

DC CLEAN RIVERS PROJECT POTOMAC RIVER TUNNEL

***Briefing Presentation For:
Commission of Fine Arts***

April 21, 2022



Agenda

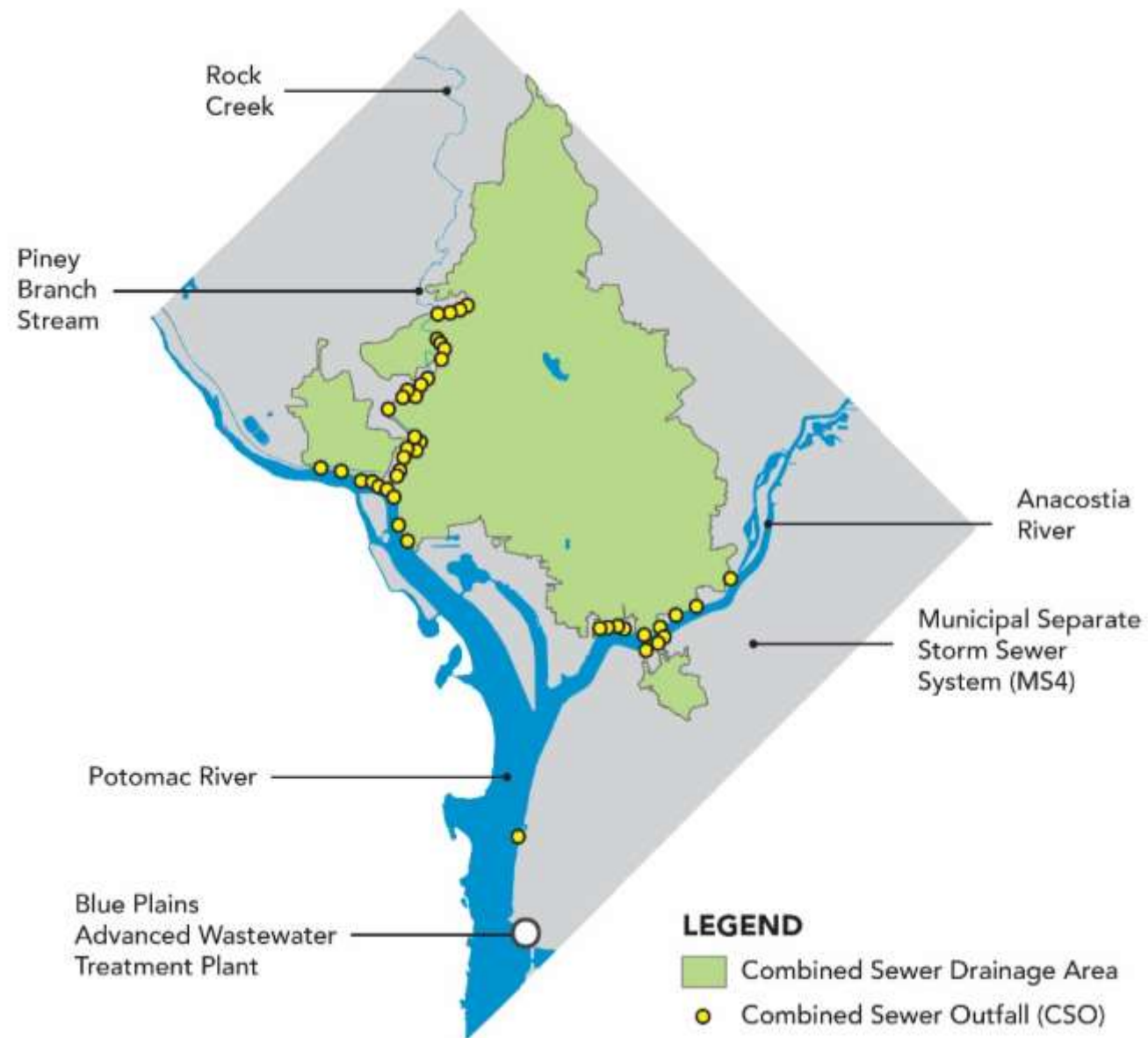
- DC Clean Rivers Background
- Potomac River Tunnel Project
- Existing and Post-Construction Renderings





DC CLEAN RIVERS BACKGROUND

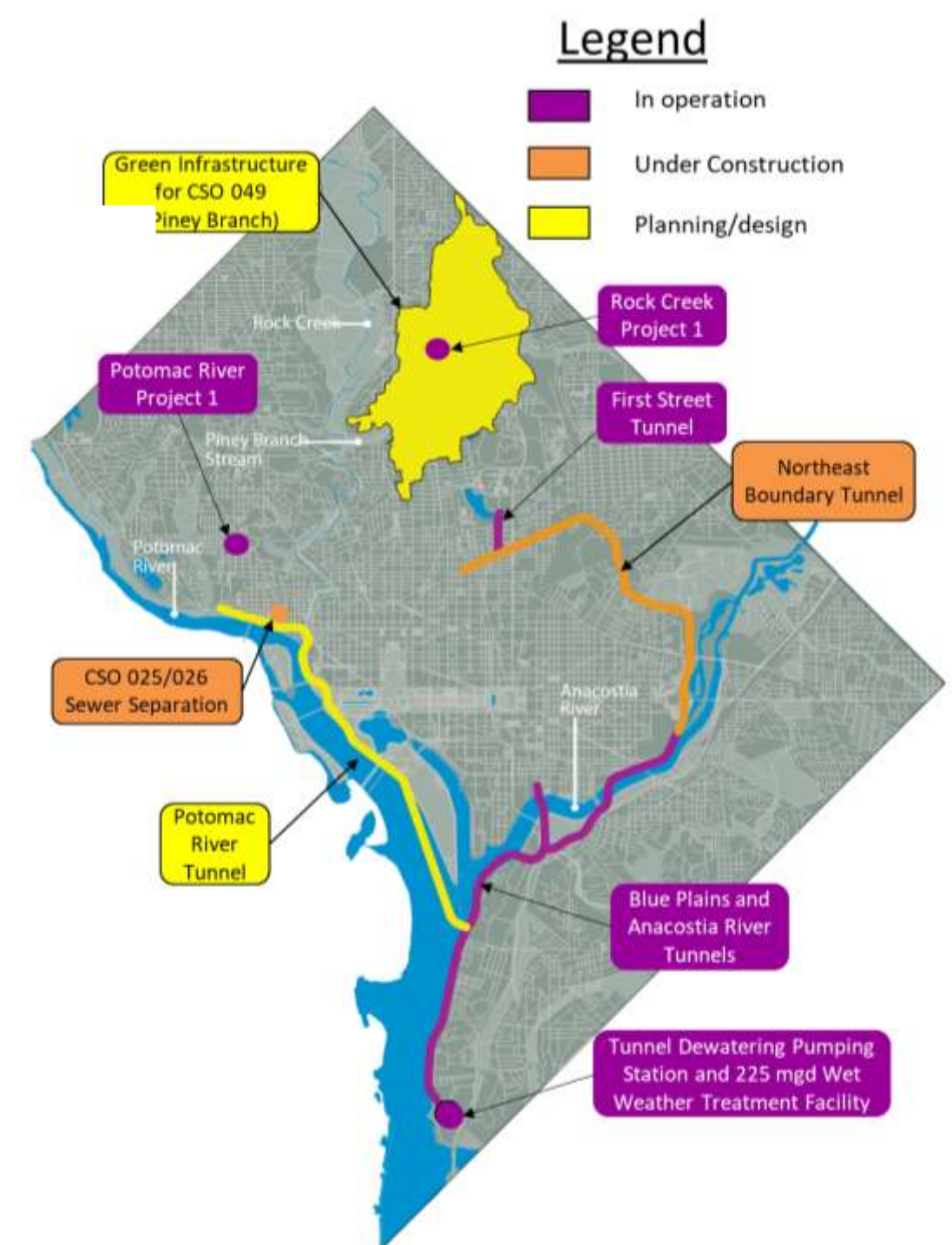
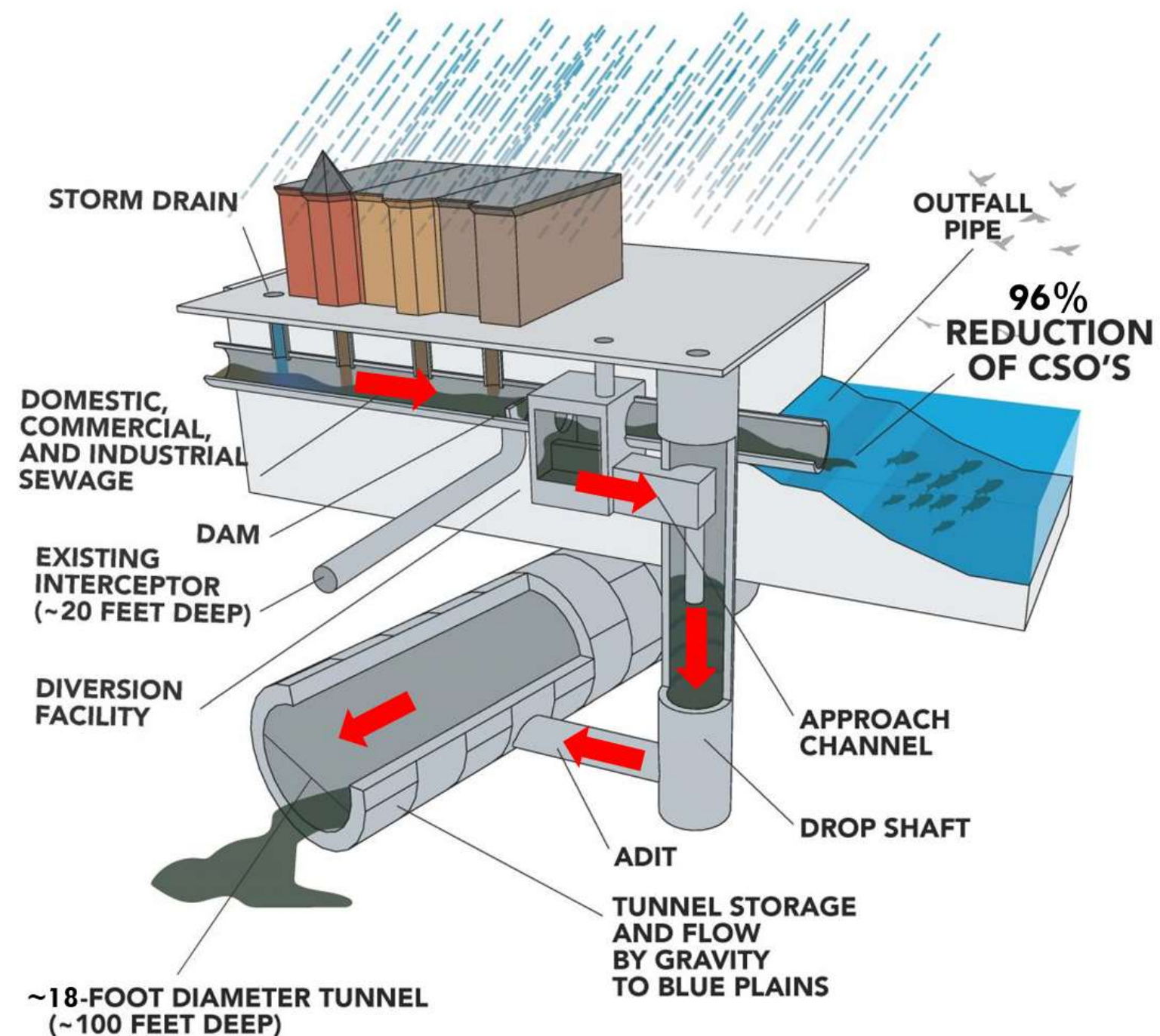
Combined Sewer System in the District



- Combined Sewer Overflows (CSOs) **discharge mixture of sewage and stormwater** water during rain events to prevent flooding
- CSO volume to Potomac River = more than **1 billion gallons** /average year rainfall
- CSO contains **pollution and trash** that adversely affects water quality
- Clean Rivers Project **required by Federal Consent Decree** to controls CSOs by 2030



Clean Rivers Project



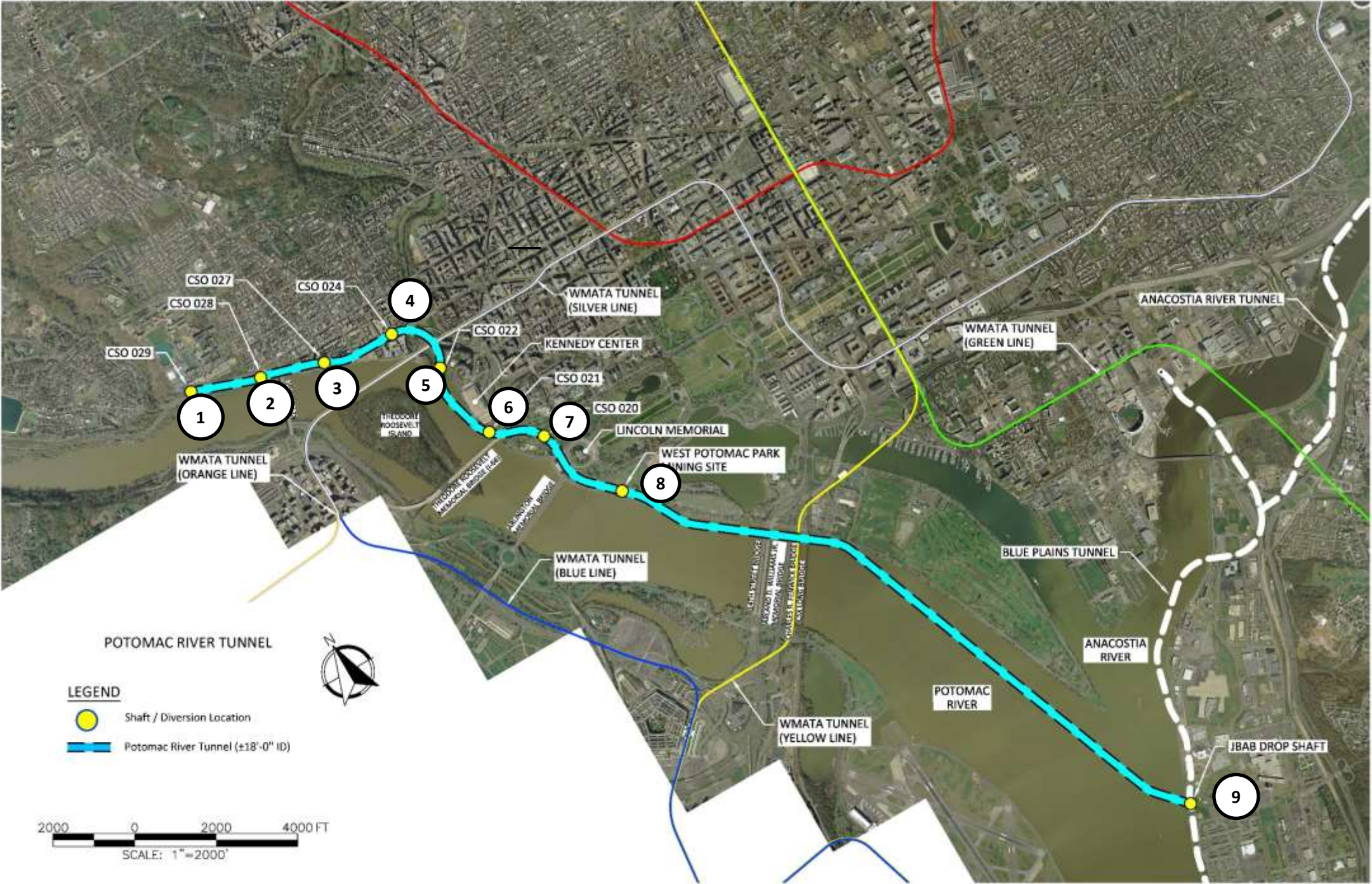
Anacostia River Tunnel

- In service March 20, 2018
- Captured 12.8 billion gallons of CSO and 8,019 tons of trash and debris

POTOMAC RIVER TUNNEL PROJECT

Potomac River Tunnel Project

Components	
1	CSO 029 Control*
2	CSO 028 Control
3	CSO 027 Control
4	CSO 024 Control
5	CSO 022 Control
6	CSO 021 Control
7	CSO 020 Control
8	Tunnel Mining and Emergency Overflow Structure Site
9	Tunnel Connection at Joint Base Anacostia-Bolling



*CSO 029 Submitted Separately

Design Approach

- Majority of facilities (>95%) **below grade**
- At and above grade facilities:
 - At grade: access openings (e.g. manholes, removable slabs)
 - Above grade:
 - Electrical equipment necessary for monitoring per EPA requirement
 - Ventilation vaults designed to be above future floodplain elevations to address climate change
- Multiple planning meetings with NPS, CFA, NCPC, DCSHPO, and OGB to arrive at attached layouts to minimize impacts



Existing and Post-Construction Renderings

CSO 028 – Renderings – Plan View



Existing



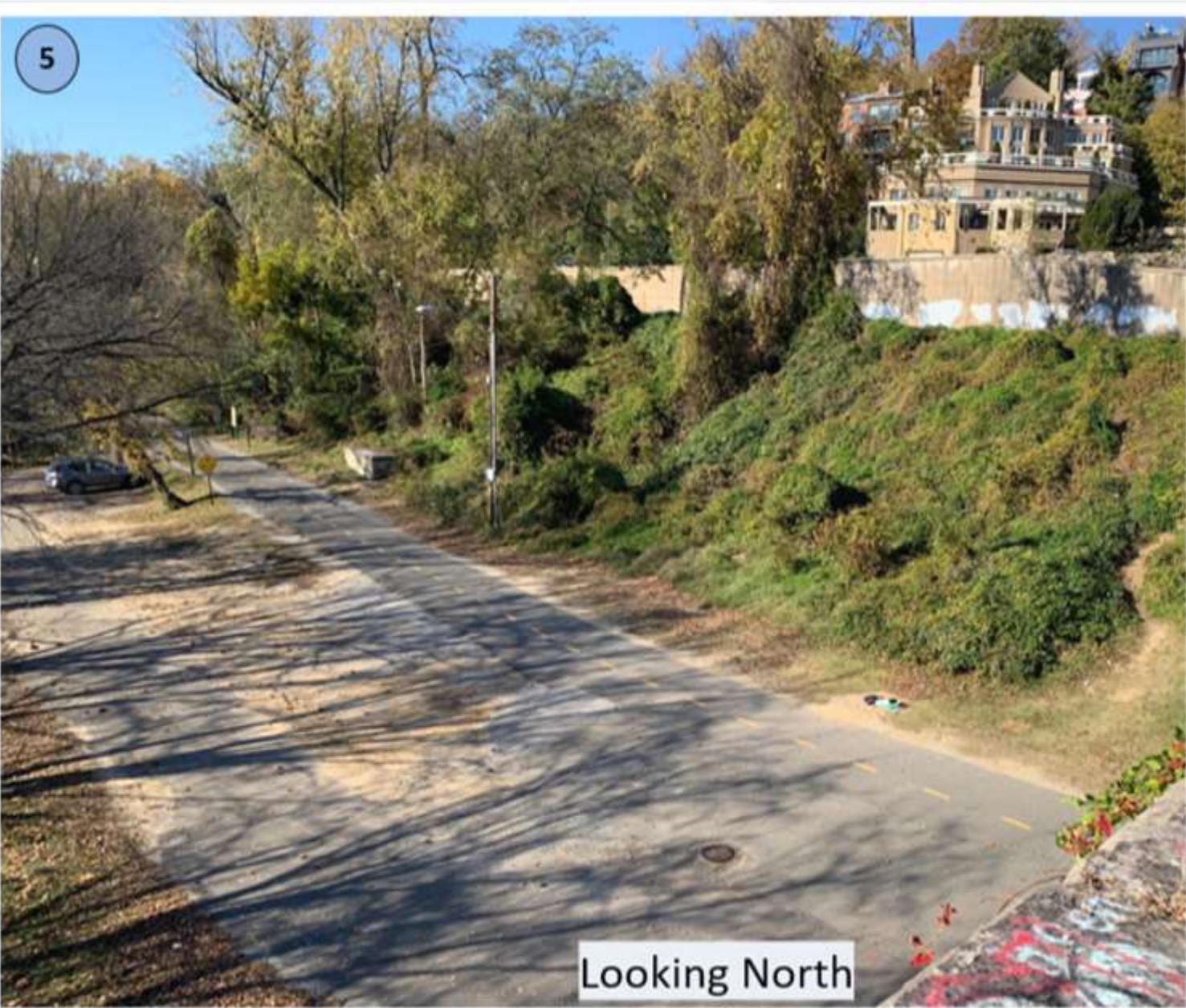
Proposed



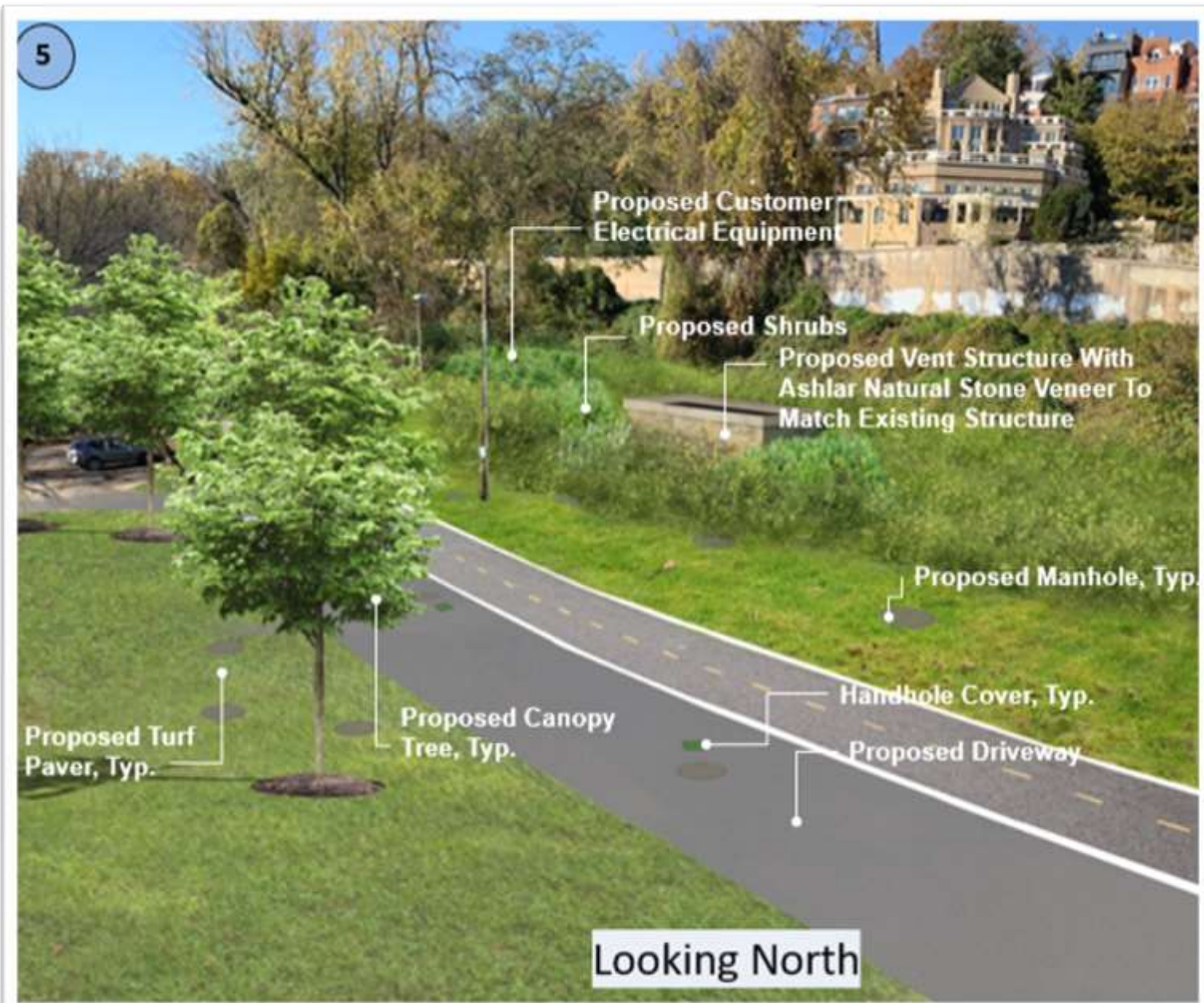
CSO 028 – Renderings



Existing



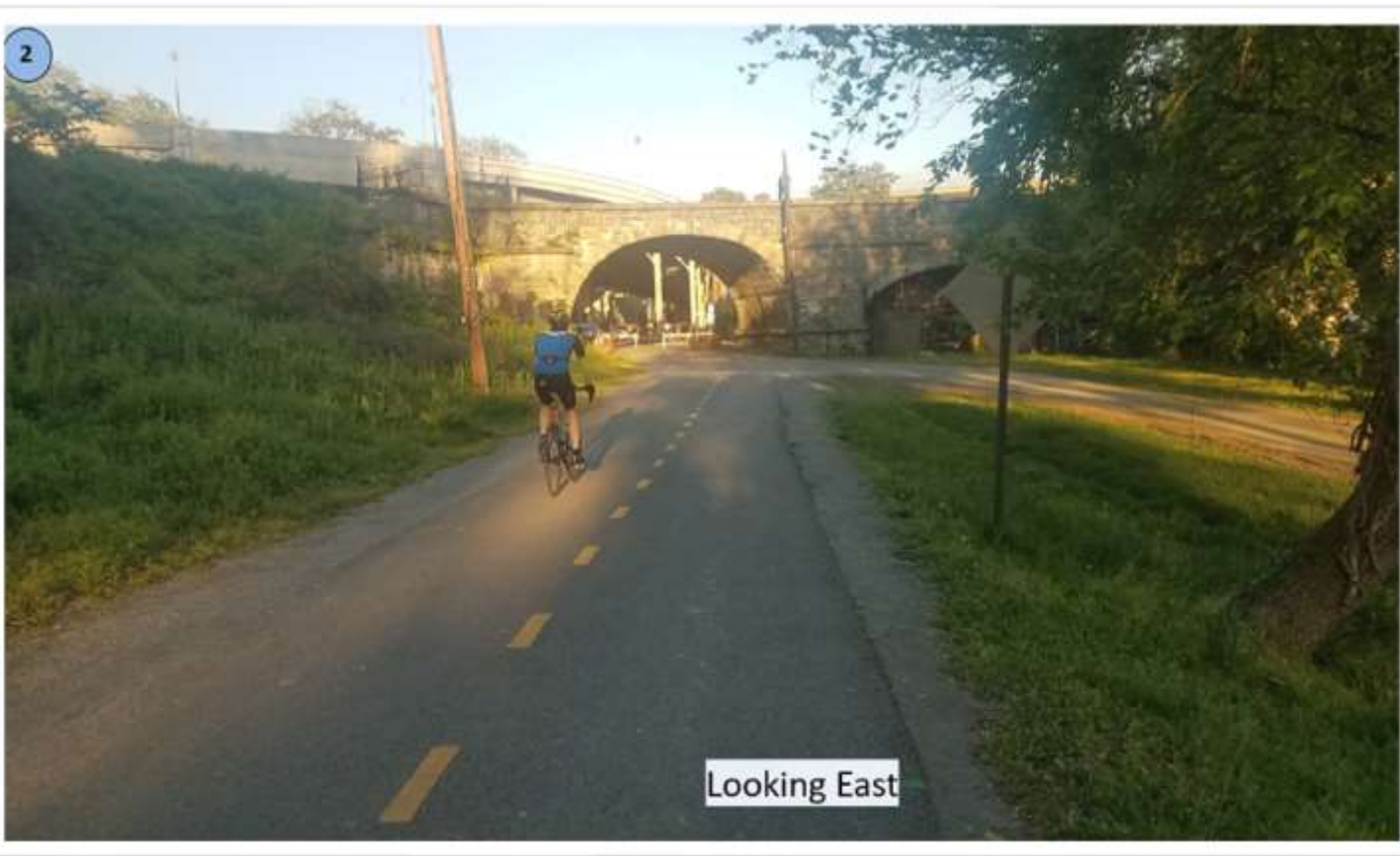
Proposed



CSO 028 – Renderings



Existing



Proposed



CSO 028 – Renderings



Existing

Proposed



CSO 027 – Renderings – Plan View



Existing



Proposed



CSO 027 – Renderings



Existing



Proposed



CSO 027 – Renderings



Existing



Proposed



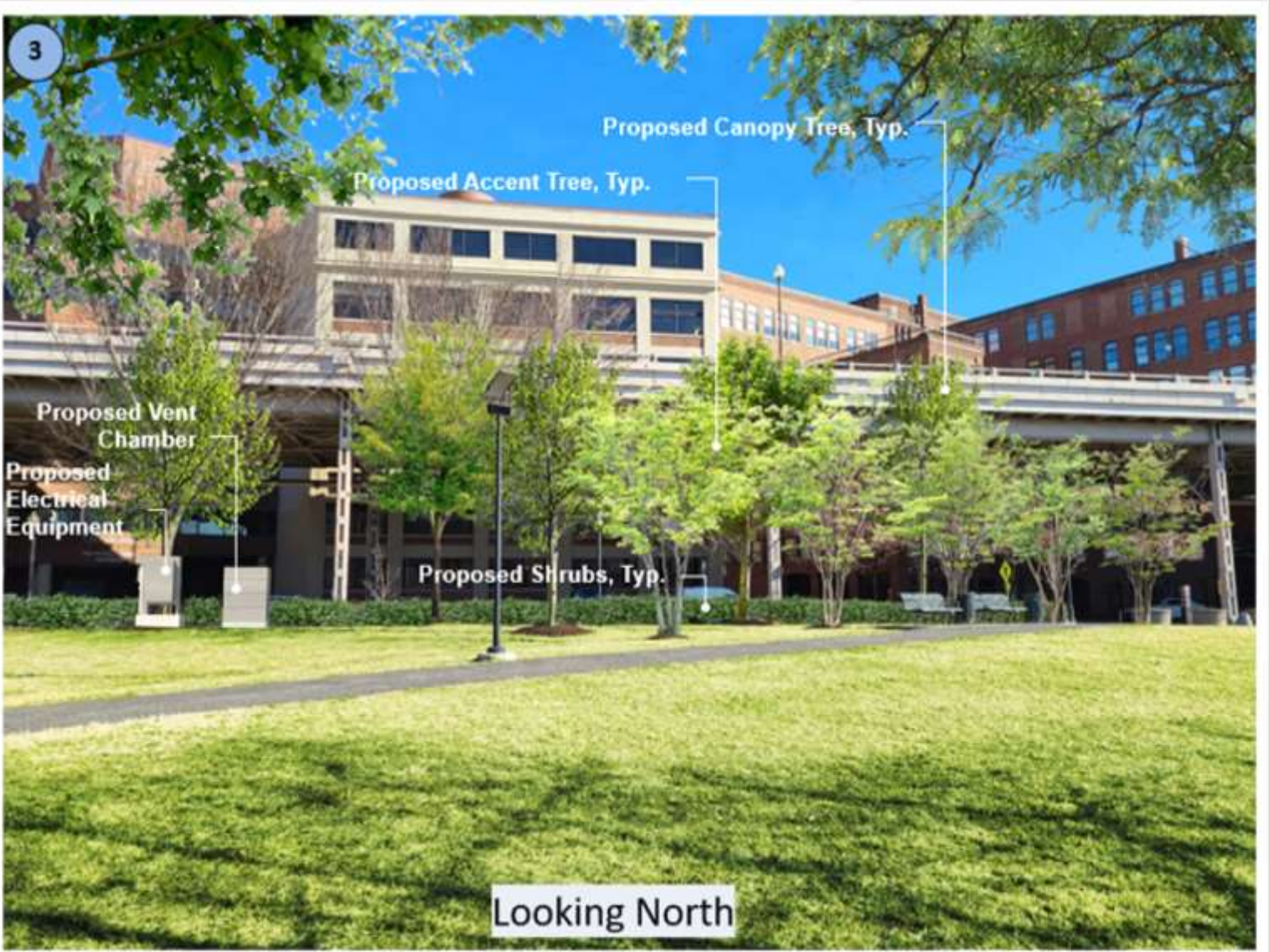
CSO 027 – Renderings



Existing



Proposed



CSO 027 – Renderings



Existing

Proposed



CSO 024 – Renderings – Plan View



Existing



Proposed



CSO 024 – Renderings



Existing

Proposed



CSO 024 – Renderings



Existing



Proposed



CSO 022 – Renderings



Existing



Proposed



CSO 022 – Renderings



Existing



Proposed



CSO 022 – Renderings



Existing

Proposed

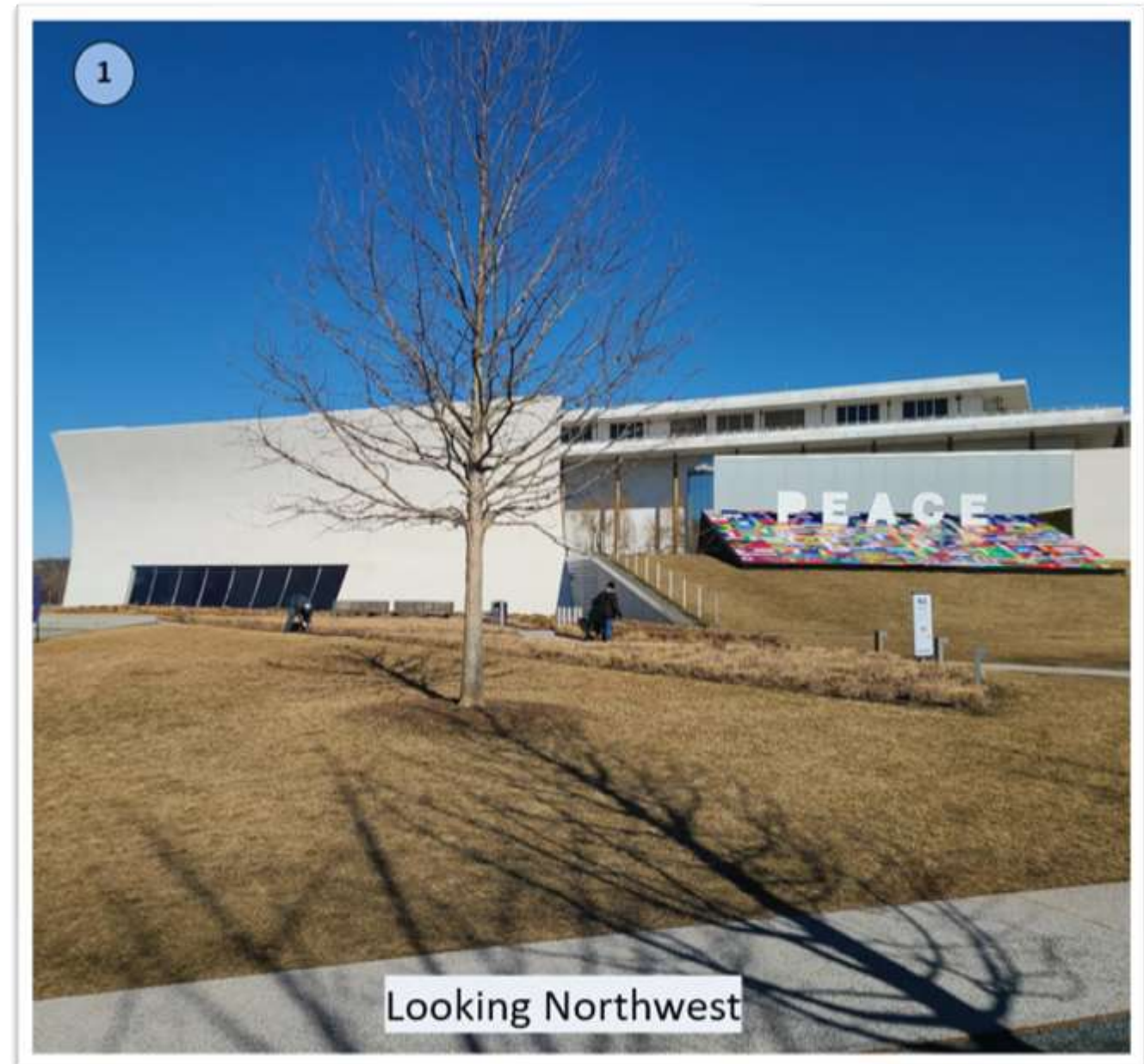


Key Plan

Proposed



CSO 021 – No New At or Above Grade Features



CSO 020 – Renderings – Plan View



Existing

Proposed



CSO 020 – Renderings



Existing

Proposed



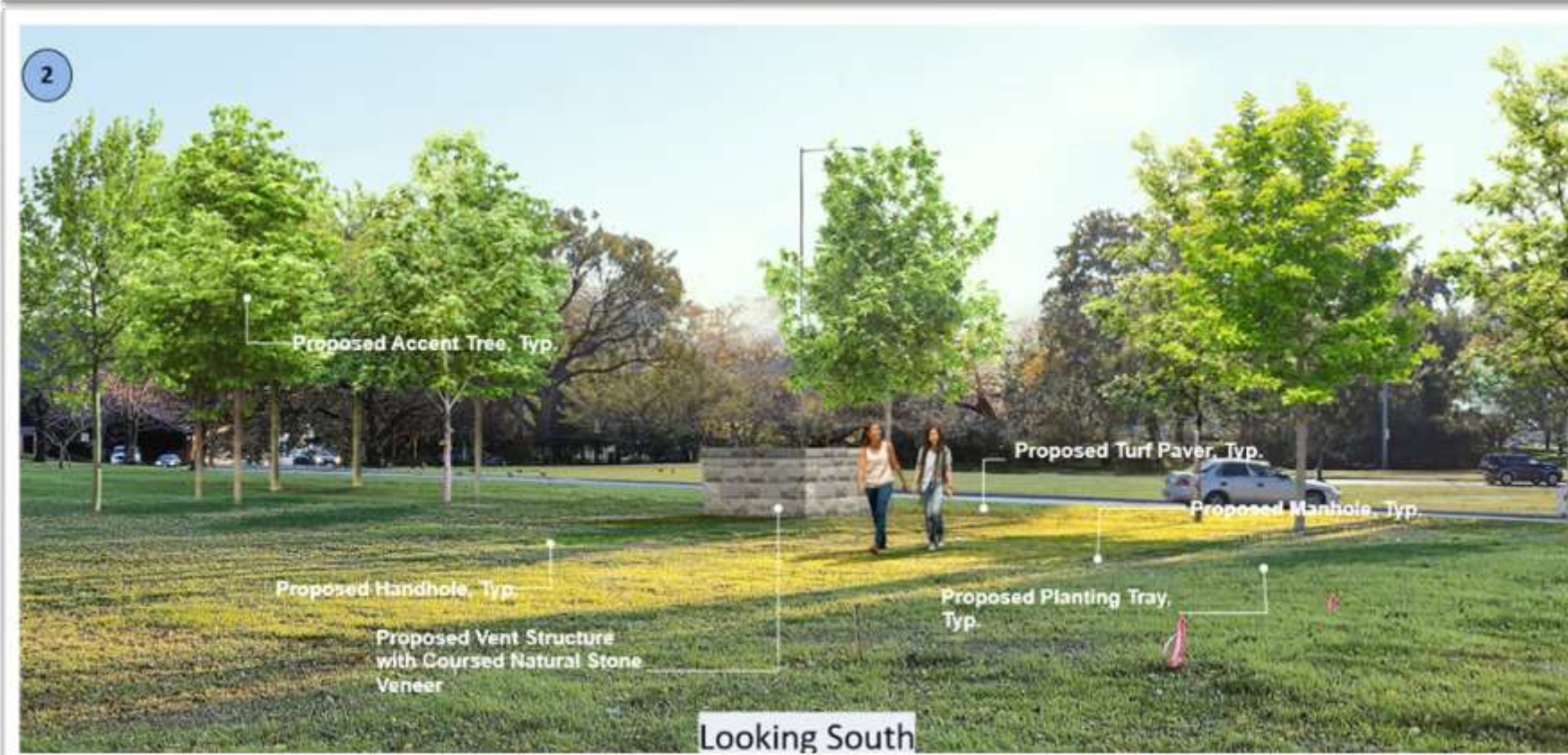
CSO 020 – Renderings



Existing



Proposed



CSO 020 – Renderings



Existing



Proposed



West Potomac Park – Renderings – Site Plan 1 View



Existing



Proposed



West Potomac Park – Renderings – Site Plan 2 View



Existing



Proposed



West Potomac Park – Renderings



Existing



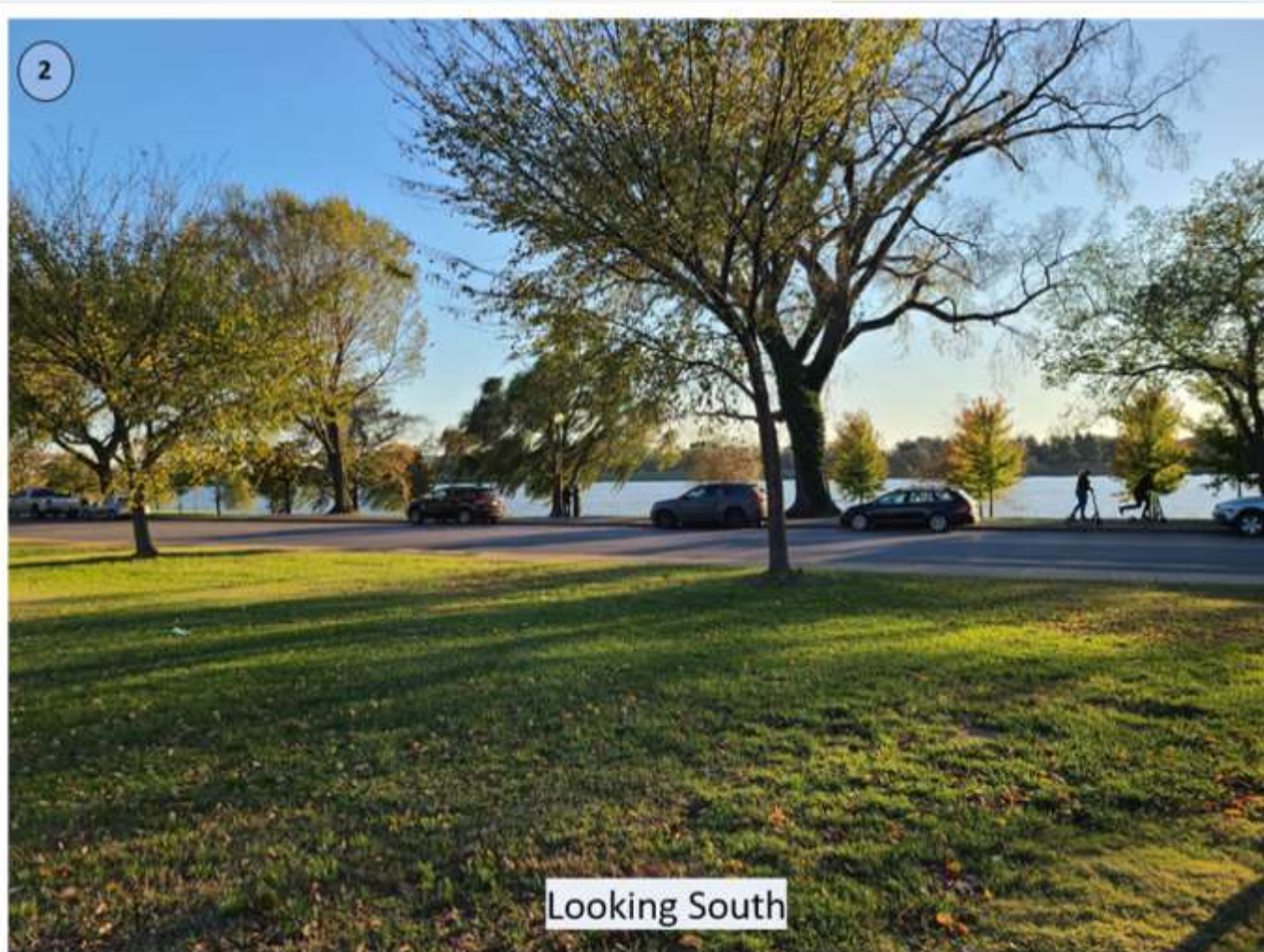
Proposed



West Potomac Park – Renderings



Existing



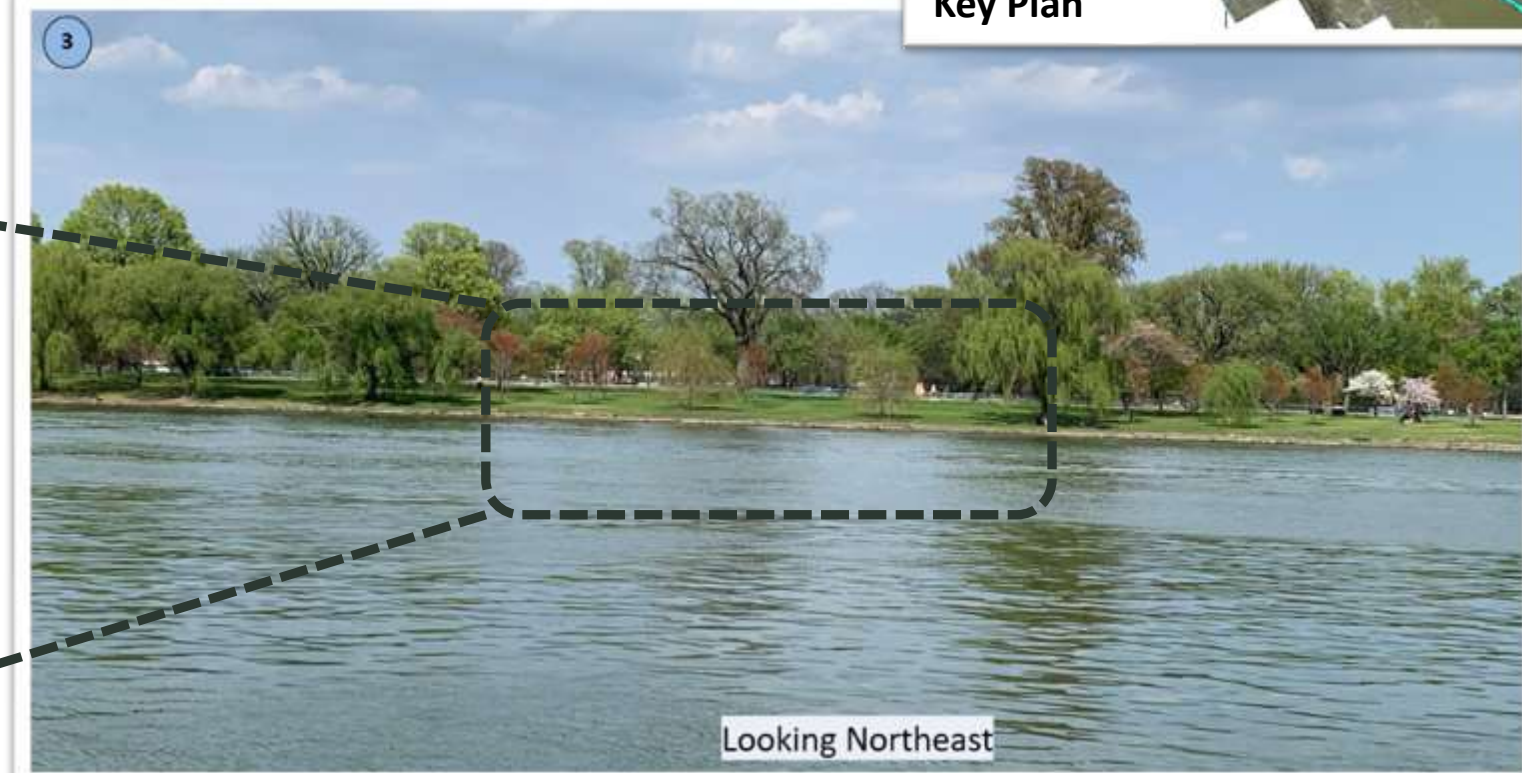
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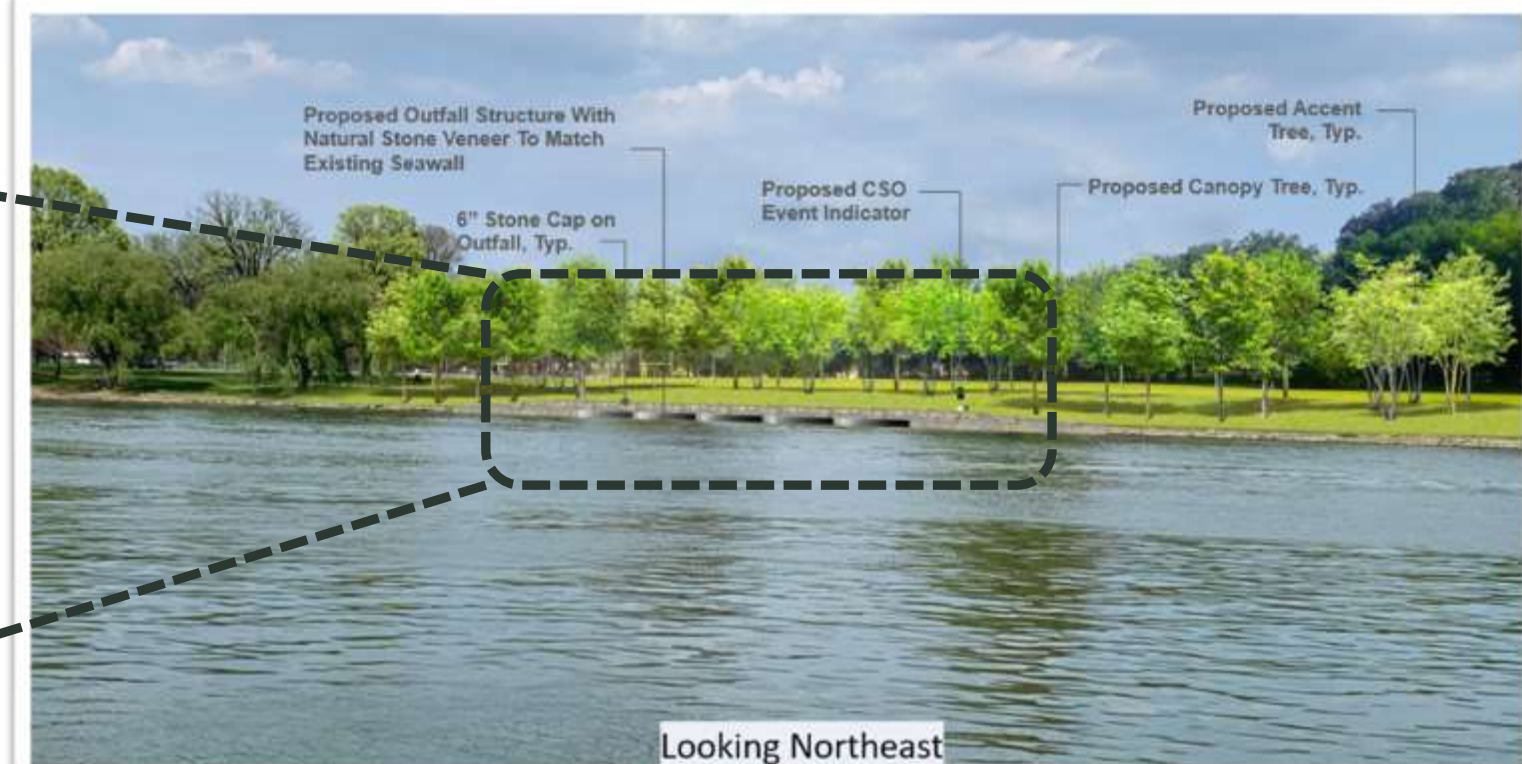
West Potomac Park – Renderings



Existing



Proposed



West Potomac Park – Renderings



Existing



Proposed



West Potomac Park – Renderings



Existing



Proposed



JBAB – Renderings – Site Plan



Existing



Proposed

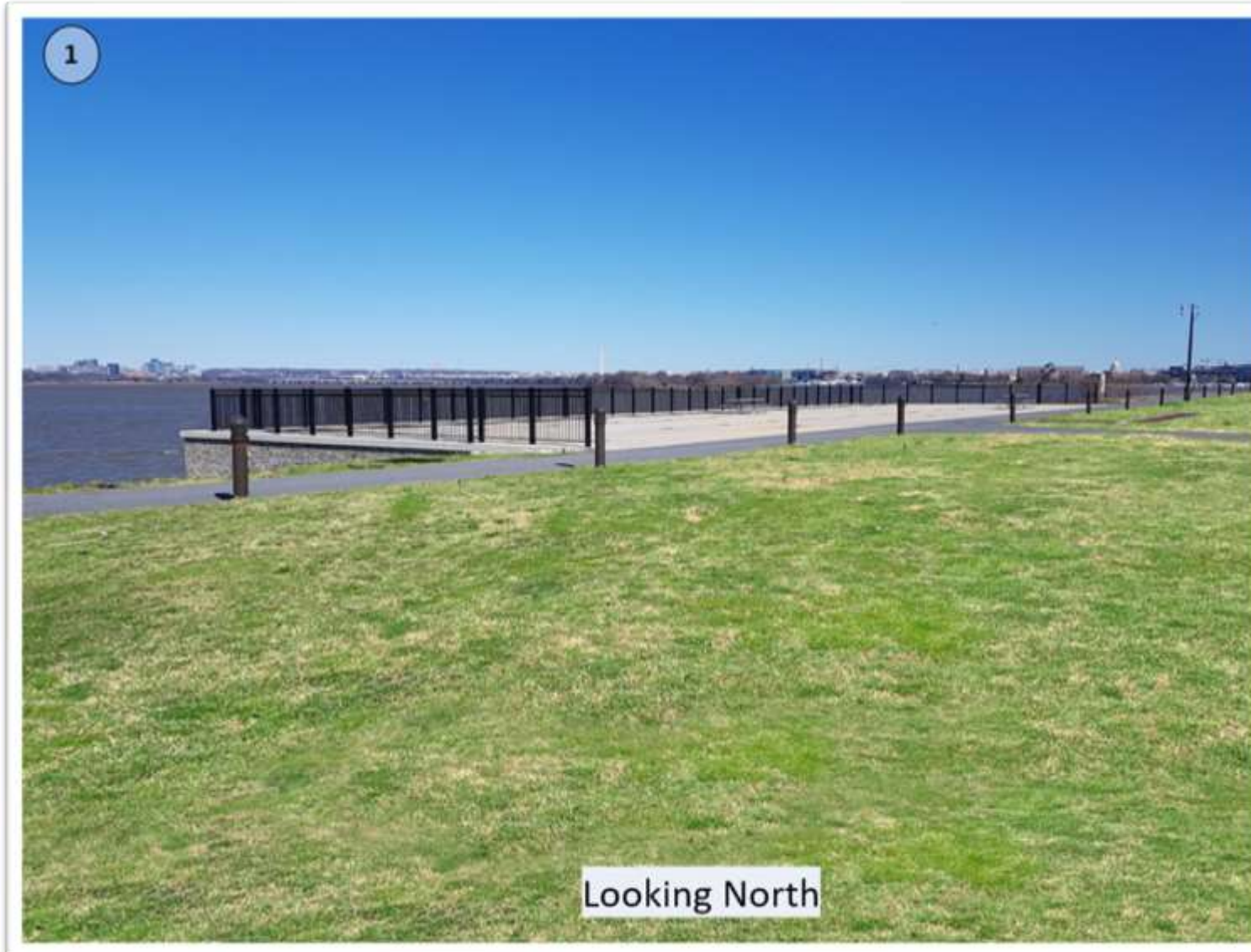


JBAB – Renderings – Site Plan



Existing

Proposed



Questions