

CITY OF KIRKLAND

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DEPARTMENT OF PUBLIC WORKS PRE-APPROVED PLANS POLICY

Policy TS-1: Pedestrian Recall Guidelines

General

Pedestrian recall is a traffic signal timing function that causes a pedestrian walk phase to activate automatically every cycle. Pedestrian recall can benefit pedestrians by reducing pedestrian delay and improving safety at signalized intersections.

These guidelines establish the methodology for how, when, and where pedestrian recall is implemented at a given crosswalk. The purpose of these methodology and guidelines is to ensure that pedestrian recall is applied to locations and at times of high pedestrian demand.

Methodology

Pedestrian activity at a given crosswalk will be measured by the percentage of cycles where the Walk phase is activated by a pedestrian pushbutton. City Staff will gather this data over the course of two consecutive weeks; weekday and weekend data will be separated. This process will be repeated on a seasonal basis since pedestrian activity at a given location can fluctuate throughout the year.

In cases where two vehicles phases always begin and end together, the associated crosswalks for those vehicle phases will be analyzed for how often either one is activated. Since both vehicle phases are activated together, then both corresponding crosswalks will be analyzed together as well.

Guidelines

The following guidelines will be used to determine when pedestrian recall should be implemented at a given crosswalk:

- If a pedestrian movement is active greater than 75% of cycles during peak daytime hours, then pedestrian recall is recommended for implementation.
- If a pedestrian movement is active greater than 60% of cycles during peak daytime hours, then pedestrian recall will be considered. Overall impact to operations at the intersection will be considered before pedestrian recall is implemented.
- If a pedestrian movement near a school is active greater than 50% of the time during drop off and pickup hours, then pedestrian recall is recommended for implementation.
- For areas designated as having a high pedestrian priority, pedestrian recall will be considered when the pedestrian movement is active greater than 50% of the time. Evaluation of the rate of increase of pedestrian usage during the day should indicate the appropriate time to activate recall operation.
- Crosswalks that are active during the main street phases should be on recall whenever the intersection is coordinated with other traffic signals or if the main street has a green time equal to or greater than the time for the pedestrian phase.

Pedestrian recall will be evaluated whenever a new signal is installed, an existing signal is modified, an existing corridor or signal is retimed, or if a community request is received to evaluate a specific location.