

## In Attendance

Name	Organization	Consultants discipline
Leonard Bisel	Leonard Bisel Associates	Landscape Architect
Meredith Tanioka	Leonard Bisel Associates	Landscape Architect
Lindsey Dodge	Leonard Bisel Associates	Landscape Architect
Michael Kraus	Treeworks Inc.	Arborist
Debroah Chang	Island Transitions LLC.	
Peggi Kamisato	Waimea Trails & Greenways Committee	
Clemson Lam	Waimea Trails & Greenways Committee	
Kathrin "Cha-Cha" Kohler	Waimea Outdoor Circle	
Ken Block	Waimea Outdoor Circle	
Dee Dee Warren	Canada France Hawaii Telescope	
Carol Hendricks	Waimea Outdoor Circle	
Bob Lindsey		
Pete Hendricks	Waimea Outdoor Circle	
Matthew Wung	Natural Resource Conservation Service	
Bob Hunter	Waimea Community Association	
Ben Discoe	Waimea Trails & Greenways Committee	
David Imata	Imata & Associates, Inc.	Civil Engineering / Land Surveying
Jonathan Oba	Imata & Associates, Inc.	Civil Engineering / Land Surveying
Geoff Casburn	CMF Engineers	Hydrology
James Komata	County of Hawaii, Dept. Parks & Recreation	Parks Planner

Station	Comment
0+00	<p><u>Parks &amp; Recreation:</u> This location to have an ADA accessible entrance.</p> <p><u>Imata &amp; Associates:</u> Between stations 0+00 and 18+00, all land north of the current easement boundary up to the property lines of the existing houses, are available to accommodate the trail alignment.</p>
3+65.16	<p><u>Waimea Trails &amp; Greenways:</u> There are concerns about the trail getting too close to existing homes and being drawn too far from stream.</p> <p><u>Imata &amp; Associates:</u> Would be beneficial to move CL north to remove the trail from the "AE" flood zone. May reduce the amount of work required by CMF Engineers.</p>
6+85.00	CL to move north (see notes for station 3+65.16) and accommodate a connection to the end of Puu Opele road. An ADA accessible connection is desirable but not necessary.
12+56.99	Move CL North out of "AE" Zone. See notes for station 3+65.16
15+00.00	Move CL North out of "AE" Zone. See notes for station 3+65.16
18+89.55	Move CL North.
18+70.13	Move CL North.
19+75.00	<p><u>Waimea Trails &amp; Greenways:</u> Between station 19+75 and 20+50 the stream has some growth of trees and older decaying trees in the stream bed which hinder the natural flow pattern of the stream. Additional debris have been noted to accumulate when the stream is flowing. Ask CMF Engineers about the ability to clear the stream bed.</p>
20+73.20	Move CL South.
21+29.77	Current CL Conflicts with portable buildings and sheds.

Station	Comment
24+00.00	Current CL Conflicts with portable buildings and sheds.
24+50.00	Opelu Road.  <u>Waimea Trails &amp; Greenways:</u> Have plans to replace and relocate the existing posts and gate at end of Opelu Road. The new location of the gate posts will be south, allowing access to the trail when the gates are closed.  <u>Imata &amp; Associates:</u> It may be prudent to utilize the waterlines in this area to provide a water fountain. Pipe bollards will be needed to prevent automobiles from being able to drive on to the trail.
25+00.00	Move CL South.
26+00.00	Move CL South.
27+00.00	CL okay in current location
28+21.91	Apparent location of stream crossing. Move CL south, away from stream bank. Southern edge of path should hug south side of easement
28+72.18	Move CL south, away from stream bank. Southern edge of path should hug south side of easement
29+50.53	Move CL south, away from stream bank. Southern edge of path should hug south side of easement
30+15.09	Move CL south, away from stream bank.
31+11.46	Move CL south, away from stream bank.
33+91.96	Move CL south, away from stream bank. Southern edge of path should hug south side of easement
35+00.00	Move CL south, away from stream bank.
36+00.00	Move CL south about 5'. Going to lose about 1/2 of the existing AC pavement (old marine road).
36+39.50	Move CL north toward stream bank.

Station	Comment
36+98.82	CL okay in current location
37+27.41	CL okay in current location
38+00.00	Move CL north (more closely aligned to existing AC pavement (old marine road))
38+97.35	Move CL north (more closely aligned to existing AC pavement (old marine road))
39+93.61	Move CL north.  <u>Waimea Outdoor Circle</u> - Wants pipe bollards or equivalent structures, erected near the nature conservancy entrance to deter vehicles from entering onto the path. Bollards will guard against traffic being able to access the path to travel west and east.
40+08.40	Move CL north.
41+00.00	Note: From original CL only 7.5 feet to Canada France Hawaii Telescope property line. Paths southern edge likely to hug Canada France PL.
42+00.00	Note: From original CL only 7.5 feet to Canada France Hawaii Telescope property line. Paths southern edge likely to hug Canada France PL.

Station	Comment
43+00.00	<p>Pull new CL alignment into larger carter professional easement area (about 43+19.95).</p> <p><u>Imata &amp; Associates:</u> A majority of the path will be made of concrete, approximately 6" thick.</p> <p><u>Treeworks:</u> As a rule of thumb the proposed alignment will need to be clear of the base of the trees by a factor of 4x the tree diameter to reduce the impact to the root systems. A possible solution for some areas is to use elevated pathways so that trees do not have to be removed. A finalized alignment and walkthrough will be required to determine which trees can be saved and which ones must be removed.</p> <p><u>Parks &amp; Recreation:</u> Any other materials used for the path (such as at proposed elevated portions of the path) will need to be approved by the County. Material selection will be determined after public safety issues (slipping, tripping falling hazards), ADA compliance, expected operating life, and operating and maintenance costs are evaluated</p>
44+51.50	<p>CL okay in current location</p> <p><u>Imata &amp; Associates:</u> Bridge or raised walkway over drywell in Carter Professional Center parking lot may be an option.</p>
45+42.81	<p>*Problematic Area* Trees along current CL. Tree removal will be probably be necessary. Have some room to play to the north.</p>
46+81.82	<p>*Problematic Area* Trees along current CL. Tree removal will be probably be necessary. Have some room to play to the north.</p>
47+00.00	<p>CL okay in current location or can move south to reduce tree removal.</p>
48+13.44	<p>CL okay in current location or can move south to reduce tree removal.</p>
49+00.00	<p>CL okay in current location or can move south to reduce tree removal.</p>

Station	Comment
49+34.99	CL okay in current location or can move south to reduce tree removal.
49+56.39	CL okay in current location or can move south to reduce tree removal.
50+74.26	CL okay in current location
51+44.18	CL okay in current location
51+74.86	Location of stream crossing. CL okay in current location but consider moving slightly north to avoid unnecessary tree removal.
53+74.84	CL okay in current location
54+50.00	CL okay in current location
55+00.00	Move CL south of stone wall until end of trail
	<p><u>Waimea Trails &amp; Greenways / Outdoor Circle:</u> There are future plans for an additional phase of the trail to the east of the Lindsey Road bridge. A connection between this phase and the future phase is desirable. Can the path alignment for this first phase lead down to the area below the bridge span for future connection?</p> <p><u>Parks &amp; Recreation:</u> The Parks Department has been in contact with the Department of Public Works about the reconstruction of the Lindsey Road Bridge. A path for connecting the two separate phases of the trail under the new bridge has been discussed and will be covered under the bridge reconstruction scope of work. Until the bridge work is completed it is advisable to deter access to the areas directly under the current bridge as this area is may have potential safety issues. The alignment of the trail should consider the future connection and make the appropriate concessions and connection stub outs.</p> <p><u>Parks &amp; Recreation:</u> The design at this end of the alignment shall not include a trail head at this location. The design must incorporate ADA accessibility from the current Lindsey Road right-of-way.</p> <p><u>Imata &amp; Associates:</u> The existing stairs and pathway are not currently ADA compliant, portions of which may have to be removed and replaced. This location should incorporate a water fountain as this location is close to a water main.</p>