

## CITY COUNCIL REGULAR SESSION

Ordinance 1) amending the 2021-2027 General Capital Investment Program (CIP) Plan to create a new project entitled, 148th Avenue SE at Larsen Lake Flood Mitigation Project (CIP Plan No. PW-M-21) with total funding of \$460,000; 2) decreasing the budget for the 150th Avenue SE at SE Newport Way Project (CIP Plan No. PW-R-202) by \$60,000; 3) authorizing execution of an interlocal agreement (and supplements if necessary) with the King County Flood Control Zone District (District) to accept up to \$400,000 in King County funding to support the preliminary design of the 148th Avenue SE at Larsen Lake Flood Mitigation Project; and 4) amending the 2021-2022 General CIP Fund appropriation to increase by \$400,000.

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## EXECUTIVE SUMMARY

This Ordinance creates a new project in the 2021-2027 General CIP Plan entitled, 148<sup>th</sup> Avenue SE at Larsen Lake Flood Mitigation Project and authorizes the acceptance of King County Flood Control Zone District funding to develop preliminary engineering design to reduce or eliminate roadway flooding on 148<sup>th</sup> Avenue SE, between SE 8<sup>th</sup> Street and Main Street, adjacent to Lake Hills Greenbelt, also known as Larsen Lake.

## RECOMMENDATION

Move to adopt Ordinance No. 6650.

## BACKGROUND/ANALYSIS

In spring 2020, the King County Flood Control Zone District (District) announced the availability of flood reduction grant funding focused on projects where the control of stormwater will have a direct benefit in reducing flooding. More specifically, the District was targeting projects that could address either existing or potential flooding that has current or potential economic impacts.

Bellevue's 148<sup>th</sup> Avenue SE at Larsen Lake Flood Mitigation Project appeared to be a good fit for the grant program objectives, as it would help the City conduct a site assessment and initiate preliminary design to reduce or eliminate roadway flooding on 148<sup>th</sup> Avenue SE (the only major north-south arterial in east Bellevue). The work would also help the City identify how to improve high water flow capacity for Larsen Lake/Lake Hills Greenbelt to Kelsey Creek where it floods 148<sup>th</sup> Avenue SE during moderate to severe storm and longer duration rainfall periods.

The following provides additional background on flooding and impacts within the area. From 1999 through 2019, 148<sup>th</sup> Avenue SE near Larsen Lake has been fully or partially closed by the City on 23 separate events following moderate to heavy rain or longer duration rain events due to high water

levels with subsequent flooding at culvert crossings in three separate locations between SE 8<sup>th</sup> Street and Main Street in the City of Bellevue. As the only major north-south arterial in east Bellevue with daily traffic over 33,000 vehicles, a designated truck route, and a critical commuting and emergency services access route between I-90 and SR 520, the City is highly motivated to keep this corridor open and operational without interruption. Adjacent corridors that are impacted by the closures of 148<sup>th</sup> Avenue SE run through residential areas and do not have the capacity to manage the additional vehicles causing major traffic and safety issues. These problems will persist and increase as the roadway continues to sink and deform existing culverts under the roadway.

In addition to roadway impacts and closures on 148<sup>th</sup> Avenue SE, the impacts of flooding are more widespread, threatening park lands, blueberry fields and nearby residences.

In 2018, the City retained Jacobs Engineering Group Inc. to conduct an initial study to investigate the source and impacts of roadway flooding on 148<sup>th</sup> Avenue SE between SE 8<sup>th</sup> Street and Main Street. As part of the study, Jacobs conducted a site reconnaissance, collected survey data, and deployed water level gauges to monitor water level throughout the affected area. This data collection and analysis was conducted to better understand the hydrology of the area, contributing factors to the 148<sup>th</sup> Avenue SE roadway flooding within the Upper Kelsey Creek corridor near Larsen Lake, and proposed mitigation measures to reduce or eliminate roadway and pedestrian path flooding.

With the Jacobs impact study complete, the next step envisioned by the City is to commence the preliminary engineering design to reduce or eliminate roadway flooding in the future. This project will also enable the City to create a healthier water drainage between Larsen Lake/Lake Hills Greenbelt and Upper Kelsey Creek, and strengthen the City's connection and understanding of community interests.

This \$400,000 King County Flood Control Zone District funding was identified for the City on November 4, 2020 through passage of King County Resolution number FCD2020-22 and provides funding in year 2021 for the project identified as "WLFL6 148<sup>th</sup> AVE SE LARSEN LK BELLEVUE." The local funding share of \$60,000 will be provided from savings identified from the 150<sup>th</sup> Avenue SE at SE Newport Way Project (CIP Plan No. PW-R-202). Together these funds will cover the preliminary design cost, estimated at \$460,000. Preliminary design work is anticipated to start in March 2022.

## **POLICY & FISCAL IMPACTS**

### **Policy Impact**

The acceptance of this funding and authorization of the Interlocal Agreement with the King County Flood Control Zone District is consistent with the following policy in the Transportation Element of the Comprehensive Plan:

- TR-136 directs that the City, "Support joint projects, including the contribution of City matching funds, with adjoining cities, King County, the transit providers, or the state, where such partnerships help establish or accelerate projects beneficial to the City."

### **Fiscal Impact**

This action will amend the 2021-2027 General CIP Plan to create a new project entitled, 148<sup>th</sup> Avenue SE at Larsen Lake Flood Mitigation Project (CIP Plan No. PW-M-21) with a total project budget of

\$460,000 to conduct a site assessment, hydraulic modeling, geotechnical and structural analyses, and initiate preliminary design to progress toward construction of best drainage treatments and resilient design to reduce or eliminate roadway flooding on 148<sup>th</sup> Avenue SE, between SE 8<sup>th</sup> Street and Main Street, adjacent to Lake Hills Greenbelt, also known as Larsen Lake. Staff proposes that this project be funded by \$400,000 in King County Flood Control Zone District funds. Staff requests Council authorization tonight to execute the agreement with King County to accept those funds, and a \$60,000 budget transfer from the City's 150<sup>th</sup> Avenue SE at SE Newport Way Project (CIP Plan No. PW-R-202) which is substantially complete and has sufficient budget savings to support PW-M-21. This action will increase the 2021-2022 General CIP Fund appropriation by \$400,000.

## **OPTIONS**

1. Adopt the Ordinance 1) amending the 2021-2027 General Capital Investment Program (CIP) Plan to create a new project entitled, 148th Avenue SE at Larsen Lake Flood Mitigation Project (CIP Plan No. PW-M-21) with total funding of \$460,000; 2) decreasing the budget for the 150th Avenue SE at SE Newport Way Project (CIP Plan No. PW-R-202) by \$60,000; 3) authorizing execution of an interlocal agreement (and supplements if necessary) with the King County Flood Control Zone District (District) to accept up to \$400,000 in King County funding to support the preliminary design of the 148th Avenue SE at Larsen Lake Flood Mitigation Project; and 4) amending the 2021-2022 General CIP Fund appropriation to increase by \$400,000.
2. Do not adopt the Ordinance and provide alternative direction to staff.

## **ATTACHMENTS & AVAILABLE DOCUMENTS**

- A. Vicinity Map
- B. Proposed CIP Project Description (PW-M-21)
- C. CIP Project Description (PW-R-202)  
Proposed Ordinance No. 6650

## **AVAILABLE IN COUNCIL LIBRARY**

King County Flood Control District Interlocal Agreement - Draft  
King County Resolution FCD2020-22