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 2020-2021.

What is the NDS Partnering Program?

The 2016-2025 Natural Drainage Systems Partnering Program is a Seattle Public Utilities multi-year capital improvement program focused on Longfellow, Piper’s, and Thornton Creek watersheds.

The program’s goal is to construct street-side natural drainage systems that filter and manage stormwater and improve neighborhoods with street trees, traffic calming, and, in some cases, a limited number of sidewalks.

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
NOTES:
• All blue-shaded areas flow into Longfellow Creek
• The dashed line of Longfellow Creek indicates where the creek is in a pipe
The Longfellow Creek Natural Drainage System (NDS) Project has completed preliminary planning and field investigations.

At the 30% Design Phase we present potential street and drainage improvements to the community, answer questions, and gather community concerns as we work toward finalizing 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

OUTREACH FOR 30% DESIGN
MID 2019

SITING, FIELD INVESTIGATIONS
SURVEY + CONCEPT DEVELOPMENT
2017 to 2018

OUTREACH FOR 60% DESIGN
LATE 2019 / EARLY 2020

60% DESIGN

We Are Here

30% DESIGN

FUTURE POTENTIAL DESIGN

CONSTRUCTION

PRE-CONSTRUCTION OUTREACH
MID 2020

FINAL DESIGN

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

A Healthier & Safer Longfellow Creek!

WHERE WE ARE NOW
...and where we’re going
WHAT WE HEARD for the 24th AVE SW CORRIDOR

...and how we’re incorporating your ideas into the Longfellow Creek NDS Project

We heard...

The Longfellow Creek Community highly values pedestrian safety and sidewalks.

Residents are concerned about road condition on stretches of 24th Ave SW.

Traffic speeds are a concern in some places along 24th Ave SW.

Street trees and other NDS features offer traffic-calming effects.

We heard...

We are prioritizing new sidewalk and accessible ramps near schools, transit, and shops.

We will be performing slurry seal preventative maintenance between SW Barton Pl and SW Trenton St in 2019.

We are evaluating road edge treatment options to convey water to NDS and installing structures to collect water.

We are exploring options such as replacing speed humps and adding curb bulbs.

We found that the SW Henderson St and 24th Ave SW intersection does not meet criteria for a new traffic circle.

King County Metro plans to relocate Route 22 off of 24th Ave SW to Delridge Way SW.

To preserve pavement condition, and to accommodate construction of a new sidewalk and green stormwater infrastructure, changes are coming to Metro Route 22.

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Typical existing street conditions

*Street conditions vary along 24th Ave SW Corridor

Typical proposed street conditions

New Sidewalk + Natural Drainage System between SW Cloverdale St and SW Barton Pl

New Sidewalk + Planting Strip between SW Cloverdale St and SW Barton Pl

Natural Drainage System Opposite New Sidewalk between SW Cloverdale St and SW Barton Pl

*NOTE: SW Thistle St / SW Cloverdale St sidewalk is subject to funding availability. See plan for detailed layouts.
POTENTIAL NDS AND SIDEWALK IMPROVEMENTS
24TH AVE SW: THISTLE TO CLOVERDALE

Note: Sidewalk improvements on this block are dependent on funding
POTENTIAL NDS AND SIDEWALK IMPROVEMENTS
24TH AVE SW: CLOVERDALE TO TRENTON
POTENTIAL NDS AND SIDEWALK IMPROVEMENTS
24TH AVE SW: TRENTON TO HENDERSON
POTENTIAL NDS AND SIDEWALK IMPROVEMENTS
24TH AVE SW: HENDERSON TO BARTON