



City of Bellevue

Downtown Bikeway Projects

Assessment and proposed next steps

Paula Stevens | Transportation Department

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Lei Wu | Transportation Commission

May 13, 2019



Direction Needed from Council

Direct the Transportation Commission to evaluate a potential Main Street bike lane project, followed by an update to Council.

AGENDA



Project Background



108th Avenue NE Assessment Report



Refinements to 108th Avenue NE Bikeway



Transportation Commission Letter



Potential Main Street Bike Lane Project



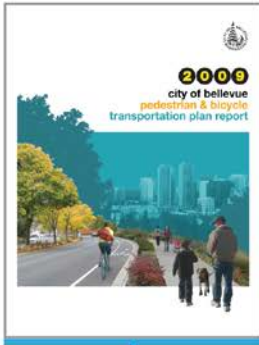
108th Avenue NE Bikeway

- Staff update on the assessment and next steps.
- Receive Council feedback.

Background

PLANNING

2/17/2009



2/9/2015



4/28/2016



11/8/2016



IMPLEMENTATION

1/4/2018



1/11/2018



2/5/2018



7/31/2018



Transportation Commission | 4/12/18

Assessment Framework

Safety

- Collisions
- Perceptions of Safety
- Traffic Conflicts & Interactions

Efficiency

- Motor Vehicle Travel Time
- Bus Delay
- Automobile Delay
- Network Assessment

Livability

- Facility Use
- User Satisfaction
- Bicycle Level of Service
- TNC & Freight Delivery

Assessment Report | Safety

- **No change** in collisions.
- **64% of people driving** (N=762) like that bikes and cars are more separated.
87% of people who bike (N=278) feel safer and more comfortable.
- **18% decrease** in bicycle riding on the sidewalk.

Assessment Report | Efficiency

- **Maintained motor vehicle throughput** at intersections along 108th Avenue NE in Peak Periods.
- **Maintained driver travel times** – for both cars and buses – along 108th Avenue NE in Peak Periods.
- **Avoided shifting traffic to other streets** in Downtown Bellevue.

Assessment Report | Livability

- **35% increase** in bicycle ridership.
- **Highest number of trips** by bikeshare users of any street in Bellevue.
- **56% of people who have biked** along 108th Ave NE agree that additional physical separation is warranted to enhance the experience.

Project Refinements



position on the left side of the box)
WHEN THE LIGHT TURNS GREEN: Cyclists in the bike box proceed through the intersection first, followed by motorists.

At a bike box...

Do this!

Bicyclists should move from the bike lane into the bike box, in front of cars. Video detection will activate the green light for cyclists in the box. Cars should always stop behind the stop bar and wait for the signal to turn green and for all bicyclists to clear the bike box before proceeding through the intersection.



Transportation Commission | 3/28/19

The Transportation Commission voted four in favor and two opposed to retain the 108th Avenue NE Bikeway and to implement refinements to the corridor per community feedback and staff observations.



Transportation Commission

TRANSMITTAL

May 13, 2019

RE: Downtown Demonstration Bikeway Project Assessment and Next Steps

Honorable Mayor Chelminiak and City Councilmembers:

Transportation Commission members are honored by your trust and confidence in selecting us to oversee the Pedestrian and Bicycle Implementation Initiative (PBII). In this capacity, we have been guided by Council's program principles as we collaborate with staff and the community to advance the PBII scope of work.

At our March 28, 2019 meeting, with a vote of four in favor and two opposed, the Transportation Commission endorsed the staff recommendation to retain the 108th Avenue Northeast Demonstration Bikeway with refinements to the design per community feedback and staff observations. The Commission recommendation is informed by the Downtown Demonstration Bikeway Assessment Report that offers comprehensive insight into project impacts and benefits – measurable and perceived – on all street users. To assist the Commission in its evaluation of the demonstration project, staff compiled data from pavement loop detectors, bluetooth readers, thermal sensors, video analytics, attitudinal questionnaires, street level and video observations, and conversations with residents, businesses, transit coach operators, and other stakeholders.

Commissioners voting in favor of the March 28 staff recommendation determined that the installation of the demonstration bikeway had a positive impact on community outcomes in safety, efficiency, and livability including an overall positive impact on multimodal travel. Commissioners observed that the 108th Avenue Northeast Demonstration Bikeway is a step in the right direction towards the development of a north-south bicycle route through downtown that connects to the regional network. In conclusion, the corridor can be regarded as a success to date.

Commissioners voting against the March 28 staff recommendation determined that: "(i) there are no significant safety benefits identified; (ii) there is no significant increase in bicycle usage on 108th Ave. NE related to the demonstration bikeway project; (iii) bus operations have been negatively impacted; and, (iv) the insignificant increase in bike trips does not warrant the loss of mobility for other travel modes." In conclusion, Commissioners voting against the staff recommendation proposed that "the demonstration bikeway on 108th Ave. NE be removed, and the pre-existing vehicle travel lanes be re-established."

The Transportation Commission recognizes it must consider the broader context within which the transportation network evolves—how it preserves and enhances economic vitality, community character, human health, and environmental resources—in addition to serving peoples' mobility needs. Given these considerations, the Transportation Commission voted to retain the 108th Avenue Northeast Bikeway and to implement refinements to the corridor per community feedback and staff observations. Transportation Levy funds are available to implement the 108th Avenue Northeast Bikeway refinements.

Sincerely,

A handwritten signature in blue ink that appears to read "Lei Wu".

Lei Wu
Chair, Transportation Commission

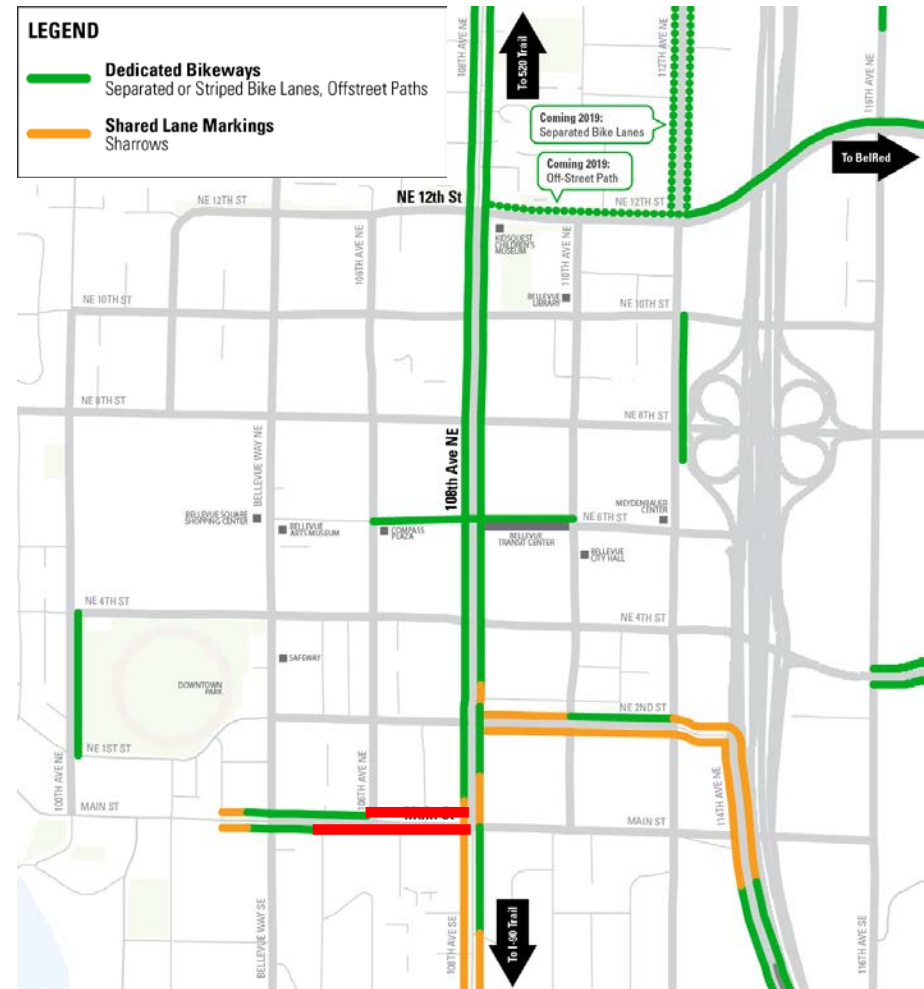


Potential Main Street Bike Lanes

Transportation Commission seeks City Council direction to evaluate a potential Main Street bike lane project, followed by an update to Council.

Main Street | Potential Next Step

In 2019-2020, the BRIP program has Levy funding to implement one or more additional bikeways in downtown.



Main Street | Potential Next Step

Pending City Council direction:

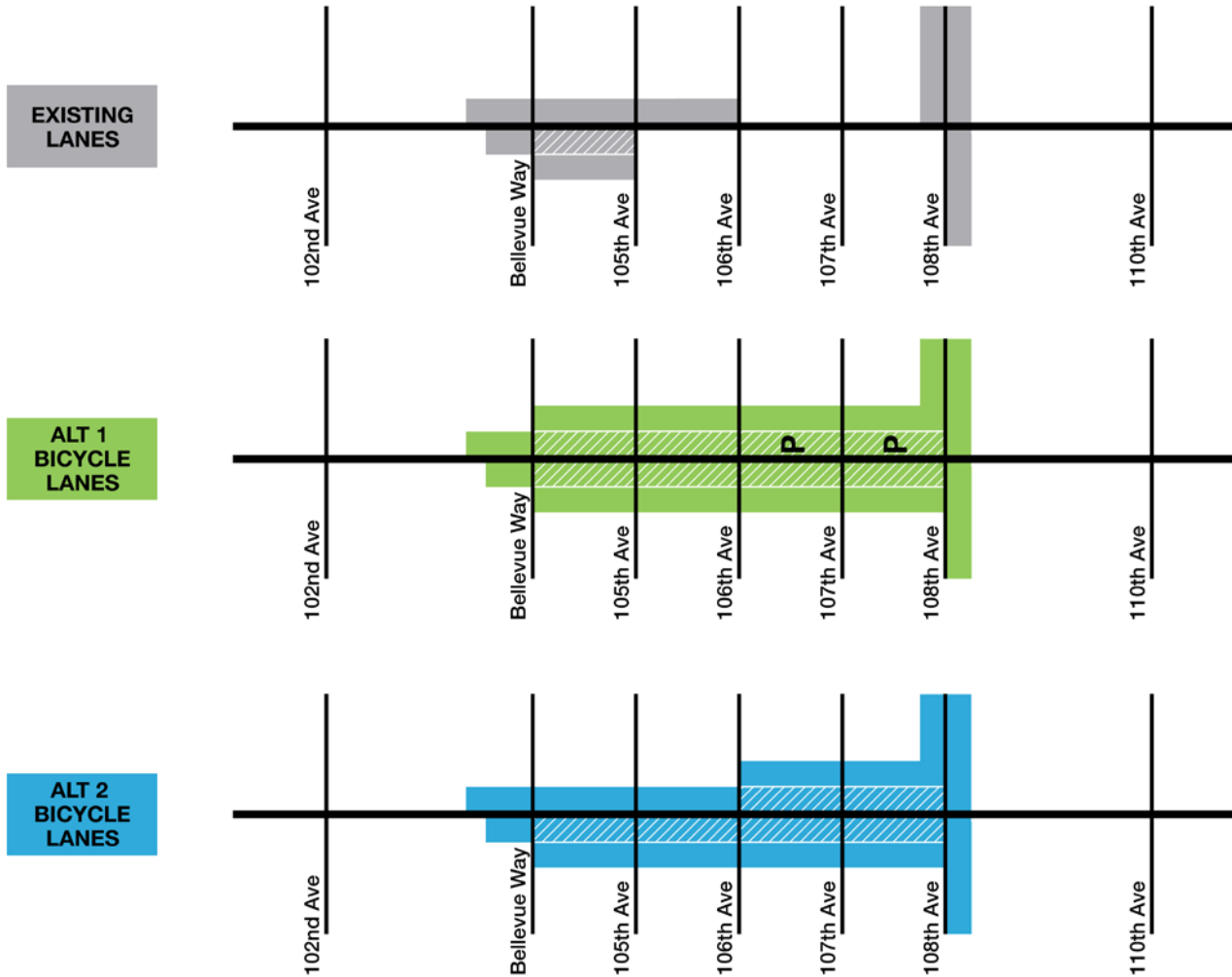
- May 23 – Bellevue Transportation Commission
- June 5 – BDA Transportation Committee
- July 8 – Bellevue City Council



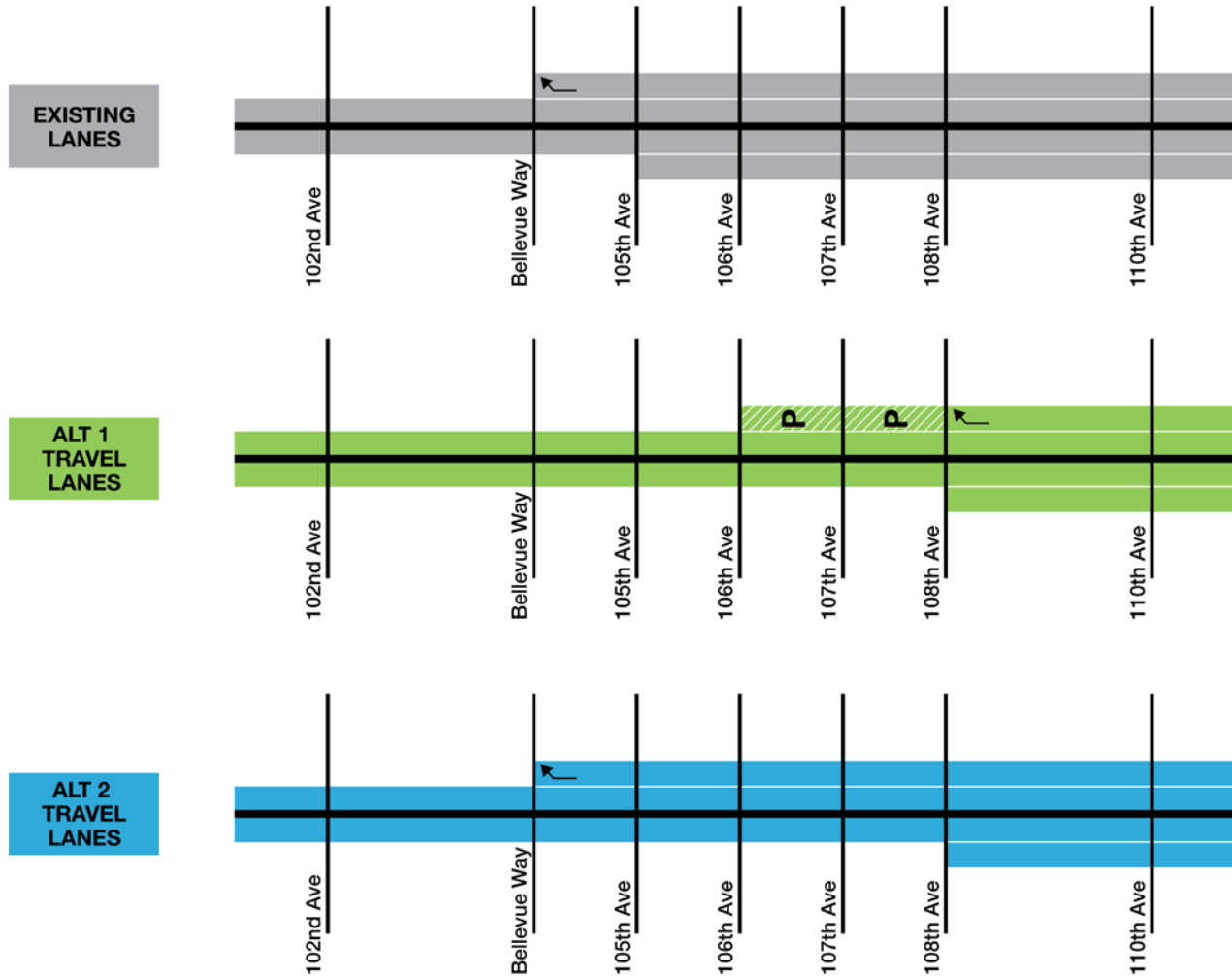
Direction Needed from Council

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Main Street Concept | Bicycle Lanes



Main Street Concept | Travel Lanes



Main Street | Travel Time

Direction	Existing	Alternative 1	Alternative 2
Eastbound (Bellevue Way to 108th)	2.3 mins	2.4 mins	2.3 mins
Westbound (108th to Bellevue Way)	1.7 mins	2.6 mins	1.7 mins

Main Street | Level of Service

Intersection	Existing		Alternative 1		Alternative 2	
Bellevue Way/ Main St	54.6 secs	D	55.0 secs	D	51.8 secs	D
106th/Main St	21.7 secs	C	39.7 secs	D	21.0 secs	C
108th/Main St	17.6 secs	B	35.5 secs	D	24.5 secs	C