



2019 Project Review Sheet (2020 Construction)

City Council District 3 (Ballot # 3J)

Project #	19-128
Project Title:	Install flashing lights
	Neighborhood: Squire Park, 98122
Location:	Area: On E. Union St. leading from the NE corner of 17th ave across E Union to TT Minor Park and Seattle World School

SDOT Contact Information

SDOT Reviewer Name: Ashley Rhead
Reviewer Phone Number: (206) 684-7577
Review Date: August 2nd, 2019

SDOT Project Summary

SDOT approves project

- Yes
 Yes, with revisions
 No

Comments: Traffic data supports the installation of rectangular rapid flashing beacons (RRFBs) across E Union St at 17th Ave.

There is an opportunity to partner with another program:

- Yes
 No

Partnering Program: N/A

Total Project Cost: \$89,100

YVYC 2019: Project 19-128, On E. Union St. leading from the NE corner of 17th ave across E Union to TT Minor Park and Seattle World School



Solution and Comments:

This review has been completed for use in the 2019 Your Voice, Your Choice: Parks & Streets process.

Based on vehicle speeds and volumes and pedestrian volumes, the intersection of 17th Ave and E Union St meets the thresholds for Rectangular Rapid Flashing Beacons (RRFBs). Pedestrian volumes were higher on the east leg of the intersection, which provides a direct route into the park without having to cross the driveway on the north side of the intersection. The west leg would also work if that is preferable for solar exposure of the RRFB solar panel.

The work may need to be done on overtime if the overhead trolley wires need to be deactivated for construction.



Image:



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Information Provided by Community Members

Project Idea: A market Crosswalk with pedestrian triggered flashing lights

Need for Project: This is a highly traveled crossing at the crest of the hill atop E Union at 17th Ave. The crossing is adjacent to a public school (Seattle World School). In addition, it leads to TT Minor Park which is frequently used by parents for children's use of the playground. It is also frequently used by dog owners who take their dogs to this park on a daily basis. Furthermore, this is the most frequently used crossing by residents of the Central District who walk to Trader Joe's at 17th Ave and Madison and Madison market/Central Co-Op. It is also the route that many people take to access the 12 bus line at 17th and Madison. E Union is a major arterial street that is used to link drivers from Downtown and Capitol Hill to the Central District, Madrona and the N/S arterials of 23rd Ave and MLK. The crossing is atop a hill and vehicles crossing from either direction have limited time to react to pedestrians due to limited visibility. Pedestrian-activated crossing lights would increase this visibility due to their height, giving driver's improved sight lines to pedestrian activity. We have done time lapse videos of pedestrian traffic to survey usage and during peak times, there are as many as 60-70 people who use it per hour, which is the threshold DPT uses to identify a need for a marked crossing. I am glad to provide details and evidence of the need for this crossing if you would like to contact me. We have even collected some signatures on a petition. We do not want to ever react to the need by having someone have an unfortunate and avoidable incident at this crossing.

Community Benefit from Project: Resident of the Central District who walk to Trader Joes and Central Co-Op, commuters who access bus lines 2 and 12, Parents in the CD who use the TT Minor Playground for their children, Dog owners who use the TT Minor Playfield and the students of Seattle World School.

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Risk Registry

SDOT Review	Drainage impacts	Constructability	Community process
Low	Low	Medium - trolley wires	Low

Cost Estimate

Design Phase	
Preliminary Engineering (Survey) Costs	\$0
Project Management Costs (City Labor)	\$1,500
Design Costs (Consultant Fees, if externally designed, internal labor otherwise)	\$1,500
Subtotal - Design Phase Costs	\$3,000
Design Contingency (10% of Design Phase Subtotal)	\$300
Total Design Phase Costs	\$3,300
Construction Phase	
Construction Costs (include urban forestry, signs & markings, traffic control, layout or construction staking as necessary) - includes RRFB installation and marked crosswalk	\$55,000
Drainage Costs	\$0
Estimating Contingency (10-20%) - work may need to be done on overtime, if trolley wires need to be deactivated	\$11,000
Subtotal - Construction Costs	\$66,000
Construction Management (10-25% of Construction Cost)	\$6,600
Construction Contingency (20%)	\$13,200
Total Construction Phase Costs	\$85,800
Total Project Cost = Total Design and Construction Phase Costs	\$89,100

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