

# Marin County Nonmotorized Transportation Pilot Program

## Countywide Projects: Intersection Improvements #802

April 17, 2007

### Description

The NTPP-Countywide Intersection Improvement Program would be a County-administered program with a specific budget for small bicycle and pedestrian-related intersection improvements. Suggestions listed under this program are expected to cost less than \$50,000. Intersection project suggestions that were estimated to costing over \$50,000 were listed on either the Primary Network or Feeder/Local Network suggested projects lists for ranking. Suggestions for intersection improvements will be evaluated based on stated criteria. To maximize efficiencies, the County may lead an installation contract that will maximize cost efficiencies. Covered activities include development of intersection improvement plans, acquisition and installation of materials, and construction/installation.

### Budget and Criteria

A total of \$922,000 of NTPP funds has been allocated to this program between 2007 and 2009 (or about \$307,000 per year), based on a combination of (a) available funds, (b) amount of requests, and (c) projected benefit of this program compared to other projects. Most intersection suggestions did not identify a specific type of improvement, so no cost estimate of the original total suggestion list is available.

Approximate range of installed costs:

Signal Upgrades for bicycles and/or pedestrians	\$10,000 - \$50,000
Crosswalk improvements	\$ 5,000 - \$50,000
Striping	\$ 4.00 - \$10.00/LF
Signage	\$ 150 - \$500/EA
Curb/ access ramp improvements	\$ 500 - \$8,000
Paving	\$ 2.75 - \$5.00/SF

Note: Any improvement of this type would trigger ADA compliance and costs would need to reflect that.

The average intersection improvement cost is estimated to be \$35,000.

### Preliminary Guidelines

**Signals:** Signal timing may be adjusted to increase crossing time for bicyclists/pedestrians or slow traffic flows; new countdown walk signal heads may be

installed, new mid-block or school zone signal flashing overhead signals, or new signal heads may be installed to control left or right turning vehicles.

**Detectors:** New or improved signal loop detectors or video detectors for bicycles may be installed; new signal controllers may be required; motion- or push button activated mid-block crossing detectors may be installed.

**Crosswalks:** New high visibility crosswalks, new intersection and mid-block crosswalks, raised crosswalks, in-pavement flashers, advance crosswalk limit lines, pedestrian medians, and curb extensions.

**Striping/Signing:** Striping and signing at intersections may be modified or enhanced, including the provision of bike lanes, bike pockets, advance bike boxes, and warning/advisory signs.

### Implementation Strategy

The County will solicit suggestions for intersection improvements during the summer of 2007, after the Board of Supervisors adopts a final funding plan. Suggestions for funding will be received by the County and reviewed according to the following criteria:

- A. Suggestion ranked by demand/need guidelines (to be provided)
- B. All improvements to be on public property
- C. Local commitment for maintenance

Intersection improvements will be installed in larger consolidated contracts.

### Funding

Component	Prior	07/08	08/09	09/10	10/11	11/12	12/13	Total
E&P (PA&ED)								0
PS&E								0
R/W								0
CON								0
<b>TOTAL</b>		0	0	0	0	0	0	0