



## ENHANCING OUR COMMUNITIES with Natural Drainage Systems (NDS) and Pedestrian Improvements

### Natural Drainage Systems:

#### What are they & why do we need them?

When it rains in the Delridge and Westwood neighborhoods, pollution from our streets runs into Longfellow Creek untreated. This is not healthy for the creek or for people. **The good news is: there is something we can do.**

**Natural Drainage Systems** consist of shallow depressions in the public right-of-way, or “planter strip,” filled with deep-rooted plants and spongy soils that temporarily hold and clean polluted stormwater from streets and sidewalks. These features capture and clean pollutants before they can reach the creek.



**Seattle Public Utilities (SPU) is planning to build natural drainage systems in your neighborhood in 2021.** We are partnering with Seattle Department of Transportation (SDOT), Office of Arts & Culture 1% for the arts, and King County Flood Control District.



### Community benefits

**Natural Drainage Systems** offer multiple benefits to local neighborhoods and ecosystems, including:

- Greener, more attractive neighborhoods
- Lower risk of flooding
- Creation of habitat along our streets
- Healthier creek ecosystems
- Calmer traffic patterns
- More street trees
- Pedestrian improvements

Learn more at: [seattle.gov/util/longfellowNDS](https://seattle.gov/util/longfellowNDS)



# LONGFELLOW CREEK

## Watershed Boundary



Seattle  
Public  
Utilities



PUGET SOUND/  
SALISH SEA

### LEGEND

- WATERSHED AREA FLOWING INTO LONGFELLOW CREEK
- LONGFELLOW CREEK
- LONGFELLOW CREEK (PIPED)
- SYLVAN WAY NDS SITE
- KENYON NDS SITE
- 24TH NDS SITE

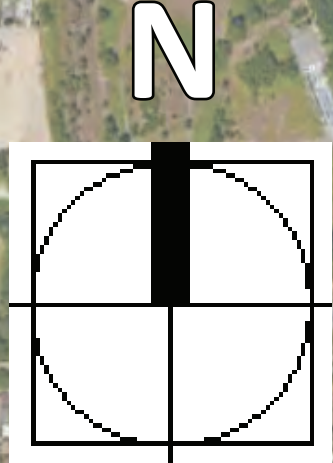
LONGFELLOW CREEK  
WATERSHED BOUNDARY

LONGFELLOW CREEK

PROJECT AREA

ROXHILL  
PARK

24TH AVE SW



City of Seattle

The Levy to  
**MOVE SEATTLE**



KING COUNTY  
FLOOD CONTROL  
DISTRICT

APRIL 2020

60% DESIGN PHASE

# WHERE WE ARE NOW

...and where we're going

The Longfellow Creek Natural Drainage System (NDS) Project has completed 30% design outreach and incorporated community feedback in the early design.

At the 60% Design Phase, we present updated street and drainage improvements and answer questions from the community. We finalize the project scope based on regulatory requirements and project funding.

## 30% INPUTS

- Neighborhood priorities
- Current drainage conditions
- Location of utilities
- Local topography + mature trees
- Rainfall runoff patterns along the street
- Soil testing + analysis
- Location of homes + paths
- Location of driveways
- On-street parking patterns
- City right-of-way impacts
- Zoning code
- Projected construction costs
- Maintenance of NDS
- Permitting
- Community concerns

## 60% INPUTS

- Neighborhood priorities
- Local ecosystem needs
- Detailed utility locations + impacts
- Planting palettes & new street trees
- NDS sizing adjustments
- Refinements to design dimensions + details
- City right-of-way impacts
- Balance of costs with budget
- Maintenance of NDS
- Permitting
- Community concerns

## FINAL INPUTS

- Accessibility impacts
- Construction costs + impacts
- Ongoing maintenance costs + responsibility
- Permitting requirements
- Construction questions

**A Healthier & Safer  
Longfellow Creek!**



**30%  
DESIGN**

**OUTREACH FOR  
30% DESIGN**

MID 2019

**SITING, FIELD INVESTIGATIONS  
SURVEY + CONCEPT DEVELOPMENT**

2017 to 2018



**60%  
DESIGN**

**OUTREACH FOR  
60% DESIGN**

EARLY 2020

We Are  
Here



**FINAL  
DESIGN**

**PRE-CONSTRUCTION  
OUTREACH**

LATE 2020



**CONSTRUCTION**

## NEARBY CITY PROJECTS ENTERING CONSTRUCTION

PROJECT	EST. SCHEDULE*
<b>35th/Avalon Paving</b> SW Seattle Paving	IN CONSTRUCTION NOW
<b>SDOT Delridge Way SW</b> RapidRide H Line	MID 2020
<b>West Seattle</b> Neighborhood Greenway Phase 2	MID 2020
<b>King County Metro</b> RapidRide H Line	MID 2020

\*Project schedules subject to change

**2019 → 2020 → 2021**



**City of Seattle**



**APRIL 2020**  
**60% DESIGN PHASE**

# WHAT TO EXPECT

How a typical NDS planting installation **changes over time**



**BEFORE**



**NEWLY PLANTED**



~1 year

**GROWING**



~5 years

**MATURE**



**City of Seattle**



**APRIL 2020**  
60% DESIGN PHASE



## POTENTIAL NDS IMPROVEMENT S SYLVAN WAY SW



### KEY

MULCH

NATURAL DRAINAGE SYSTEM (NDS)

LAWN

NEW STREET TREE

**Note:** Earlier versions of this graphic had an error in the graphics key. It showed reference to a sidewalk. Similar to earlier project updates, we are not adding sidewalks to this site and apologize for any confusion this may have caused. While we are unable to install a sidewalk through this project, our design does not prevent a sidewalk from being added in the future.

### Questions? Contact Seattle Public Utilities:

Jonathan Brown | Project Manager  
Jonathan.Brown@seattle.gov | 206-386-4027  
Learn more at: [seattle.gov/util/longfellowNDS](https://seattle.gov/util/longfellowNDS)

For interpretation services, please call 206-386-4027  
如需要口譯服務, 請撥電話號碼 206-386-4027  
통역 서비스를 원하시면 206-386-4027 으로 전화하세요  
Para servicios de interpretación por favor llame al 206-386-4027  
Về dịch vụ phiên dịch xin gọi 206-386-4027



**SYLVAN WAY SW - EXISTING CONDITIONS**

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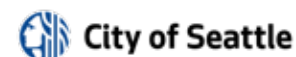
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**SYLVAN WAY SW - PROPOSED IMPROVEMENTS**

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