South Downtown I-405 Access Study

Stakeholder Forum #4 February 4, 2021









Barrett Hanson Study work group, WSDOT



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Shuming Yan Project manager, Bellevue Transportation Department

Emil King Study work group, Bellevue Community Development Department

Panelists









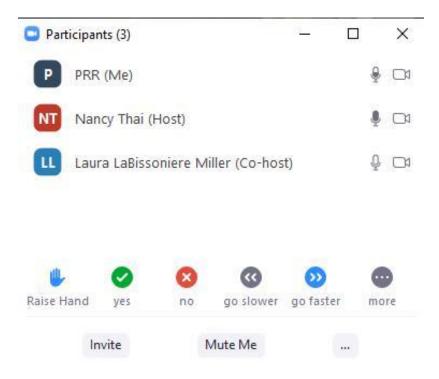
Marie Jensen Public involvement manager, Bellevue Transportation Department Laura LaBissoniere Miller, Community engagement – forum facilitator, PRR Nancy Thai, Community engagement – forum support, PRR

Facilitation and support



Zoom overview

✓ Raise your hand
✓ Chat with panelists
✓ Technical issues? Email nthai@prrbiz.com





Agenda

- 1. Welcome and review meeting objectives
- 2. Recap stakeholder engagement process
- 3. Review stakeholder feedback from forum #3
- 4. Share findings from Tier 2 evaluation analysis
- 5. Discussion and Q&A
- 6. Next steps



Tonight's objectives

- Share Tier 2 evaluation findings, including qualitative and quantitative analysis
- Discuss plan and policy considerations identified at previous stakeholder meetings
- Gather input to inform study team's recommendation to City Council



Stakeholder engagement recap

Forum #1:

- Overview of study goals, guiding principles, process and timeline
- Shared project purpose and need

Forum #2:

- Introduced alternatives
- Shared Tier 1 fatal flaw screening results

Forum #3:

- Shared more fatal flaw screening results
- Shared staff recommendation of five alternatives for the Council's consideration

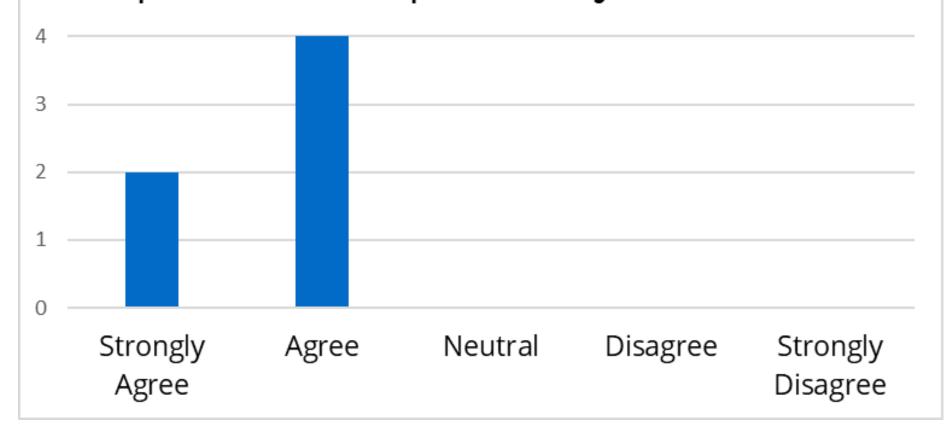
Thank you for your input during and after each forum!



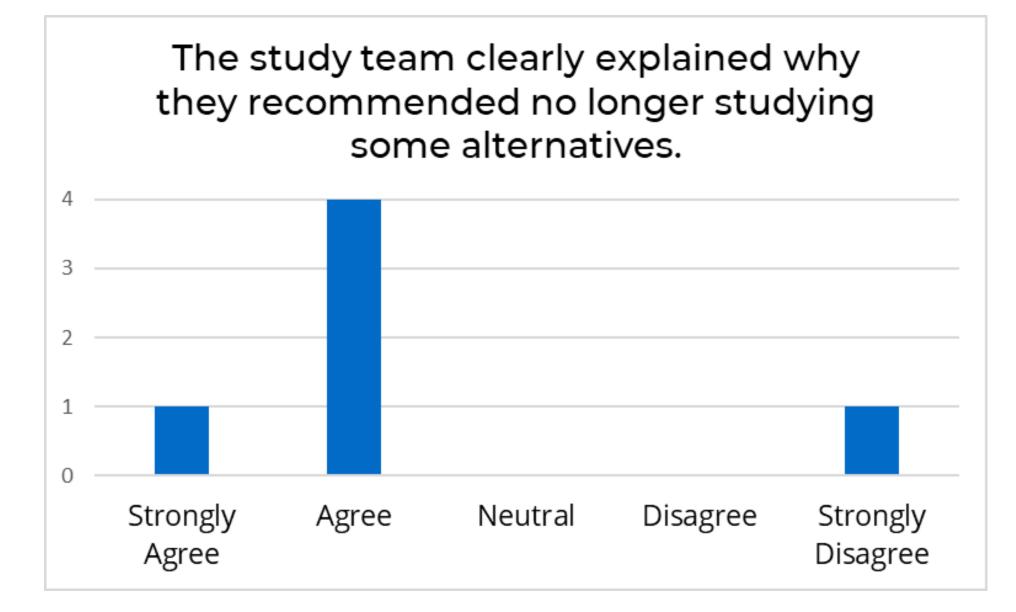
Stakeholder forum #3 feedback



The study team clearly explained the findings from the conceptual design phase for each preliminary alternative.

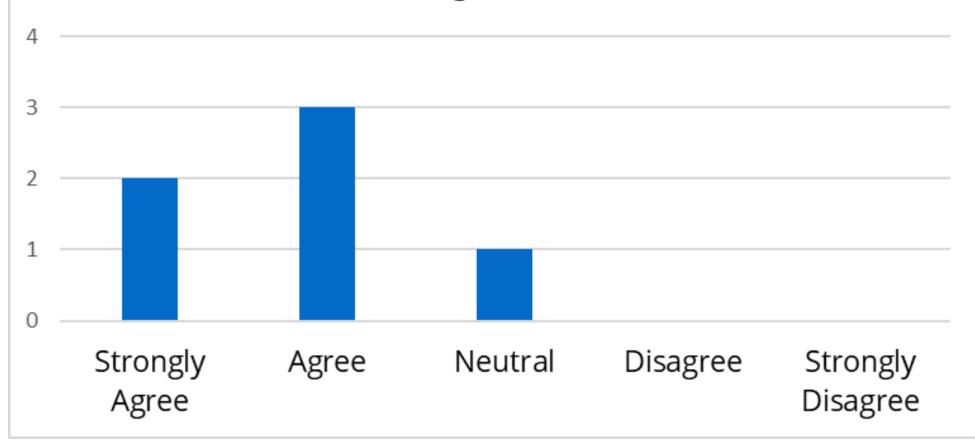






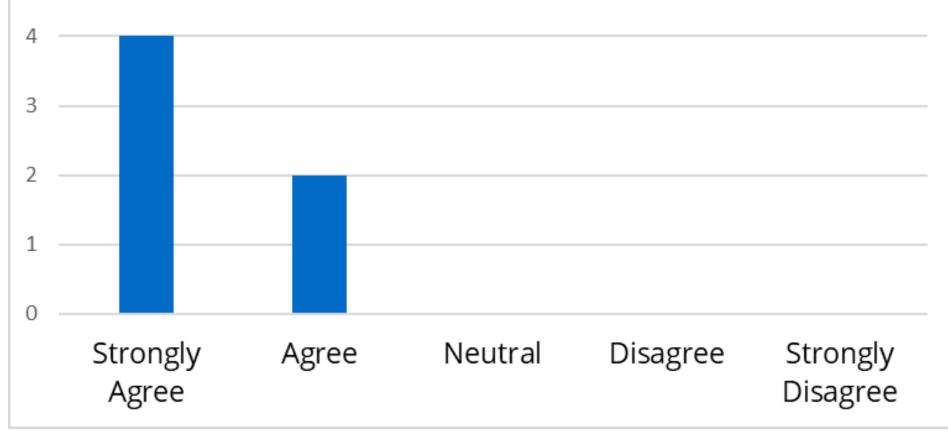


The study team clearly explained how they will continue to evaluate the remaining alternatives.



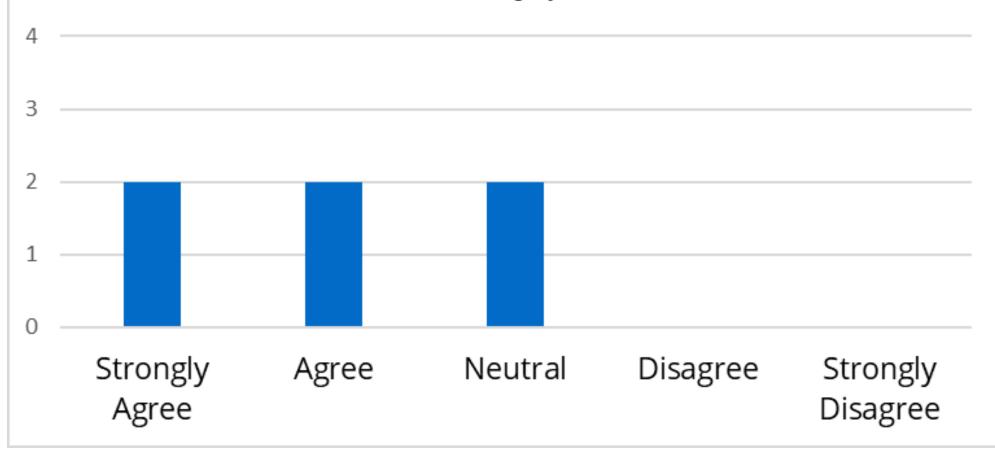


The study team clearly described how to share input during and after the stakeholder forum.





I am confident the city will consider the needs and concerns of all stakeholders in the study process.





Additional feedback

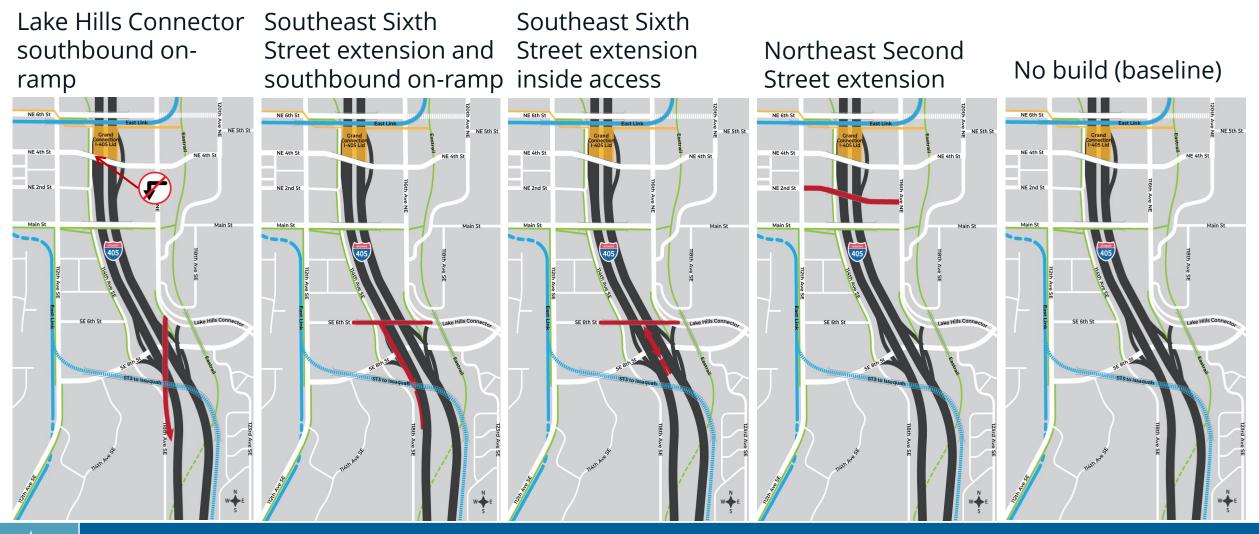
- Concern about advancing Northeast Second Street extension
- Interest in combining Northeast Second Street extension and Lake Hills Connector southbound on-ramp options
- Interest in traffic modeling results
- Question about why Northeast Fourth Street westbound left turn to southbound on-ramp is restricted on Lake Hills Connector southbound on-ramp alternative
- Support for study team's transparent approach



Tier 2 evaluation findings

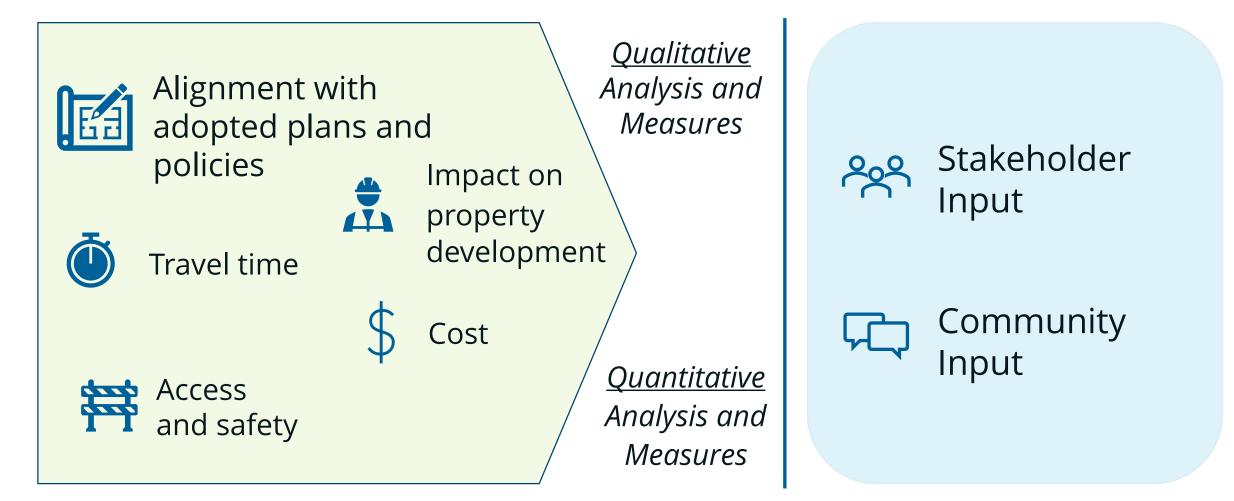


Alternatives evaluated in Tier 2





Tier 2 – Alternatives evaluation





Alignment with adopted plans and policies



Alignment with regional and local transportation plans

- All alternatives, except No build, align with state and regional plans
- Lake Hills Connector southbound on-ramp

o Auto access only; no bike lanes and sidewalks, no east-west connection

Southeast Sixth Street extension options (southbound on-ramp and inside access)

 $_{\odot}$ New access to I-405, multimodal with east-west connection

Northeast Second Street extension

- \circ Multimodal with east-west connection
- \circ No new freeway access

• No build

 $_{\odot}$ Does not include vehicle capacity to support future growth



Alignment with land use and urban design plans and policies

- Lake Hills Connector southbound on-ramp
 - $_{\odot}$ No significant policy conflict
- Southeast Sixth Street extension options (southbound on-ramp and inside access)
 - $_{\odot}$ East Main transit-oriented development work did not anticipate ramps at Southeast Sixth Street
- Northeast Second Street extension
 - \circ No new access to support growth
 - \circ Reduces redevelopment potential

• No build

 \circ No new access to support growth



Alignment with existing environmental codes and policies

Lake Hills Connector southbound on-ramp

 $_{\odot}$ Permanent impacts from shade, lighting, noise and water quality

Southeast Sixth Street extension options (southbound on-ramp and inside access)

Likely temporary impacts to wetlands during construction
Permanent impacts from shade, lighting, noise and water quality

Northeast Second Street extension

- $_{\odot}$ Permanent wetland and stream impacts
- $_{\odot}$ Permanent impacts from shade, lighting, noise and water quality

\circ No build

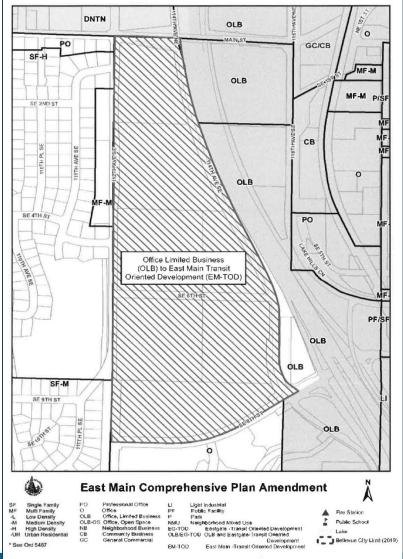
 $_{\odot}$ Maintains existing conditions – no environmental impacts



East Main Transit-Oriented Development Vision

- 2019 Comprehensive Plan policies
- Southeast Sixth Street extension ramp alternatives require policy changes







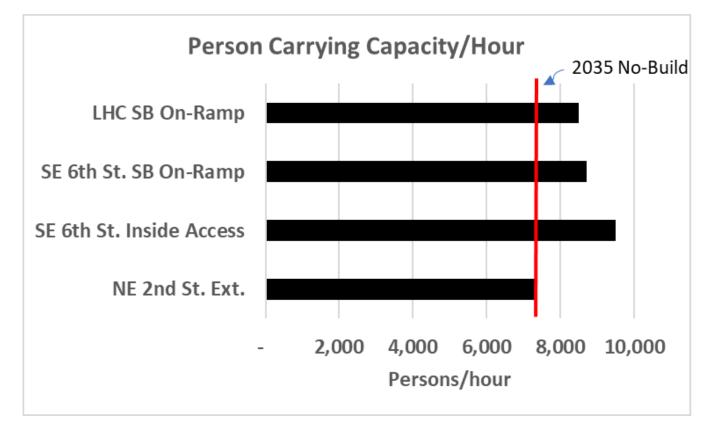


Travel time



I-405 access capacity (2035)

 Southeast Sixth Street extension inside access provides highest capacity with both on- and off-ramps



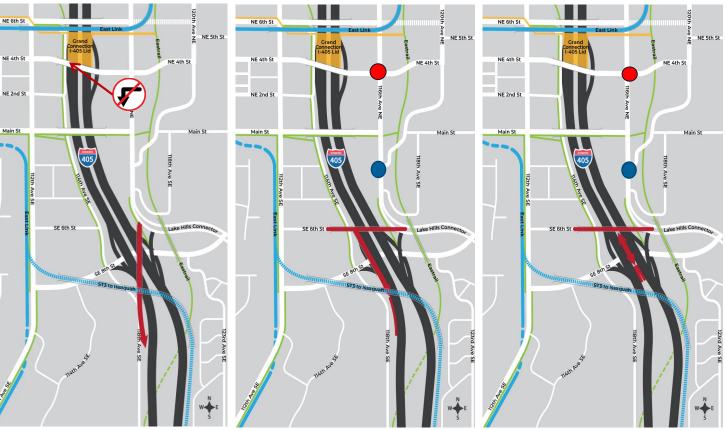


Additional intersection improvements

- Rechannelization, convert westbound left turn on-ramp to westbound through
- Add eastbound and westbound left-turn lanes
- Rechannelize to provide an exclusive left-turn lane

Lake Hills Connector Southeast Sixth southbound onramp

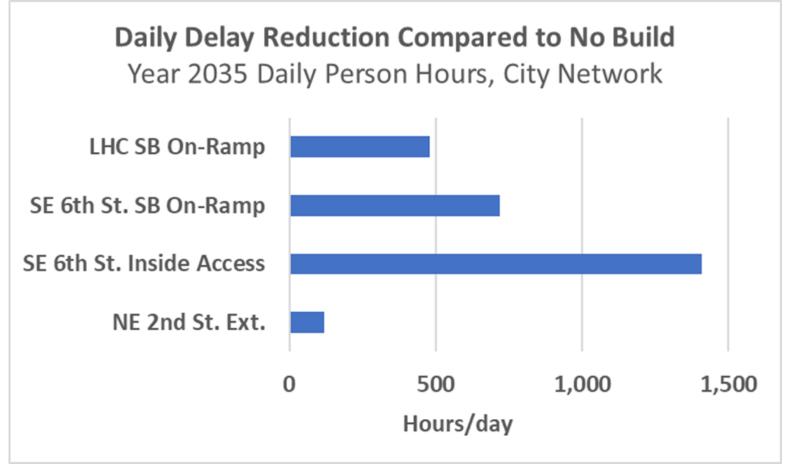
Southeast Sixth Street extension and Street extension southbound on-ramp inside access





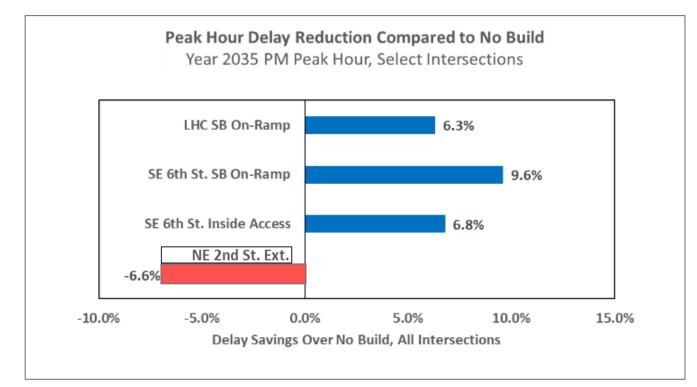
City wide travel time savings

- Daily travel time for all roads in Bellevue
- Southeast Sixth Street extension inside access saves most travel time

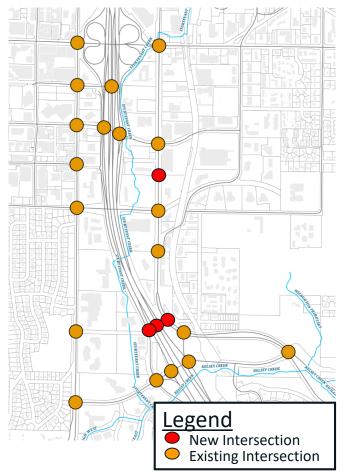




Intersection delay reductions



Intersections evaluated





Access and safety



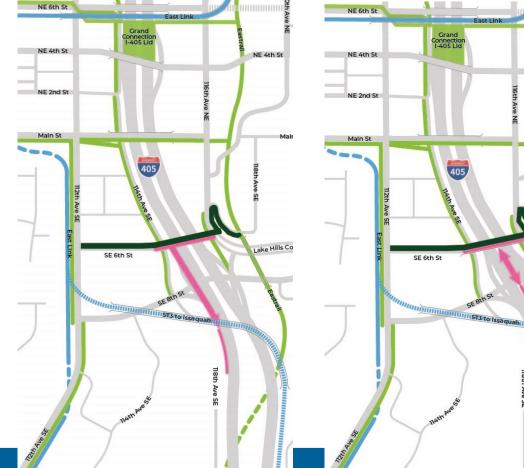
Multimodal access

- Separate bicycle lane and sidewalks make it easier for people to walk and bike
- New connection across I-405
- Lake Hills Connector and No Build do not add facilities for people walking and biking

<u>Legend</u>

- New sidewalk/separate bike lane
 - Light rail
 - Trail
 - Study alternative

Southeast Sixth Street extension and southbound on-ramp



Southeast Sixth Street extension inside access

NE 4th St

ake Hills Co



Northeast Second

Street extension



Safety

- Crash rates on local roadways are 20 percent higher than freeways. More access to freeways helps improve safety on local roadways
- Reducing congestion helps prevent rear-end crashes, which account for 30 percent of crashes in the study area
- Separate bicycle lanes and sidewalks improve safety for people walking and biking

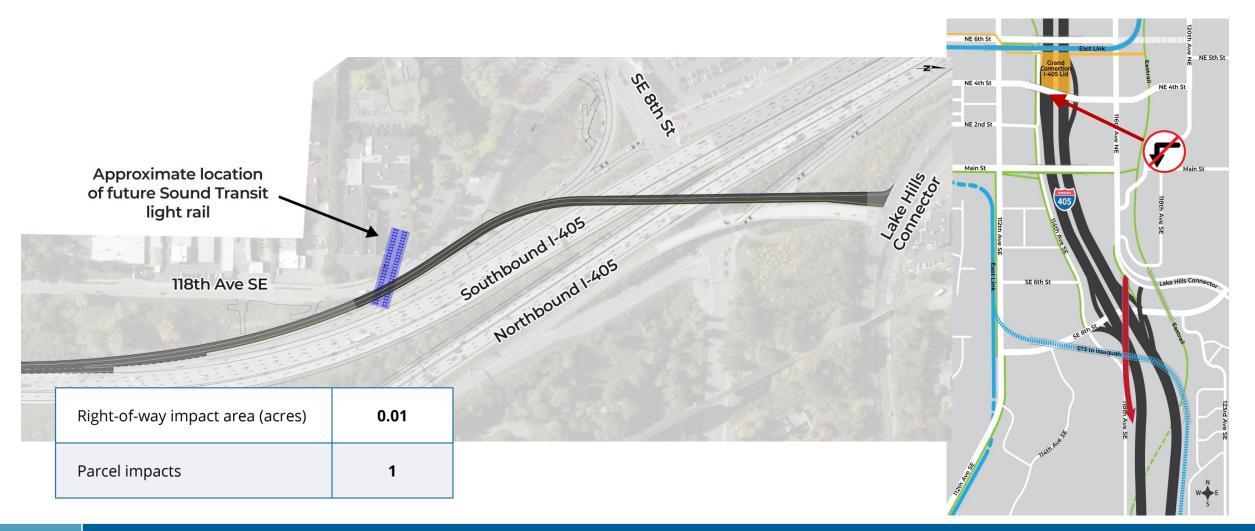




Impact on property development

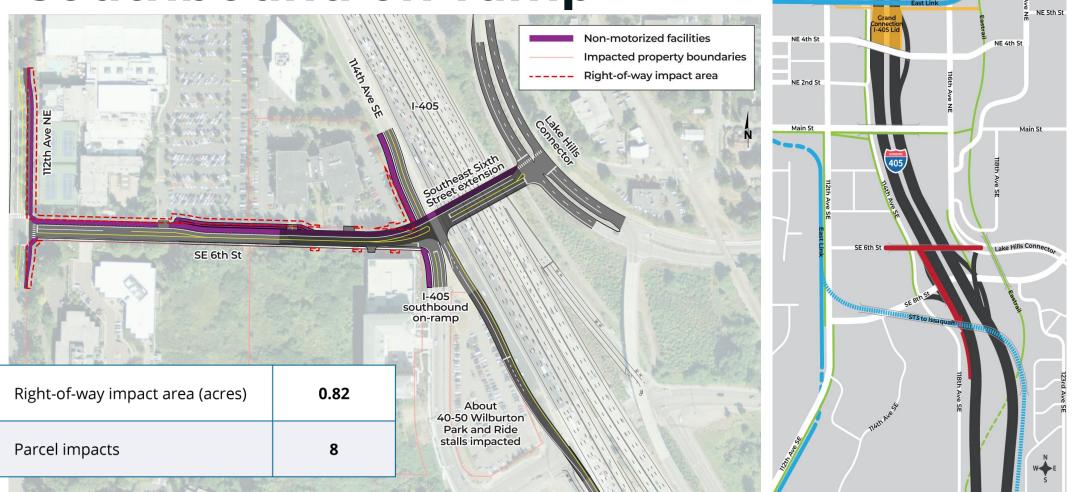


Lake Hills Connector southbound on-ramp



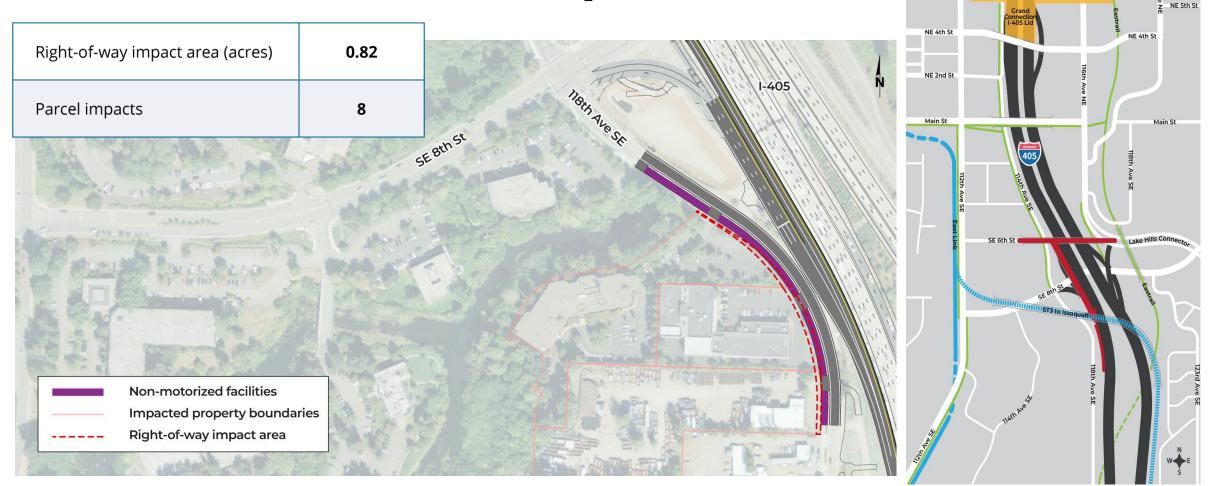


Southeast Sixth street extension and southbound on-ramp



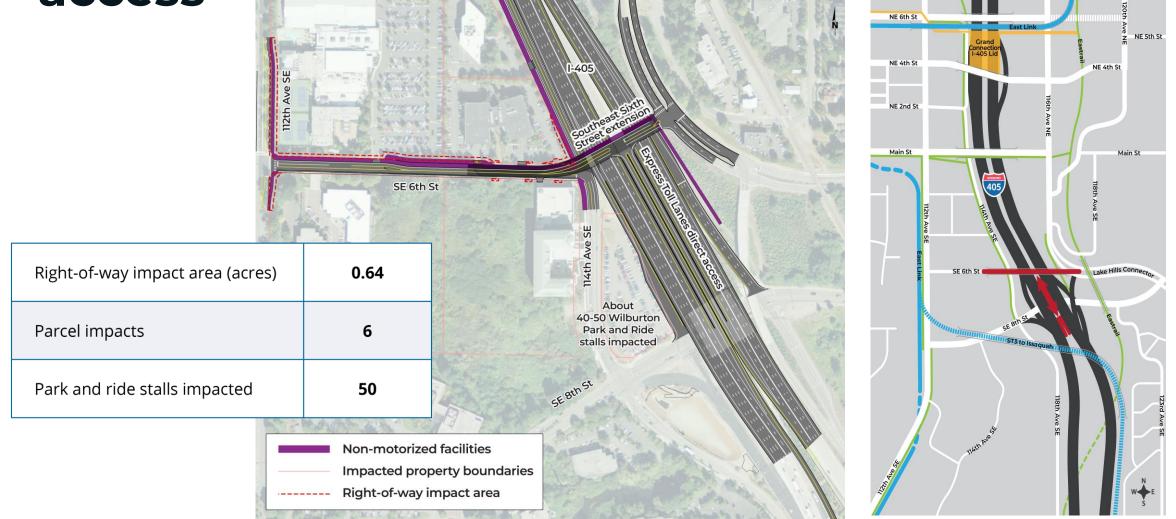


Southeast Sixth street extension and southbound on-ramp





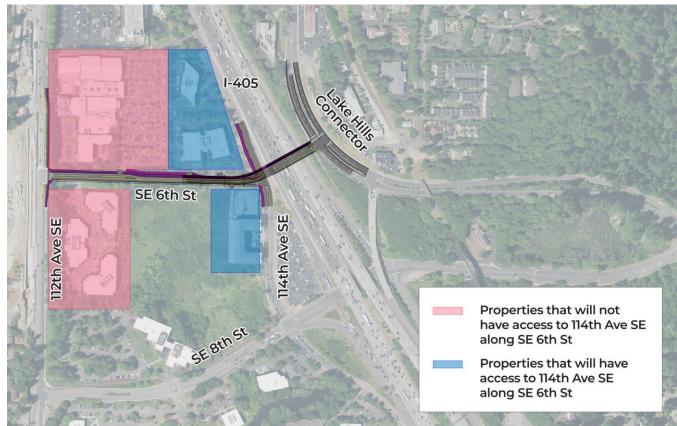
Southeast Sixth Street extension inside access





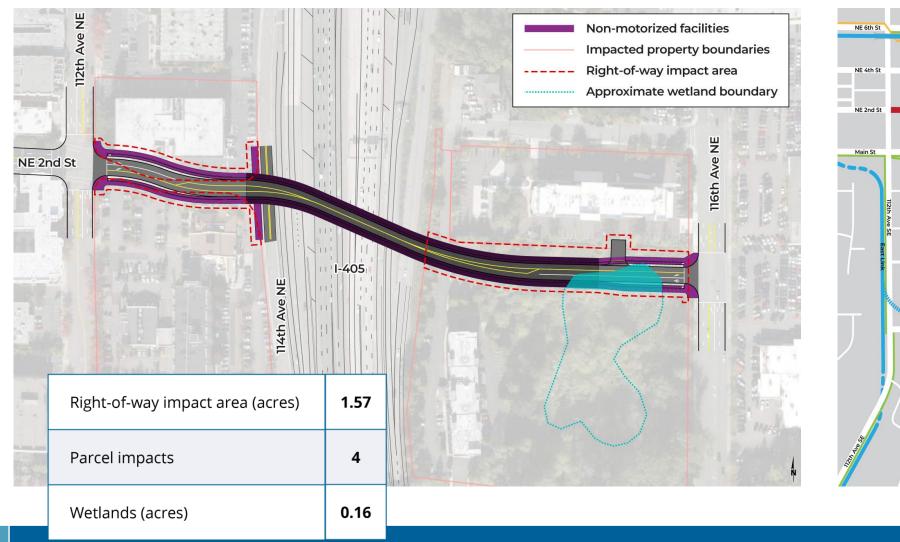
Southeast Sixth Street extension access property impacts

- Southeast Sixth Street connects to 112th Avenue Southeast and Lake Hills Connector, no connection to 114th Avenue Southeast
- Provides property access road under the bridge for the elevated Southeast Sixth Street





Northeast Second Street extension



NE 5th St

NE 4th St

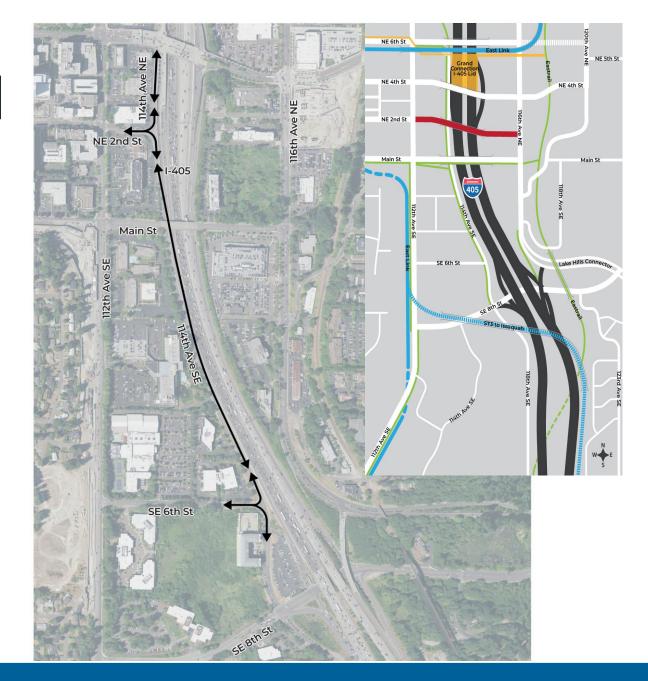
Main St

ake Hills Co

SE 6th St

Northeast Second Street extension

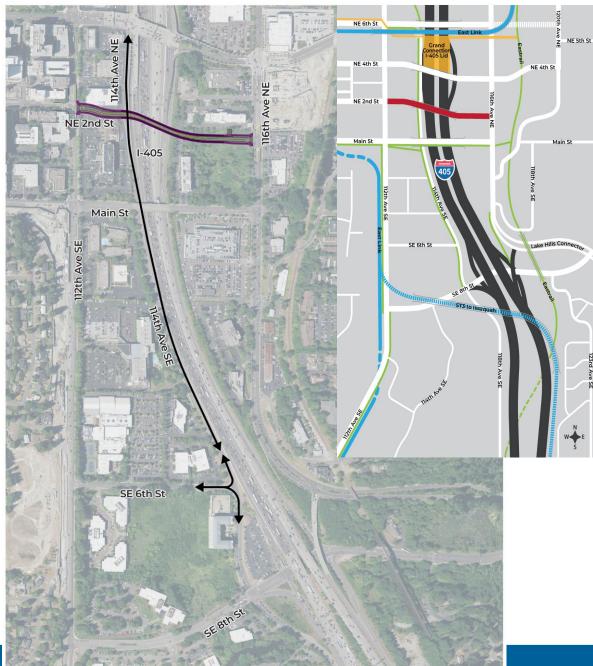
- Requires elevating roadway over 114th Avenue Northeast and I-405 to connect with 116th Avenue Northeast
- Properties with access on 114th Avenue Southeast must use Southeast Sixth Street to connect to north and downtown





Northeast Second Street extension

- Requires elevating roadway over 114th Avenue Northeast and I-405 to connect with 116th Avenue Northeast
- Properties with access on 114th Avenue Southeast must use Southeast Sixth Street to connect to north and downtown









Planning level cost estimates

Alternatives	Cost*
Lake Hills Connector southbound on-ramp	\$150 million
Southeast Sixth Street extension and southbound on-ramp	\$175 million
Southeast Sixth Street extension inside access	\$325 million
Northeast Second Street extension	\$125 million

*Cost estimate based on escalation to 2030 construction. Includes engineering, right-of-way, and construction costs. Right-of-way costs assume acquisition prior to redevelopment



Putting it all together

We evaluated the five alternatives based upon:

- Alignment with adopted plans and policies
- Travel time
- Access and safety
- Property and environmental impacts
- Costs

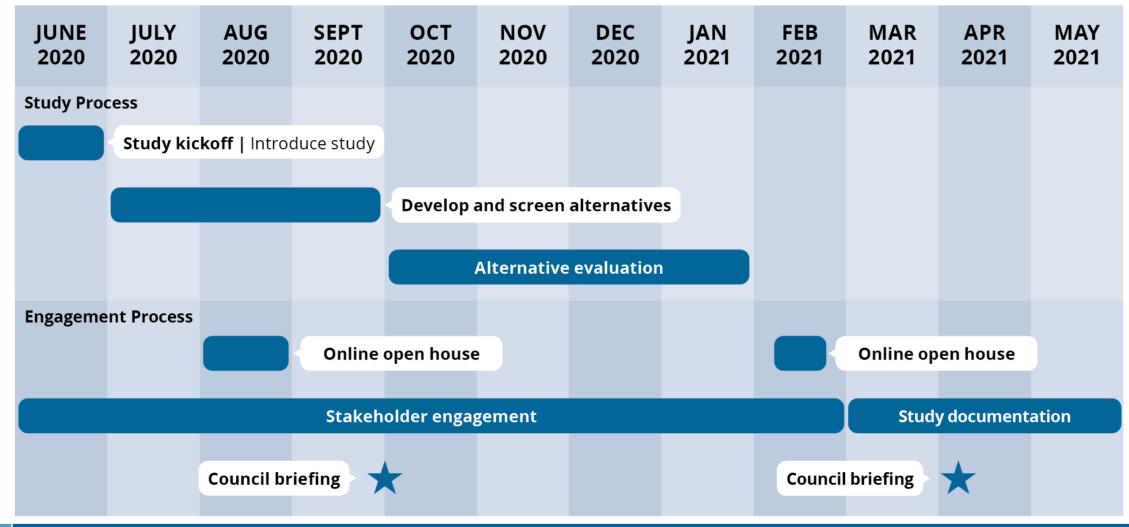
We are looking for your feedback and input



Discussion and Q&A



Study schedule





Next steps

- Stakeholder questionnaire (due Monday, Feb. 8)
- Online open house: Feb. 8-19
- City Council meeting: April 5
- For more information, visit <u>BellevueWA.gov/access-study</u>



Thank you!

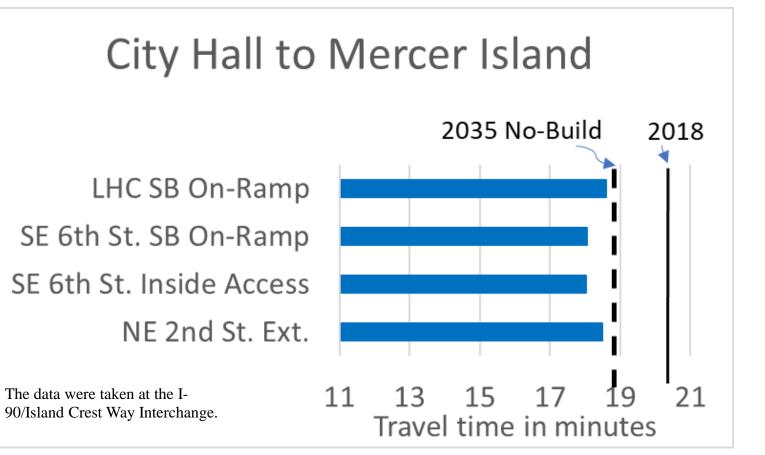


Appendix Additional traffic information



Travel time between major destinations Relative to 2035 No build

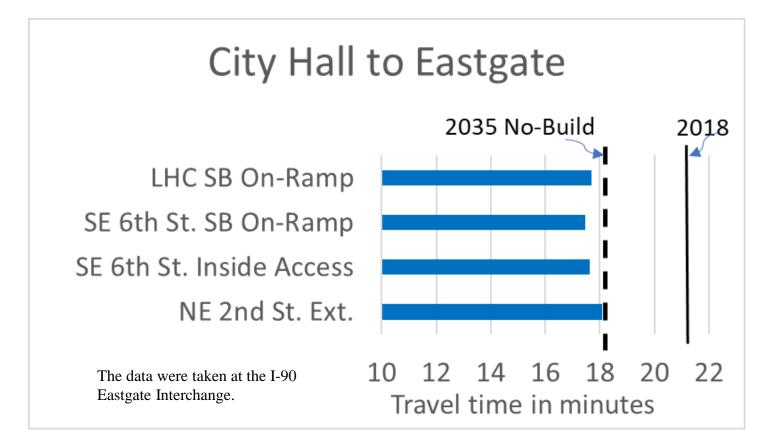
For trips going from City Hall to I-90 westbound, the two Southeast Sixth Street extension alternatives are expected to save one minute/vehicle in travel time while allowing more people to use the freeway





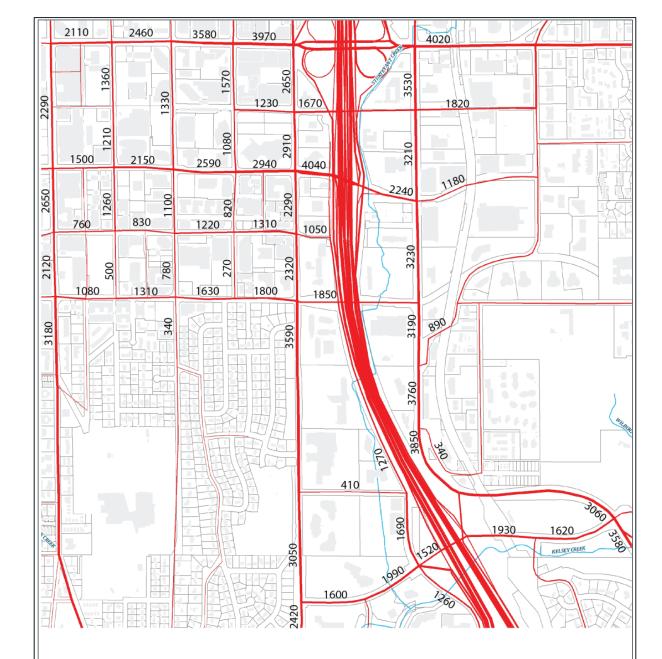
Travel time between major destinations Relative to 2035 No build

For trips going from City Hall to I-90 eastbound, the three alternatives that provide access to I-405 are expected to save about half-a-minute/vehicle in travel time while allowing more people to use the freeway





No build 2035 traffic forecast (PM Peak Hour)

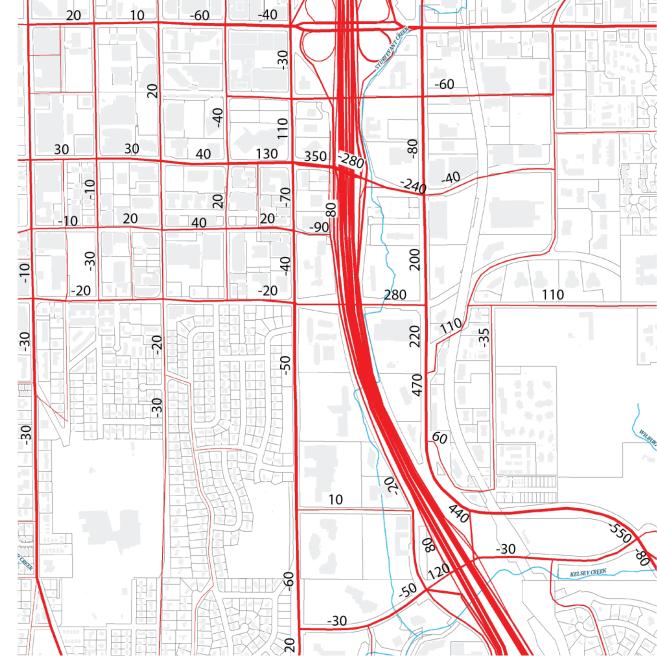


2035 PMPKHR Baseline Model Volume



2035 Traffic Comparison: Lake Hills Connector southbound on-ramp vs No build (PM Peak Hour)

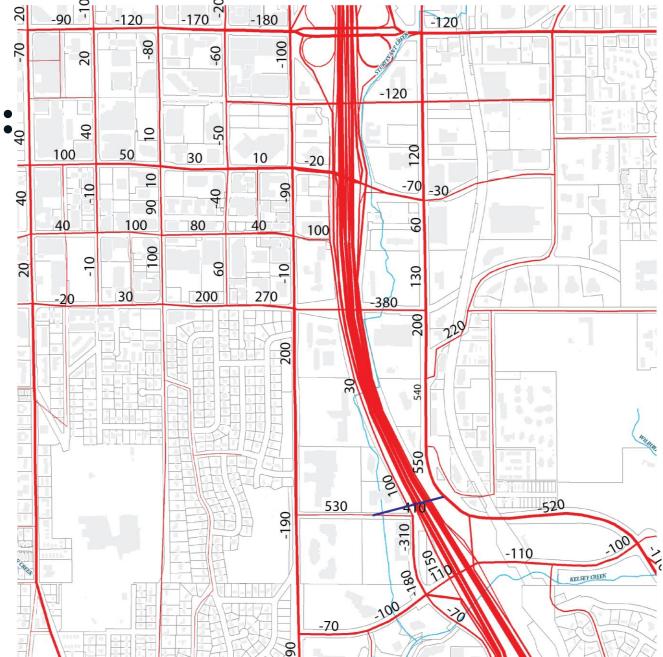
Changes of less than ten trips/hour are not shown. The changes on most local streets are small and within daily volume fluctuations.





2035 Traffic Comparison: Southeast Sixth Street Extension Inside Access vs No build (PM Peak Hour)

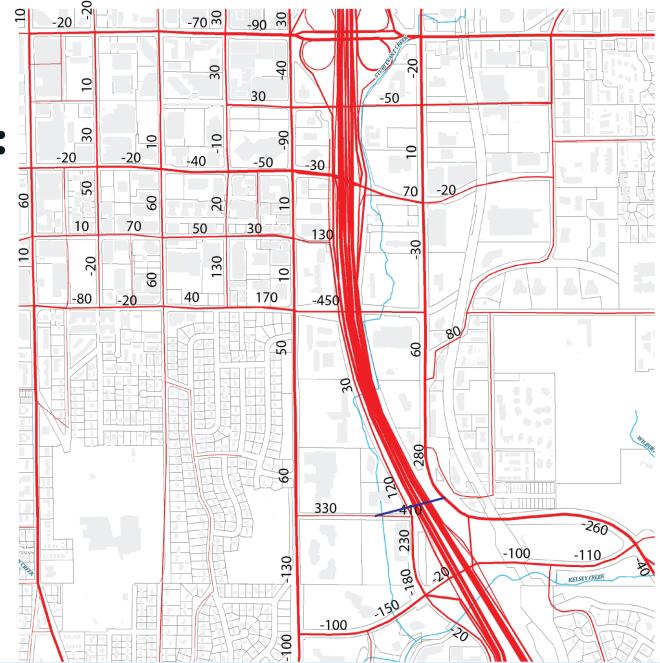
Changes of less than 10 trips/hour are not shown. The changes on most local streets are small and within daily volume fluctuations.





2035 Traffic Comparison: Southeast Sixth Street Extension southbound on-ramp vs No build (PM Peak Hour)

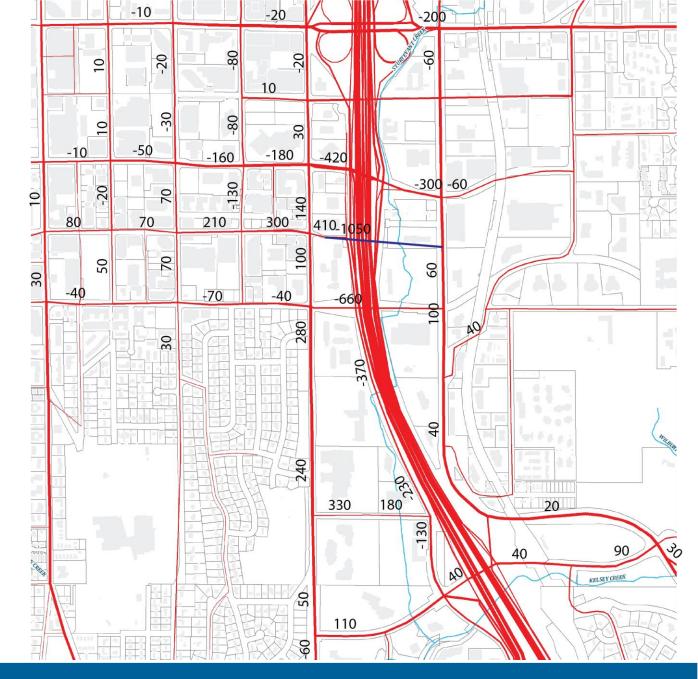
Changes of less than ten trips/hour are not shown. The changes on most local streets are small and within daily volume fluctuations.





2035 Traffic Comparison Northeast Second Street Extension vs No build (PM peak hour)

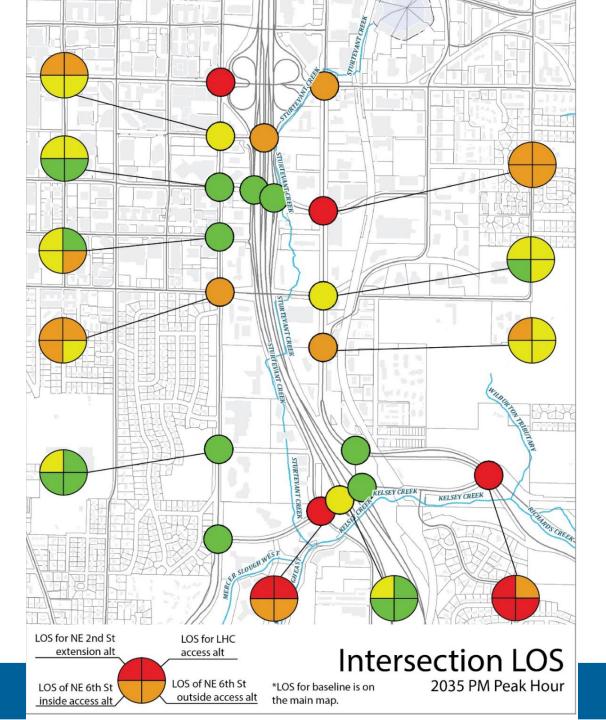
Changes of less than ten trips/hour are not shown. The changes on most of local streets are small and within daily volume fluctuations.





Intersection Analysis 2035 (PM peak hour)

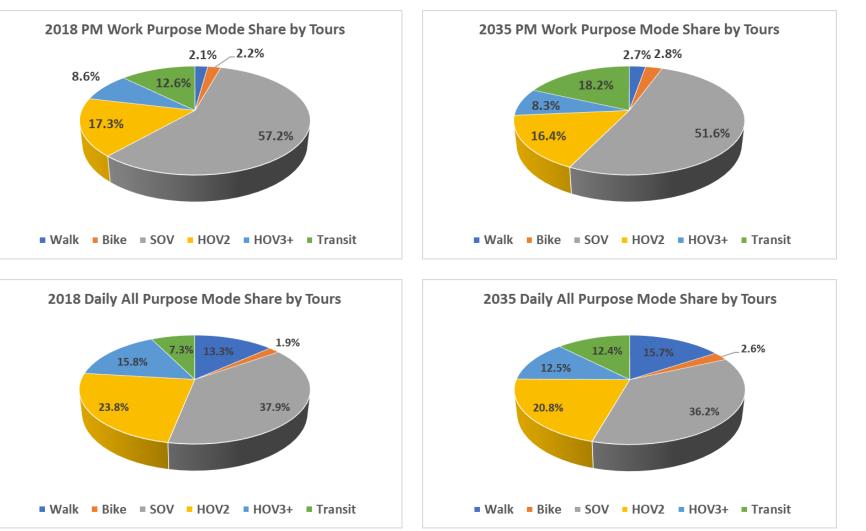
Alternatives	Change
NE 2nd St. Ext	6.6%
LHC SB Ramp +improvements	-6.3%
SE 6th Inside Access +improvements	-6.8%
SE 6th GP Ramp +improvements	-9.6%



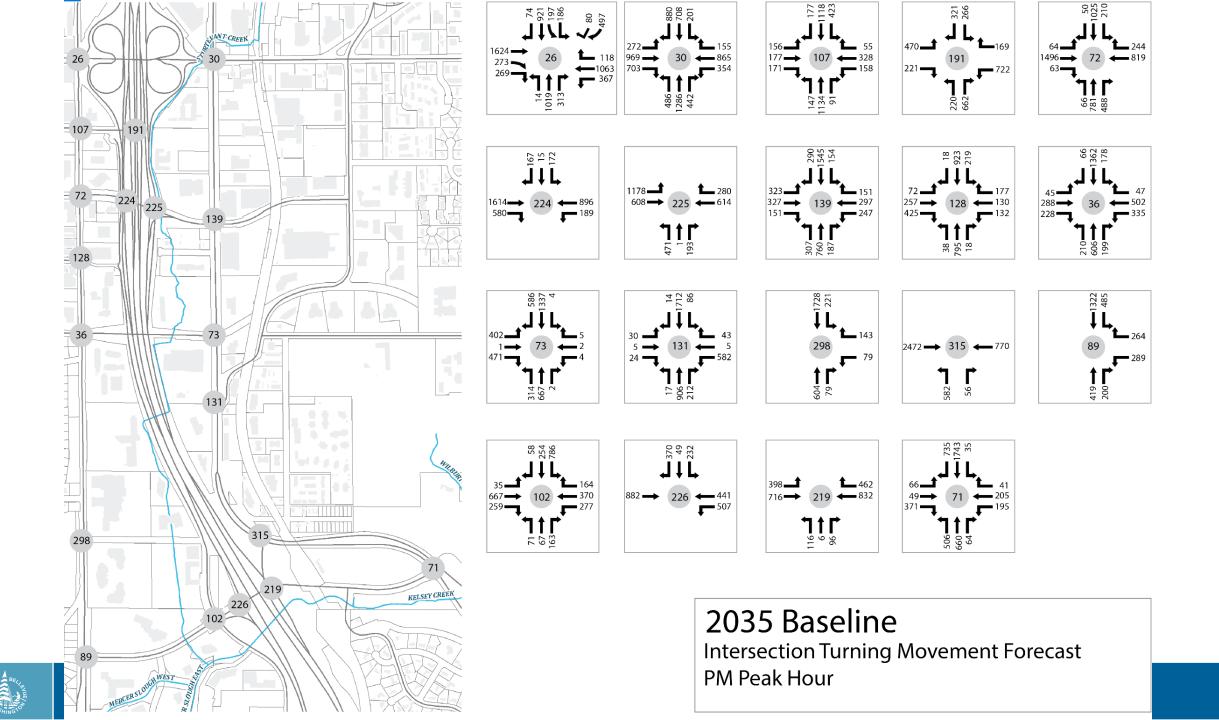


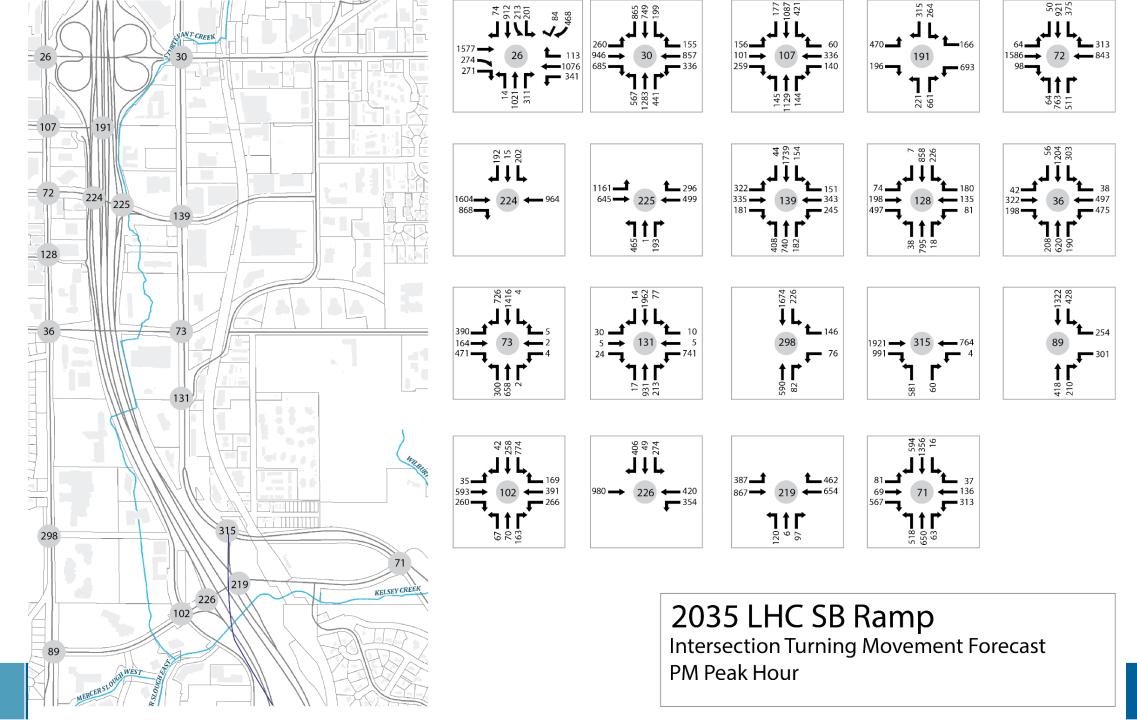
2035 Mode Share in the study area

- Single-occupancy vehicle (SOV) mode share for work trips is expected to decrease from 57% to 52%
- SOV mode share for all trips is expected to decrease from 38% to 36%

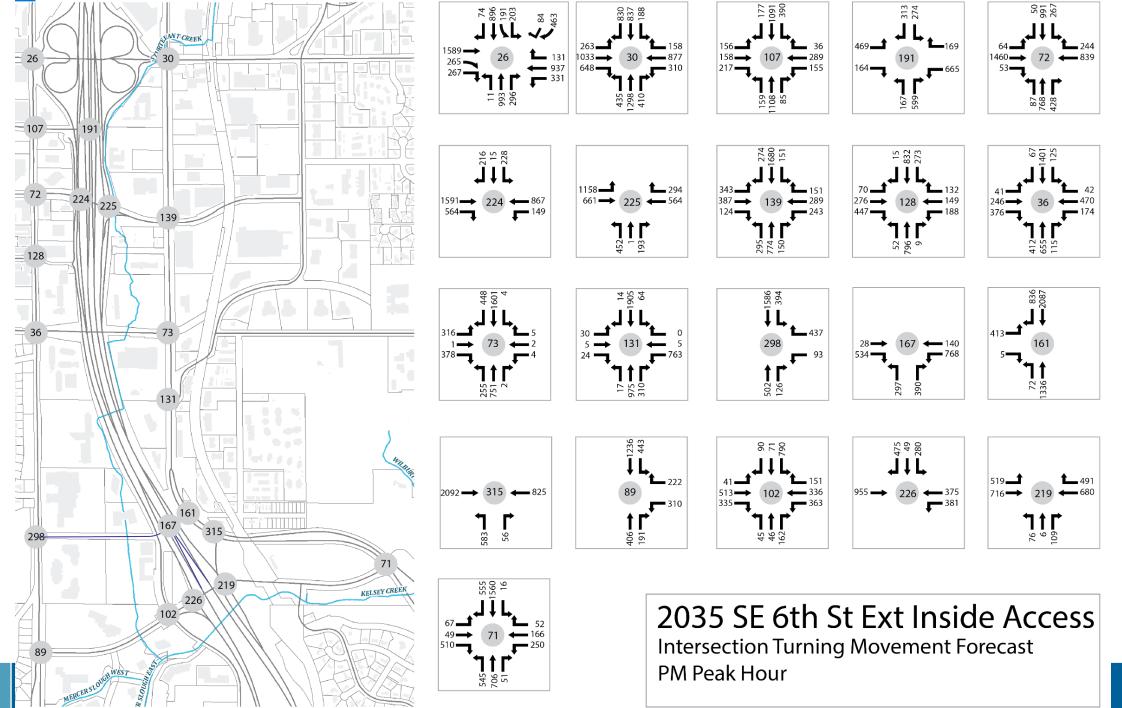




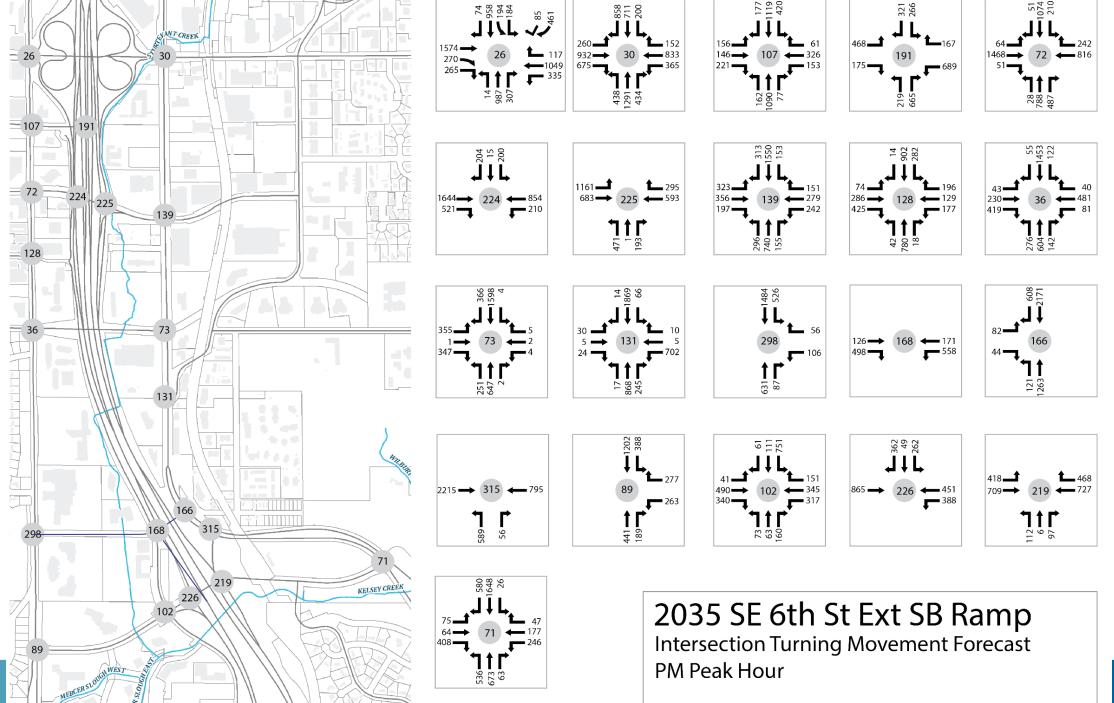




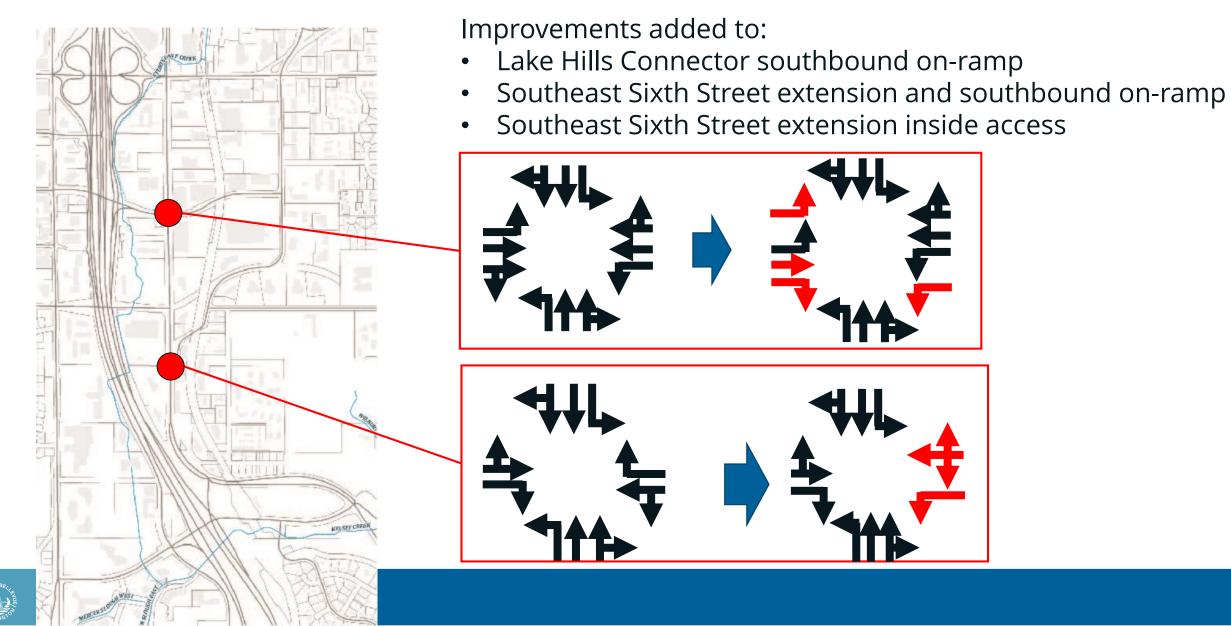
ALL RULE



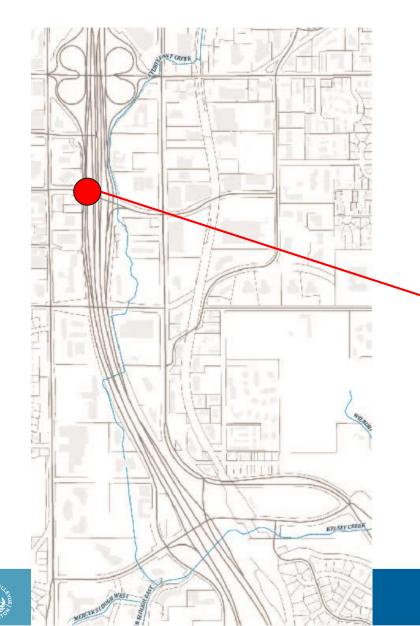
ALIO ANT SHINE



Additional intersection improvements



Additional intersection improvements



 Lake Hills Connector southbound on-ramp: Eliminating westbound left turn at Northeast Fourth Street/I-405 southbound ramp

