

# CHAPTERS

	<b>Page</b>
<b>1. INTRODUCTION .....</b>	<b>1</b>
PROPOSED UNDERTAKING .....	1
PROJECT AREA.....	8
<b>2. CULTURE-HISTORICAL CONTEXT AND AHUPUA‘A SETTLEMENT PATTERNS .....</b>	<b>13</b>
CULTURE-HISTORICAL CONTEXT.....	13
PREVIOUS ARCHAEOLOGICAL STUDIES .....	38
<b>3. HISTORIC PROPERTIES AND ANTICIPATED REMAINS.....</b>	<b>48</b>
KNOWN HISTORIC PROPERTIES WITHIN THE VICINITY OF THE AREA OF POTENTIAL EFFECT.....	48
Lauhulu Stream Bridge (SHIP Site 8080).....	48
Ceremonial Modified Outcrop (SIHP Site 8949).....	48
Anticipated Archaeological Remains .....	49
<b>4. THE MONITORING EFFORT.....</b>	<b>50</b>
FIELD METHODS .....	50
Cultural Deposits.....	50
Cultural Features .....	50
Artifacts .....	51
Human Skeletal Remains .....	51
TREATMENT OF RECOVERED REMAINS.....	51
Cultural Material .....	51
Recovered Samples .....	51
Human Skeletal Remains .....	51
REPORTING.....	51
CURATION OF RECOVERED ITEMS .....	52
<b>REFERENCES CITED.....</b>	<b>53</b>

# FIGURES

	<b>Page</b>
1. Portion of a 1996 USGS 7.5 Quadrangle Haleiwa with project area.....	2
2. Recent satellite imagery with project area.....	3
3. Tax Map Key (TMK) map for plats (1) 6-1-005, -009, and -010 .....	4
4. Aerial with project area outlined in red and TMK parcels shown outlined in black .....	4
5. <b>Proposed alignment route in the vicinity of Laniākea Beach.</b> .....	5
6. Close up of the southern section of the proposed alignment .....	6
7. Close up of the northern section of the proposed alignment.....	7
8. Aerial with soil survey overlay (Soil Survey Staff 2020).....	9
9. Portion of USGS map with geological overlay (Sherrod, et al. 2007).....	9
10. Grassed open pasture in the southern portion of the project area, view to the northeast .....	10
11. Edge of grassed open pasture at Lauhulu Stream drainage (in background), view to the north.....	10
12. <i>Hau</i> and <i>kiawe</i> on the northern side of Lauhulu Stream, view to the northeast.....	11

## FIGURES

	Page
13. Grassed open pasture in the north-central portion of the project area, view to the northeast .....	11
14. Grass and tree species in the northern portion of the project area, view to the northeast.....	12
15. <i>Ēkoa</i> and banyan with mixed grasses in the northern section of the project area, view to the northeast.....	12
16. <b>Hawai‘i Registered Map No. 2374 by J. M. Donn from 1902 showing the project area (shaded red) within the Kawaihoa Ahupua‘a, Waialua District.....</b>	14
17. Anahulu River located to the west of the current project area ( <b>Hawai‘i State Archives, PP-41-09-008</b> ).....	15
18. Map of major archaeological sites in coastal Waialua (Kirch 1992:18). ....	16
<b>19. ‘Uko‘a Pond located southwest of the current project area .....</b>	<b>17</b>
20. Drawing by Paul Rockwood based on knowledge of trails from John Papa ‘Ī‘ī with the approximate location of the project area, which is parallel to a trail. ....	18
21. Pua‘ena Point (right) and project area located just beyond the edge of photo (UHM SOEST 2005).....	21
22. Pu‘u o Mahuka Heiau above Waimea Bay ca. 1930s ( <b>Hawai‘i State Archives, PP-35-7-025</b> ). ....	24
23. Kupopolo Heiau ca. 1905 looking makai ( <b>Hawai‘i State Archives, Thrums Collection PP-35-7-019</b> ).....	25
24. Helemano Stream (above right) and Poamoho Stream (below right) emptying into Kaīaka Bay; where the streams converge to the bay is the former location of Kapukapuakea Heiau (UHM SOEST 2005).....	26
25. <b>Hawai‘i Registered Map No. 1606 from 1892 showing the lands claimed and awarded to Victoria Kamāmalu in Waialua with the project area.....</b>	<b>30</b>
26. <b>Hawai‘i Registered Map 2054 from 1901 showing lands of the Waialua Agricultural Company in Kawaihoa and the location of the kuleana parcels.....</b>	<b>32</b>
27. <b>Inset 1, a portion of Hawai‘i Registered Map No. 2054 showing a close up of the proposed project area vicinity.....</b>	<b>32</b>
28. Portion of Plat Map 2069, Kawaihoa Forest Reserve map from 1924 by C. Murray depicting upper reaches of sugarcane.....	35
29. Portion of 1929 USGS, Haleiwa Quadrangle showing various plantation camps and infrastructure.....	35
30. Haleiwa Field, ca. 1943-1944 ( <b>Hawai‘i Aviation</b> ).....	36
31. Prior studies conducted in the general project area vicinity. ....	39
32. Prior studies conducted within and in the immediate vicinity of the project area .....	40
<b>33. Portion of McAllister’s (1933) map of sites located in the general vicinity of the current project area, which is outlined in red (from Sterling and Summers 1978). ....</b>	<b>42</b>
34. A portion of Tulchin et al. (2012:83) site distribution map with northern section of the current study area shaded red.....	47
35. Aerial image of Lauhulu Stream Bridge (SHIP Site 8080) within current project area. ....	49

## TABLES

	Page
1. <i>Kuleana</i> Awards within the Project Area Vicinity .....	31
2. Prior studies conducted in the general vicinity of the project area. ....	38
3. Prior studies conducted within and in the immediate vicinity of the project area. ....	40

4. Early-recorded sites in the general vicinity of the project area.....	41
5. Previous archaeological studies in the immeditae vicinity of the Project Area .....	46

