



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






Watershed Boundary



Seattle Public Utilities



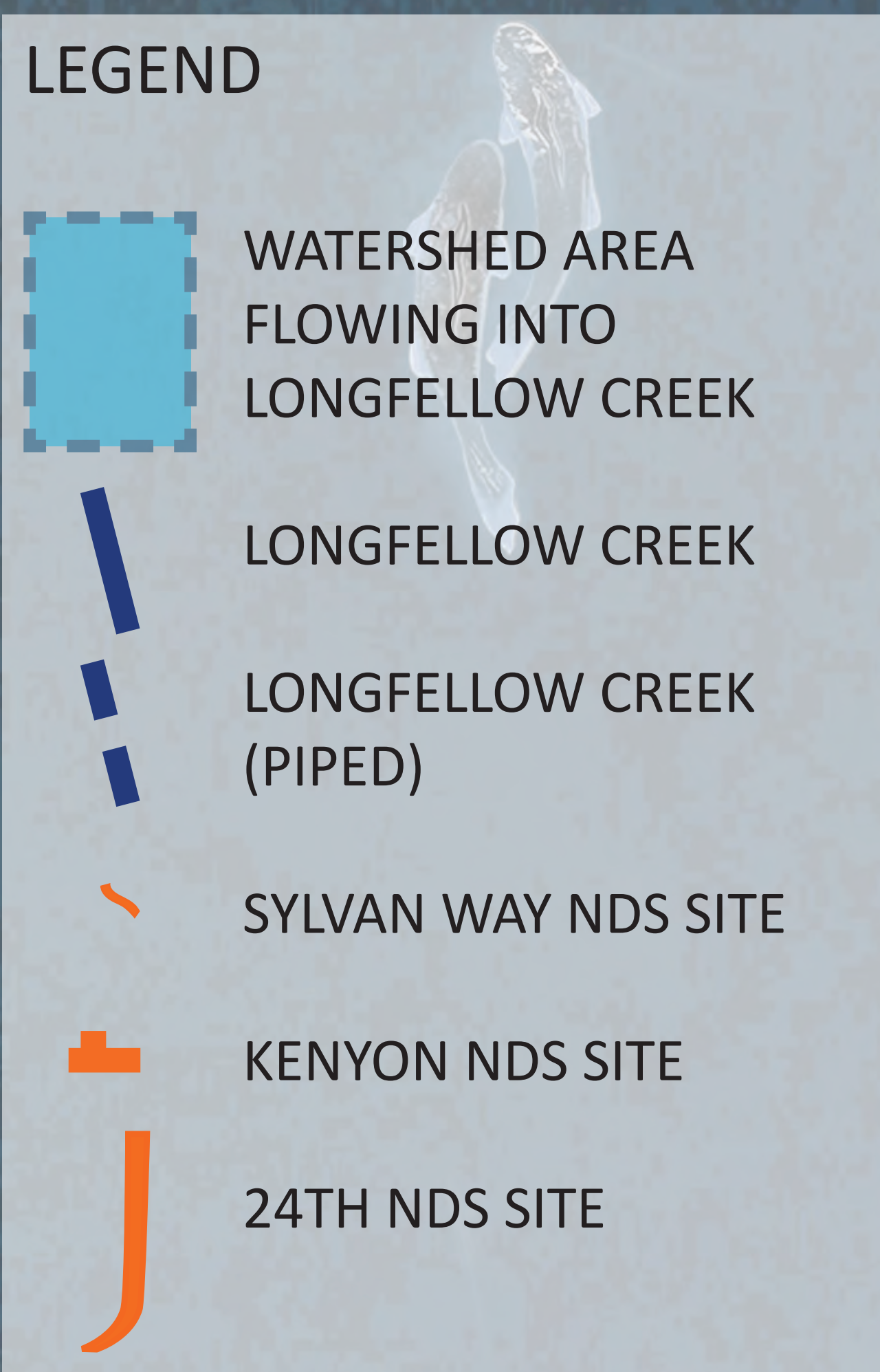
WEST SEATTLE BRIDGE

LONGFELLOW CREEK

LONGFELLOW CREEK WATERSHED BOUNDARY

PUGET SOUND/ SALISH SEA

LEGEND



SW HOLDEN ST

SW KENYON ST

SW THISTLE ST

SW CLOVERDALE ST

SW TRENTON ST

SW HENDERSON ST

SW BARTON ST

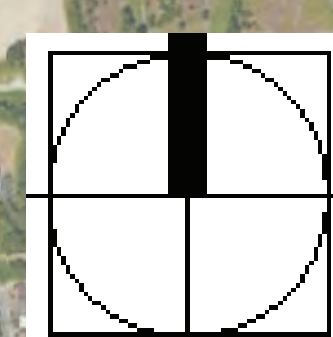
SW ROXBURY ST



**ROXHILL
PARK**

24TH AVE SW

N



City of Seattle

The Levy to



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!**



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60% DESIGN PHASE

WHAT WE HEARD

for the 24th AVE SW CORRIDOR



Seattle
Public
Utilities

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



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The Levy to

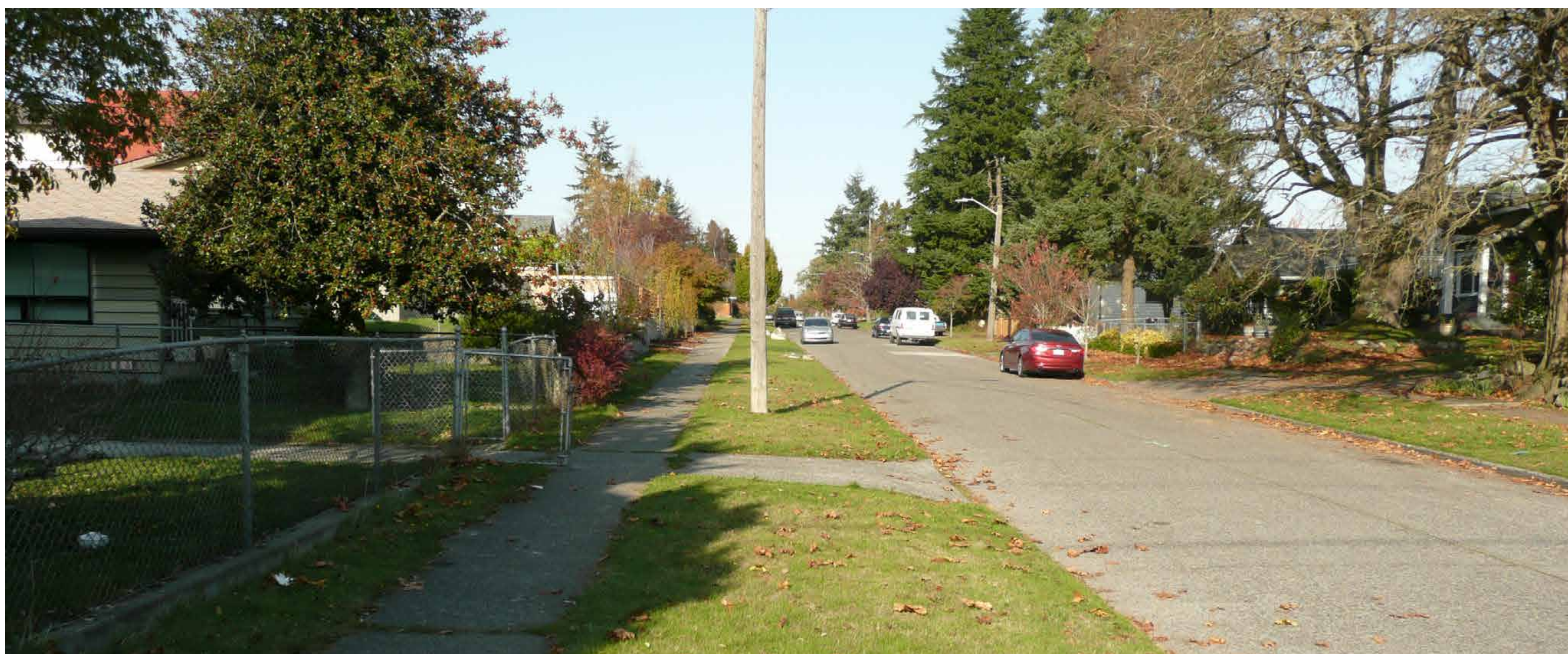


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WHAT TO EXPECT

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



BEFORE



NEWLY PLANTED



~1 year

GROWING



~5 years

MATURE



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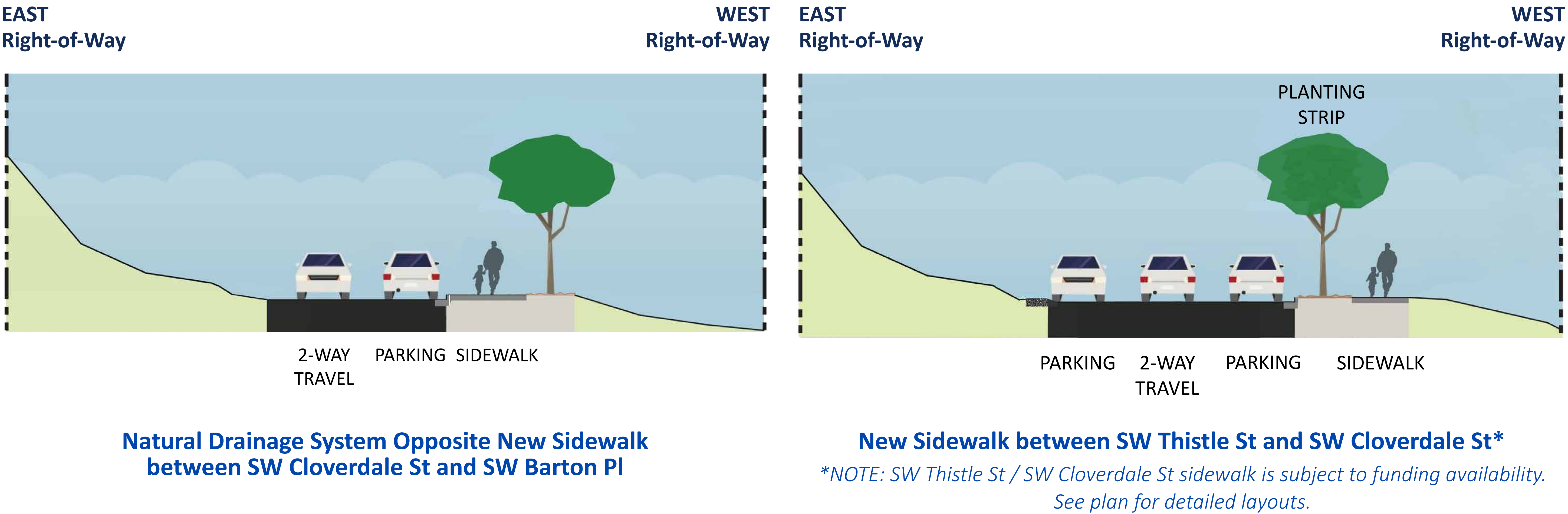
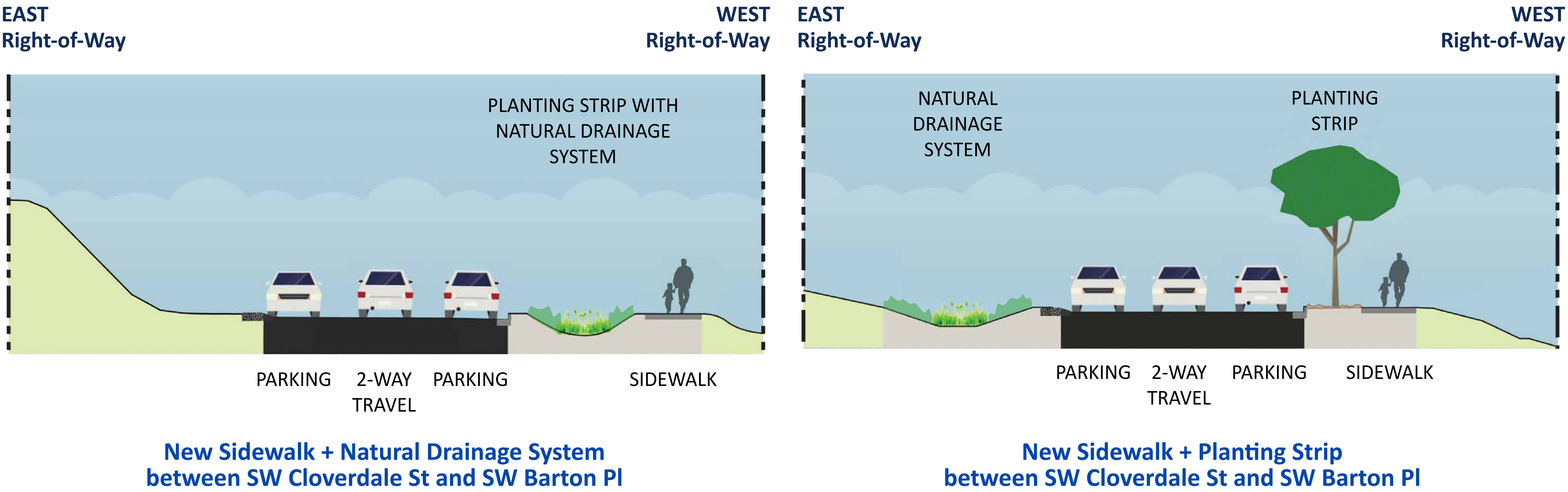
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Typical existing street conditions



Typical proposed street conditions

*Street conditions vary along 24th Ave SW Corridor



24th AVE SW CORRIDOR

What's in store for the 24th Ave SW Corridor?

24th Ave SW between SW Cloverdale St and SW Trenton St



Sidewalk view looking South

24th Ave SW between SW Barton St and SW Henderson St



Street view looking North, early summer

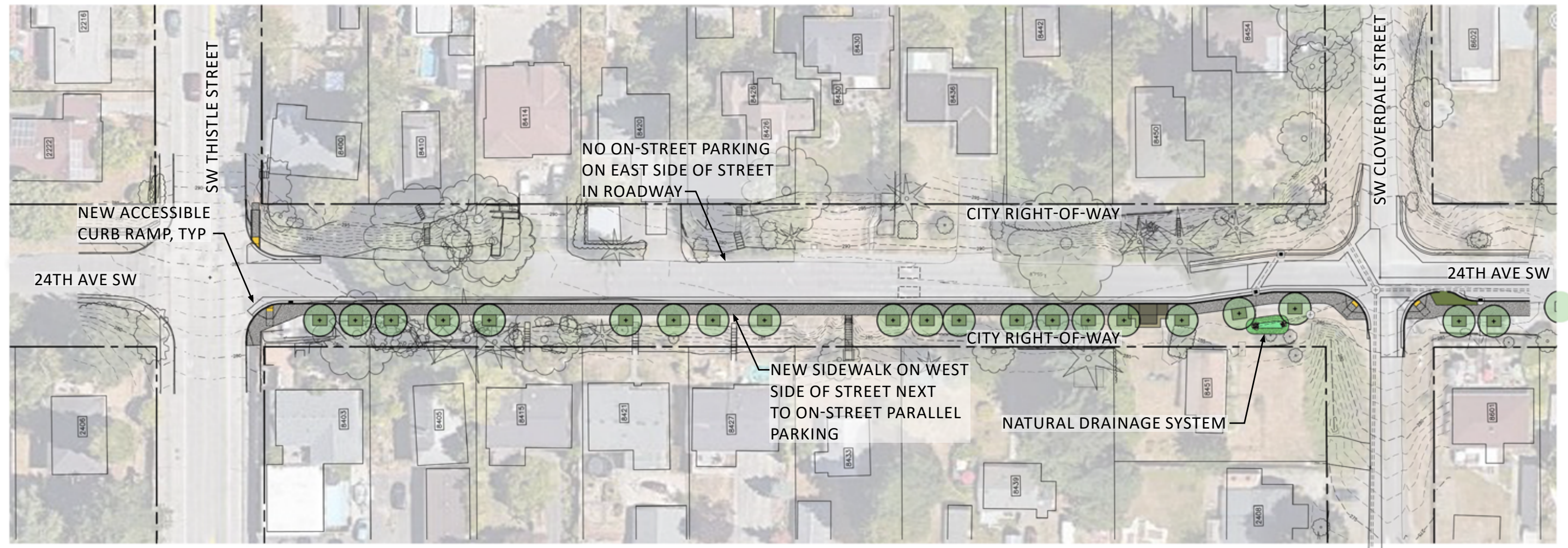


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POTENTIAL NDS AND SIDEWALK IMPROVEMENTS 24TH AVE SW: THISTLE TO CLOVERDALE



KEY

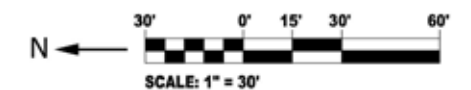
 SIDEWALK

 NATURAL DRAINAGE SYSTEM (NDS)

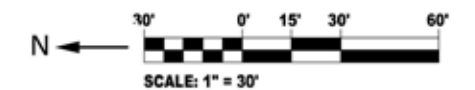
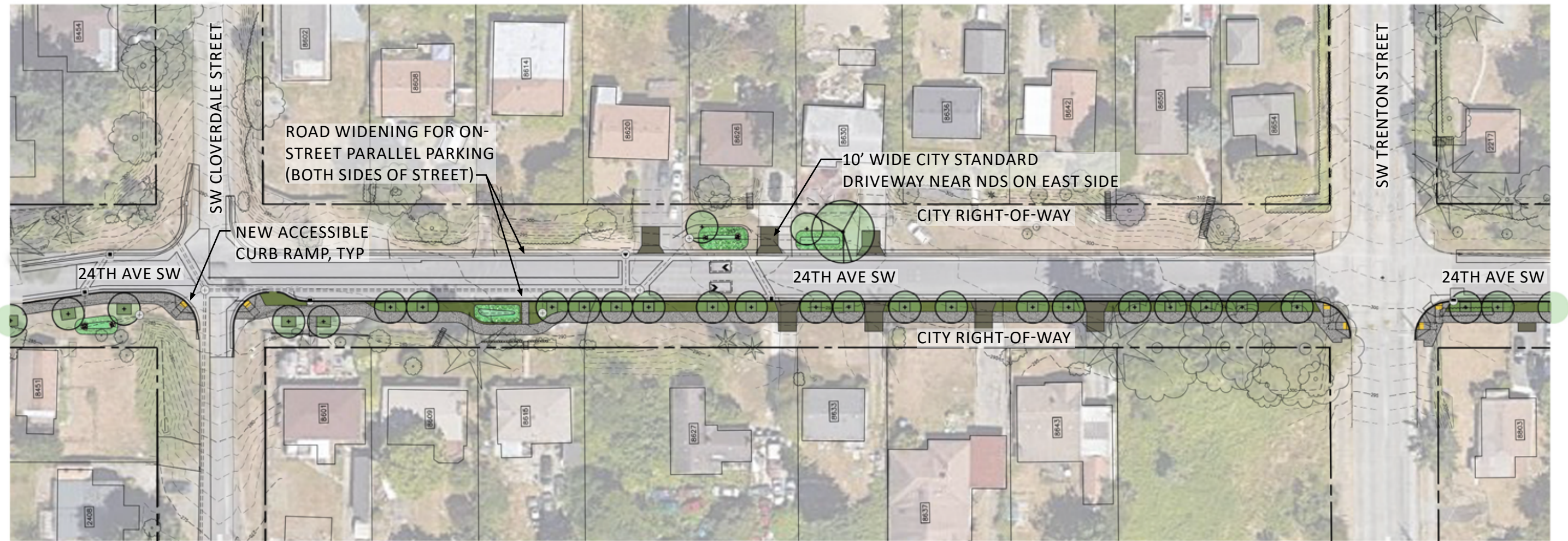
 10' WIDE CITY STANDARD
DRIVEWAY ACROSS SIDEWALK

 PLANTING STRIP






 NEW STREET TREE



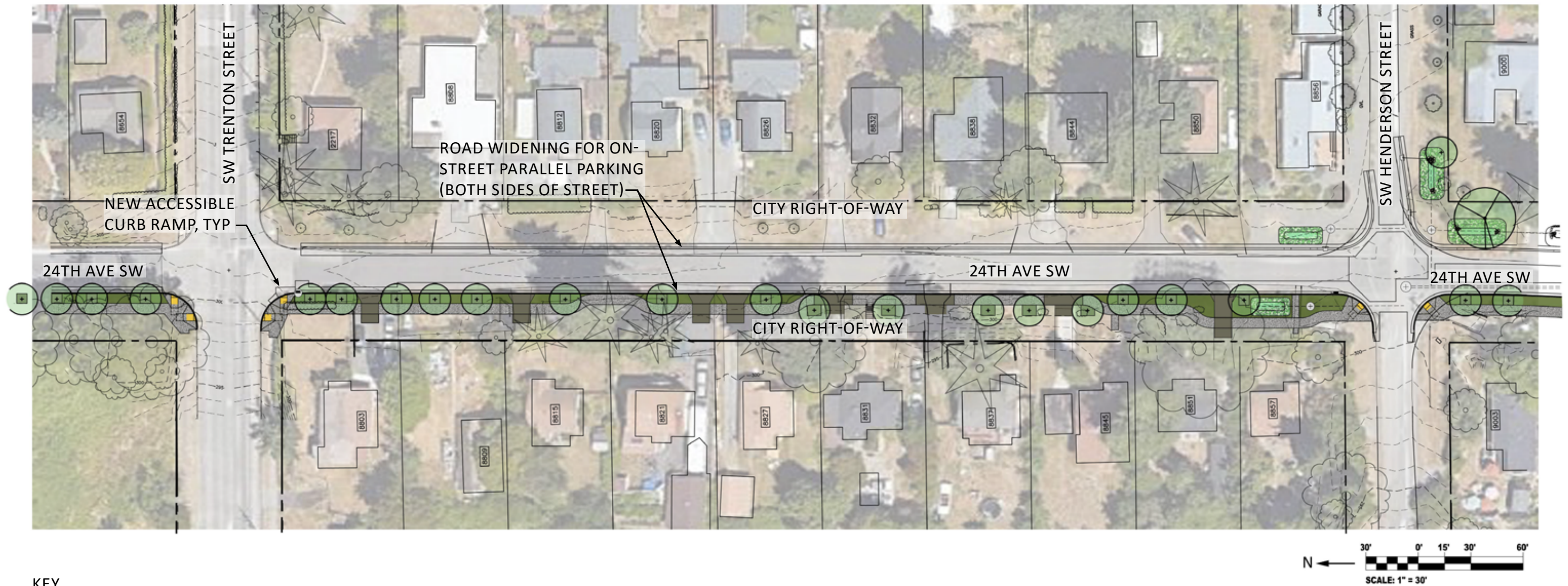
POTENTIAL NDS AND SIDEWALK IMPROVEMENTS 24TH AVE SW: CLOVERDALE TO TRENTON








KEY

-  SIDEWALK
-  NATURAL DRAINAGE SYSTEM (NDS)
-  10' WIDE CITY STANDARD DRIVEWAY ACROSS SIDEWALK
-  PLANTING STRIP
-  NEW STREET TREE

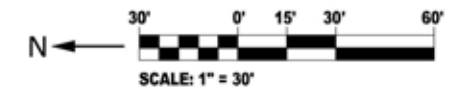
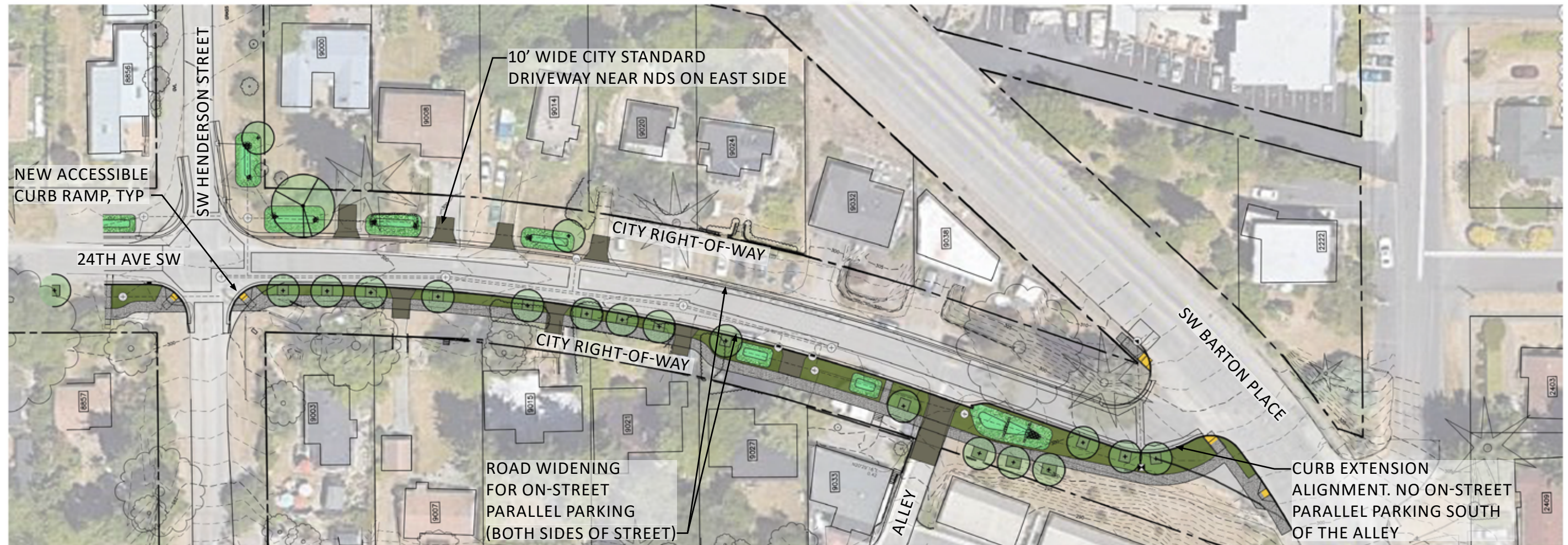
POTENTIAL NDS AND SIDEWALK IMPROVEMENTS 24TH AVE SW: TRENTON TO HENDERSON



KEY

-  SIDEWALK
-  10' WIDE CITY STANDARD DRIVEWAY ACROSS SIDEWALK
-  NATURAL DRAINAGE SYSTEM (NDS)
-  PLANTING STRIP
-  NEW STREET TREE

POTENTIAL NDS AND SIDEWALK IMPROVEMENTS 24TH AVE SW: HENDERSON TO BARTON



 SIDEWALK

 10' WIDE CITY STANDARD
DRIVEWAY ACROSS SIDEWALK

 NATURAL DRAINAGE SYSTEM (NDS)

 PLANTING STRIP

 NEW STREET TREE