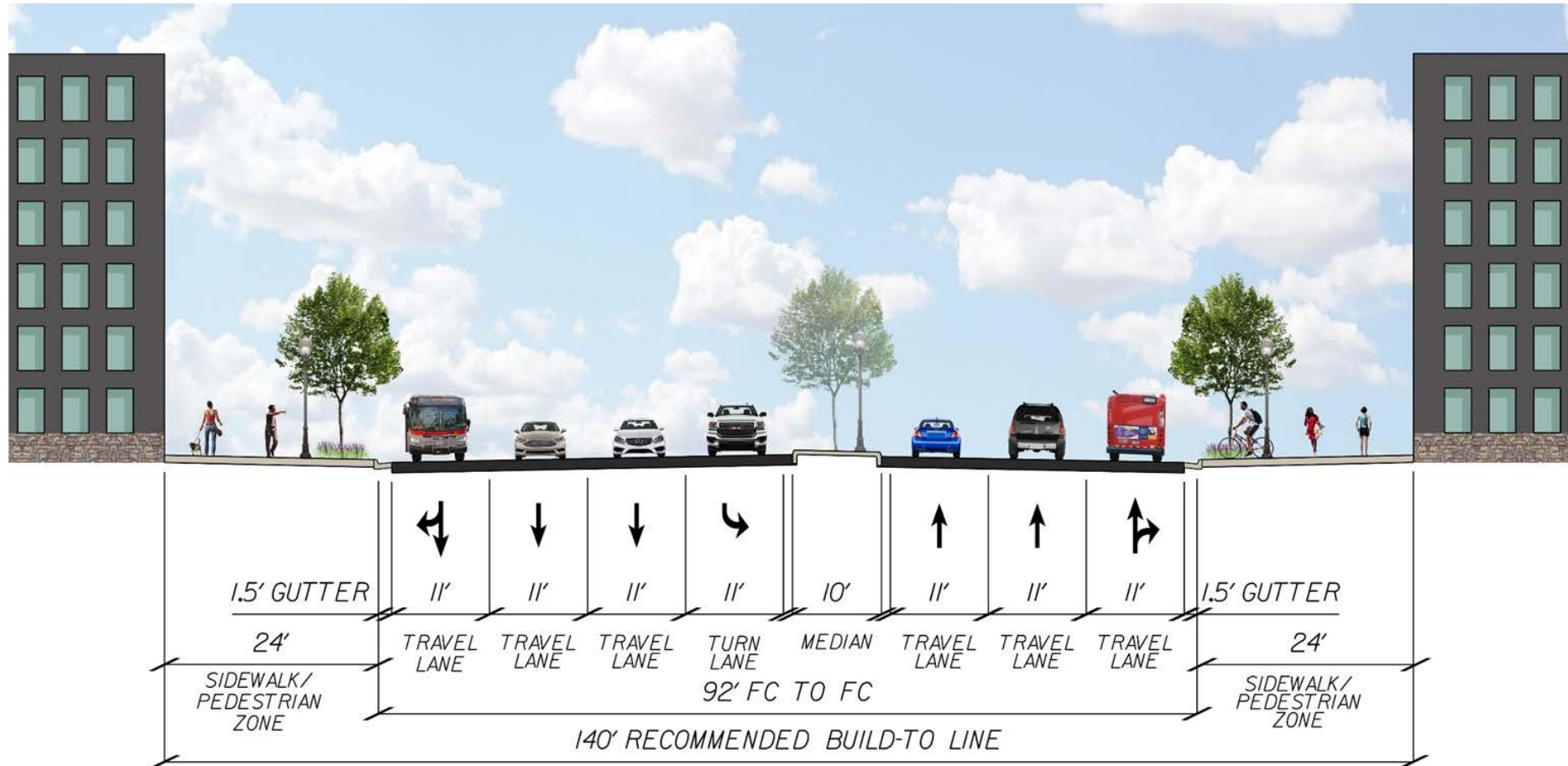
Phase 1 of the study recommends an at-grade configuration with future multimodal transfer station, pedestrian facilities, and bicycle facilities

- Most desirable characteristics for multimodal vision at National Landing
- Needs Travel Demand Management (TDM) strategy to reduce future traffic volumes by 20% to 30% below 2019
- Further study for separate pedestrian grade crossing at 18th Street
- Estimated Cost ⇒ \$180 million



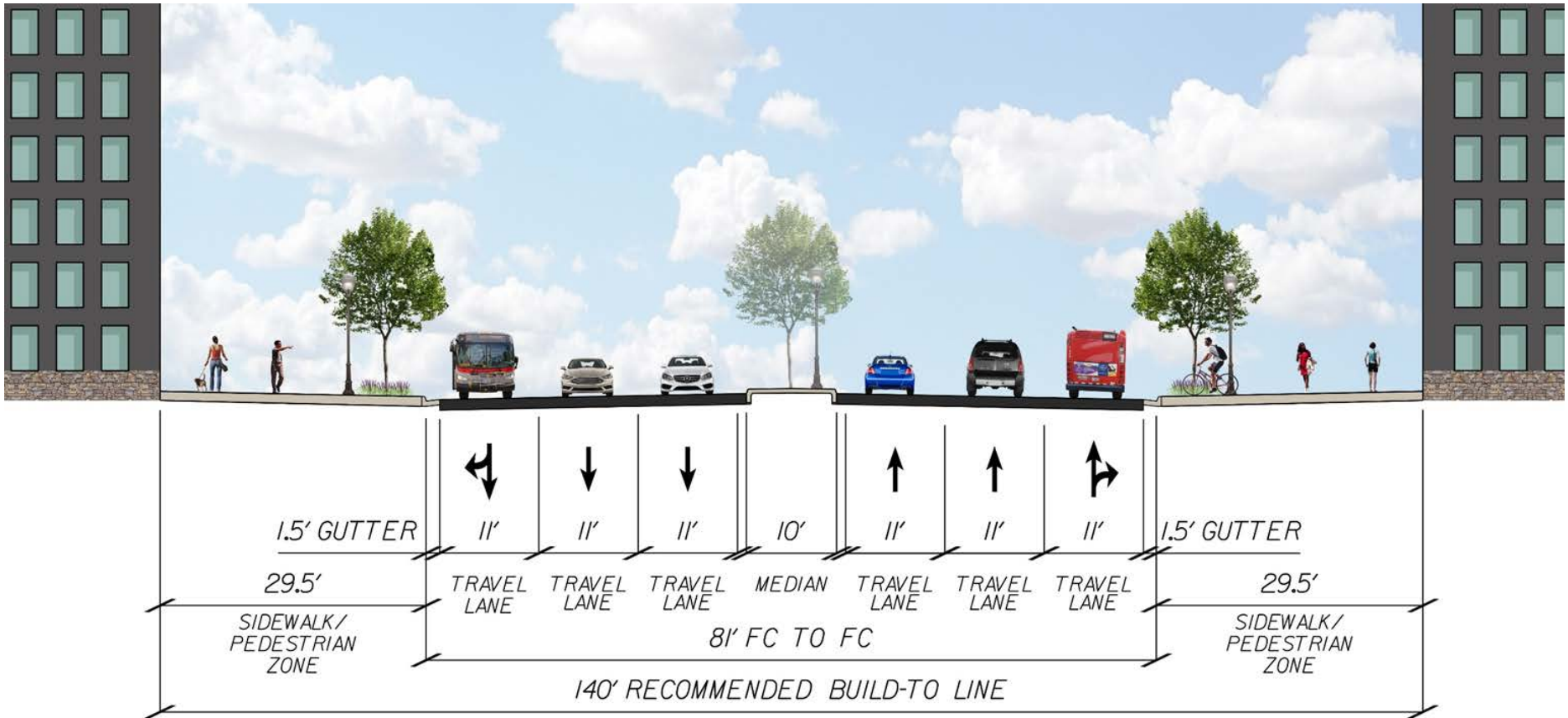
At-Grade Concept 1 at 15th and 20th Street

All turns permitted – Seven lane pedestrian crossing
34% space allocated to pedestrians

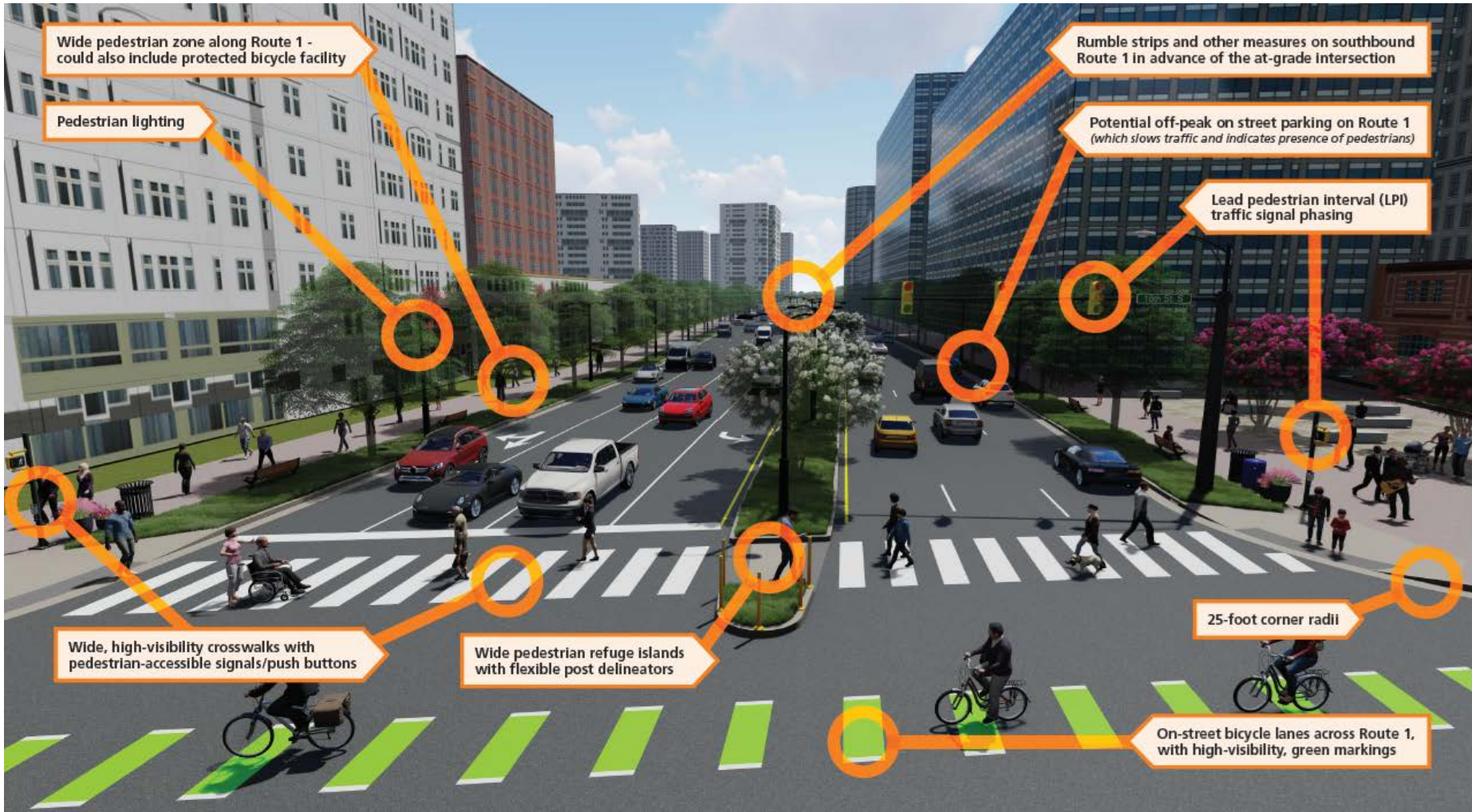


At-Grade Concept 2 at 18th Street Intersection

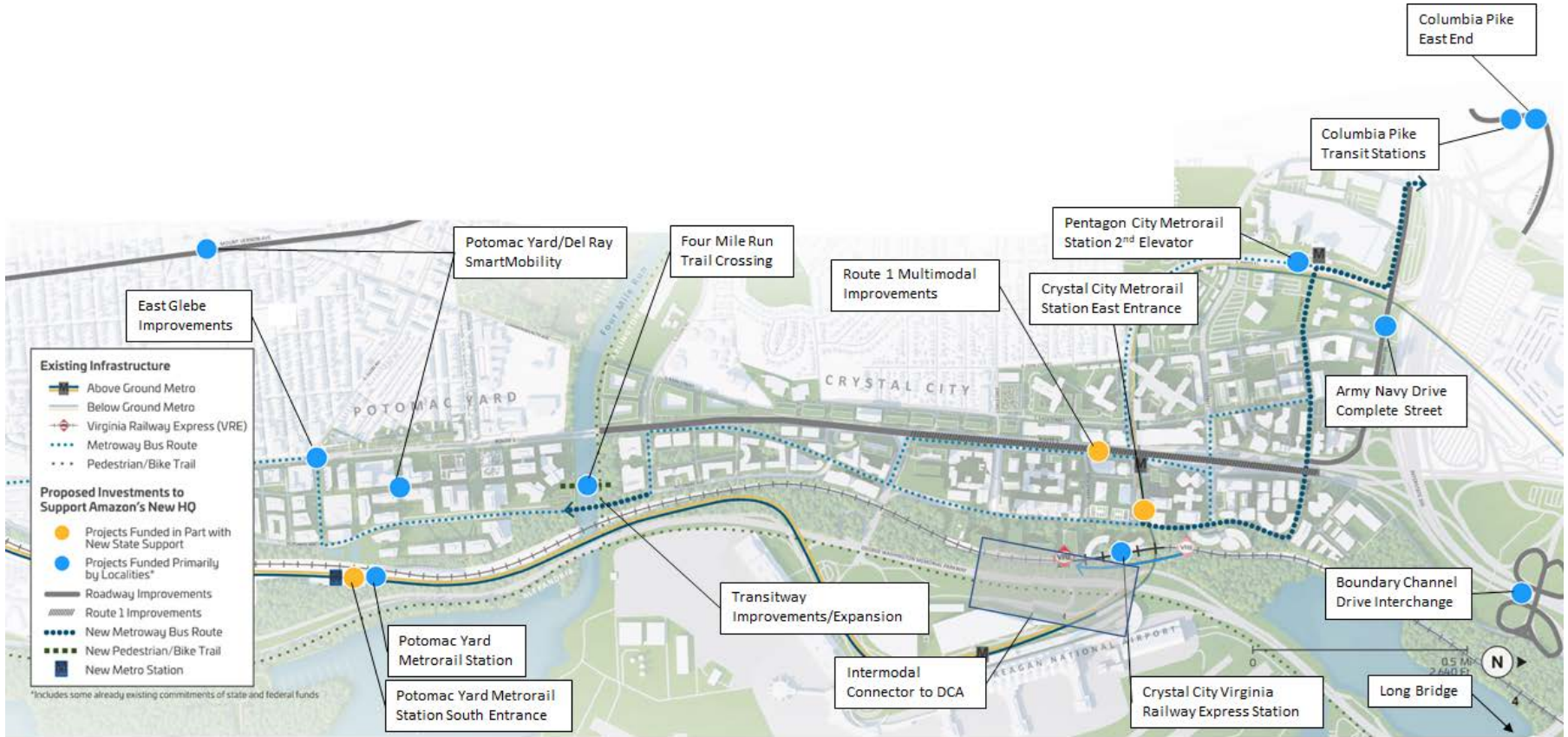
No left turns from Route 1 – Six lane pedestrian crossing
42% space allocated to pedestrians



Intersection Safety



Potential Travel Demand Management Targets



Potential Travel Demand Management Targets

Potential Targets for Shift to Transit

- Through trips (60%) given the significant transit investments in Crystal City/Pentagon City
- Large number vehicle trips originating in Pentagon City (36%) that are destined for Washington, DC
- Vehicular trips starting in Pentagon City that are destined for the Rosslyn/Ballston Corridor (8%)
- Significant local, regional and state investment for road and transit in the Crystal City area
- Ongoing development is less focused on accommodations for vehicles such as parking

Potential Targets for Shift to Bike/Walk

- Vehicular trips starting in Pentagon City and using 15th St. and still ending in the Pentagon City/Crystal City area (14%)

Next Steps

- October: Final Report was Issued
- Nov-Dec 21: Initiate Phase 2 Study including:
 - Post-COVID traffic counts/update traffic analysis
 - Feasibility of grade-separated overpass/underpass at 18th St.
 - Expand intersection analysis
 - 5% plan development
 - TDM Strategy Development
 - Engineering speed study for 25 mph \Rightarrow Vision Zero
 - Interim improvements at 23rd St. \Rightarrow Vision Zero
 - Identify location for relocated 18th St. bus stops
 - Coordination with transit providers



Questions?

