

Diamond Head Road Recreation Master Plan

Prepared for:
City & County of Honolulu
Department of Design and Construction

Prepared by:
Townscape, Inc.
900 Fort Street Mall, Suite 1160
Honolulu, HI 96813

March 2002

Island of Oahu							
Proposed Bicycle Facilities							
Map No.	Facility Location	Type	Juris.	Cost Class.	Length (mi.)	Cost Estimate	Priority Level
Waimanalo Circuit							
93a	Kumuhau St-Waikupanaha/Ahiki St	Route	C	B	3.4	\$146,200	III
Waimanalo Circuit							
93b	Hihimanu St-Oluolu St	Route	C	B	1.7	\$73,300	III
Kalaniana'ole Highway							
94	Aloiloi St (Waimanalo)-Makapuu	Route	S	C	4.8	\$1,358,500	I
East Oahu							
Kalaniana'ole Highway							
95	Makapuu-Sandy Beach	Route	S	A	2.2	\$7,000	I
Kalaniana'ole Highway							
96	Sandy Beach-Lunalilo Home Rd	Route	S	A	2.6	\$8,300	II
Portlock Road							
97	Kalaniana'ole Hwy-Lunalilo Home Rd	Route	C	A	0.8	\$2,500	II
Ahukini Street							
98	Lunalilo Home Rd-Kamiloiki Elem School	Route	C	B	0.7	\$2,100	III
Wailua Street							
99a	Hawaii Kai Dr-Lunalilo Home Rd	Route	C	B	0.5	\$21,600	III
Keahole Street							
99b	Kalaniana'ole Hwy-Hawaii Kai Dr	Route	C	B	0.6	\$25,900	III
Hawaii Kai Drive							
99c	Kalaniana'ole Hwy-Wailua St	Route	C	B	1.7	\$73,300	III
Kawaihae Street							
99d	Kalaniana'ole Hwy-Hawaii Kai Dr	Route	C	A	0.9	\$2,900	III
Halemau mau Street							
99e	Kalaniana'ole Hwy-Kalaniana'ole Hwy	Route	C	B	0.8	\$34,500	III
Hind luka Drive							
99f	East Hind Dr-Wailupe Valley School	Route	C	B	0.7	\$30,200	III
West/East Hind Drive							
99g	Kalaniana'ole Hwy-Kalaniana'ole Hwy	Route	C	B	1.2	\$51,800	III
Analii/Poola Street							
100	Kalani Wai alae Iki Park-Keikilani Aina Haina Elem School	Path	C	C	0.9	\$305,200	II
Primary Urban Center							
<i>Diamond Head Road (if not listed in "Existing")</i>							
Pali Highway							
101	Nuuanu Ave-Waokanaka St	Route	S	C	1.3	\$367,900	II
Ala Moana Boulevard							
102	Kalakaua Blvd-Connect to end of existing Nimitz Bike Lane	Lane	S	C	2.7	\$2,949,500	I
Nimitz Highway							
103	Middle St-Waiakamilo Rd	Lane	S	C	1.0	\$1,092,400	I
Liliha Street							
104	King Street-H-1 Freeway	Lane	S	C	0.4	\$437,000	III

Island of Oahu Existing Bicycle Facilities	Facility Location	Jurisdiction	Signed Shared Road Length (mi.)	Bike Lane Length (mi.)	Shared Use Path Length (mi.)	All Facilities Length (mi.)	Addition since 1994 Plan	Notes
	Oahu Avenue	C	0.5				■	
	Maile Wy-Alaula Wy							
	Metcalf Street	C		0.3				
	Wilder Ave-University Ave							
	McCully Street	C	0.8					
	Kapiolani Blvd-Wilder Ave							
	Ala Wai Canal Mauka Promenade	C			1.0			
	Ala Moana Blvd-Ala Wai Elem School							
	Adj. to Manoa/Palolo Drainage Canal	C			0.4			
	Ala Wai Elem School-Date St							
	Kapahulu/Date Street Path	C			0.7			
	Manoa/Palolo Drainage Canal-Date St-							
	Ala Wai Blvd (behind Waikiki Library)	C			0.9			
	Kapahulu Avenue	C			0.9			
	Paki St-Kalakaua Ave							
	Paki Avenue	C						
	Poni Moi Rd-Kapahulu Ave							
	Kalakaua Avenue	C		0.3			■	
	Poni Moi St-Monsarrat Ave							
	Kalakaua Avenue	C					■	
	Monsarrat Ave-Ala Moana Blvd	C	1.7	.4				
	Ala Moana Park Path	C						
	Magic Island-Kewalo Basin	C			1.6			
	Young Street	C						
	Isenberg St-Victoria St							
	Hotel Street	C	0.2					
	Vicinity of Ward Ave-Alapai St							
	Waiakamilo Rd-Houghtailing St	C		1.2				
	Nimitz Hwy-N. School Street							

Under Contract to Construct Diamond Head Rd

*1-Lane Bike Way
1-Lane Shared*

AIEA-PEARL CITY
LIVABLE COMMUNITIES PLAN

Prepared for:

*City and County of Honolulu
Department of Planning and Permitting*

Prepared by:

*Wilson Okamoto & Associates, Inc.
Kober/Hanssen/Mitchell Architects
Miyabara Associates*

October 2002

VL

HWY-TO
2.0264

MAY 1 5 2003

Mr. Timothy E. Steinberger
Director
Department of Design and Construction
City and County of Honolulu
650 South King Street, 11th Floor
Honolulu, Hawaii 96813

Dear Mr. Steinberger:

Subject: Update of *Bike Plan Hawaii*

Thank you for reviewing the Preliminary Draft of *Bike Plan Hawaii*. Your comments helped us to rethink what we wanted to accomplish in the plan and to address its shortcomings. I am writing to let you know what actions were taken with respect to your concerns and suggestions.

1. *Aesthetic Considerations—Recommend coordinating bike route planning with the City Department of Parks and Recreation's Street Tree Beautification program and the "More Livable Communities Program" to enhance biking experience.*

A statement has been added to the plan to reinforce the importance of coordination between governmental agencies.

2. *Chapter 6.4.2, page 8, Near-term—Consider completing missing links between existing sections of bike route. They may be identified in other plans, i.e., Oahu Urban Bikeway Master Plan.*

The assessment process used to prioritize bikeway proposals included thirteen evaluation criteria, including "missing link" criteria. Because connectivity is important in the bikeway network, we added paragraphs to two sections of the draft plan, emphasizing the need to coordinate high-priority projects identified in *Bike Plan Hawaii* and the Honolulu Bicycle Master Plan.

3. *Chapter 7, page 6—Recommend a graphic map at key locations showing destinations to benefit novice bikers and tourists unfamiliar with the bikeways.*

Orientation tools can help novice bicyclists and tourists navigate through unfamiliar areas. Among the recommended actions currently in the draft plan are destination signs

Mr. Timothy Steinberger

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and maps. Once the plan has been finalized, we will develop an interactive website that will enable users to identify existing bicycle facilities in areas they would like to ride.

4. *Chapter 9, page 3—Recommend including the following references:
Diamond Head Road Recreation Master Plan
Aiea-Pearl City Livable Communities Plan*

Citations of both documents have been added to the bibliography.

5. *Recommend adding to the bikeway data chart for Oahu, a .45-mile section of single bike lane currently underway at Diamond Head Road.*

The list of bicycle facilities currently underway has been amended to include the bike lane/shared use roadway on a .45-mile section of Diamond Head Road. Thank you for pointing out this oversight.

Please note that the Draft Plan will be distributed for public review in May and we will be sending you a copy at that time.

Very truly yours,


RODNEY K. HARAGA
Director of Transportation

VL:ss



**WRITTEN COMMENTS
ON THE
DRAFT PLAN**

Bike Plan
Hawaii

Draft Plan Comments

The following table contains comments received on the draft version of Bike Plan Hawaii. Also shown are the actions taken in response to the comments.

Date	Reviewer	Comments	Responses
5/28/2003	Doug Haigh, Kauai County Dept. of Public Works	Noted that cost of bike paths at Lydgate Park was \$75 per CY.	Unit costs were kept as is. The paths at Lydgate Park were built from higher cost concrete rather than asphalt, which is expected in most other places.
6/2/2003	Ivan Kaisan	<ol style="list-style-type: none"> 1. Plan's objectives and recommendations are sound; good job hyperlinking (CD version) 2. AASHTO standard shoulders on highways can serve as bike-friendly shoulder lanes (page 6-1), but are not shown in maps. 3. Mileage of existing facilities on Oahu seems impressive, but few are longer than 2 miles. 	<ol style="list-style-type: none"> 1. Comment noted. 2. A list of roadways with "bike friendly" shoulders was included as Appendix H. 3. Bike plan strongly advocates filling in the missing links and expanding the network. For example, "missing link" was one of the criteria used to prioritize bicycle facility proposals.
6/2/2003	Frank Haas, Hawaii Tourism Authority	No comment.	
6/9/2003	Karen White	Bicycles on sidewalks are hazardous for pedestrians.	Comment noted.
6/11/2003	Victor Jensen	Would like to see separate, paved bike path on Queen Kaahumanu Highway (Kona coast of Big Island)	Comment acknowledged—part of a localized debate on merits of off-street vs. on-street bike facilities.
6/12/2003	Jay and Phyllis Hanson	Definitely need paths.	Comment acknowledged—part of a localized debate on merits of off-street vs. on-street bike facilities.
6/12/2003	Brian Richardson	Is there a poster board that can be used for a display at Windward Community College?	No poster board was prepared for this project, but KI sent extra Oahu island map, and regional maps of Windward area that could be used for display.
6/10/2003	Brian Ishii, Hawaii County Dept. of Public Works	<ol style="list-style-type: none"> 1. If a bike facility is proposed for a particular roadway, is it a recommendation or requirement? 2. Do bike facilities have precedence over pedestrian facilities, additional lanes to relieve congestion, or on-street parking? 3. Opposed to signing a paved shoulder for bike use when no sidewalk is provided for pedestrians. 	<ol style="list-style-type: none"> 1. Recommendation 2. Bike facilities do not have precedence. Where space is limited, provision of a bike facility should be evaluated on a case-by-case basis. 3. Comment acknowledged.

Date	Reviewer	Comments	Responses
6/13/2003	Greg Kai	There needs to be more control over aggressive drivers.	Comment acknowledged. E-mail response pointed out the inclusion of education and enforcement initiatives in the bike plan.
6/13/2003	Chian Leng Chia	1. Suggested that bike projects be prioritized based on some measure of demand. 2. Suggested that bike projects in the UH Manoa area be given high priority.	1. Difficult and costly to obtain data on projected demand. 2. University area outside scope to update Bike Plan Hawaii; referred to the Honolulu Bicycle Coordinator.
6/16/2003	Casey Law	There needs to be a good bike route to Kauai Community College.	The final plan shows a proposed extension of Nuhou bike lane to Nawiliwili Road. Existing shoulders on Kaunualii Highway can be used for bicycling. A proposed project to widen the highway includes plans to widen the shoulders as well.
6/16/2003	Laurel Brier	1. CD-ROM difficult to use. 2a. What was the justification for redoing the 1994 plan? Could the funds be used to execute proposals in the 1994 plan, instead? 2b. The new plan offers little change for Kauai. 3a. Plan shows an interruption in the coastal bike path from Lihue to Anahola. 3b. Did the consultants contact the Ka Ala Hele Makalae committee. 4. The path on Kawaihau Road does not meet the standards of a shared use path. 5. Map does not show schools in the Kapaa area. 6. Why does the plan show a highway connecting Anini	1. CD-ROM allowed greater distribution than reliance on hardcopies alone (as in the past). We also heard from many people who liked the new technology. 2a. Like other State transportation plans, bike plan is updated periodically to reflect changing conditions and preferences. Plan funded by State Planning and Research funds which cannot be used for construction. 2b. Plan for Kauai was updated to include coastal paths on South and North Shores, a more extensive network of bikeways in urban areas, and along canals, rail, and cane haul right-of-ways. 3a. Mapping error was corrected in the final plan. 3b. Consultants were not informed about the committee despite two public meetings and several meetings with County officials. 4. The Kawaihau Road path is considered an interim facility, pending availability of County resources to construct a more permanent path that meets AASHTO guidelines. 5. Schools (and other details) are shown on the regional map, rather than the island map. 6. Plan does not show any new highway in this area.

Date	Reviewer	Comments	Responses
		<p>to Princeville? Previous groups discussed a bike path only connecting these two areas.</p> <p>7. Is the statistic showing only 14 miles of shared use roads accurate?</p>	<p>Where there are roads, sharing the roadway was considered to be most feasible, especially for secondary and rural roads. Where there are no existing roads (in mauka sections), plan proposed shared use paths.</p> <p>7. Statistic is correct; inventory does not include roads with shoulders wide enough for comfortable bicycling if it is not a designated (signed) bicycle facility.</p>
6/6/2003	Steve Kyono, Kauai District Engineer (HWY-K)	Kealia Road is under County (not State) jurisdiction	Correction made in the bike plan.
6/9/2003	Phil Alencastre (HWY-SM)	Provided current funding data	Information updated in final bike plan.
6/9/2003	Sylvie Courbe	Bicycles should be equipped with lights.	State law requires lights/reflectors on bicycles.
6/14/2003	Walter Enomoto	Mokulele Highway widening project includes bike path.	Maps and tables corrected.
6/17/2003	Beverley Bartlett	Don't remove sidewalks in order to put in bicycling facility.	Comment noted.
6/18/2003	Larry Leopardi, City & County of Honolulu, Dept. of Facility Maintenance	No comment.	
6/19/2003	Tadashi Yoshizawa, State Dept. of Accounting & General Services, Public Works	No comment.	
6/20/2003	Ann Leighton	Expressed concern about how resources are prioritized and suggested that bike education might be the best use of available funds.	Comment noted.
6/20/2003	Gordon Lum, OMPO	No comment.	
6/21/2003	Ronald Yasuda	Expressed support for marked bikeways (lanes) and bike paths over signs.	Comment noted.
6/22/2003	Ron Reilly	<p>Bike Plan Hawaii (Draft Version) is an exemplary document, reflecting outstanding collaboration with the community.</p> <p>1. Page 2-10 is excellent, but add comment that liability issues should not deter bikeway construction.</p> <p>2. Add more photos of bike signage (not just the standard AASHTO & MUTCD ones).</p> <p>3. Emphasize the legal responsibility of bike dealers in</p>	<p>1. Liability discussion (p. 2-10) not changed significantly—conveys support for continued construction of bike facilities.</p> <p>2. Non-standard signs generally not included in the plan since they need to be approved on a case-by-case basis.</p> <p>3. Legal responsibility emphasized in Section 4.3.3</p>

Date	Reviewer	Comments	Responses
		<p>registering bikes.</p> <p>4. Establish certain screenlines for regular (annual or biannual) bike counts. Measure effectiveness of bike projects with before and after counts.</p> <p>5. Various project-specific comments.</p>	<p>Enforcement Objective</p> <p>4. Ability to gather data is currently limited by available resources.</p> <p>5. Suggestions were evaluated and incorporated into the plan where feasible.</p>
6/23/2003	Phyllis Graff	Supports bicycling.	Comment noted.
6/24/2003	Parker Sheridan	Higher traffic volumes making it increasingly hazardous to go from Kapolei to the ferry landing at Iroquois Point.	The need to improve bike access to the ferry landing was addressed in Proposal No. 29. The proposed Leeward Bikeway will also be an important facility for commuters between Kapolei and the Iroquois Point landing.
6/24/2003	Patricia Hamamoto, Superintendent, State Dept of Education	<p>1. Supports the Safe Routes to Schools concept.</p> <p>2. Next time would like a survey of all schools in the state.</p>	<p>1. Comment noted.</p> <p>2. Schools in Urban Honolulu were not included in the survey to be consistent with the scope of the plan.</p>
6/24/2003	William D. Balfour, Jr., City & County of Honolulu, Dept. of Parks & Recreation	Reiterated concern about the need to address long-term maintenance so “cost and responsibility issues are not missed, or misunderstood.”	Comment noted.
6/24/2003	W. Fujimoto (HWY-DS)	Suggested minor changes to text.	Changes incorporated into final plan.
6/25/2003	Alison Lowen	Opposes path adjacent to Queen Kaahumanu Highway.	Comment noted.
6/25/2003	Fred Holschuh, Hawaii County Council	<p>1. Importance of bike safety.</p> <p>2. Big Island has a long way to go.</p> <p>3. Bike lane on Kanoiehua Avenue looks dangerous.</p> <p>4. Bike riding on Kohala Mountain Road and Hamakua Highway is dangerous.</p>	<p>1. Comment noted.</p> <p>2. Comment noted.</p> <p>3. Bike lane meets AASHTO design guidelines.</p> <p>4. Existing roadways offer limited room to accommodate bicyclists without acquiring additional right-of-way. However, some improvements may be possible through re-striping, pavement widening, signage, and right-of-way acquisition in strategic places.</p>
6/26/2003	Clem Lam	Pointed out error—correct name is Waimea Trails & Greenways.	Correction made in the final plan.
6/26/2003	David & Laura Wolfe	Wants additional signage on North Shore of Kauai.	Additional study needed to determine appropriate types of and locations for signs to guard against the over-installation of signs.
6/26/2003	Mary Ryan, Keeau Planning Group	Supports the Old Volcano Trail project; requested modifications to map depictions of the project.	Final plan was modified so the proposals are consistent with community-level trail planning. Thank you for the detailed rationale provided.