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

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*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

Key Plan
CSO 028 – Renderings

Existing

Looking North

Proposed

Looking North

Key Plan
CSO 028 – Renderings

Existing

Looking East

Proposed

Looking East
CSO 028 – Renderings

Existing

Looking North

Proposed

Looking North

Proposed Canopy Tree, Typ.

Proposed Vent Structure With Ashlar Natural Stone Veneer To Match Existing Structure

Proposed Outfall Structure With Natural Stone Veneer To Match Existing Riprap Texture

6" Stone Cap on Outfall, Typ.

Rip Rap, Typ.
CSO 027 – Renderings

Existing

Proposed

Looking East

Looking East
CSO 027 – Renderings

Existing

Proposed

Looking North
CSO 027 – Renderings

Existing

Looking North

Proposed

Looking North

Key Plan
CSO 027 – Renderings

Existing

Proposed

Looking Southeast

Proposed

Proposed

Proposed

Proposed

Proposed

Proposed

Proposed

Proposed

Proposed
CSO 024 – Renderings – Plan View

Existing

Proposed
CSO 024 – Renderings

Existing

Proposed
CSO 024 – Renderings

**Existing**

**Proposed**

Looking Northwest

Proposed Manhole, Typ.
Proposed Handhole, Typ.
Proposed Brick Veneer Vent Chamber
Proposed Customer Electrical Equipment

Looking Northwest

Proposed Manhole, Typ.
CSO 022 – Renderings

Existing

Proposed

- Proposed PEPCO Switch, PEPCO Transformer & Customer Electrical Equipment
- Proposed Turf Paver, Typ.
- Proposed Manhole, Typ.
- Proposed Path
- Proposed Shrubs, Typ.
- Proposed Canopy Tree, Typ.
- Proposed Vent Structure with Coursed Natural Stone Veneer

Key Plan
CSO 022 – Renderings

**Existing**

**Proposed**

Looking Northwest
CSO 022 – Renderings

Existing

Proposed

Key Plan
CSO 022 – Renderings

Existing

Proposed

Looking Southeast

Proposed Vent Structure with Coursed Natural Stone Veneer

Proposed PEPCO Switch, PEPCO Transformer & Customer Electrical Equipment

Looking Southeast
CSO 021 – No New At or Above Grade Features

Key Plan

Looking Northwest
CSO 020 – Renderings

Existing  Proposed

[Existing and proposed renderings with labels: Existing Handhole, Type; Proposed Handhole, Type; Proposed Electrical Equipment; Proposed Vent Structure with Coursed Natural Stone Veneer; Proposed Turf Paver; Proposed Arbor Tree, Type.]

Image from Google Maps. Looking North  Original Image from Google Maps. Looking North

Key Plan
CSO 020 – Renderings

Existing

Proposed
CSO 020 – Renderings

Existing vs Proposed

Looking Northeast

Key Plan
West Potomac Park – Renderings – Site Plan 1 View

Existing

Proposed

Key Plan
West Potomac Park – Renderings – Site Plan 2 View

Existing

Proposed

Key Plan
West Potomac Park – Renderings

Existing

Proposed

Looking North
West Potomac Park – Renderings

Existing

Proposed

Looking South

Looking South
West Potomac Park – Renderings

Existing

Proposed

Looking Northeast
West Potomac Park – Renderings

Existing

Proposed
West Potomac Park – Renderings

Existing

Proposed

Key Plan
JBAB – Renderings – Site Plan

Existing

Proposed
JBAB – Renderings – Site Plan

Existing

Proposed

Looking North

Proposed CSO Event Indicator

Looking North