

Welcome!



Thornton Creek Bridges Study

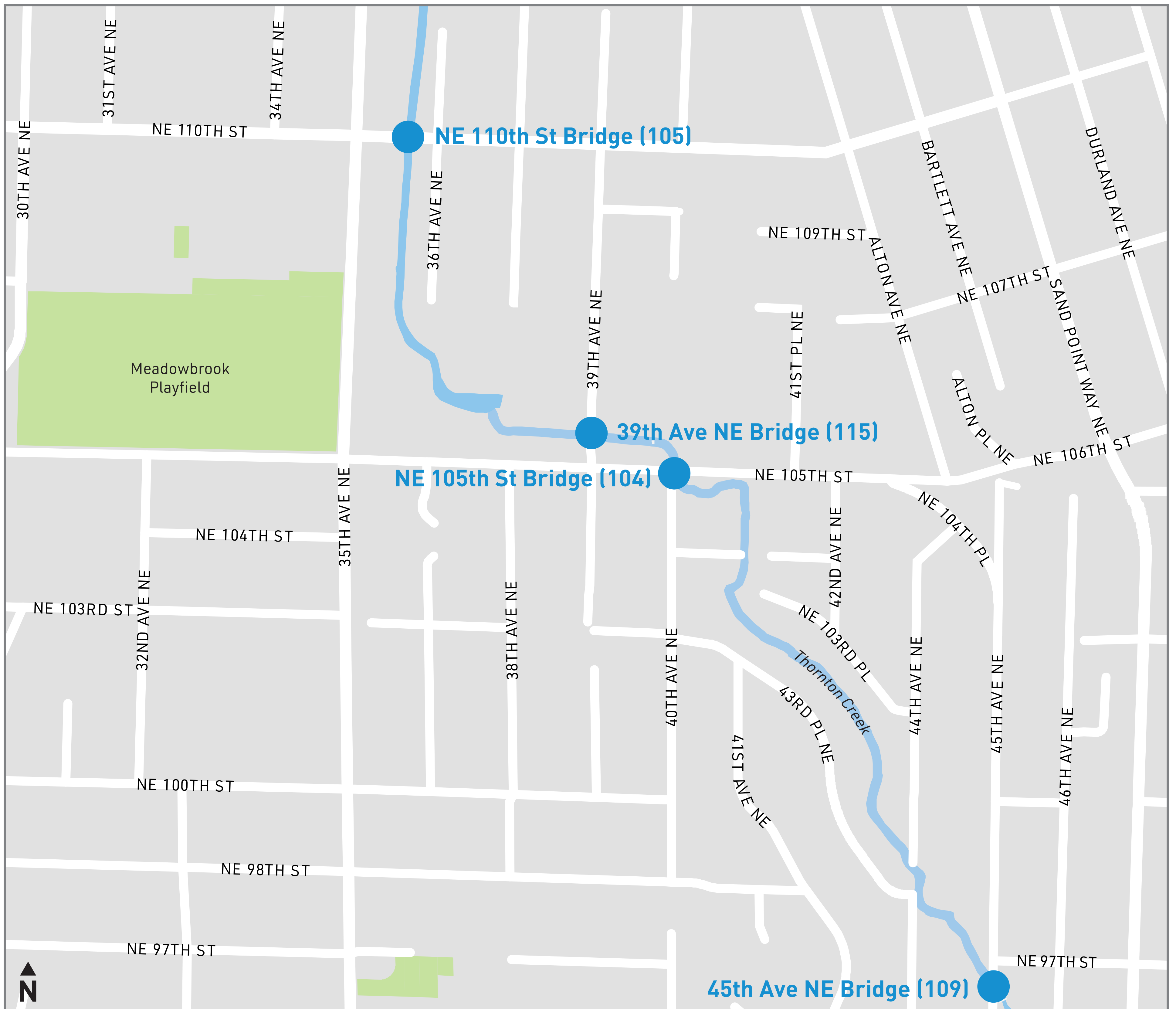
DROP-IN SESSION

Project Background

We're studying 4 bridges in the Matthews Beach neighborhood of northeast Seattle. The bridges each carry thousands of vehicles per day across the Thornton Creek Channel and are, on average, more than 65 years old.

The bridges are showing signs of deterioration, so we're exploring rehabilitation and replacement options. The study is being conducted as part of the 9-year Levy to Move Seattle approved by Seattle voters in 2015.

Bridge locations



Purpose of the Study

Our primary goal is to identify feasible solutions that address long-term multimodal transportation demand, such as biking, walking, driving, and taking transit.



Our objectives are to:

- Explore rehabilitation and replacement options
- Produce a detailed report that includes current conditions of the soil, structures, and waterflow; consideration of impacts; and recommendations for future designs

These bridges will remain safe to use while we conduct this study.

NE 110th St Bridge (105)

Existing bridge

- Bridge is 27 feet wide, with a roadway width of 24 feet
- A pedestrian crossing on each side
- The structure shows some signs of deterioration of the primary timber pile, timber railing, and supporting elements.
- There are minor signs of deterioration on the underside of the bridge



Street view of NE 110th St bridge (105) looking west



NE 110th St bridge (105) southside pedestrian crossing

39th Ave NE Bridge (115)

Existing bridge

- Bridge is 23 feet wide, with a roadway width of 20 feet
- A timber pedestrian bridge provides a pedestrian crossing approximately 30 feet to the west of 39th Ave NE bridge, along a trail system surrounding Meadowbrook Pond
- The structure shows some signs of deterioration of primary timber pile and railing, supporting elements, and on the underside of the bridge. There are also signs of settling asphalt at the bridge corners.



Street view of 39th Ave NE bridge (115)



Looking west at 39th Ave NE bridge (115)

NE 105th St Bridge (104)

Existing bridge

- Bridge is 27 feet wide, with a roadway width of 22 feet
- No sidewalk on south side
- Sidewalk on north side of roadway abruptly ends before the intersection
- Guardrail runs along the sides
- The structure shows some signs of deterioration of the primary timber pile, timber railing, and roadway surface



Street view of NE 105th St bridge (104) facing east



Looking north at NE 105th St bridge (104) from 40th Ave NE

45th Ave NE Bridge (109)

Existing bridge

- Bridge is 31 feet wide with a roadway width of 24 feet
- Sidewalk on each side of the bridge
- 45th Ave NE has no sidewalks or landscaping
- Bridge has a concrete railing with timber protective fencing
- The structure shows some signs of deterioration of primary timber pile, supporting elements, and concrete bridge railing



Street view of 45th Ave NE bridge (109) facing south toward NE 95th St



Looking west toward 45th Ave NE bridge (109)

Street Standards

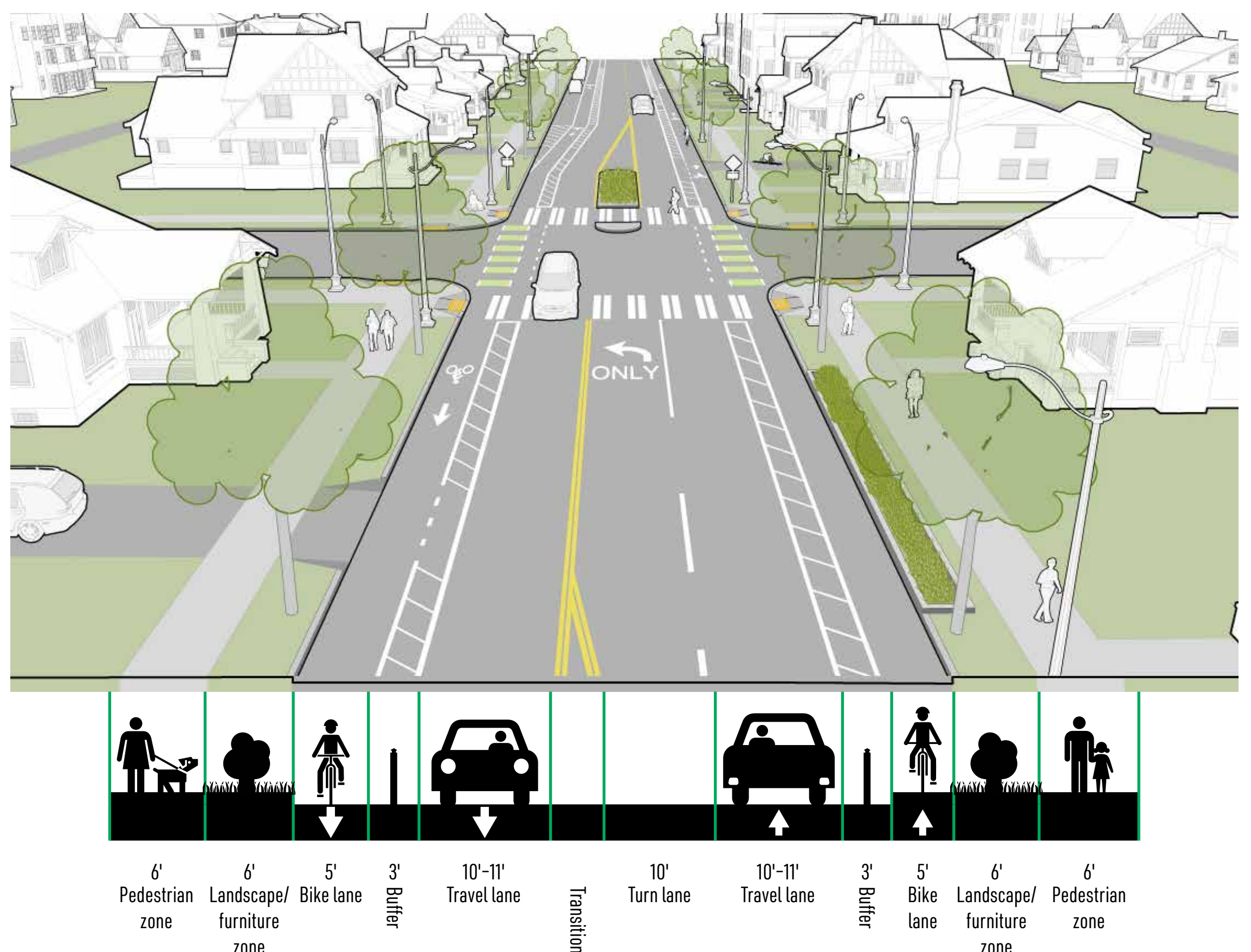
SDOT "street standards" are design criteria that have a significant impact on the livability of the city as well as the health, safety, and welfare of its citizens.

Examples include:

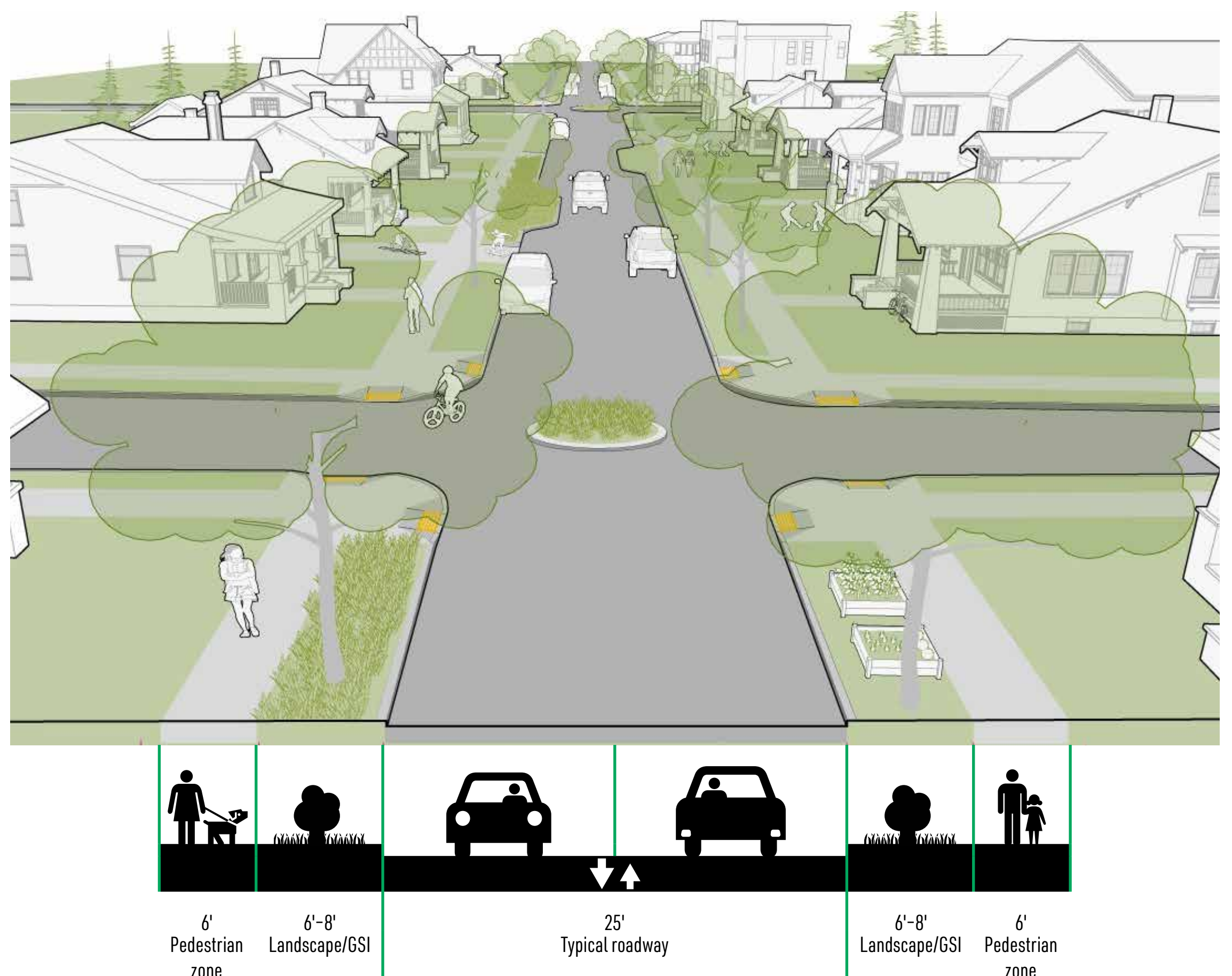
- Width of a sidewalk
- Diameter of a curb radius
- Number and width of traffic lanes
- Location of utilities
- Walking and biking improvements

These illustrations show how street standards could apply to the Thornton Creek bridges.

Street standards for NE 110th St bridge (105)



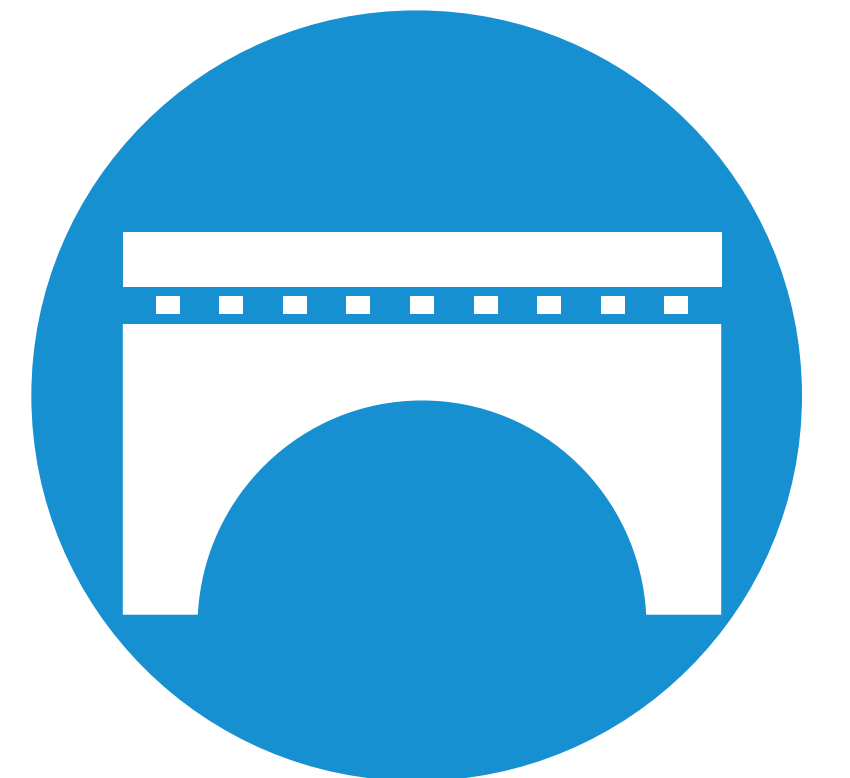
Street standards for NE 105th St bridge (104) and 45th Ave NE bridge (109) and 39th Ave NE bridge (115)



Potential Improvements

Potential improvements to the 4 bridges may include, but are not limited to, the following:

- Increasing bridge widths
- Replacing or rehabilitating existing bridges
- Building new foundation elements
- Planting of landscaping and vegetation
- Adding sidewalks and curb ramps
- Roadway restructuring
- Channel improvements
- Adding protected bike lanes



Stay Informed

We'll share information and seek public input throughout this project.

Your participation will help ensure that bridge designs reflect feedback from the community.



If funding is available, the project will move forward to bridge design.

Project contact

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