Bellevue Way SE HOV – 112th Ave SE ‘Y’ to South Bellevue P&R
Staff Recommendation for project scope and phasing plan.

March 9, 2017 – Transportation Commission

Presenters:
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Justin Matthews, KPFF Consulting Engineers
Tonight’s Purpose:

- Present staff’s recommendations for project scope and phasing approach
- Staff is NOT presenting funding options at this time
- Seek Transportation Commission’s concurrence on project scope and phasing approach
- Next steps
Bellevue Way SE Southbound HOV Project

2017-2023 Council-adopted CIP plan:
- Develop design
- Environmental Documentation

Project Objectives:
- Reduce traffic congestion in PM peak
- Reduce delay in services for transit, carpool and vanpool
- Improve multi-modal access
SB HOV Project Roadway Width: Narrow Section vs. Wide Section

Narrow

Wide
SB HOV Project Roadway Width: Narrow Section – Staff Preferred Option

- Equivalent traffic operations performance
- Less Critical Area Impacts
- Less Private Property Impacts
- For full build project length, narrow section is $9 million less than wide section.
SB HOV Project Roadway Width: Narrow Section

Comments and questions on Staff recommendation for NARROW Project Roadway Width
Traffic Study: Options Considered

- **2030 No Build Baseline**
- **Option 1**
- **Option 2**
- **Option 3**
- **Option 4**
## Traffic Study: Travel Time Savings

<table>
<thead>
<tr>
<th></th>
<th>2015 Existing Conditions</th>
<th>2030 No Build Baseline</th>
<th>Option 1: HOV to &quot;Y&quot;</th>
<th>Option 2: HOV through &quot;Y&quot;</th>
<th>Option 3: GP Lane to &quot;Y&quot;</th>
<th>Option 4: HOV through &quot;Y&quot; 112th Only</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Change in Travel Times (From Bellevue Way)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SOV</strong></td>
<td>5.6 min</td>
<td>7.5 min</td>
<td>-0.2 min (-3%)</td>
<td>0.5 min (+7%)</td>
<td>2.4 min (+32%)</td>
<td>0.4 min (+5%)</td>
</tr>
<tr>
<td><strong>HOV</strong></td>
<td>5.6 min</td>
<td>7.2 min</td>
<td>-2.8 min (-39%)</td>
<td>-2.8 min (-39%)</td>
<td>2.2 min (+31%)</td>
<td>-2.5 min (-35%)</td>
</tr>
<tr>
<td><strong>Transit</strong></td>
<td>5.7 min</td>
<td>6.7 min</td>
<td>-2.0 min (-30%)</td>
<td>-2.3 min (-34%)</td>
<td>1.9 min (+28%)</td>
<td>-2.0 min (-30%)</td>
</tr>
<tr>
<td><strong>Change in Travel Times (From 112th Ave)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SOV</strong></td>
<td>7.6 min</td>
<td>9.9 min</td>
<td>-0.2 min (-2%)</td>
<td>0.5 min (+5%)</td>
<td>2.6 min (+26%)</td>
<td>0.2 min (+2%)</td>
</tr>
<tr>
<td><strong>HOV</strong></td>
<td>7.6 min</td>
<td>9.5 min</td>
<td>-2.8 min (-29%)</td>
<td>-3.9 min (-41%)</td>
<td>2.3 min (+24%)</td>
<td>-4.5 min (-47%)</td>
</tr>
<tr>
<td><strong>Transit</strong></td>
<td>6.2 min</td>
<td>10.6 min</td>
<td>-3.0 min (-28%)</td>
<td>-3.6 min (-34%)</td>
<td>2.8 min (+26%)</td>
<td>-4.6 min (-43%)</td>
</tr>
</tbody>
</table>
Potential Phasing of Option 4 (narrow)

- **Full Build HOV (Option 4)**: $31,000,000
  - $3.9M Design, $8.8M ROW, $18.3M Construction

- **320’ HOV (Option 4A)**: $5,000,000
  - $0.7M Design, $1.1M ROW, $3.2M Construction

- **1700’ HOV (Option 4B)**: $23,000,000
  - $3.1M Design, $4.9M ROW, $15M Construction
## Option 4B – Staff Preferred Phasing

<table>
<thead>
<tr>
<th></th>
<th>2030 No Build Baseline</th>
<th>Full Build Option 4: HOV through &quot;Y&quot; 112th Only</th>
<th>Phased Option 4B: 1700-ft HOV to Winters House</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Travel Times From Bellevue Way</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOV</td>
<td>7.5 min</td>
<td>7.9 min(+5%)</td>
<td>6.6 min(-12%)</td>
</tr>
<tr>
<td>HOV</td>
<td>7.2 min</td>
<td>4.7 min(-35%)</td>
<td>4.7 min(-35%)</td>
</tr>
<tr>
<td>Transit</td>
<td>6.7 min</td>
<td>4.7 min(-30%)</td>
<td>4.8 min(-28%)</td>
</tr>
<tr>
<td><strong>Travel Times From 112th Ave</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOV</td>
<td>9.9 min</td>
<td>10.1 min(+2%)</td>
<td>9.0 min(-9%)</td>
</tr>
<tr>
<td>HOV</td>
<td>9.5 min</td>
<td>5.0 min(-47%)</td>
<td>6.9 min(-27%)</td>
</tr>
<tr>
<td>Transit</td>
<td>10.6 min</td>
<td>6.0 min(-43%)</td>
<td>8.4 min(-21%)</td>
</tr>
<tr>
<td><strong>Peak Hour Volumes</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Vehicles</td>
<td>2,163</td>
<td>2,462(+12%)</td>
<td>2,433(+11%)</td>
</tr>
<tr>
<td>Total People</td>
<td>3,876</td>
<td>4,490(+16%)</td>
<td>4,405(+14%)</td>
</tr>
<tr>
<td># HOV Vehicles</td>
<td>194</td>
<td>457(+236%)</td>
<td>410(+211%)</td>
</tr>
<tr>
<td># Transit Routes</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
</tbody>
</table>
SB HOV Project Phasing: Phasing Option 4

Comments and questions on Staff recommendation for Phasing OPTION 4
Bellevue Way SE Southbound HOV Project

Motion to APPROVE concurrence with staff recommendation:

Width: NARROW option

Phasing: OPTION 4B
Next Steps

- Seek City Council’s approval of staff’s recommendations for project scope and phasing approach

- At Council’s direction, continue to proceed with the preparing Environmental Documentation and developing 60% design

- Continue working with community and stakeholders as design is advanced

- Continue to investigate funding options including grant opportunities and/or partnerships with other agencies
Thank You!

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