NORTHERN BLVD SAFETY, ACCESSIBILITY, AND LIVABILITY IMPROVEMENTS
- BETWEEN PRINCE ST AND UNION ST -

Traffic Engineering & Planning
September 2018
OVERVIEW

- Previous Projects
- 2018 Northern Blvd Street Improvement Project (SIP)
- 2018 SIP Implementation Schedule
PREVIOUS PROJECTS
DOWNTOWN FLUSHING
MOBILITY AND SAFETY IMPROVEMENT PROJECT (2011)

Original Report & Before and After 3yr-Crash Comparison

<table>
<thead>
<tr>
<th></th>
<th>Before (3-Year Avg)</th>
<th>After (3-Year Avg)</th>
<th>Change (Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crashes with Injuries</td>
<td>31.3</td>
<td>20.1</td>
<td>-36%</td>
</tr>
<tr>
<td>Total Injuries</td>
<td>34.7</td>
<td>26.4</td>
<td>-24%</td>
</tr>
<tr>
<td>Pedestrian Injuries</td>
<td>13.7</td>
<td>9.8</td>
<td>-28%</td>
</tr>
<tr>
<td>Bicycle Injuries</td>
<td>2.3</td>
<td>0.3</td>
<td>-87%</td>
</tr>
<tr>
<td>Vehicle Occupant Injuries</td>
<td>18.7</td>
<td>16.3</td>
<td>-13%</td>
</tr>
</tbody>
</table>

- Along Northern Blvd between Prince St and Union St
MAIN ST SIDEWALK WIDENING CAPITAL PROGRAM (2017)

Before

16’ sidewalk

23’ sidewalk

After

16’ sidewalk

24’ sidewalk
DOWNTOWN FLUSHING
MOBILITY AND SAFETY IMPROVEMENT PROJECT

• The Downtown Flushing improvement project induced the Main St sidewalk widening capital program. Both projects substantially improved mobility and safety in Downtown Flushing.

• 2018 Northern Blvd SIP plans to further enhance safety, accessibility and livability for the community in the downtown Flushing with concrete works, painted markings and pedestrian signal installations.
2018 NORTHERN BLVD STREET IMPROVEMENT PROJECT (SIP)
PROJECT PROCESS

- Preliminary Site Visit with CB7 and CM Koo Office
- 2017-2018 SIP Development
- Design Plan & Internal/External Coordination
- 2018 SIP Implementation (Summer-fall 2018)
- Future (2019 & 2020 SIPs)
- Capital Project
2018 NORTHERN BLVD SIP

Improvements

• Convert north and east crosswalks to high visibility at Prince St.
• Provide new west crosswalk and pedestrian signal from/to bridge at Prince St.
• Provide a concrete refuge island at east crosswalk at Prince St.
• Provide new crosswalk and pedestrian signal at Main St.
• Widen existing median and enhance pedestrian safety at Prince and Union Sts.
• Modify signal timing at Main Street to reduce/eliminate bus queues.
• Provide Split LPI (Leading Pedestrian Interval) signal phase for crossing pedestrian at Union St. LPI typically gives pedestrians a 3–7 second head start, and enhance the visibility and right-of-way over turning vehicles of pedestrians.
• Relocate a bus stop at southeast corner from Northern Blvd to Union St.
PROPOSED IMPROVEMENTS (1)

Provide concrete refuge island and widen center median
PROPOSED IMPROVEMENTS (2)

Provide a crosswalk and pedestrian signals
PROPOSED IMPROVEMENTS (3)

Multiple pedestrian routes utilizing median walkway
Install crosswalk and pedestrian signal for conflict free pedestrian crossings
PROPOSED IMPROVEMENTS (5)

Provide temporary curb extension for pedestrian crossings
PROPOSED IMPROVEMENTS (6)

Redesign center island and increase signal timing for WB Northern Blvd buses
PROPOSED IMPROVEMENTS (7)

Widen a west median, provide a split LPI phase and relocate a bus stop (Q13 & Q28)
2018 SIP IMPLEMENTATION SCHEDULE
SCHEDULE

i. Transportation analysis/Data Collection/Engineering Review - Winter/Spring 2018

ii. Stakeholder Briefing - Summer 2018

iii. Implementation – Summer through fall 2018

iv. Potential Capital Plan - TBD
THANK YOU!

Questions?