SR 520 Program
Regional Shared-Use Path (RSUP)
Light Evaluation Technical Update

June 1, 2017

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Presentation overview

Actions to-date
Prototype shield evaluation
Input received to-date
Results of evaluation
Next steps
WABN lights
Q&A discussion

Photo courtesy of Chris Sudore, Coldwell Banker Bain
Actions to-date

November 29, 2016
• Public meeting

Dec. 2016 – March 2017
• Continued evaluation of potential options

Jan. 2017
• Light shield prototype (P1) fabricated, installed, measured
• Neighbor feedback collected

March – May 2017
• Additional light shield prototypes (P2, P2c) fabricated, installed, measured
• Neighbor and bike community feedback collected
• 50W bulbs began to fail; 100W bulbs installed for safety and to protect system

June 2017
• Review light evaluation with neighbors
Shields evaluated

Prototype 1 (P1)

Prototype 1 – original louvered shield on 100-watt bulb (March 2017).
Shields evaluated

Prototype 2 open (P2o)

Prototype 2 – open bottom louvered shield on 100-watt bulb. Shield encloses the lighted portion of the fixture and allows light to shine from the bottom onto the path (March 2017).
Shields evaluated

*Prototype 2 closed (P2c)*

*Prototype 2 – closed bottom louvered shield on 100-watt bulb. Shield covers the lighted portion of the fixture but allows light to shine from the bottom onto the path (March 2017).*
Prototype shields in-place

East approach of SR 520 Bridge showing RSUP lights (lights with prototype shields labeled by WSDOT). Bellevue in the background. Photo courtesy of Barney Harford (March 19, 2017).
Input received to-date

Nov. 29, 2016
• Public community meeting input informed evaluation

Jan. 2017
• Neighbor input on Prototype 1
  – Preference for shielded over unshielded lights; request for evaluation of additional shielding types

March 2017
• Neighbor input on Prototypes 1, 2-open, and 2-closed
  – Preferred louvered shields; request to move lights to railing side
• Bike community input
  – Preferred shields; concern of falling into shields
Results of evaluation

See Value Matrix hand out

Option 1
• This option was completed in July 2016; by January 2017, more than half of the 50W bulbs had burned out. All 50W bulbs were replaced with 100W bulbs by May 31, 2017.

Options 3, 5, 6, and 10
• Attendees at the Nov. 29, 2016 meeting consented to eliminate these options

Option 11
• This option was added per the request of an attendee at the Nov. 29, 2016 meeting
Next steps

June 1, 2017
- Input from technical group

Early June 2017
- Email to listserv with meeting summary and request for feedback

Week of June 15, 2017
- Additional feedback collected

Late June 2017
- SR 520 RSUP light recommendations to WSDOT Secretary Millar
WABN lights

Test section of RSUP railing along WABN, including test light fixtures. (May 2017).

Nighttime view of test section of RSUP railing along WABN, including test light fixtures. (May 2017).
Questions?

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