

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
Division of Forestry and Wildlife  
Honolulu, Hawaii 96813

May 27, 2016

Chairperson and Members  
Board of Land and Natural Resources  
State of Hawaii  
Honolulu, Hawaii

Land Board Members:

**SUBJECT: REQUEST FOR AUTHORIZATION FOR THE CHAIRPERSON OF THE BOARD OF LAND AND NATURAL RESOURCES TO SIGN, EXECUTE, AMEND, AND EXTEND AGREEMENT(S), CONTRACT(S), AND OTHER DOCUMENT(S) FOR THE CAPITAL IMPROVEMENT PROJECT GRANT-IN-AID TO THE 501(C)(3) NONPROFIT ORGANIZATION, HAWAII WILDLIFE CENTER, LOCATED IN NORTH KOHALA ON THE ISLAND OF HAWAII, TAX MAP KEYS: 5-3-007:015**

**AND**

**REQUEST APPROVAL OF DECLARATION OF EXEMPTION TO CHAPTER 343, HAWAII REVISED STATUTES, ENVIRONMENTAL COMPLIANCE REQUIREMENTS FOR THE CAPITAL IMPROVEMENT PROJECT**

**BACKGROUND:**

During the Regular Session of 2015, the Twenty-eighth Legislature authorized funds to the Hawaii Wildlife Center, a 501(C)(3) nonprofit organization, for a Capital Improvement Project (CIP) grant-in-aid (GIA) located in North Kohala on the Island of Hawaii, Tax Map Keys: 5-3-007:015. \$100,000 was appropriated by Act 119, Session Laws of Hawaii 2015, for the fabrication and installation of educational and interpretive displays within the existing Courtyard of the Hawaii Wildlife Center. This project qualifies as a grant, pursuant to Chapter 42F, Hawaii Revised Statutes (HRS).

Hawaii Wildlife Center was established in 2006 and serves as a statewide native wildlife response organization that protects, conserves, and aids in the recovery of Hawaii's native wildlife through hands-on treatment, research, training, science education, and cultural programs. The CIP GIA is for \$100,000, designated for fabrication and installation costs of interpretive exhibits that will contribute towards the \$2,000,000 Ho'opulama combined campaign ("Ho'opulama Project"). The Ho'opulama Project (description attached) will provide: 1) Critical science-based learning opportunities to students and will give the Hawaii Wildlife Center

additional resources to bring to teachers and principals interested in increasing engagement and proficiency in the sciences; 2) An experience that can be found nowhere else in the State – the Hawaii Wildlife Center is Hawaii's only wildlife response and conservation center that has created an educational way to connect visitors to wildlife patients through webcams and technology even though the animal themselves are not currently on display; and 3) A system for effective wildlife response assistance, as well as a place for volunteerism, conservation education, and training programs.

REMARKS:

This project qualifies as a grant pursuant to Chapter 42F, HRS. As the expending agency, the Department of Land and Natural Resources, Division of Forestry and Wildlife must develop the contractual documents and specifications necessary to implement the CIP GIA, including deliverable items, payment dates, and adherence to all applicable laws.

CHAPTER 343, HAWAII REVISED STATUTES – ENVIRONMENTAL ASSESSMENT:

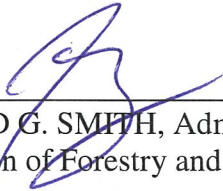
In accordance with the requirements of Chapter 343, HRS, and Section 11-200-8, Hawaii Administrative Rules (HAR), and the Exemption List for the Department of Land and Natural Resources as approved by the Environmental Council on June 5, 2015, the subject project is exempt from the preparation of an environmental assessment pursuant to the exemption classes listed in Attachment 1. The Hawaii County Planning Department was consulted and concurred with the exemption (see attachment 2).

RECOMMENDATION:

That the Board of Land and Natural Resources:

- 1) Delegates authority to the Chairperson to sign, execute, amend, and extend agreement(s), contract(s), and other document(s) for this CIP GIA to the Hawaii Wildlife Center subject to the release of funds, availability of funds, and approval by the Department of the Attorney General; and
- 2) Declares, after considering the potential effects of the proposed project as provided by Chapter 343, HRS, and Chapter 11-200, HAR, this project will likely have minimal or no significant effect on the environment and is therefore exempt from the preparation of an environmental assessment.

Respectfully Submitted,

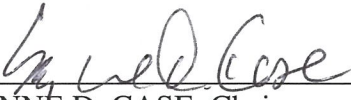


*For David Smith*

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DAVID G. SMITH, Administrator  
Division of Forestry and Wildlife

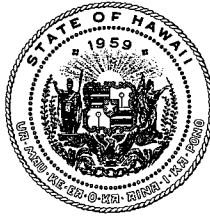
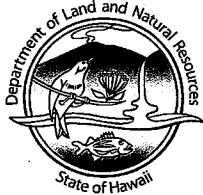
APPROVED FOR SUBMITTAL:



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SUZANNE D. CASE, Chairperson  
Board of Land and Natural Resources

DAVID Y. IGE  
GOVERNOR OF  
HAWAII



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

SUZANNE D. CASE  
CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT

KEKOA KALUHIWA  
FIRST DEPUTY

JEFFREY T. PEARSON, P.E.  
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
BUREAU OF CONVEYANCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  
CONSERVATION AND COASTAL LANDS  
CONSERVATION AND RESOURCES ENFORCEMENT  
ENGINEERING  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
KAHOOLAWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

DECLARATION OF EXEMPTION

from the preparation of an environmental assessment under the authority of Chapter 343, Hawaii Revised Statutes (HRS), and Chapter 11-200, Hawaii Administrative Rules (HAR)

**Project Title:** Capital Improvement Project Grant-in-aid to the Hawaii Wildlife Center for the Hoopulama Combined Campaign

**Project Description:** During the Regular Session of 2015, the Twenty-eighth Legislature authorized funds to the Hawaii Wildlife Center, a 501(c)(3) nonprofit organization, for a Capital Improvement Project (CIP) grant-in-aid (GIA) located in North Kohala on the Island of Hawaii, Tax Map Keys: 5-3-007:015. \$100,000 appropriated by Act 119, Session Laws of Hawaii 2015, for the fabrication and installation of exhibits at the Hawaii Wildlife Center (HWC) while staff continues to develop long-term revenue sources for financial sustainability. This project qualifies as a grant, pursuant to Chapter 42F, Hawaii Revised Statutes (HRS).

Hawaii Wildlife Center was established in 2006 and serves as a statewide native wildlife response organization that protects, conserves, and aids in the recovery of Hawaii's native wildlife through hands-on treatment, research, training, science education, and cultural programs. The CIP GIA is for \$100,000, designated for the fabrication and installation costs of interpretive exhibits within the pre-existing HWC courtyard that will contribute towards a \$2,000,000 Hoopulama combined campaign ("Ho'opulama Project"). The Ho'opulama Project will provide: 1) Critical science-based learning opportunities to students and will give the Hawaii Wildlife Center additional resources to bring to teachers and principals interested in increasing engagement and proficiency in the sciences; 2) An experience that can be found nowhere else in the State – the Hawaii Wildlife Center is Hawaii's only wildlife response and conservation center that has created an educational way to connect visitors to wildlife patients through webcams and technology even though the animal themselves are not on display; and 3) A system for effective wildlife response assistance, as well as a place for volunteerism, conservation education, and training programs.

**Consulted Parties:** A copy of the board submittal, including this attachment, in draft form was transmitted to County of Hawaii Planning Department for review and comment and returned with no objection (attachment 2).

**Exemption Class:** Department of Land and Natural Resources, Class 6: Construction or placement of minor structures accessory to existing facilities.

**Exempt Item Number:** 1



**Exempt Item Description:** Construction, placement or installation of signage, pavement markings, buoys, or other similar structures.

**Exemption Class:** Department of Land and Natural Resources, Class 7: Interior alterations involving things such as partitions, plumbing, and electrical conveyances.

**Exempt Item Number:** 1

**Exempt Item Description:** Interior alterations and renovations to offices, buildings or structures that do not increase the floor area or change the maximum occupancy to include:

- a. installation of office partitions, utility outlets or connections, air conditioning, lighting, and security systems;
- b. renovations required to bring existing structures into compliance with current building codes and applicable health, safety, and access regulations;
- c. renovations that will result in energy or other operational/cost savings; or
- d. other similar interior alterations.

**Exemption Class:** Department of Land and Natural Resources, Class 10: Continuing administrative activities including, but not limited to, purchase of supplies and personnel-related actions.

**Exempt Item Number:** 1

**Exempt Item Description:** Purchase of supplies, equipment, materials, motor vehicles, boats, and services.

**Exempt Item Number:** 5

**Exempt Item Description:** Training, environmental interpretation, public safety efforts and other educational activities.

**Date of Agency Exemption List:** June 5, 2015

*I have considered the potential effects of the above listed project as provided by Chapter 343, HRS, and Chapter 11-200, HAR. I declare that this project will probably have minimal or no significant effect on the environment and is therefore exempt from the preparation of an environmental assessment under the above exemption classes.*

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SUZANNE D. CASE, Chairperson  
Board of Land and Natural Resources

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Date

Original: Agency file  
Copy: Project file

DAVID Y. IGE  
GOVERNOR OF  
HAWAII



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

SUZANNE D. CASE  
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FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
KAIKOLAWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

MEMORANDUM

TO: County of Hawaii Planning Department  
FROM: David Smith, Administrator *DS*  
SUBJECT: Declaration of Exemption for Grant In Aid grant to the Hawaii Wildlife Center  
LOCATION: Kapa'au, North Kohala on the Island of Hawaii,  
Tax Map Keys: 5-3-007:015

The Office of Environmental Quality Control requires that agencies and divisions exempting projects under their respective lists of exemptions from Chapter 343, Hawaii Revised Statutes (HRS), require consultation with agencies and individuals having expertise before declaring a project exempt.

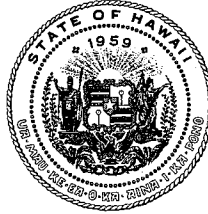
Attached for your review is a copy of the Draft Declaration of Exemption for a grant \$100,000 funds to the Hawaii Wildlife Center (HWC) for the fabrication and installation of educational and interpretive displays within the existing Courtyard of the Hawaii Wildlife Center in Kapa'au on the Island of Hawaii, Tax Map Keys: 5-3-007:015, Island of Hawaii. Please submit comments by May 11, 2016. If no response is received by this date, we will assume your agency has no comments. For additional information, please call Jim Cogswell, Wildlife Program Manager 587-4187.

- We have no objections.
- We have no comments.
- Comments are attached.

Signed:  
Date:

*Agri D. [Signature]*  
5-5-2016

DAVID Y. IGE  
GOVERNOR OF  
HAWAII



**STATE OF HAWAII**  
**DEPARTMENT OF LAND AND NATURAL RESOURCES**

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

SUZANNE D. CASE  
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HISTORIC PRESERVATION  
KAHOOLAWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

**MEMORANDUM**

**TO:** Office of Hawaiian Affairs

**FROM:** David Smith, Administrator *DS*

**SUBJECT:** Request for Authorization for the Chairperson of the Board of Land and Natural Resources to Sign, Execute, Amend, and Extend Agreement(s), Contract(s), and Other Document(s) for the Capital Improvement Project Grant-in-aids to the Hawaii Wildlife Center & Request Approval of Declaration of Exemption to Chapter 343, Hawaii Revised Statutes

**LOCATION:** Kapa'au, North Kohala on the Island of Hawaii,  
Tax Map Keys: 5-3-007:015

Transmitted for your review and comment the attached Board submittal and project summary of the above referenced capital improvement project grant-in-aids of \$100,000 to the Hawaii Wildlife Center (HWC) for the fabrication and installation of educational and interpretive displays within the existing Courtyard of the HWC in Kapa'au on the Island of Hawaii, Tax Map Keys: 5-3-007:015.

We would appreciate your comments on this document. Please submit any comments by April 12, 2016. If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Jim Cogswell at 587-4187. Thank you..

- We have no objections.
- We have no comments.
- Comments are attached.

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

DAVID Y. IGE  
GOVERNOR



DOUGLAS S. CHIN  
ATTORNEY GENERAL

RUSSELL A. SUZUKI  
FIRST DEPUTY ATTORNEY GENERAL

**STATE OF HAWAII**  
**DEPARTMENT OF THE ATTORNEY GENERAL**  
465 S. King Street, Suite 300  
HONOLULU, HAWAII 96813  
(808) 587.2985

January 13, 2016

Mr. Galen K. Kawakami  
Acting Administrator  
Division of Forestry and Wildlife  
Department of Land and Natural Resources  
P.O. Box 621  
Honolulu, Hawaii 96809

Re: Grant-In-Aid to Hawaii Wildlife Center

Dear Mr. Kawakami:

On September 3, 2015 you sent a Request For Review of Hawaii Wildlife Center's application for a grant-in-aid. The application and attachments were reviewed to determine if there was compliance with the requirements under HRS Chapter 42F. Upon request, confirmation that Linda Elliott's salary is not for board participation was sent.

This will verify that the application for grant-in-aid complies with HRS Chapter 42F.

Please contact me if you have any questions.

Very truly yours,

A handwritten signature in black ink, appearing to read "Amanda J. Weston".

Amanda J. Weston  
Deputy Attorney General

Ajw



## HO'OPŪLAMA PROJECT PLAN For STATE OF HAWAI'I GRANT-IN-AID

### Overview

The GIA award is part of a \$2,000,000 combined campaign to build the Ho'opūlama Science and Discovery Center at the Hawai'i Wildlife Center and create a three-year startup capital reserve to support the exhibits. Specifically, the \$100,000 GIA award has been planned to be used to cover fabrication and installation costs of exhibits outlined in the Ho'opūlama Master Plan.

### Plan and Deliverables

The Master Plan as well as all exhibit graphics are completed. Exhibits will be produced and installed one experience at a time, as funding is made available. This approach will allow the benefits of Ho'opūlama to begin more quickly, as opposed to waiting until the entire campaign cost is raised before moving ahead with implementation. Looking at the proposals received from contractors for the execution of the Ho'opūlama exhibits, with the \$100,000 GIA HWC will be able to implement the development and production of the HWC Story graphic panels and associated activities as well as the patient exploration activity cart outlined in the master plan. More exhibits may be completed as well if GIA funds remain after the costs of these two exhibits are paid, and as fundraising continues throughout the year.

The complete Ho'opūlama plan is included with this letter for more information about all planned exhibits. The exhibits that will be funded by this grant will include:

### **HWC STORY WALL**

As visitors enter the Courtyard, the three main panels on the wall to the left are dedicated to helping them understand the mission of the HWC, the Center's wildlife services and programs and the work that goes on in the wildlife hospital. This is the primary location for describing the process by which the HWC rescues, treats and releases sick and injured native birds and bats.



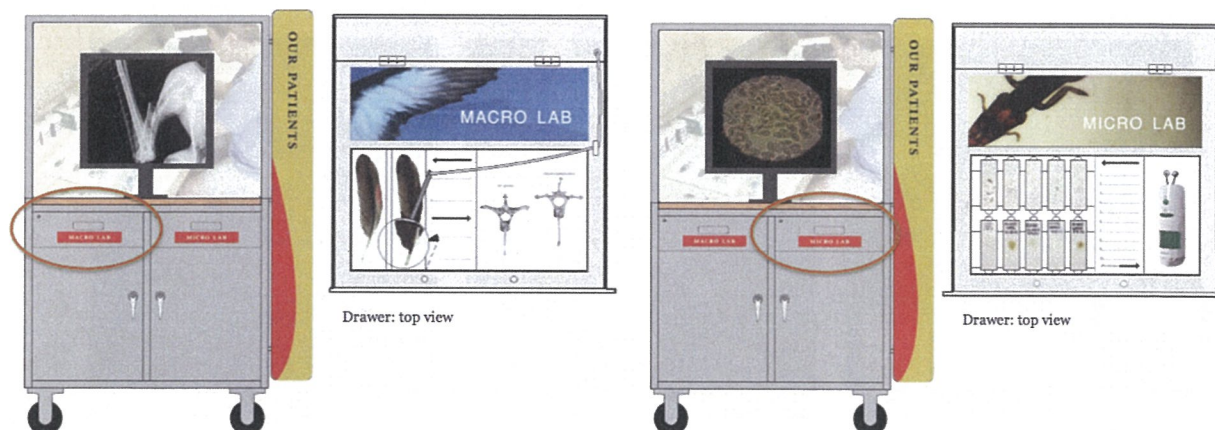


## HWC Story Wall Components:

- **Panel 1: Who's in House:** One of the first questions many visitors ask is how many patients are currently in-house at the time of their visit. The first graphic panel will feature patient charts on clipboards so visitors can see the wildlife HWC has in care. In addition, the map of the Hawaiian Island chain can be used to mark the origins of current and previous patients, demonstrating the statewide impact of the Center.
- **Panel 2: Patient Videos:** A centerpiece for the Ho'opūlama display is an interactive video that lets visitors watch conservation in action. This is where the visitor is given the opportunity to connect with the wildlife patients that are currently at, or have been at, the Center.
  - The system is menu-driven using a touchscreen. Content includes
    - Patient videos
    - Live camera feeds to current patients in the facility
    - Virtual tour of the wildlife hospital
    - Wildlife services and conservation programs
    - Collaborations and partners
  - System also provides an opportunity to share other conservation programs being conducted throughout the state through video, photos and storytelling.
- **Panel 3: Patient Diets:** The primary goal of this exhibit is to get visitors to think about the varying dietary requirements of patients at the Center and the expertise that goes into caring for wildlife patients. The display includes a set of stainless steel food dishes with a photo of one of the animals that the Center cares for. Visitors lift the lid to see what's in the bowl while the back of the lid describes the animal's diet.

## PATIENT EXPLORATION CART

This rolling cart houses a variety of interactive experiences that help visitors understand the Center's sophisticated medical testing and intake procedures. The primary activity is a role-play experience where visitors use a touchscreen computer to evaluate a patient and determine a course of treatment.



## Patient Exploration Cart Components:

- **Macro Lab:** This drawer gives the visitor an opportunity to explore feathers and bone structure. The visitor will also be able to view real wildlife x-rays on the computer screen.
  - Displays in the drawer include:
    - Normal and oiled/contaminated feathers side-by-side for comparison
    - Bird bone cross-section(s)
    - A magnifying glass is attached to allow closer observation.
- **Micro Lab:** This activity allows visitors to get up close to samples taken from actual wildlife patients, including parasites and blood. This drawer features a digital microscope that is connected to the computer screen. Visitors can hold the microscope up to the slides in the drawer to see it magnified on the screen.

## Exhibit Location

The exhibits for the science and discovery center will be installed at the current HWC facility. The HWC Story Wall and Patient Exploration Cart will be installed in the HWC courtyard. All exhibit areas – courtyard, garden and lawn – where exhibits will be installed already exist as parts of the current Hawaii Wildlife Center facility. The science and discovery center project is not construction of a new building or development of a new site.

For more information on this project, please contact

Rae Okawa  
Development Coordinator  
Hawai'i Wildlife Center  
(808) 884-5000  
[rae@hawaiiwildlifecenter.org](mailto:rae@hawaiiwildlifecenter.org)

*Mahalo nui!*



# Ho'opūlama Master Plan

Detailing the Public Exhibits at the  
Hawai'i Wildlife Center Wildlife Hospital

Kapa'au, HI



Early concept rendering



## Project Sponsors



This report was made possible by the  
generous support of

The County of Hawai'i Department of  
Research and Development  
Hawai'i Tourism Authority  
Atherton Family Foundation

# Special Thanks To



Scott Bedingfield  
Change Happens Foundation

Jim Denny

Jack Jeffrey

Douglas Pratt

William T. Ruhl, Ruhl Walker Architects

Robert Shallenberger

Aaron Spielman, Rhoady Lee Architecture and Design

Danny Akaka Jr.

Toyota 100 Cars for Good Program

Jason Umemoto, Umemoto Cassandro Design Corp.

Young Brothers, Ltd.

## Project Leaders



### **Gyroscope, Inc.**

Charles Howarth

Tasha Leverette

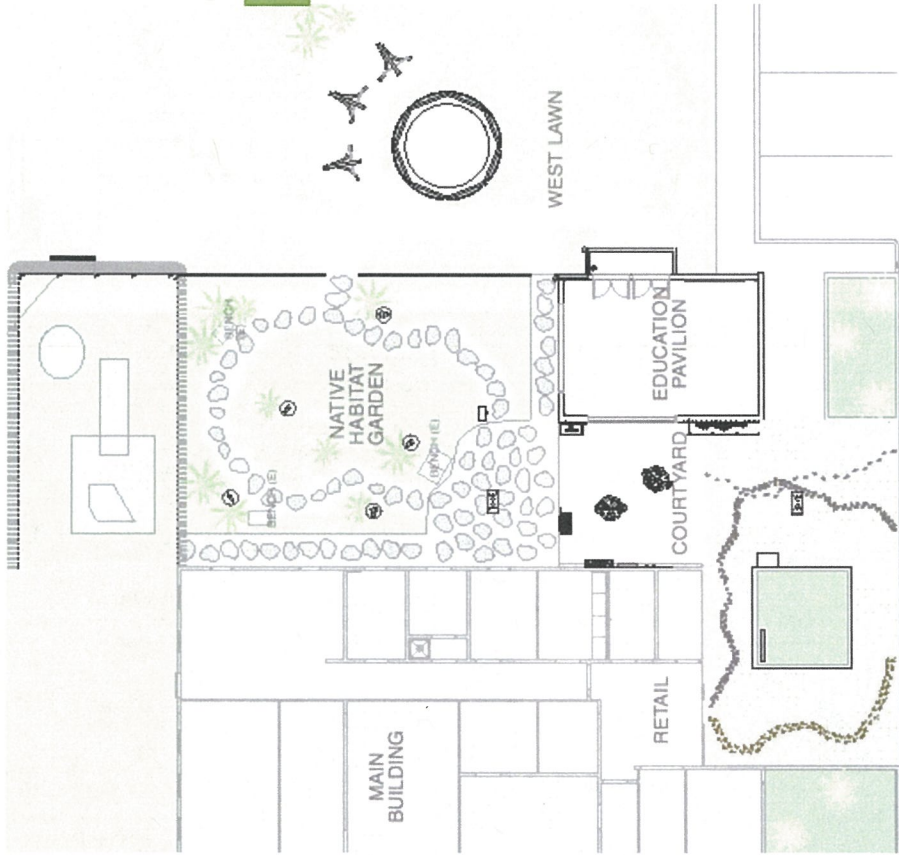
### **Hawai'i Wildlife Center**

Linda Elliott, President and Center Director

Rae Okawa, Development Coordinator

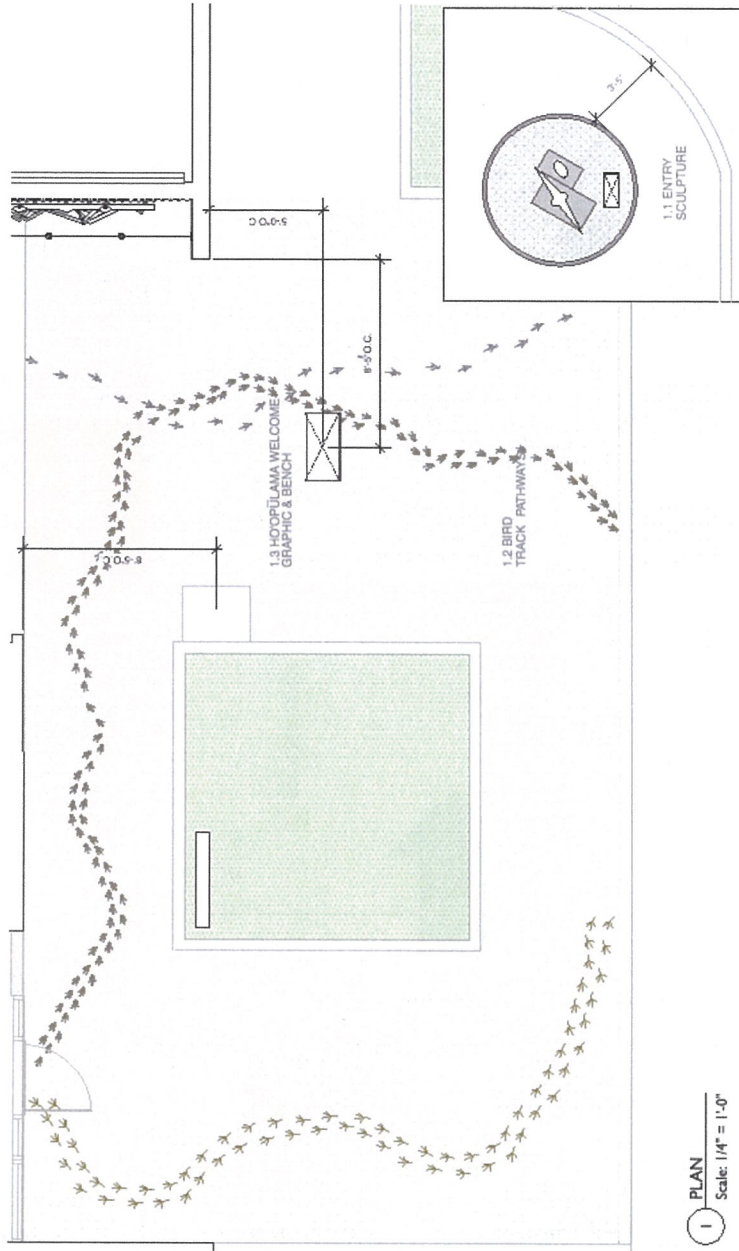


# Ho'opūlama Zones



# ZONE 1

## Approach and Entry





# ZONE 1

## Nene Welcome Sculpture



### Nēnē in Flight

Artwork by Ralph Trethewey

The Nēnē is Hawai'i's state bird. Nēnē were once close to extinction, with only 30 birds left in the wild. Captive breeding saved the species, but Nēnē remain one of the rarest species of goose in the world. They live in the wild only on Maui nui, Kaua'i, and Hawai'i Island. Nēnē mate for life and are almost always seen in groups.



Sculpture interpretive panel

Sculpture concept rendering

As visitors arrive at the HWC they are greeted by a pair of Nene, Hawai'i's state bird. Cast in bronze, the two birds are a symbol of a native species recovery success story and a perfect welcome and representation of the mission of the Center.



# ZONE 1

# Ho'opūlama Welcome Graphic Panel



Aloha and welcome to the Hawai'i Wildlife Center, a unique nonprofit organization dedicated exclusively to the preservation of Hawai'i's wild treasures. The Hawai'i Wildlife Center is a state and region-wide professional response organization that provides critical wildlife services, including state-of-the-art care and rehabilitation for native animals, comprehensive wildlife rescue training, public education, and outreach programs.

**HAWAII WILDLIFE CENTER**

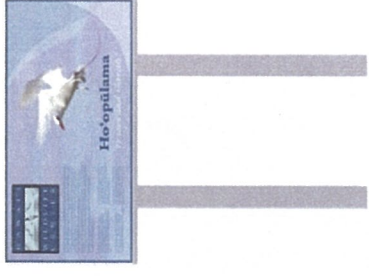
## Ho'opūlama

*To save and cherish*

Neither a zoo nor a preserve, this facility exists to facilitate the Center's work with the treatment and rehabilitation of sick, injured and oiled wildlife for release back to the wild.

The Hawaiian Islands are home to more threatened and endangered species than any other place on Earth. In the centuries since humans first arrived, some species are now extinct, but many remain. They are uniquely Hawaiian, part of our natural and cultural heritage and of irreplaceable value.

Our goal at the Hawai'i Wildlife Center is do everything in our power to save those native species for future generations to cherish. We invite you to join us in this vital task.



This is the first graphic panel that visitors will see as they approach the courtyard. It shares the name of the public space and introduces the visitor to the HWC, the purpose of the wildlife hospital and gives a glimpse into Hawai'i's biodiversity.

# ZONE 1

## Bird Track Pathway



BIRD 1. KOLOA: 38'

BIRD 2. STILT: 56'

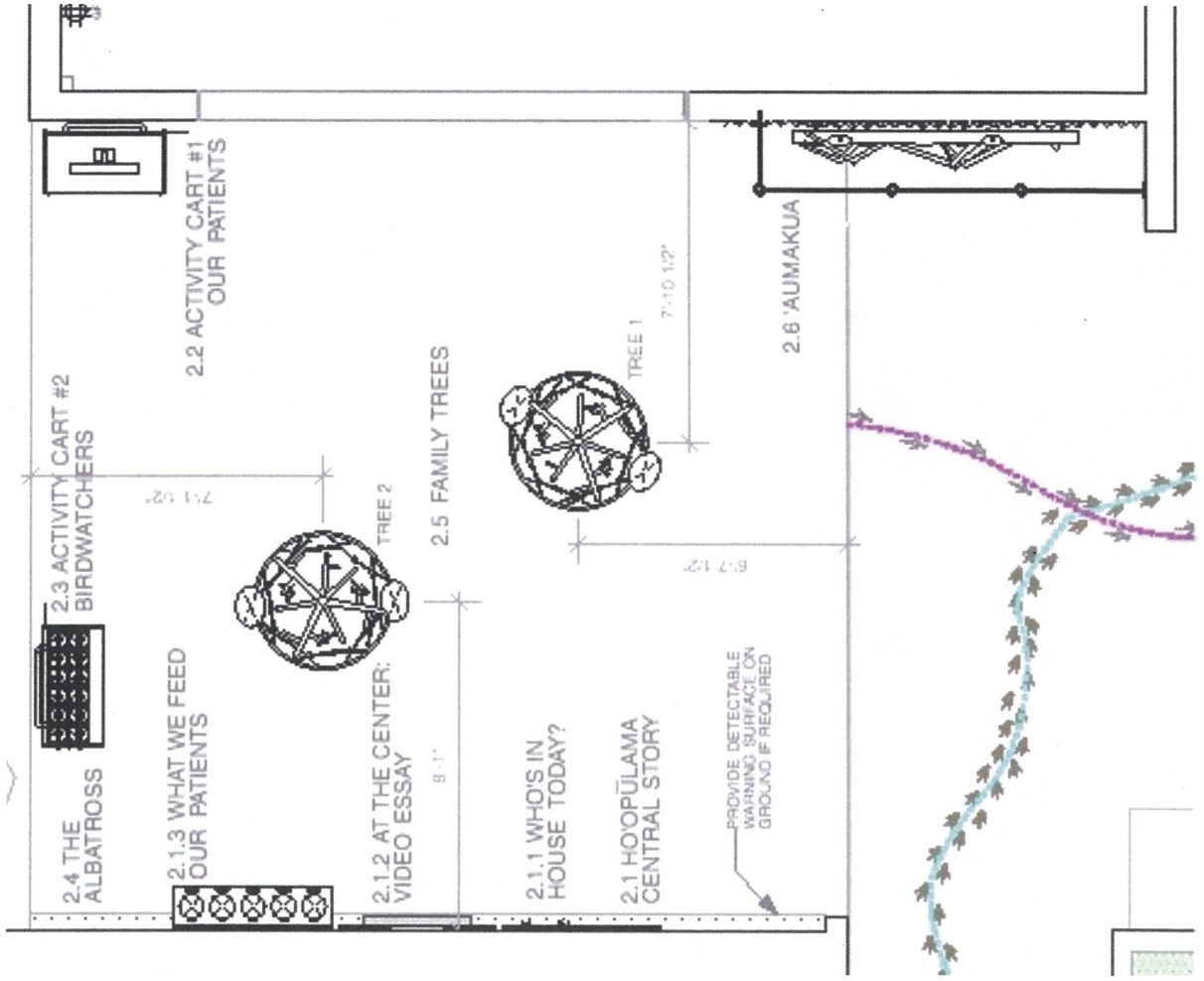
BIRD 3. NĒNĒ: 28'

The bird track pathway will be etched into the existing concrete and connects exhibits in the Courtyard to the retail area. The pathway features the footprints of three different native birds. Bird identification resources will be available at the Bird Discovery cart in the courtyard and give the visitor an opportunity to identify the birds the footprints belong to.



# ZONE 2

## Courtyard





# ZONE 2

# Telling the HWC Story



**Our Story**  
Hawaii Wildlife Center is the first and only facility on the Hawaiian Islands equipped with the expertise to respond to wildlife emergencies and disasters. Our staff is the only team of all the Hawaiian Islands.

**90%**  
of the birds that are rescued at HWC are released back into the wild.

**Our Rescue Team**  
HWC's rescue team is the only team in the world that is trained to respond to wildlife emergencies and disasters. Our staff is the only team of all the Hawaiian Islands.

**Our Current Patients**  
HWC currently provides care for a wide variety of birds and mammals. Our staff is the only team in the world that is trained to respond to wildlife emergencies and disasters. Our staff is the only team of all the Hawaiian Islands.

| HWC CURRENT PATIENTS |  |
|----------------------|--|
| Number               |  |
| Species              |  |
| Age                  |  |
| Sex                  |  |
| Location             |  |
| Admission Date       |  |
| Discharge Date       |  |
| Notes                |  |

**Rehabilitation**  
Here at the center, we diagnose and treat wild birds and bats with a wide variety of ailments, from broken bones to soiled feathers to avian diseases.

**(Video Screen)**

Our team works with the patients and biology team, with and without the help of our rehabilitation staff, community hospital, rescue team, and support staff.

**Release**  
We are dedicated to the successful treatment of all our patients and their return to the wild. Some patients are released on their island of origin. Others can be released at release sites on this island, regardless of their island of origin.

**Success Stories**

**What We Feel Our Patients**  
The birds and bats that we rescue are not just patients. They are our friends. We care for them as if they were our own. We want to see them released back into the wild. Let us up the stakes to make a spot!

As visitors enter the Courtyard, the three main panels on the wall to the left are dedicated to helping them understand the mission of the HWC, the Center's wildlife services and programs and the work that goes on in the wildlife hospital. This is the primary location for describing the process by which the HWC rescues, treats and releases sick and injured birds and bats.



# ZONE 2

# Telling the HWC Story

## Panel 1: Who's in House



### PATIENT INFORMATION SHEET

|                  |                             |
|------------------|-----------------------------|
| SPECIES          | NATURE OF ILLNESS OR INJURY |
| AGE AND SEX      | SYMPTOMS                    |
| RESCUE DATE:     | TREATMENT PLAN              |
| RESCUE LOCATION: |                             |
| RESCUED BY:      |                             |
| CURRENT STATUS:  |                             |
| PROGNOSIS:       |                             |

One of the first questions many visitors ask is how many patients are currently in-house at the time of their visit.

The first graphic panel will feature patient charts on clipboards so visitors can see who we have in care.

In addition, the map of the Hawaiian Island chain can be used to mark the origins of current and previous patients, demonstrating the statewide impact of the Center.



## ZONE 2

### Rehabilitation

Here at the center we diagnose and treat wild birds and bats with a wide variety of ailments, from broken bones to soiled feathers to avian diseases.



Our state of the art facility includes animal intake, isolation and holding areas, wash and dry rooms for cleaning oiled and contaminated wildlife, laboratory, hospital, recovery yard with aviaries and ponds, food prep, and support spaces.

# Telling the HWC Story

## Panel 2: Patient Videos

A centerpiece for the Ho‘opūlama display is an interactive video that lets visitors watch the Center in action. This is where the visitor is given the opportunity to connect with the wildlife patients that are currently at, or have been at, the Center.

The system is menu-driven using a touchscreen. Content includes:

- Patient videos
- Live camera feeds to current patients in the facility
- Virtual tour of the wildlife hospital
- Wildlife services and conservation programs
- Collaborations and partners



# ZONE 2

## Telling the HWC Story

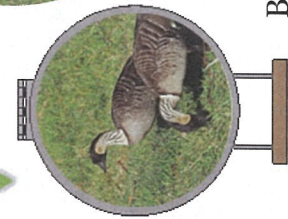
### Panel 3: What We Feed Our Patients

The primary goal of this exhibit is to get visitors to think about the varying dietary requirements of patients at the Center and the expertise that goes into caring for the wildlife patients.

The display includes a set of stainless steel food dishes with a photo of one of the animals that the Center cares for. Visitors lift the lid to see what's in the bowl while the back of the lid describes the animal's diet.



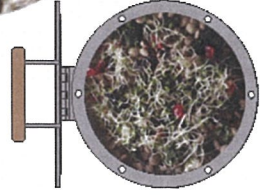
Bowl closed: top view



Bowl open: front view



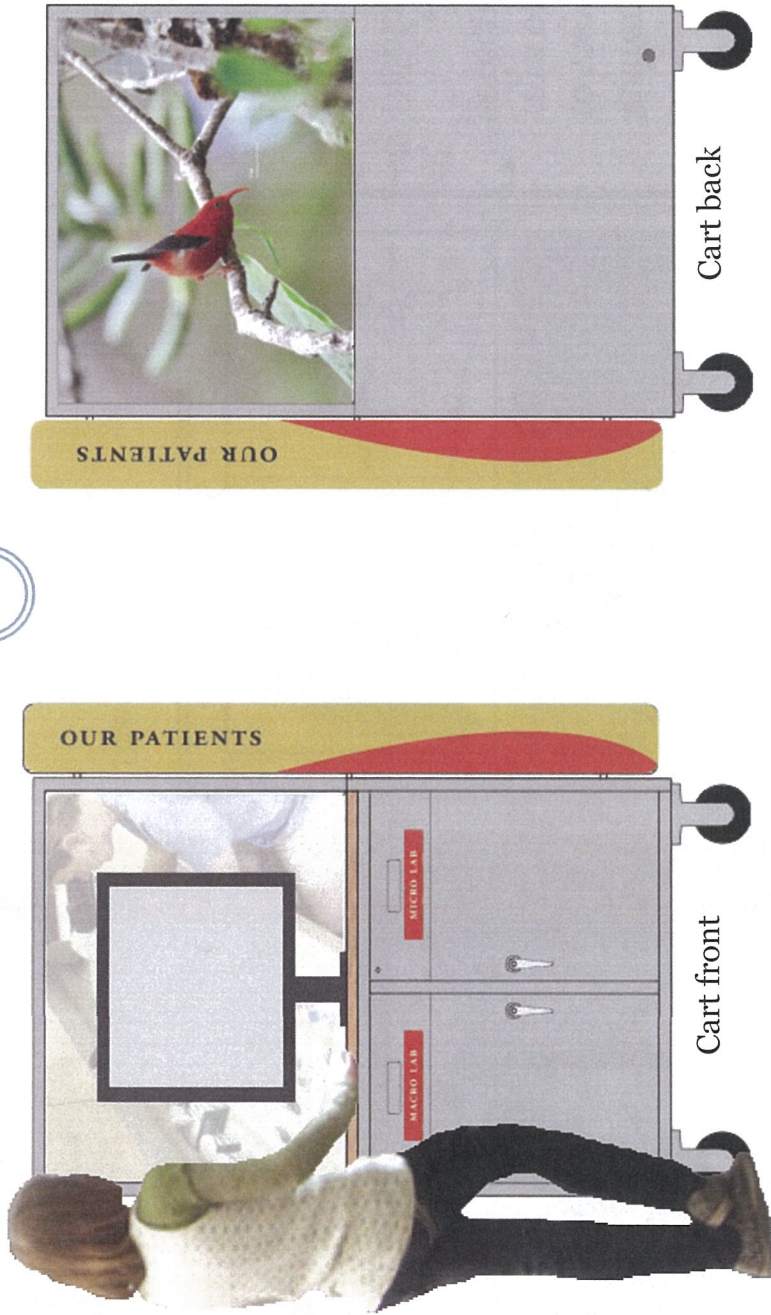
Bowl open: top view



# ZONE 2

## Activity Cart #1: Our Patients

### Cart Overview



This rolling cart houses a variety of interactive experiences that help visitors understand the Center's sophisticated medical testing and intake procedures. The primary activity is a role-play experience where visitors use a touchscreen computer to evaluate a patient and determine a course of treatment.



# ZONE 2

## Activity Cart #1: Our Patients

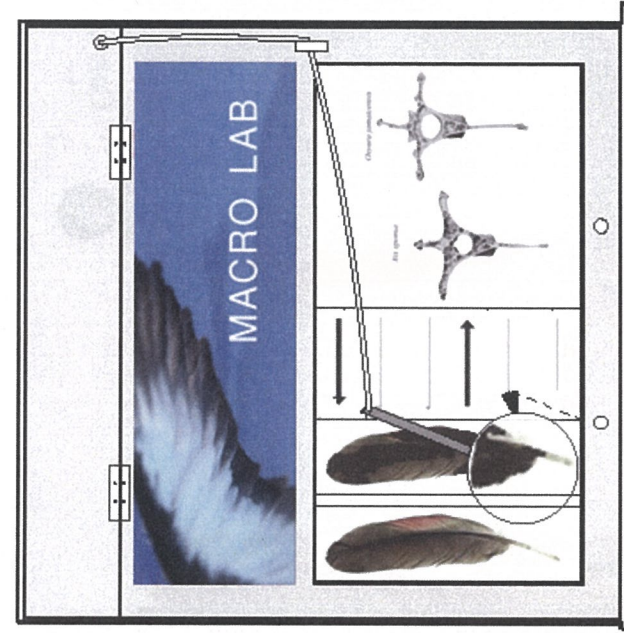
### Macro Lab Drawer

This drawer gives the visitor an opportunity to explore feathers and bone structure. The visitor will also be able to view real wildlife x-rays on the computer screen.

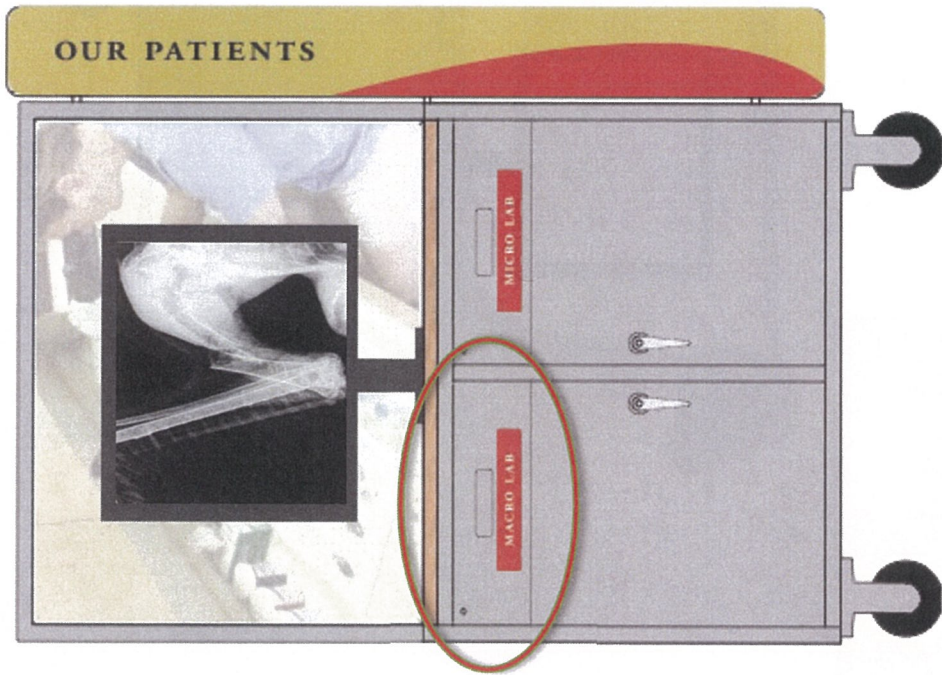
Displays in the drawer include:

- Normal and oiled/contaminated feathers side-by-side for comparison
- Bird bone cross-section(s)

A magnifying glass is attached to allow closer observation.



Drawer: top view

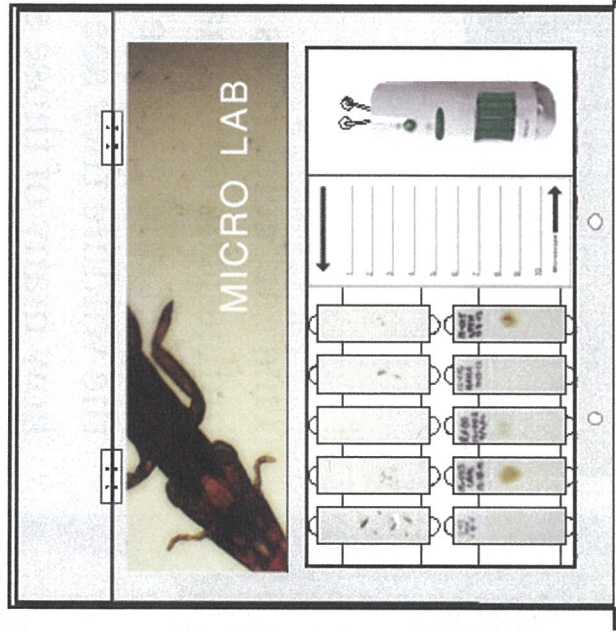
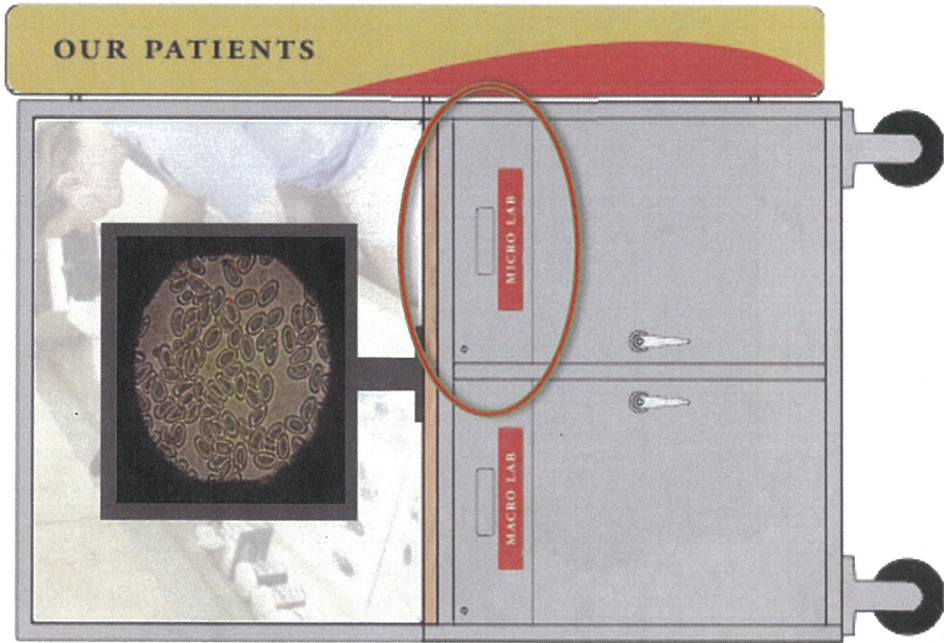




# ZONE 2

## Activity Cart #1: Our Patients

### Micro Lab Drawer



Drawer: top view

This activity allows visitors to get up (super) close to samples taken from actual wildlife patients, including parasites and blood.

This drawer features a digital microscope that is connected to the computer screen. Visitors can hold the microscope up to the slides in the drawer to see it magnified on the screen.



# ZONE 2

## Activity Cart #2: Bird Discovery Cart

### Cart Overview



**Native or Non-Native?**  
Hawaii is home to a wide variety of birds found nowhere else in the world. If you have to know where to look and what to look for.

All of these birds are found in our islands, but can you tell the native species from the non-native species? Take this quiz to find out.



### Native or Non-Native?

Hawaii is home to a wide variety of birds found nowhere else in the world. But you have to know where to look and what to look for.

All of these birds are found in our islands, but can you tell the native species from the non-native species? Take this quiz to find out.

Cart text enlarged

This cart celebrates the remarkable indigenous birds that the Center works to protect and gets the visitor to think about the wildlife they see around them and how many of those species are actually native to our islands.



# ZONE 2

## Activity Cart #2: Bird Discovery Cart

Native or Non-Native Quiz

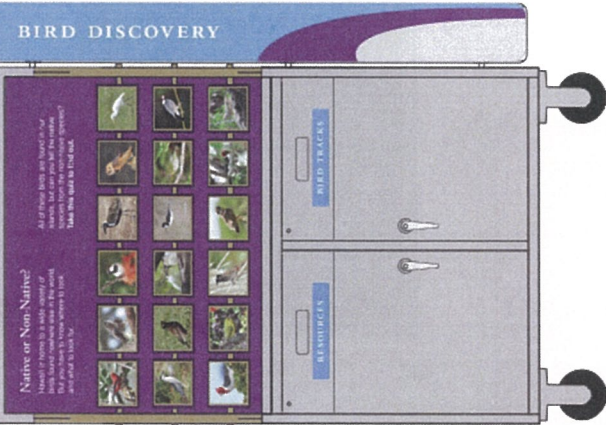


3-sided flip panel prototype



Although it was once found on all main islands, the 'I'iwi is now only found in the high native forests of Kaua'i, Maui, and Hawai'i Island.

**NATIVE**  
Hawaiian name: 'I'iwi  
Scientific name: *Vestiaria coccinea*  
Endemic (exists ONLY in Hawai'i)



Side 1: Photo



The Common Mynah was first introduced to Hawai'i from India in 1865 to control armyworms in pastureland.

**NON-NATIVE**  
English name: Common Mynah  
Scientific name: *Acridotheres tristis*

Side 2: Native or Non-Native

Side 3: Bird Fact

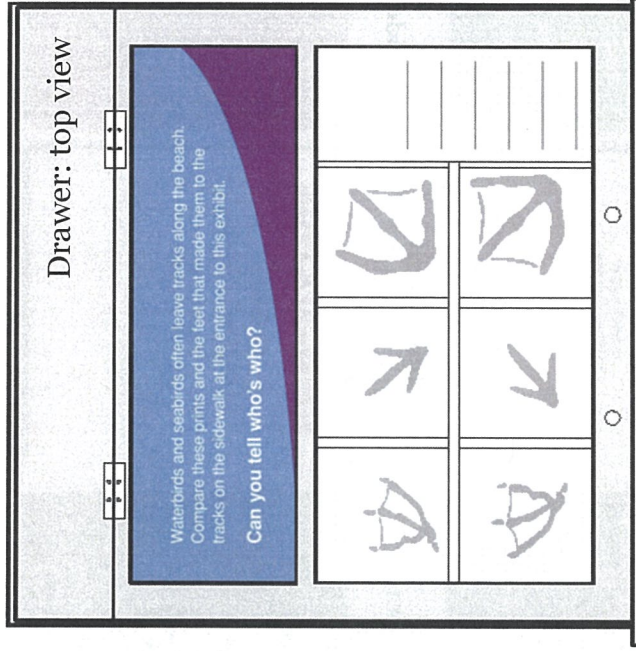
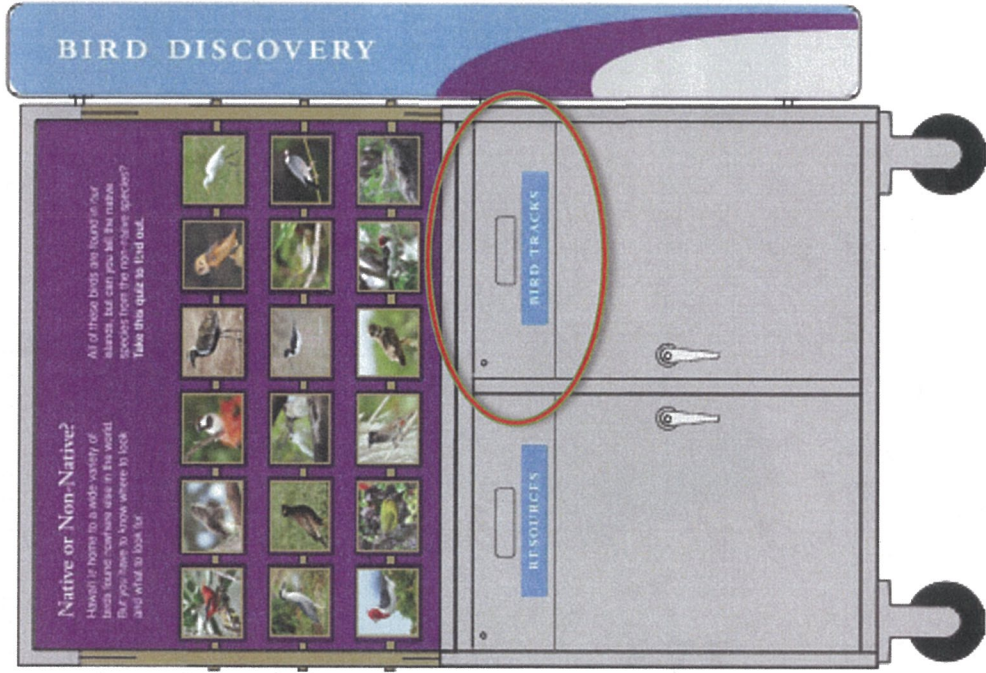
The primary activity on the bird discovery cart is an interactive quiz where visitors test their knowledge of native species. The 3-sided flip panel rests on an image of a bird and visitors can flip the panel to see if the animals in native or non-native and read an interesting fact about its biology or introduction.



# ZONE 2

## Activity Cart #2: Bird Discovery Cart

### Bird Tracks Drawer



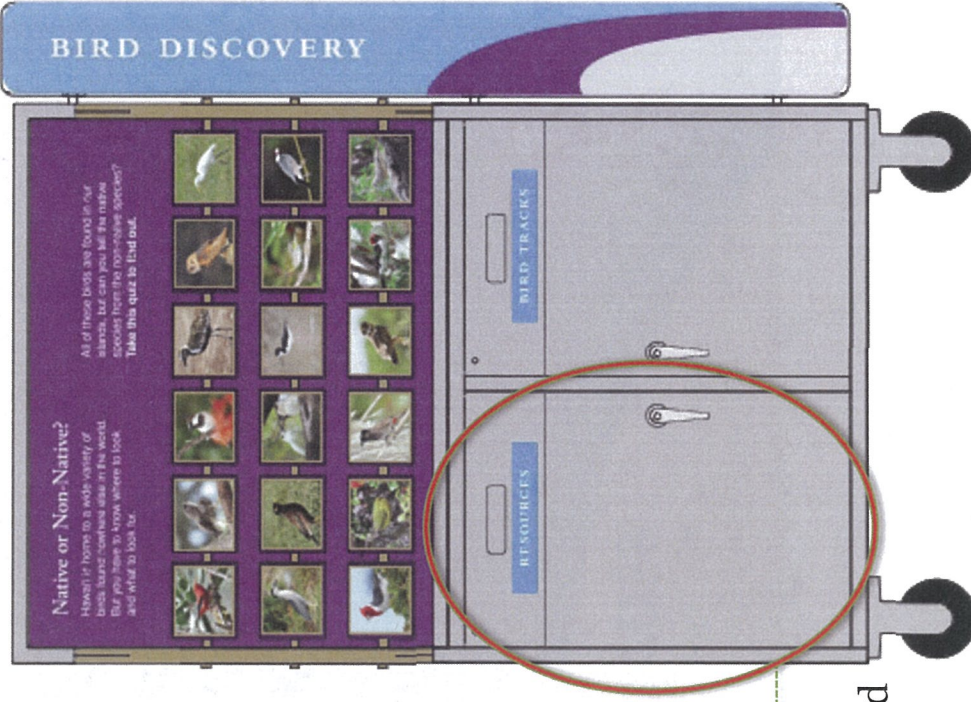
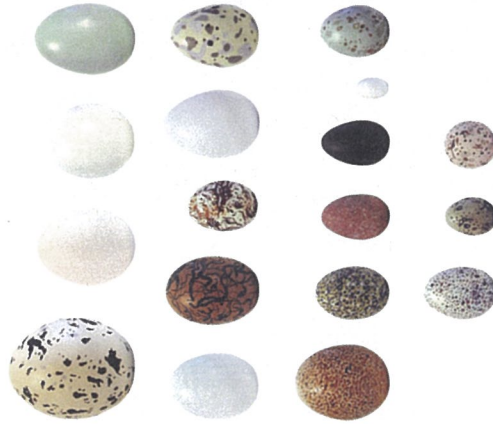
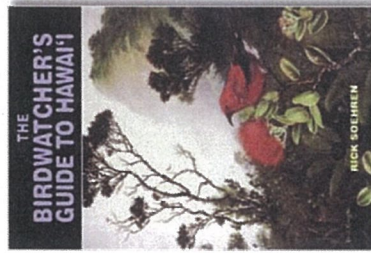
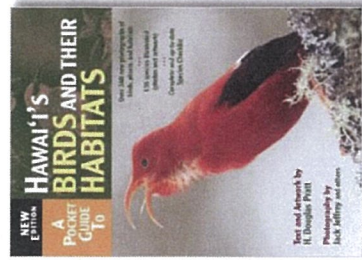
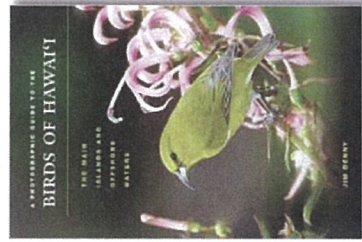
The bird tracks drawer will house models of bird feet that visitors can look at and use to identify the birds that made the footprints in our bird track pathways in the approach and entry zone.



# ZONE 2

## Activity Cart #2: Bird Discovery Cart

Resources Cabinet

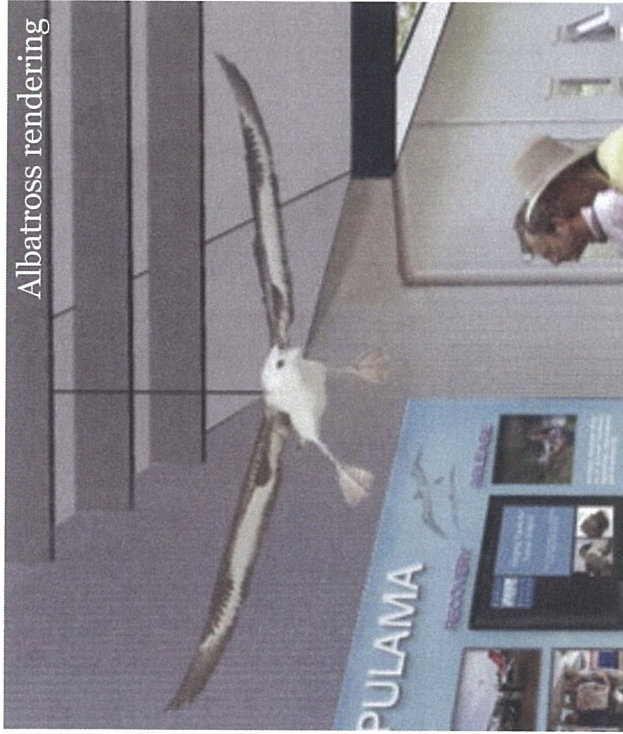


The Resources drawer and cabinet provides additional space to hold bird guides and teaching resources, including eggs and skeletons. These resources will be used to enhance the visitor experience when docents are present.



## ZONE 2

# The Albatross



Albatross rendering

## Albatross

The Laysan Albatross overhead is one of the largest seabirds in the Hawaiian Islands with a wing span of over six feet. 99% of the world's population of Laysan Albatross breed in the Northwest Hawaiian Islands.

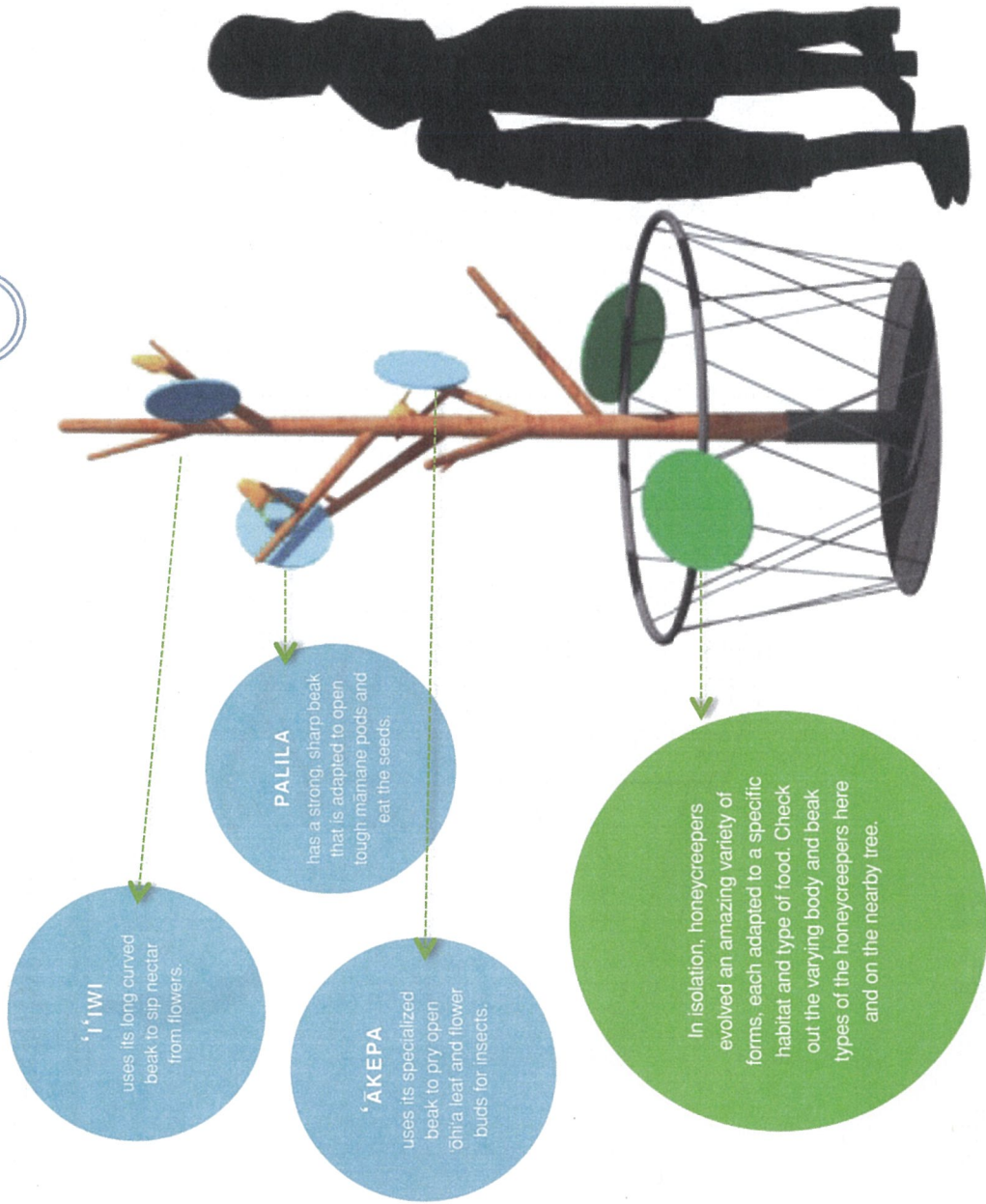
Scientific name: *Phoebastria immutabilis*  
Artwork by Ralph Trethewey

This full-scale model of a Laysan Albatross in flight soars overhead as the visitors walk about the courtyard. Most people do not get the opportunity to be immersed in native wildlife, so a main objective for these models is to allow the visitor to experience native species up close.



## ZONE 2

# Meet the Honeycreepers



The Meet the Honeycreepers trees in the Courtyard also follow the objective to get visitors up close to native species.

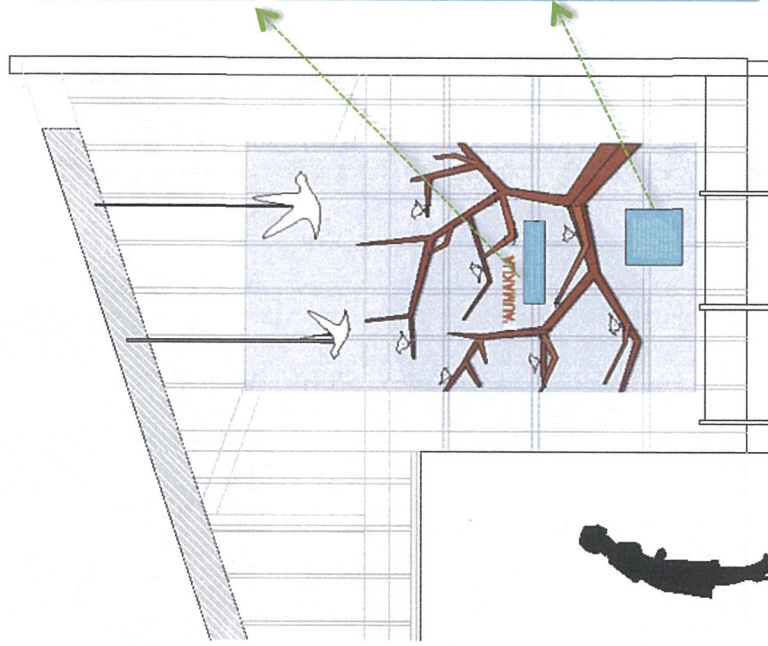
Each stylized tree is home to three different sculpted honeycreeper models perched on its branches. Accompanying graphics introduce visitors to the remarkable story of evolution that led to so many varieties of these uniquely Hawaiian birds.

Next to each honeycreeper will be information about how the bird has adapted to its environment.



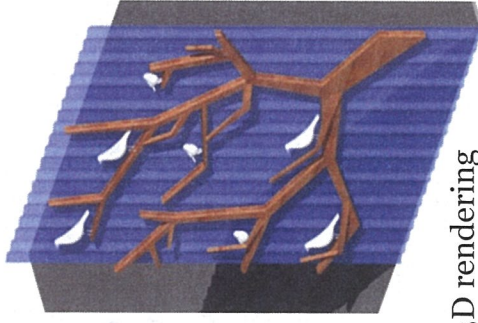
## ZONE 2

# 'Aumakua



*As our 'aumakua watch over us, we must do our part to watch over the wildlife they manifest in.*

Many hawaiian families have an 'aumakua, or guardian spirit, to watch over them. An 'aumakua is an ancestor who can appear in the form of an animal—mano the shark, pueo the owl, or many other forms of native animals in our Islands. The 'aumakua is just one example of Hawaiians' close connection to nature.



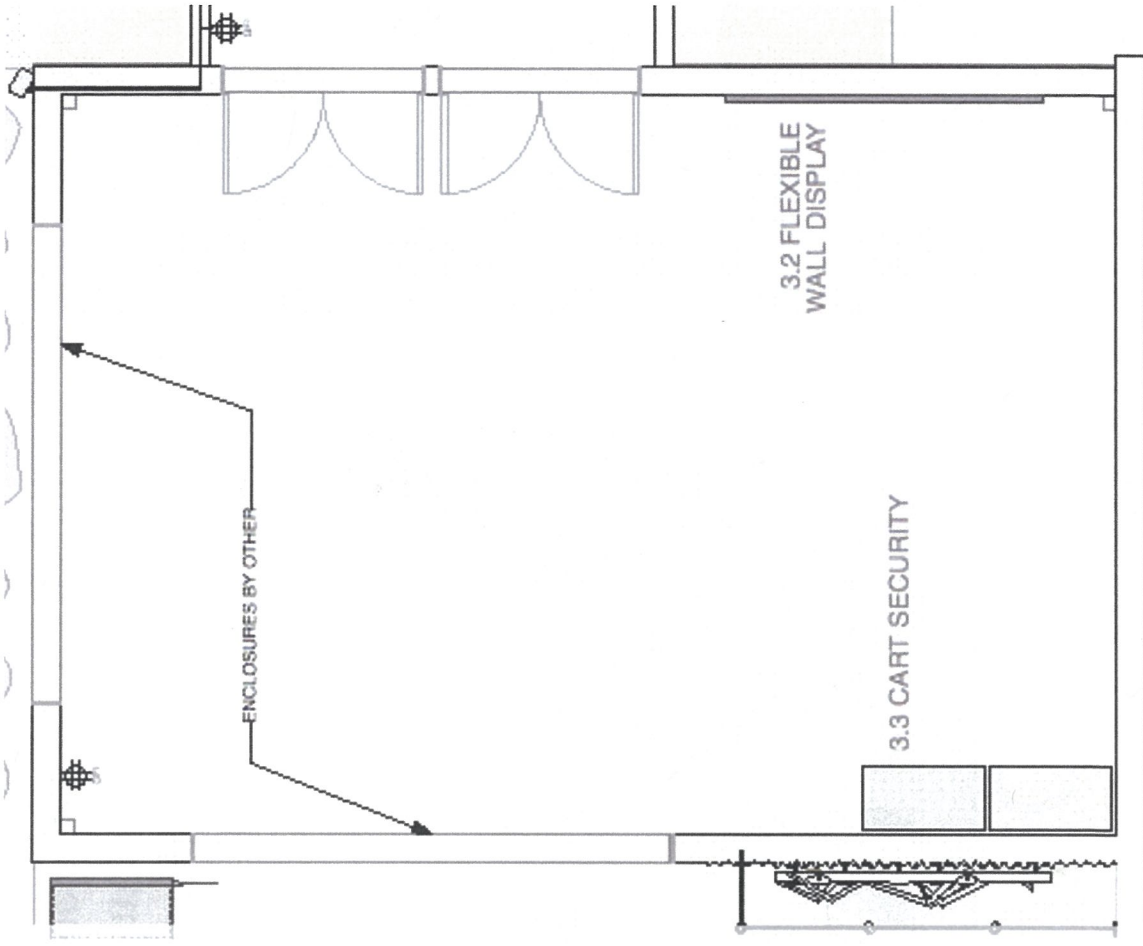
3D rendering

This exhibit provides a connection between native species and Hawaiian culture. It explains that just as our 'aumakua watch over us, so too must we watch over them. The display includes an array of native birds sculpted in white perched on a stylized tree and flying overhead.



# ZONE 3

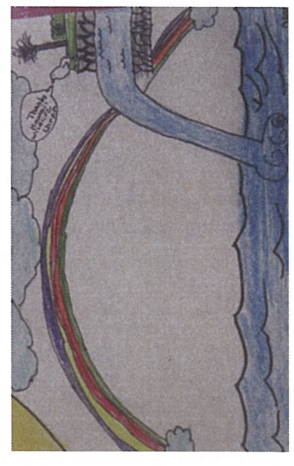
## Education Pavilion





# ZONE 3

# Flexible Wall Display



The flexible wall display is designed to give the Center the ability to display a variety of different graphics, from student artwork and projects to graphic panels that are occasionally donated by state agencies.





# ZONE 4

## Native Garden





# ZONE 4

# Native Garden Main Graphic Panel

## Gardening for Wildlife

*You can make a difference.*  
Plant your own native gardens at home or school.



Native gardens are an important part of our strategy to save and conserve Hawaiian wildlife. An astonishing diversity of plants and animals have evolved in the Hawaiian islands. These remote islands provide home to more than 10,000 native species, over 90% found nowhere else on earth. Many depend on specific plants for food and shelter.

Regrettably, the characteristics that make our native birds unique also make them vulnerable when their environment changes.

Most of the native forests and natural wetlands that predated the arrival of people to Hawaii are gone now. As a result, more than half of the native bird and plant species once found here are now extinct, never to return. Yet, this is not yesterday's problem. Ten birds went extinct in the last 30 years. Of the 70+ bird species and subspecies that remain, 30 are on the Federal list of threatened and endangered species.



This graphic introduces the native garden and ties in the importance of native ecosystems. The graphic panel explains the relationship between native habitats and wildlife and encourages visitors to create their own native gardens at home.

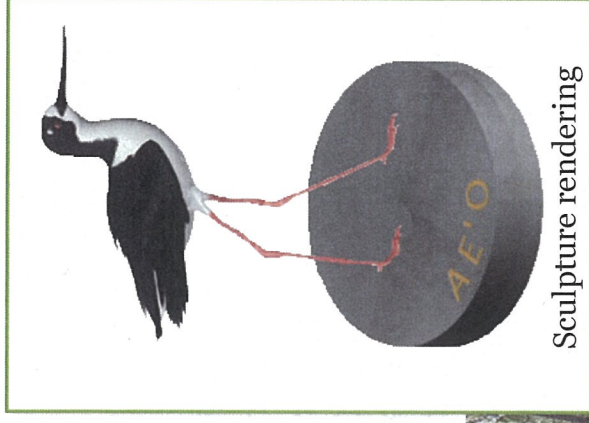


# ZONE 4

# Native Bird Discovery



Sculptures of native birds will be placed throughout the garden for visitors to discover. Like the albatross and honeycreepers in the courtyard area, the bird models in the garden aim to continue creating an atmosphere of being surrounded by native wildlife.



Sculpture rendering



NATIONAL AUDUBON SOCIETY  
**Certified**  
**WILDLIFE**  
**Habitat**  
This property provides the four basic  
habitat elements needed for wildlife:  
food, water, cover,



# ZONE 4

# Identifying Bird Sounds

If you look around our garden, you'll find five different native birds.



This display gives visitors a chance to hear the songs of the native birds that are modeled and displayed in the native garden.

Visitors crank the sound box then press one of the buttons corresponding to the bird they'd like to hear.

The sound box is weatherproof and completely human-powered (requires no electricity).



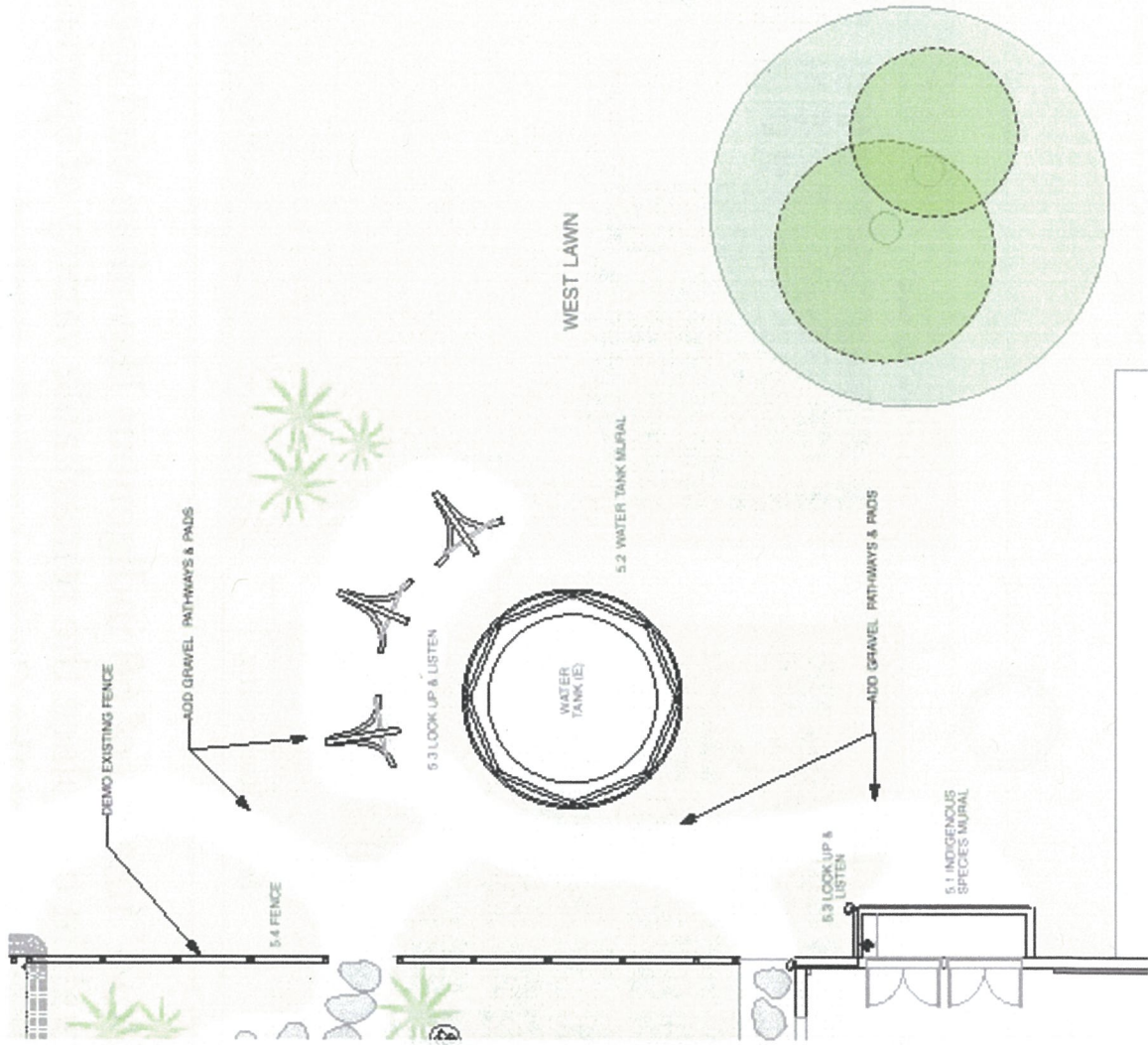
Bird Sounds graphic panel





# ZONE 5

## West Lawn





# ZONE 5

# Indigenous Species Mural



Mural Rendering

The Hawaii Wildlife Center is dedicated to the protection and preservation of native Hawaiian birds, including all native seabirds, shorebirds, waterbirds, and birds of prey. In total, there are 70 species and subspecies in all (most of which are shown here).

**INDIGENOUS SPECIES**  
Rita Shalshuberg  
Project Lead  
Jim Deery, M.S., DVM, MSW, DABVP  
Project Manager  
Jack Leffler  
Project Manager  
Hawaii Wildlife Center  
1001 W. Kalia Rd.  
Honolulu, HI 96818

**Indigenous Species Image Guide**

|    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
| 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |    |    |    |
| 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |    |    |    |
| 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |    |    |    |
| 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 |

**Sea Birds**

- 1. Christmas Island Petrel
- 2. Laysan Albatross
- 3. Black-footed Albatross
- 4. Brown Noddy
- 5. Red-footed Booby
- 6. Frigatebird
- 7. Masked Booby
- 8. Brown Booby
- 9. Red-footed Booby
- 10. Laysan Albatross
- 11. Black-footed Albatross
- 12. Brown Noddy
- 13. Red-footed Booby
- 14. Masked Booby
- 15. Brown Booby
- 16. Frigatebird
- 17. Laysan Albatross
- 18. Black-footed Albatross
- 19. Brown Noddy
- 20. Red-footed Booby
- 21. Masked Booby
- 22. Brown Booby
- 23. Frigatebird
- 24. Laysan Albatross
- 25. Black-footed Albatross
- 26. Brown Noddy
- 27. Red-footed Booby
- 28. Masked Booby
- 29. Brown Booby
- 30. Frigatebird
- 31. Laysan Albatross
- 32. Black-footed Albatross
- 33. Brown Noddy
- 34. Red-footed Booby
- 35. Masked Booby
- 36. Brown Booby
- 37. Frigatebird
- 38. Laysan Albatross
- 39. Black-footed Albatross
- 40. Brown Noddy
- 41. Red-footed Booby
- 42. Masked Booby
- 43. Brown Booby
- 44. Frigatebird
- 45. Laysan Albatross
- 46. Black-footed Albatross
- 47. Brown Noddy
- 48. Red-footed Booby
- 49. Masked Booby
- 50. Brown Booby
- 51. Frigatebird
- 52. Laysan Albatross
- 53. Black-footed Albatross
- 54. Brown Noddy
- 55. Red-footed Booby
- 56. Masked Booby
- 57. Brown Booby
- 58. Frigatebird
- 59. Laysan Albatross
- 60. Black-footed Albatross
- 61. Brown Noddy
- 62. Red-footed Booby
- 63. Masked Booby
- 64. Brown Booby
- 65. Frigatebird
- 66. Laysan Albatross
- 67. Black-footed Albatross
- 68. Brown Noddy
- 69. Red-footed Booby
- 70. Masked Booby

**Forest Birds**

- 34. Chinthee
- 35. Hawaii Creeper
- 36. Hawaii Noddy
- 37. Hawaii Monk Seal
- 38. Hawaii Noddy
- 39. Hawaii Noddy
- 40. Hawaii Noddy
- 41. Hawaii Noddy
- 42. Hawaii Noddy
- 43. Hawaii Noddy
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- 65. Hawaii Noddy
- 66. Hawaii Noddy
- 67. Hawaii Noddy
- 68. Hawaii Noddy
- 69. Hawaii Noddy
- 70. Hawaii Noddy

**Seabirds**

- 45. Laysan Albatross
- 46. Brown Noddy
- 47. Red-footed Booby
- 48. Masked Booby
- 49. Brown Booby
- 50. Frigatebird
- 51. Laysan Albatross
- 52. Black-footed Albatross
- 53. Brown Noddy
- 54. Red-footed Booby
- 55. Masked Booby
- 56. Brown Booby
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- 58. Laysan Albatross
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- 62. Masked Booby
- 63. Brown Booby
- 64. Frigatebird
- 65. Laysan Albatross
- 66. Black-footed Albatross
- 67. Brown Noddy
- 68. Red-footed Booby
- 69. Masked Booby
- 70. Brown Booby

**Islands of Pigeon**

- 69. Pigeon
- 70. Pigeon

Image guide enlarged

This mural made up of 10" x 10" images of 68 indigenous Hawaiian bird species. Here visitors are able to see all in one place the remarkable variety of species in our islands and the biological diversity that the Center works to protect.



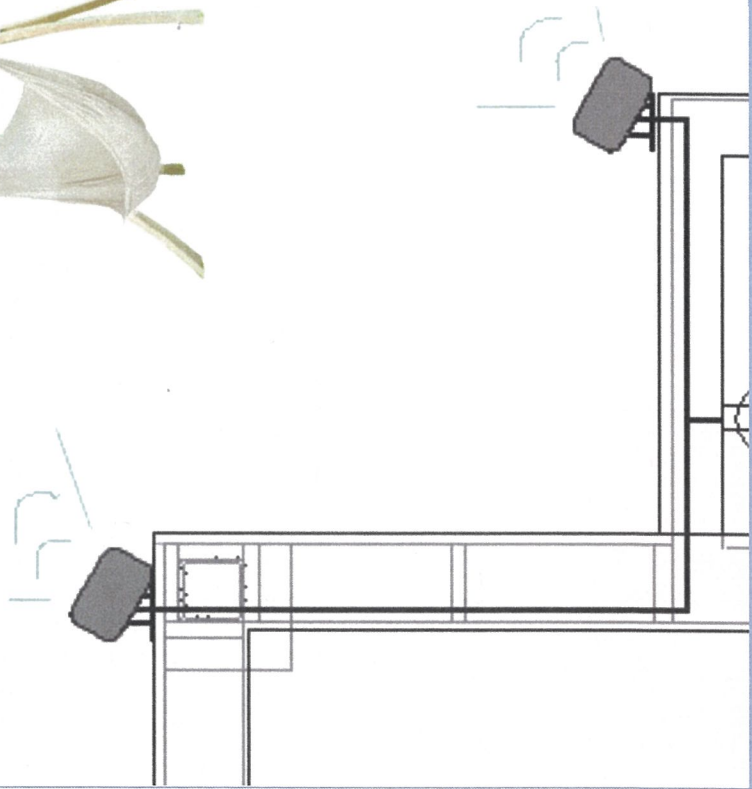
# ZONE 5

# Look Up and Listen



Hammock chairs

Look up and listen is an audio experience on the West Lawn. Visitors will find comfortable hammock chairs where they can relax and observe the sky as they listen to calls of native birds played on speakers mounted to the outside of the education pavilion.



## ZONE 5

# Water Tank Mural



This mural is a commission designed to wrap around the water tank on the west lawn. The mural illustrates the natural ecosystems in Hawai'i from the mountain to the sea, with representative birds from each habitat.

The goal is to encourage visitors to see how many birds they can spot while learning to make the connection between birds and their habitats.



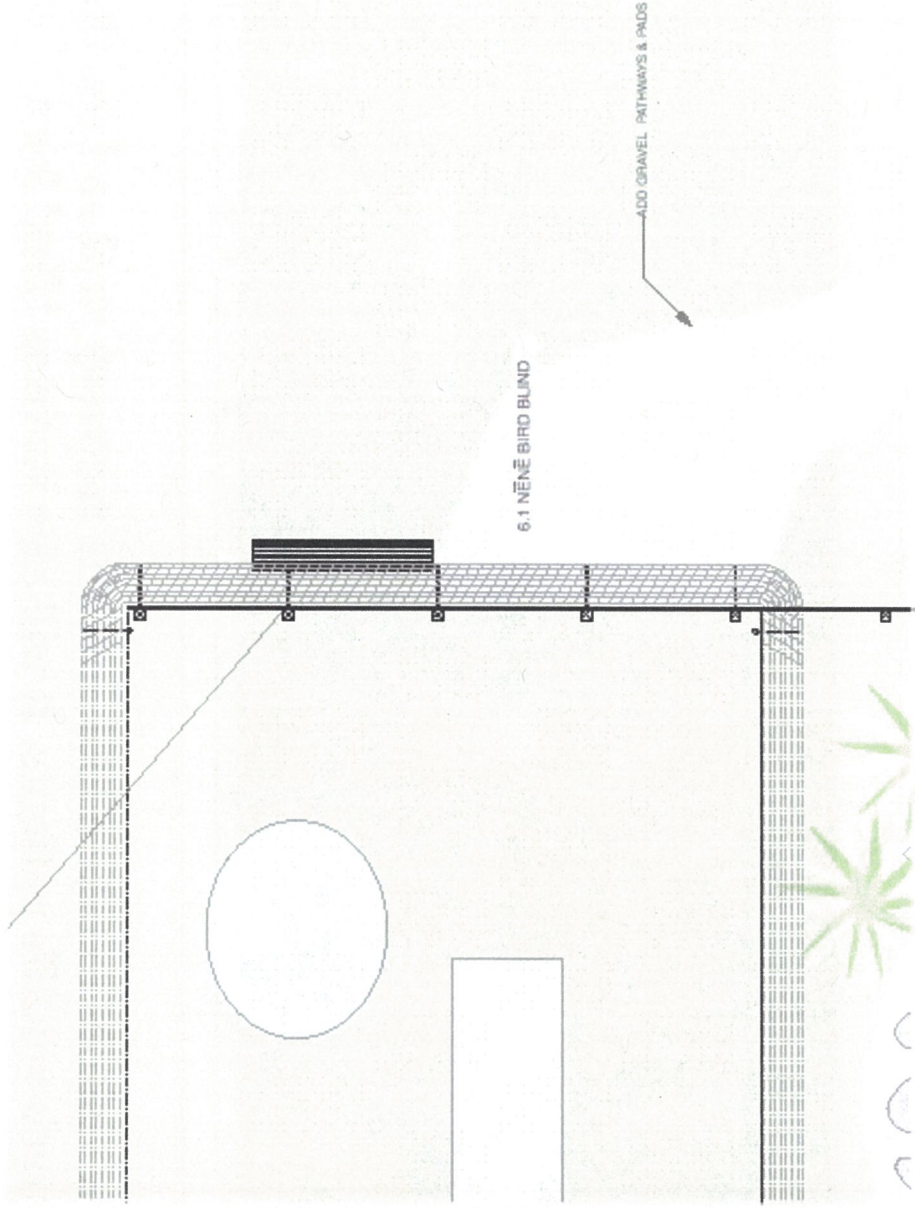
Mural rendering





# ZONE 6

## Recovery Yard/ Nēnē Exhibit





## ZONE 6

# Recovery Yard/Nēnē Viewing Blind



The viewing blind will allow visitors to take a look into the recovery yard and see the aviaries that house the Center's wildlife patients. It will also serve as blind for a possible future educational Nēnē exhibit as well. The goal is to provide good viewing without disturbing the birds.



# ZONE 6

# Recovery Yard/Nēnē Viewing Blind

## Recovery Yard Graphic Panel



## The Recovery Yard *Kahalemanu*

Spending time in the recovery yard is one of the last steps before an animal is released back to the wild. If you peek through the slats of the fence, you can catch a glimpse of the different aviaries in the yard.

The outdoor aviaries in the recovery yard have been custom-built for five different types of native birds: seabirds, shorebirds, waterbirds, birds of prey, and forest birds. These aviaries allow recovering birds to exercise and build their strength before they are released.

Conditioning pools are especially important to recovering seabirds, a place to bathe and regain their waterproofing. Before release, our staff makes sure the bird is waterproof and comfortable on the water.

**PROTECTING OUR PATIENTS**  
The predator-proof fence surrounding the yard is designed to keep out dogs, cats, pigs and mongoose. Although the aviaries in the yard are secure, the fence provides an additional measure of protection for our recovering birds.

**WHY SO PRIVATE?**  
Our birds are wild and our goal is to keep them that way, so we work hard to minimize exposure to humans. That's why we ask our visitors to stay behind the fence, where they can't see you.

This graphic explains the importance of the recovery yard, including the specialized aviaries and conditioning pools.



## ZONE 6

# Recovery Yard/Nēnē Viewing Blind

Future Nēnē Exhibit



The Center hopes to create a future exhibit with non-releaseable Nēnē to give visitors the opportunity for viewing live native birds. Other species may be added to this exhibit as well.

