Make the following Section a part of the Standard Specifications:

"SECTION 671 – PROTECTION OF THREATENED AND ENDANGERED SPECIES

671.01 Description. The endangered Hawaiian hoary bat or 'ope'ape'a (Lasiurus cinereus semotus) may roost, forage, and rear young in the general vicinity of the proposed project. Endangered Hawaiian waterbirds, including the Hawaiian stilt or ae'o (Himantopus mexicanus knudseni), the Hawaiian coot or 'alae ke'oke'o (*Fulica americana alai*), the Hawaiian gallinule or 'alae 'ula (*Gallinula* galeata sandvicensis), and the Hawaiian duck or koloa (Anas wyvilliana) are known to be in the general vicinity of the project and may be attracted to the project staging areas even in sub-optimal locations if water is present. Also to be considered is the threatened Hawaiian goose or nēnē (Branta [=Nesochen] sandvicensis) which may use the construction staging areas or areas adjacent to the roadway. Additionally, the project site is located in a known flight corridor for the endangered Hawaiian petrel or 'ua'u (Pterodroma sandwichensis), the endangered Hawai'i DPS of the band-rumped storm-petrel or 'ake'ake (Oceanodroma castro), and the threatened Newell's shearwater or 'a'o (Puffinus auricularis newelli), hereinafter referred to as Hawaiian seabirds.

The Contractor shall protect these threatened and endangered species throughout the construction duration.

671.02 Materials. None

671.03 Construction.

- **(A) Pre-Construction and Construction Requirements.** Comply with the following conditions and the notes in the Contract Plans:
 - (1) Hawaiian Hoary Bat. Hawaiian hoary bats nest in both native and non-native woody vegetation.

The Contractor shall incorporate these measures to avoid and minimize project-related adverse effects to the Hawaiian hoary bat:

- (a) There shall be no disturbance, removal, or trimming of woody plants greater than 15 feet (4.6 meters) tall during the bat birthing and pup rearing season (June 1 through September 15).
- **(b)** Barbed wire shall not be used for fencing.
- (2) Hawaiian Waterbirds. Hawaiian waterbirds occupy fresh and brackish water marshes, coastal estuaries and natural or manmade ponds. Hawaiian stilts also occupy areas with ephemeral or persistent standing water. Because this project occurs near water, threats to these species from this project may include predation, reduced reproductive success, disturbance from human activity and injury or mortality from vehicle strikes.

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The Contractor shall incorporate these measures to avoid and minimize project-related adverse effects to Hawaiian waterbirds:

- (a) In areas where known presence of Hawaiian waterbirds occurs, post, implement and enforce reduced speed limits, and inform project personnel and Contractors of the presence of these endangered species on-site.
- **(b)** Because water resources occur in the project site, employ U.S. Fish and Wildlife Service (USFWS) Best Management Practices for Work in Aquatic Environments.
- (c) Survey for Hawaiian waterbirds and nests within the vicinity of the project area prior to initiation of project work using survey biologists familiar with the species' biology. Survey biologists should be trained and capable of identifying adults and juveniles of each species, nesting behaviors, and nests
 - i. Surveys for species and nests should be repeated when a delay of work occurs that is three days or (during which the birds may attempt to nest).
 - **ii.** If a nest or active brood is found, contact USFWS within 24 hours for further guidance.
 - iii. Establish and maintain a 100-ft buffer around all active nests and/or broods until the chicks/ducklings have fledged. Do not conduct potentially disruptive activities or habitat alteration within this buffer.
 - iv. A biological monitor that is familiar with the species' biology shall be present on the project site during all construction or earth moving activities until the chicks/ducklings fledge to ensure that Hawaiian waterbirds and nests are not adversely affected.
 - v. Additionally, biological monitor is required during Hawaiian stilt nesting season from February 15 through August 31.
 - I. A biological monitor that is familiar with the species' biology and approved by the Federal Highways Administration will conduct Hawaiian stilt nest surveys where appropriate

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habitat occurs within the proposed maintenance site prior to cleaning culverts and drainage structures.

- II. Surveys will take place within three days of project initiation and after any subsequent delay of work of three or more days (during which the birds may attempt to nest).
- (3) Hawaiian Goose. Hawaiian goose or nēnē uses various habitat types. Threats to the species from this project include disturbance from human presence, and injury and mortality from vehicle strikes. An increased human presence at the project site could disturb nēnē nesting, foraging, or loafing in the area.

The Contractor shall incorporate these measures to avoid and minimize project-related adverse effects to the nene:

- (a) Nēnē in or near the project area shall not be approached, fed, or disturbed in any way.
- (b) If nēnē are observed loafing, foraging, or otherwise present within the project area during the breeding season (September 1 through April 30), a trained biologist familiar with nēnē nesting behavior will survey the area in and around the project area for nests prior to work each day. Surveys will be repeated after any subsequent delay of work of three or more days (during which the birds may attempt to nest).
- (c) If a nest is identified within a radius of 150 feet of the project area, or a previously undiscovered nest is found within the 150-foot radius after work begins, all work shall cease and the USFWS will be contacted immediately for further guidance.
- (d) Reduced speed limits shall be posted and implemented in areas where nēnē are known to be present, and project personnel and Contractors will be informed of the presence of endangered species onsite. There shall be no feeding of birds or dogs on the project site.
- (4) Hawaiian Seabirds. Hawaiian seabirds may traverse the project area at night during breeding, nesting and fledgling season, which extends from March 1 through December 15. Additional or increased lighting exacerbates the problem of Newell's shearwater fallout.

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Fallout shall be defined as the occurrence of seabirds being harmed, injured or killed and falling to the ground due to: 1) collision with structures such as wires, poles, or other objects; 2) light attraction and the resulting collision with structure associated with or near the light sources; or, 3) the exhaustion from circling the light source.

If night-time work will be required in conjunction with the development of the project, the Contractor shall incorporate these measures to avoid and minimize project-related adverse effects to Hawaiian seabirds:

- (a) Before beginning any work at the project site, the Contractor shall:
 - i. Collect information regarding the protection of seabirds and seabird fallout.
 - ii. Submit to the Engineer for acceptance a protection of seabirds training plan including a detailed description of information and materials the Contractor intends to use in the training classes. The training plan shall be submitted to the Engineer for acceptance at least 15 days in advance of the class. If the Engineer rejects the training plan, the Contractor shall revise and promptly propose another training plan.
 - iii. Disseminate information regarding the protection of seabirds and seabird fallout by conducting training classes for all employees, subcontractors, suppliers and other personnel working on the project, including HDOT personnel, on such topics as the Save Our Shearwater (SOS) program, proper use of temporary lighting, procedures to store and report downed seabirds, and the consequences of non-compliance with the laws regarding threatened and endangered seabirds. The Engineer may request for additional topics related to seabirds to be included in the training classes.

Training classes shall be taught by authorized representatives of the USFWS, the Department of Land and Natural Resources, the SOS program or other qualified personnel accepted by the Engineer.

iv. Furnish the Engineer with evidence that the Contractor has held training classes, including the

197		dates of the classes, identify who conducted the
198 199		training, and the content and nature of the training.
200	(b) Th	ne Contractor shall comply to the following
201		ion requirements:
202		
203	i.	As directed by the Engineer, the Contractor shall
204		conduct additional training classes during the
205		project to update all employees, subcontractors,
206		suppliers, HDOT personnel and other personnel on
207		new and/or updated information regarding the
208		protection of seabirds and seabird fallout.
209		
210	ii.	All temporary lights used for night work (between
211		sunset and sunrise) shall contain less than 2%
212		wavelengths less than 550 nm, and shall be
213		downward-facing and shielded so the bulb can only
214		be seen from below. Temporary lights shall include
215		but are not limited to flood lights, light towers, lights
216		for construction equipment and other lights as
217		determined by the Engineer. All traffic control
218		devices, including warning lights, arrow boards,
219		portable changeable message signs and other
220		lighting device as determined by the Engineer shall
221		be shielded.
222		
223	iii.	Night time construction and the use of all temporary
224		lights shall cease during the peak seabird fledgling
225		period (September 15 through December 15).
226	_	
227	iv.	The Contractor shall furnish and maintain a small
228		(approximately 10" x 12" x 19"), portable cat kennel
229		on site to temporarily hold a downed seabird. The
230		Contractor shall obtain acceptance of the cat
231		kennel from the Engineer prior to use.
232		If a day, and does does bind in favored the Contractor
233	V.	If a downed dead seabird is found, the Contractor
234		shall contact the USFWS (Ms. Megan Laut at 808-
235		792-9400) within 24 hours.
236 237	vi	If the downed eachird is alive, the Contractor shalls
238	vi.	If the downed seabird is alive, the Contractor shall:
239		I. Pick up the seabird from behind as soon
240		as possible using a clean towel, t-shirt or cloth
241		by gently wrapping it around its back and wings.
242		by gondy widpping it around its back and wings.
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243		II. Place the seabird in the	cat kennel and
244		immediately contact the	SOS Program
245		Coordinator at 808-635-511	•
246		instructions on where to deliver	
247			
248		III. Deliver the seabird to	n the location
249		determined by the coordinate	
250		program and as directed by the	
251		program and as directed by the	Liigineer.
252		IV. Keep the seabird in a coo	al quiet location
253		and out of direct sunlight	•
			with adequate
254		ventilation.	
255		V TI O ()	
256		V. The Contractor and any	
257		site shall not feed, provide w	ater, handle or
258		release the seabird.	
259			
260		e Contractor shall maintain recor	
261		abirds for the duration of the proje	
262	sh	all include the date, time, location	n and condition
263	(de	ead or alive) the seabird was foun	d and delivered.
264	Sı	ibmit a copy of the records to the	e Engineer after
265	fin	ding each and every downed sea	abird.
266		-	
267		•	ntractor shall
268		above for the duration of constru	
269	comply with the construction	on requirements, harm or a taking	of an individual
270		ration shall be enforceable by the	
271		pecies Act. Resultant penalties a	
272273	be at the Contractor's exp	ense without cost or liability to the	e State.
274	671.03 Measurement. The	e Engineer will measure the work	required for the
275	protection of threatened and en		
276	accordance with Subsection	109.06 - Force Account I	Provisions and
277	Compensation and as ordered by		TOVISIONS UNIA
278	componication and do ordered by	, the Engineer.	
279	671.04 Payment. The E	Engineer will pay for the accept	ed protection of
280	threatened and endangered spec		
281	Subsection 109.06 - Force Acco	unt Provisions and Compensatio	n. Payment will
282	be full compensation for the work	prescribed in this section, by th	e Engineer, and
283	in the contract documents.		
284			
285		r the following pay item when	included in the
286	proposal schedule:		
287	Pay Itom		Pay Unit
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299	Protection of Threatened and En	dangered Species	Force Account
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An estimated amount may be allocated in the proposal schedule under
"Protection of Threatened and Endangered Species", but the actual amount to be
paid will be the sum shown on the accepted force account records, whether this
sum be more or less than the estimated amount allocated in the proposa
schedule."
END OF SECTION 671