

Stickfoot Branch Stream Restoration Project

Public Scoping Virtual Presentation

February 24, 2021

WELCOME



National Park Service
U.S. Department of the Interior



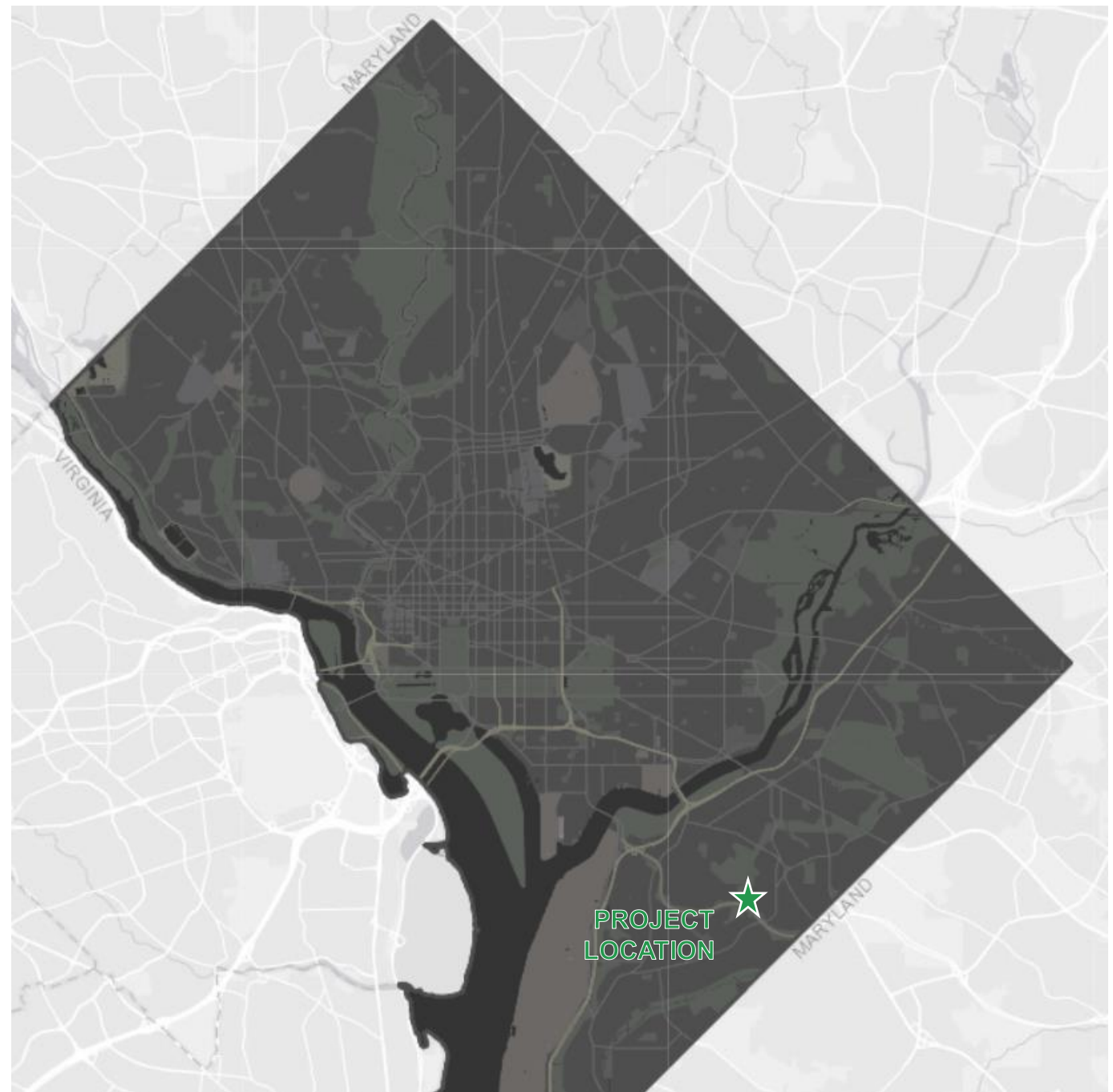
Agenda

1. Meeting Purpose
2. Project Introduction
3. Existing Site Conditions
4. Purpose and Need
5. Proposed Restoration Approach
6. Tentative Project Schedule
7. Q&A
8. How to Comment

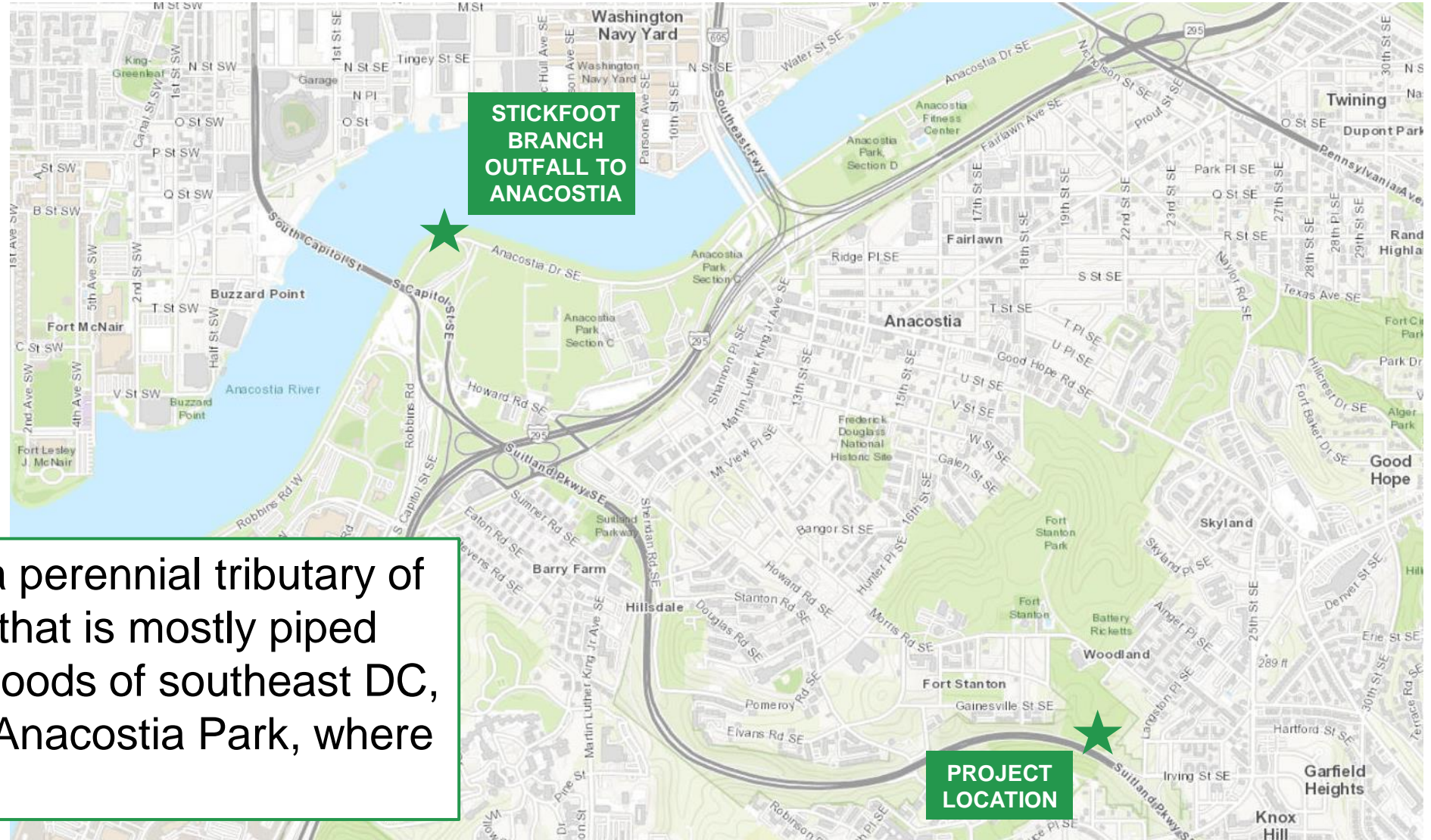
Introduction

The District Department of Energy and Environment (DOEE) and the National Park Service (NPS) are preparing preliminary plans to restore an approximately 800 linear foot segment of Stickfoot Branch, and 140 linear feet of an unnamed tributary, west of Garfield Heights in southeast Washington, DC.

– the stream segment is on parkland administered by National Capital Parks – East.



Stream Restoration of Stickfoot Branch



Stickfoot Branch is a perennial tributary of the Anacostia River that is mostly piped under the neighborhoods of southeast DC, and Poplar Point at Anacostia Park, where its outfall is located.

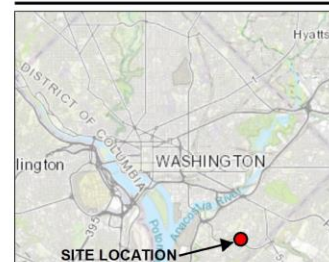
Existing Site Conditions

The Stickfoot Branch stream restoration study area is forested with steep valley slopes.

Several outfalls drain stormwater from Suitland Parkway and three unnamed tributaries (labeled Tributary A, B, and C on the map to the right) flow into Stickfoot Branch within the study area.

Stream condition assessments have been completed by the Metropolitan Washington Council of Governments (MWCOCG) on behalf of DOEE.

A summary of the degradation and other issues occurring within the study area are discussed on the following slides.



— Stickfoot Branch Stream Restoration Study Area
— Local Hydrography



0 250 500 Feet

Project
**Stickfoot Branch
Stream Restoration Project**

Figure No.
1

Title
Study Area Map

★ ★ ★ **DEPARTMENT
OF ENERGY &
ENVIRONMENT**
GOVERNMENT OF THE DISTRICT OF COLUMBIA

Existing Site Conditions (cont'd)

Active streambank erosion and channel incision are occurring within the stream segment.



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Concrete encased sewer lines that cross Stickfoot Branch have become exposed.





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Concrete encased sewer lines that cross Stickfoot Branch have become exposed.

Trees along the stream have fallen due to channel widening.

A large gully has formed on the embankment of 22nd Street SE due to unmanaged stormwater flows.



Existing Site Conditions (cont'd)

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A large gully has formed on the embankment of 22nd Street SE due to unmanaged stormwater flows.

Kudzu, a highly invasive plant species, has overtaken the northeast portion of the study area.



Purpose of and Need for the Stream Restoration

The purpose of the stream restoration is to:

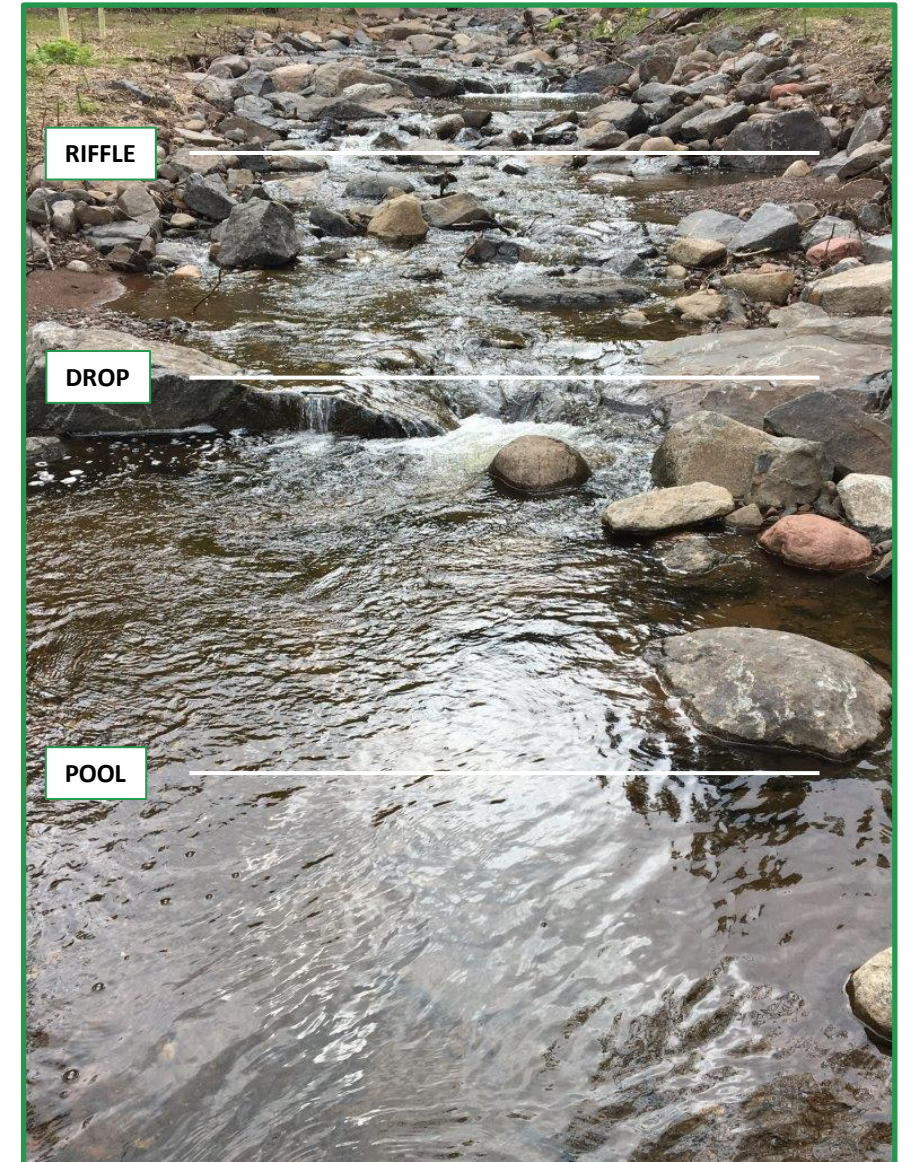
- reduce streambank erosion and channel bed incision;
- improve in-stream macroinvertebrate habitat;
- ensure the long-term protection of existing sanitary and stormwater infrastructure;
- manage invasive vegetation in the project site; and
- minimize impacts to natural and cultural resources.

The restoration is needed to improve the long-term stability of Stickfoot Branch and to provide downstream water quality benefits in support of the ongoing effort to achieve District water quality standards for the Anacostia River watershed.



Restoration Design Approach

- Restore Stickfoot Branch using a roughened channel design approach that mimics natural stream channels
- Install buried boulder sills to prevent channel downcutting and to protect sewer infrastructure
- Place rocks to promote flow diversity (drops, pools, and riffles)
- Remove piped sections of stream to increase length of natural channel design
- Restore side tributaries and drainage channels
- Implement invasive species management practices to control kudzu



Stickfoot Branch using roughened approach to promote flow diversity

EXISTING CONDITION

POST-CONSTRUCTION

Install boulder sills within the streambed to prevent downcutting

Annotations:

- TIE INTO EXISTING ENDWALL AND 48" PIPE
- EX. SEWER LINE TO BE ENCASED IN CONCRETE
- FORESTED WETLAND
- WETLAND MATTING
- PROPOSED ACCESS PATH
- EX. SEWER LINE TO BE ENCASED IN CONCRETE
- EXPAND EXISTING CURB PROP RIPRAP CHANNEL TO TIE-IN TO STREAM CHANNEL
- STAGING AND STOCKPILE AREA
- STABILIZED CONSTRUCTION ENTRANCE
- EX. SEWER LINE TO BE ENCASED IN CONCRETE

Streets: Langston Place SE, Hartford Street SE, 22nd Street SE, SUITLAND PARKWAY

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EXISTING CONDITION

POST-CONSTRUCTION

LEGEND

-  RIPRAP PLUNGE POOL
 PROPOSED POOL
 ROUGHENED CHANNEL MATERIAL
 STAGING/STOCKPILE AREA
 WETLAND MATTING
 ACCESS PATH



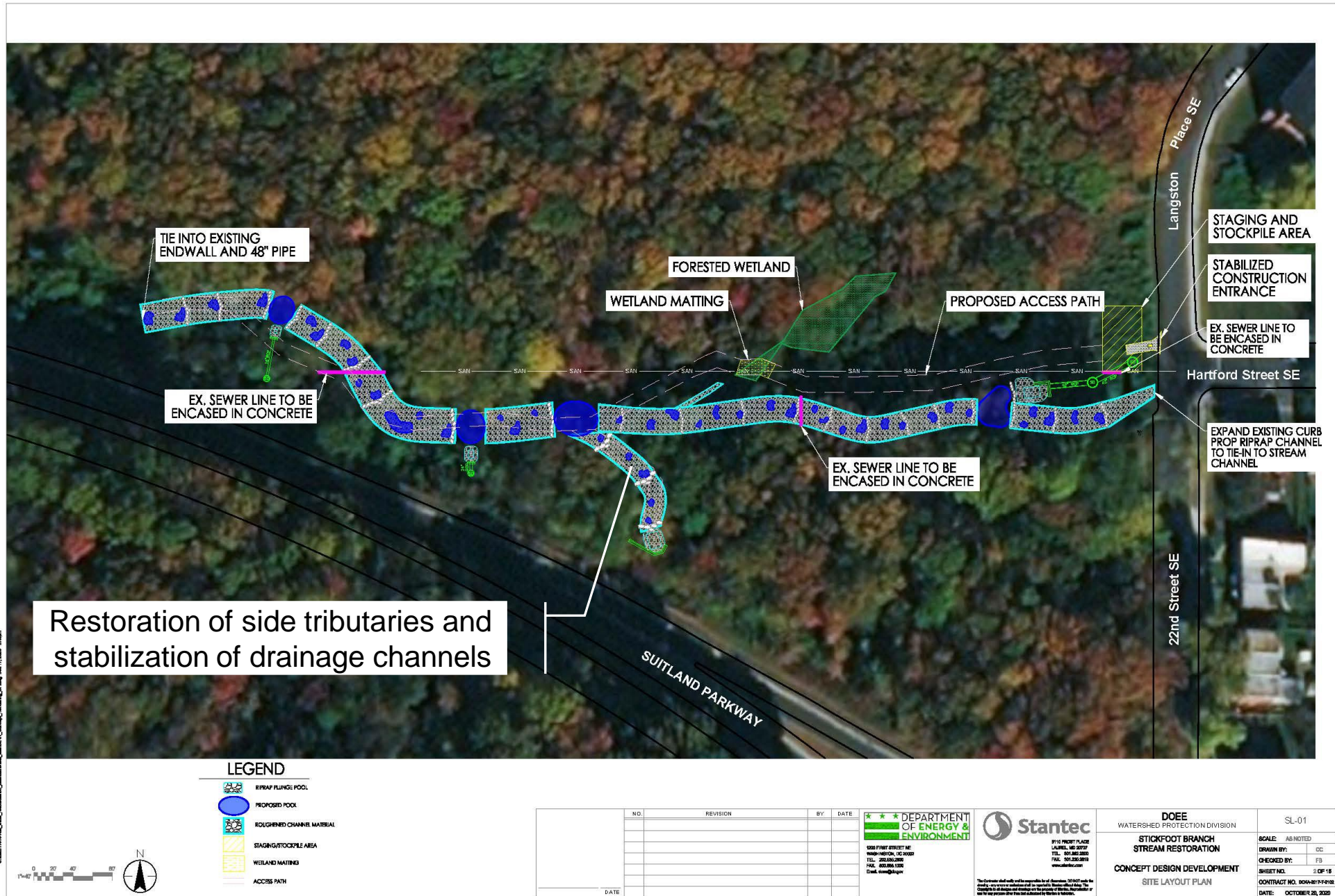
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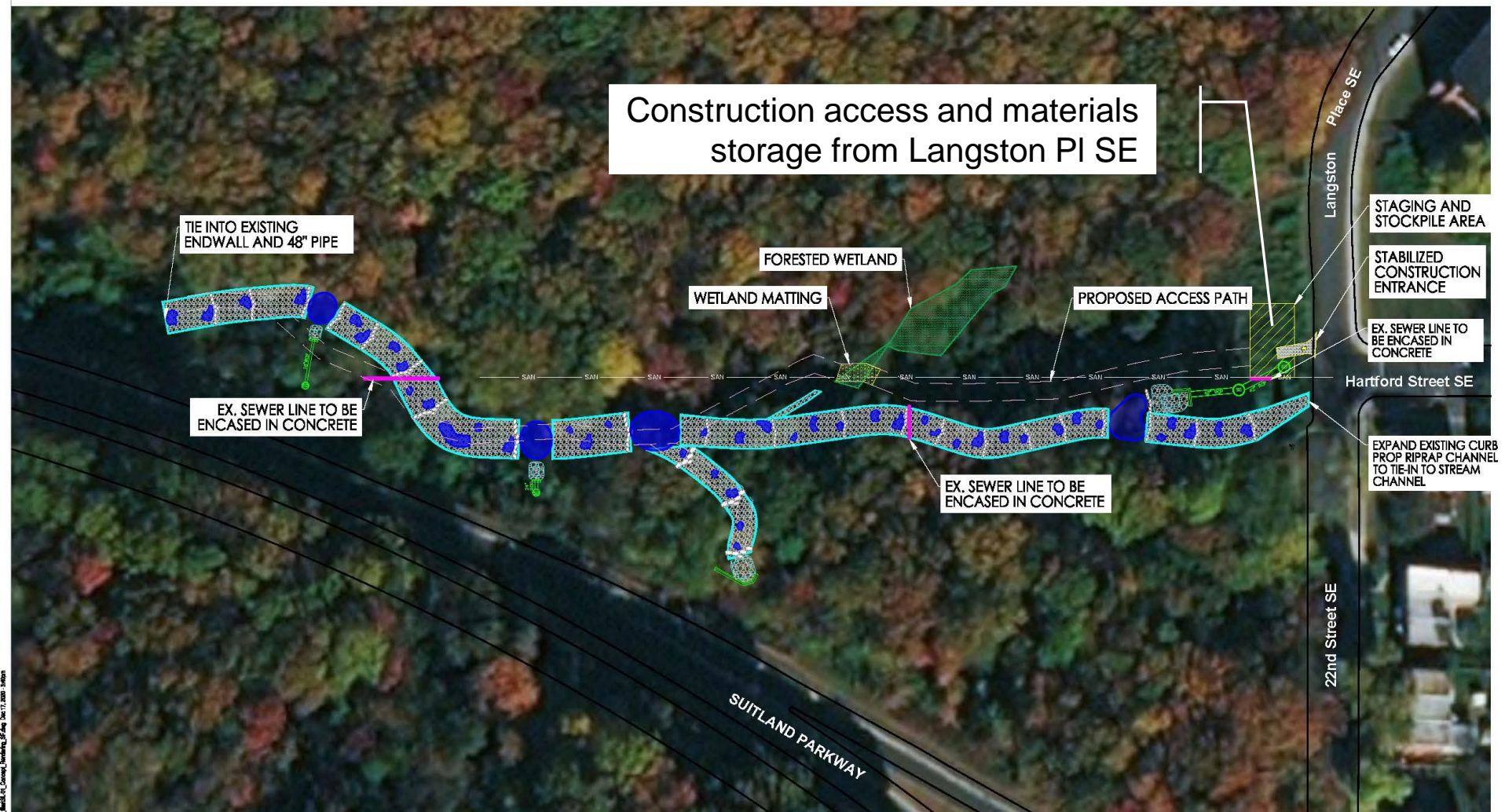
DOEE
WATERSHED PROTECTION DIVISION
STICKFOOT BRANCH
STREAM RESTORATION
CONCEPT DESIGN DEVELOPMENT
SITE LAYOUT PLAN

SL-01	
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CHECKED BY:	FS
SHEET NO.	2 OF 15
CONTRACT NO. DOKA-2013-T-0102	
DATE: OCTOBER 20, 2020	





Construction access and materials
storage from Langston PI SE



LEGEND

-  RIPRAP PLUNGE POOL
 PROPOSED POOL
 ROUGHENED CHANNEL MATERIAL
 STAGING/STOCKPILE AREA
 WETLAND MATTING
 ACCESS PATH



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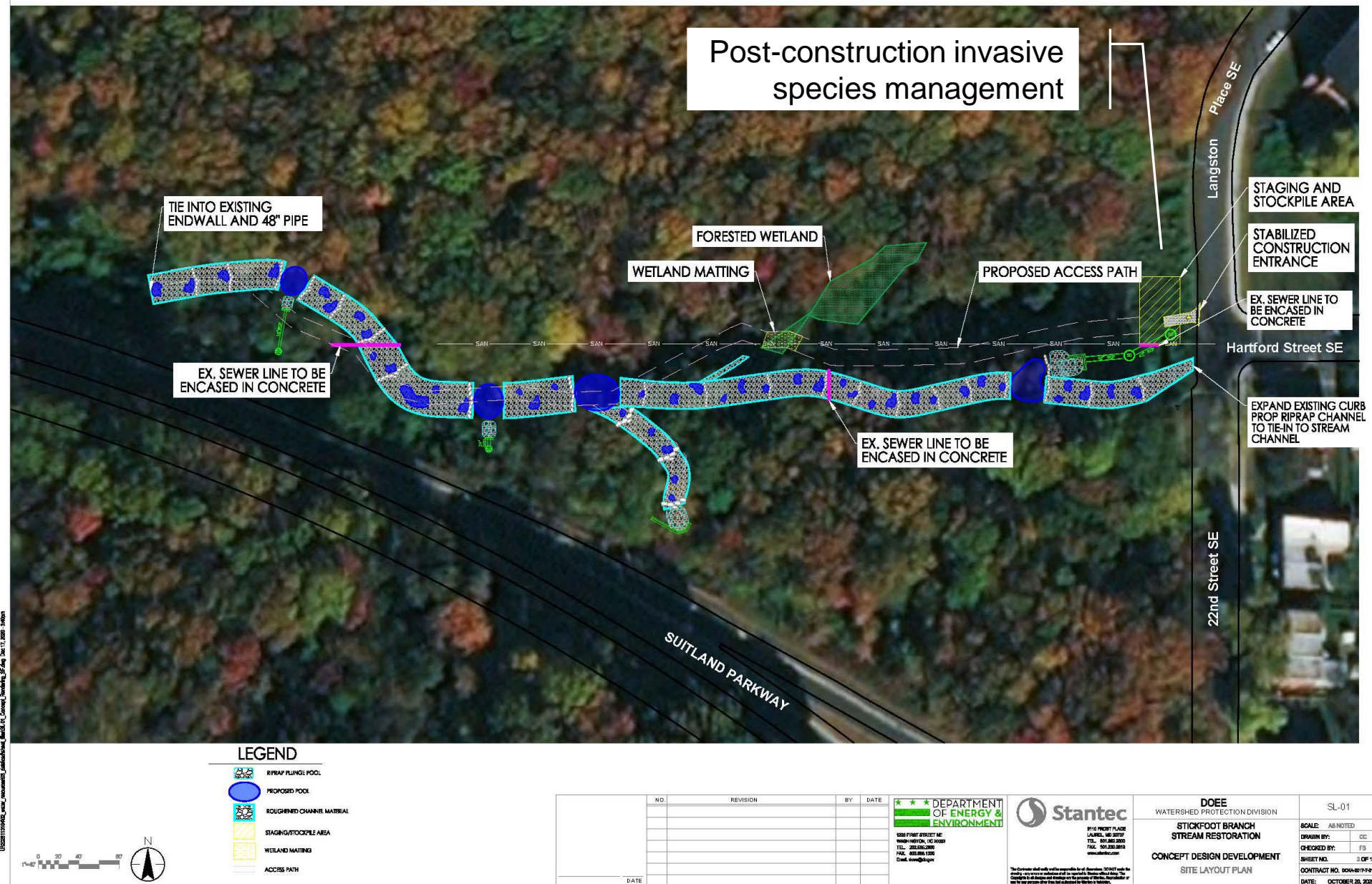
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DOEE
WATERSHED PROTECTION DIVISION

**STICKFOOT BRANCH
STREAM RESTORATION**

CONCEPT DESIGN DEVELOPMENT
SITE LAYOUT PLAN

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CONTRACT NO. DOKA-217-F-2	
DATE: OCTOBER 20, 2011	

Next Steps / Tentative Project Schedule

DOEE and NPS will prepare an Environmental Assessment (EA) to document the analysis of potential environmental impacts of the proposed stream restoration project in accordance with the National Environmental Policy Act (NEPA).

Public Scoping Period (Begins NEPA process)	February 24 – March 26
Prepare EA Document	March – June
EA Public Review	June – July
NPS Decision	July – August
Final Design	2021
Construction	2022 – 2023

Questions?

Please submit any questions or concerns you might have regarding the project using the chat feature.

Please only submit comments that are specific to the Stickfoot Branch stream restoration project.

We will allow about 10 minutes for the Q&A session.

How to Comment

Online:

<http://parkplanning.nps.gov/stickfoot>

U.S. Mail:

Attn: Stickfoot Branch Comments
National Capital Parks – East
1900 Anacostia Drive, SE
Washington, DC 20020.

Comments must be submitted online or postmarked by March 26, 2021 to receive consideration.

Thanks for your participation!

Please contact Josh with any questions or concerns regarding the proposed Stickfoot Branch stream restoration project.

DOEE Project Manager:

Josh Burch, Environmental Protection Specialist

Phone: (202) 734-9527

Email: josh.burch@dc.gov

We thank you for your participation and appreciate your feedback on this project that will benefit the Anacostia River watershed!