

Bike Program Deployment of Innovative Bikeway

Solutions

Transportation Engineering Operations





City of San Diego Bicycle Master Plan San Diego, California

FINAL – Deceber 2013

PREPARED BY: Alta Planning + Design PREPARED FOR: The City of San Diego







Facility Type	Miles of Existing	Miles of Proposed Unbuilt	Total Miles of Facility
Class I – Bike Path	72.3	94.1	166.4
Class II – Bike Lane	309.4	140.6	450.0
Class III – Bike Route	112.9	171.2	284.1
Class II or III (TBD)		143.4	143.4
Freeway Shoulder	16.1	(*).	-16.1*
Bicycle Boulevard	0	39.4	39.4
Cycle Track	0	6.6	6.6
Totals	510.7	595.3	1,089.9



High Priority Projects

Regional Bike Network





Everyday People, Everyday Trips

No Way

Interested, but Concerned (potential bikeway users)



Anywhere, Anytime



Low Stress Streets Benefit All Users





Bikeway Design Treatments

BIKE LANES

-Conventional Bike Lanes -Left-side Bike Lanes -Contra-Flow Bike Lanes -Buffered Bike Lanes

CYCLE TRACKS

-One-way Protected Cycle Tracks -Raised Cycle Tracks -Two-way Cycle Tracks

SIGNING & MARKING

-Bike Route Wayfinding Signage and Markings System -Colored Bike Facilities -Shared Lane Markings

SIGNALS

-Bicycle Signal Heads -Signal Acuation and Detection -Active Warning Beacon for Bike Route at Unsignalized Intersection -Hybrid Signal for Bike Route Crossing of Major Street

INTERSECTIONS

-Bike Boxes -Intersection Crossing Markings -Two-stage Turn Queue Boxes -Median Refuge Island -Through Bike Lanes -Combined Bike Lane -Cycle Track Intersection Approach



Design Guide

Striping, Markings, & Signs FREQUENT STOPS - STAY BACK 150

Improve Safety

- Highlight Conflict Areas
- Improve
 - Awareness of Motorists
 - Awareness of Cyclists
 - Cooperation of Motorists & Cyclist



Coordination with Street Resurfacing Projects

Street Preservation Program Water and Sewer Program Underground Utility Program











Before and After Studies





Shared Lane Marking or "Sharrow"



Scott St, Point Loma Community



Wayfinding Pavement Marking

- 1' in diameter
- 2 Pavement Markings Per Block (Beginning/End)
- Used to guide bicyclists through designated route





<u>High intensity Activated crossWalK</u> (HAWK): Also known as a Pedestrian Hybrid Beacon.







Bicycle Detection: Microwave and Video





VANTAGE[®] SMARTCYCLE[™]

All the power of Vantage video detection for bicycle applications

Superior performance in a demanding situation

Cyclists are becoming more prevalent across the country and extra phase time is needed to allow them to safely exit the intersection. When no bicyclists are present the additional cycle time is wasted reducing efficiency of the traffic network. Reclaiming this unused time can greatly improve traffic flow while still ensuring the safety of the cycling public.

No need for additional equipment

The Vantage SmartCycle solution requires no additional detection systems or manual call buttons placed at the signal. SmartCycle combines video vehicle detection and bicycle detection in one. Multiple outputs allow precision cycle timing depending on whether a bicycle is present or not.

Simple to install and setup

Adding this function to existing deployments is a simple firmware upgrade. Additional zones can then be drawn to separate bicycle detections from vehicle detections. Existing Vantage users as well as those new to the technology will be up and running quickly.



Iteris

Innovation for better mobility







Bike **Racks** & Corrals







Bike Sharing

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SO WHAT EXACTLY IS DECOBIKE? THE FASTEST & MOST CONVER WAY TO GET AROUND THE CITY

DECOBIKE is the Official Bikesharing Provider of the City of San Diego. It is your new alternative mode of transportation that is green, healthy & fun! It's for residents. It's for visitors. Most importantly, it's for you! At full operation, the Program features a network of over 180 solarpowered bike rental & sharing stations with a fleet of mora than 1,700 custom DECOBIKES accessible from dozens of locations 24 hours per day. Come enjoy San Diego as you never have before!

Check out a bicycle for an exhilarating ride, tour historic San Diego, meet friends, run errands or get to your office or hotel. DECOBIKE is here to help you save time, money, your body and of course the environment. There are two distinct ways to utilize the DECOBIKE program, either as a Bike Share Membership or an Hourly Rental. Here's how it works

San Diego California 82.6° F Partly Cloudy 5.6 mph WNW



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3 FEET TO PASS BIKES SA

LADOT S & G

AB 1371: 3 Feet for Safety Act – CVC 21750





Questions?