BENJAMIN M. MATSUBARA, #993-0 CURTIS T. TABATA, #5607-0 Matsubara, Kotake & Tabata 888 Mililani Street, Suite 308 Honolulu, Hawai`i 96813



Attorneys for Petitioner HAWAIIAN MEMORIAL LIFE PLAN, LTD

BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of)	DOCKET NO. A17-804
)	
HAWAIIAN MEMORIAL LIFE PLAN, LTD.)	PETITIONER HAWAIIAN
)	MEMORIAL LIFE PLAN, LTD.'S
To Amend The Conservation Land Use)	MEMORANDUM RE JUNE 18,
District Boundary Into The Urban Land Use)	2025 STATUS REPORT
District For Approximately 53.449 Acres Of)	HEARING; DECLARATION OF
Land At Kāne'ohe, Island of Oahu, State of)	CURTIS T. TABATA; EXHIBITS
Hawai`i, Tax Map Key: (1) 4-5-033: por. 001)	"1" – "20" AND CERTIFICATE
)	OF SERVICE
	1	

PETITIONER HAWAIIAN MEMORIAL LIFE PLAN, LTD.'S MEMORANDUM RE JUNE 18, 2025 STATUS REPORT HEARING

Comes now, Petitioner HAWAIIAN MEMORIAL LIFE PLAN, LTD., by and

through its attorneys, MATSUBARA, KOTAKE & TABATA, and hereby submits

Petitioner Hawaiian Memorial Life Plan, Ltd.'s Memorandum Re June 18, 2025 Status

Report Hearing ("Memorandum").

1. <u>Introduction</u>

This Memorandum is being submitted to provide a history of this Land Use Commission ("LUC") Docket A17-804. The subject of this docket is the Hawaiian Memorial Park Cemetery Expansion Project ("Project"). This Memorandum will cover the events leading up to the approval of the reclassification in 2020, and then discuss the first Status Report Hearing in 2022, and the recent events leading up to the upcoming Status Report Hearing on June 18, 2025.

At the hearing on June 18, 2025, Petitioner will provide additional information relating to the Project.

2. <u>Events leading up to reclassification</u>

The Petitioner is Hawaiian Memorial Life Plan, Ltd. ("HMLP" or "Petitioner"). The existing cemetery where the Project is located is called Hawaiian Memorial Park ("HMP"). HMLP serves over 3800 families in Hawaii annually and provides Statewide and National Funeral and Cemetery portability, and has over 204 employees in Hawaii. *See* Testimony of Jay Morford, attached hereto Exhibit "1".

HMP is an existing 80-acre cemetery and is a part of HMLP's cemetery operations, located in Kaneohe, Oahu, and established in 1958. *See* Location Map, attached hereto as Exhibit "2".

On November 13, 2017, Petitioner filed its Petition for District Boundary Amendment, to reclassify approximately 53.449 acres from the State Conservation Land Use District to the State Urban Land Use District for the development of the Project.

The Project is comprised of: 1) the 27.5-acre expansion of the existing HMP cemetery; 2) creation of a 14.5-acre cultural preserve; 3) 11.45 acres of buffer, open space and internal roadways; and 4) a 156.5-acre conservation easement. *See* Findings of Fact, Conclusions of Law and Decision and Order filed on October 13, 2020, attached hereto as Exhibit "3"; and the Updated Site Plan, attached hereto as Exhibit "4".

On April 26, 2019, the LUC accepted Petitioner's Final Environmental Impact Statement ("FEIS") and entered its Findings of Fact, Conclusions of Law and Decision and Order Accepting Petitioner's FEIS. Exhibit "3".

On December 13, 2019, the LUC entered its Order Granting Hui O Pikoiloa's Petition to Intervene. Exhibit "3".

On October 13, 2020, the LUC approved the reclassification of the Petition Area and entered its Findings of Fact, Conclusions of Law and Decision and Order ("2020 D&O"). Exhibit "3".

3. <u>2022 Status Report Hearing</u>

Less than two years after approval of the reclassification, the LUC scheduled a Status Report Hearing on August 24, 2022. *See* Decision and Order Regarding 2022 Status Report Hearing, attached hereto as Exhibit "5".

Petitioner was required to appear at the 2022 Status Report Hearing even though Petitioner had not missed any deadlines in the 2020 D&O, and there were no claims that the Petitioner had violated any of the conditions in the 2020 D&O.

On August 24, 2022, the LUC held the 2022 Status Report Hearing at the Airport

Conference Center (in Hawaiian Airlines Terminal Building) on Oahu. Exhibit "5".

On October 4, 2022, the LUC issued its Decision and Order Regarding 2022

Status Report Hearing ("2022 Order"). Exhibit "5". The 2022 Order required the

following actions:

- 1. Petitioner's next annual report provide an updated development timetable and estimated cost for subsequent improvements; in order that the Commission can determine whether Petitioner's financial commitment to the Project needs to be adjusted.
- 2. Petitioner share information on the design of the geotechnical boring and detention basins with the other parties *leading up to the final grading plan submittal* to the County. The intent is to identify early on if there are any oversights or errors based on representations and conditions contained in the Decision and Order.
- 3. The County Department of Planning and Permitting ("DPP") consult with the Intervener and their experts during their comprehensive review of the compliance of the grading plans to the conditions of the Decision and Order, which are different and more stringent than the County's base requirements. (emphasis added).

On October 11, 2022, Petitioner sent a letter to the LUC in response to the 2022

Order. With respect to the second requirement in the 2022 Order, Petitioner provided a letter from Coffman Engineers, Inc. ("Coffman"). Coffman stated that Coffman was the owner of its engineering work product related to the Project, that it cannot share the work product at the moment, that the work product is preliminary, confidential and proprietary; and that the work product would be provided after permit review. *See*

Petitioner's letter dated October 11, 2022 and Coffman's letter dated October 11, 2022, attached hereto as Exhibit "6".

Petitioner did not receive a reply to its October 11, 2022 letter for almost two and a half years.

On October 11, 2024, Petitioner filed its fourth and most current Annual Status Report. *See* Petitioner's 2024 Annual Status Report, attached hereto as Exhibit "7".

4. <u>2025 Status Report Hearing</u>

On February 1, 2025, Intervenors sent their letter to Petitioner claiming that Petitioner has refused to comply with the second requirement of the 2022 Order, that Petitioner has already submitted its final grading plans to the City without sharing the grading plans with Intervenors and is therefore in violation of the 2022 Order. *See* Intervenors' February 1, 2025 letter, attached hereto as Exhibit "8".

On February 10, 2025, Petitioner responded to Intervenors' February 1, 2025 letter and stated that Petitioner had not refused to comply with and was not in violation of the 2020 Order, that design documents will be provided to Intervenors after permit review, that the final grading plans have not yet been submitted to the City, and that Intervenors' review of the documents will be prior to submission of the final grading plans. *See* Petitioner's letter dated February 10, 2025, attached hereto as Exhibit "9".

In addition, Petitioner noted that the Intervenors' engineer, John Higham, had already reviewed the Grading Permit Application Submissions at the City, that Mr.

Higham had sent several questions and comments to the City, and that Coffman would be providing responses to Mr. Higham's questions and comments. Exhibit "9".

On March 12, 2025, the LUC sent Petitioner a letter scheduling a Status Report Hearing for May 21, 2025, later rescheduled to June 18, 2025, concerning compliance with the second requirement of the 2022 Order. *See* LUC's letter dated March 12, 2025, attached hereto as Exhibit "10".

On April 7, 2025, Petitioner sent to the LUC a letter stating that Coffman had agreed to provide the Grading Permit Application Submissions to the Intervenors, and that Coffman had provided responses to John Higham's questions and comments regarding Coffman's Grading Permit Application Submissions. Given that Coffman had agreed to provide the requested documents, Petitioner stated that there was no need to conduct a Status Report Hearing.

Petitioner's April 7, 2025 letter enclosed two letters from Coffman: 1) Coffman's April 7, 2025 letter to Petitioner indicating that it would provide the Grading Permit Application Submissions even though the documents were still preliminary, confidential and proprietary; and 2) Coffman's letter to John Higham dated April 7, 2025 responding to Mr. Higham's questions and comments regarding the Grading Permit Application Submissions. *See* Petitioner's letter dated April 7, 2025 and Coffman's two letters of the same date, attached hereto as Exhibit "11".

Petitioner's April 7, 2025 letter also enclosed a CD of the of the Grading Permit Application Submissions because the documents were too voluminous to be printed on paper or emailed.

On April 28, 2025, John Higham responded to Coffman's letter dated April 7, 2025 and requested that the temporary sedimentation traps be made permanent based on the assumption that permanent sedimentation traps would reduce the storm water runoff flow. *See* John Higham's letter dated April 25, 2025, attached hereto as Exhibit "12".

On May 15, 2025, Petitioner sent to the LUC and the parties another CD with updated Grading Permit Application Submissions, the content of which can be found on the LUC's website. *See* Petitioner's May 15, 2025 letter, attached hereto as Exhibit "13".

On May 17, 2025, Intervenors sent a letter to the LUC with six questions relating to Petitioner's Project. *See* Intervenors' May 17, 2025 letter, attached hereto as Exhibit "14". Intervenors' six questions and Petitioner's responses to the questions are as follows:

Question 1: Can Petitioner design for additional on-site water retention beyond the LUC's minimum (per Finding of Fact 273)? The question refers to John Higham's letter where he argues that the temporary sedimentation traps should be made permanent.

Response to Question 1: In Coffman's response to Mr. Higham's questions dated May 29. 2025, Coffman explains that the proposed grading plan complies with all City and LUC requirements, and that the temporary sedimentation traps would provide little to no runoff reduction if made permanent, and making the traps permanent would conflict with proposed grade heights. *See* Coffman's letter dated May 29, 2025, attached hereto as Exhibit "15".

Coffman also provided a letter to Petitioner dated May 29, 2025 where Coffman disputed that it is only doing the minimum required by the LUC. Coffman explains that the proposed grading plan will reduce the existing runoff flow by 21%. *See* Coffman's letter to Petitioner dated May 29, 2025, attached hereto as Exhibit "16".

Question 2: Should the sedimentation traps be built outside the 150' residential buffer? Intervenors argue that the 150-foot buffer prohibits drainage improvements within the buffer.

Response to Question 2: The sedimentation traps are correctly located.

First, the 150-foot buffer was created to enforce the 150-foot buffer required by the Ko'olau Poko Sustainable Community Plan ("KPSC"). Finding of Fact 317 of the 2020 D&O, Exhibit "3". The KPSC created the 150-foot buffer to provide 150 feet of separation between the cemetery expansion and the residential homes. *See* page 6-65 of the Final Environmental Impact Statement for Hawaiian Memorial Park Cemetery Expansion Project, attached hereto as Exhibit "17". The cemetery expansion area, as

shown on Exhibit "4", is outside of the buffer area and intended for future casket burials/interments and inurnments for cremation.

In fact, the preliminary grading plan that was included in the 2018 Preliminary Engineering Report ("PER") that was attached to the FEIS shows drainage basins located within the 150-foot buffer area because the 150-foot buffer was never intended to exclude drainage improvements. *See* Figure 3.1 from the PER, attached hereto as Exhibit "18".

Second, Intervenors' argument that sedimentation traps do not belong within the 150-foot buffer contradicts Intervenors' engineer John Higham's argument that the sedimentation traps located within the 150-foot buffer should be made permanent. The logical fallacy of this "heads I win, tails you lose" argument is compounded by the fact that the 150-foot buffer does not prohibit temporary sedimentation traps, and there is no engineering reason to make the temporary sedimentation traps permanent.

Question 3: When will the LUC-mandated erosion and sedimentation control improvement be installed to manage excess runoff from the forest clearing?

Response to Question 3: Intervenors quote Condition number 6 from the 2020 D&O to argue that erosion and sedimentation controls must be installed prior to clearing (tree cutting). Intervenors ignore the part of Condition 6 that says "clearing <u>and grubbing</u>". (emphasis added) Condition 6 on page 143 of the 2020 D&O, Exhibit "3". Grubbing is tree root removal and, therefore, involves ground disturbance. *See*

Section 18A-1.3 Revised Ordinances of Honolulu, definition of grubbing, attached hereto as Exhibit "19". This makes sense because ground disturbance has the potential of facilitating erosion and sedimentation during rain; whereas just cutting trees and leaving the tree stumps do not. Petitioner will provide information at the Status Report Hearing to confirm that there is no grubbing or ground disturbance taking place at the Project at this time.

Nevertheless, Petitioner has instructed the contractor to install non-ground disturbing BMP's to address potential erosion and sedimentation as a courtesy to adjacent properties. Exhibit "16".

Question 4: When is the Grading Permit approval expected?

Response to Question 4: The grading permit review is continuing at the City and County of Honolulu, Department of Planning and Permitting. Grading permit approval is anticipated in the summer of 2025. The time of approval cannot be guaranteed however. Exhibit "16".

Question 5: What is the project start of development?

Response to Question 5: The project will commence development upon approval and acquisition of the required permits. With the expected approval of permits to be completed in summer of 2025, project commencement is anticipated shortly after that period. Exhibit "16".

Question 6: Can there be more community communication beyond the blog post to <u>www.hmpfacts.com?</u>

Response to Question 6: Petitioner has provided community outreach and communication in compliance with Condition number 15 of the 2020 D&O, as described in its Annual Status Report, Exhibit "7". Petitioner will provide additional information regarding community outreach at the Status Report Hearing.

Finally, Petitioner will call witnesses at the June 18, 2025 Status Report Hearing. One of the witnesses will be Jami Hirota, the Project's Civil Engineer. *See* Resume of Jami Hirota, attached hereto as Exhibit "20".

DATED: Honolulu, Hawai`i, June 10, 2025.

Of Counsel: MATSUBARA, KOTAKE & TABATA A Law Corporation

Curto 7. Tibati

BENJAMIN M. MATSUBARA CURTIS T. TABATA Attorneys for Petitioner HAWAIIAN MEMORIAL LIFE PLAN, LTD.

BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of) HAWAIIAN MEMORIAL LIFE PLAN, LTD.) To Amend The Conservation Land Use) District Boundary Into The Urban Land Use) District For Approximately 53.449 Acres Of) Land At Kāne'ohe, Island of Oahu, State of) Hawai`i, Tax Map Key: (1) 4-5-033: por. 001) DOCKET NO. A17-804

DECLARATION OF CURTIS T. TABATA

DECLARATION OF CURTIS T. TABATA

Curtis T. Tabata states as follows:

1. I am over 18 years of age, and I am one of the attorneys representing HAWAIIAN MEMORIAL LIFE PLAN, LTD. ("HMLP" or "Petitioner"), the Petitioner in the above-entitled matter. I have personal knowledge of the matters set forth in this Declaration, and, if called upon to testify, I could and would competently testify thereto.

2. Attached to the Petitioner's Memorandum Re June 18, 2025 Status Report Hearing ("Memorandum") as Exhibit "1" is a true and correct copy of the Testimony of Jay Morford.

3. Attached to the Memorandum as Exhibit "2" is a true and correct copy of the Location Map for the Hawaiian Memorial Park Cemetery Expansion Project ("Project").

4. Attached to the Memorandum as Exhibit "3" is a true and correct copy of the Findings of Fact, Conclusions of Law and Decision and Order in Docket No. A17-804 filed on October 13, 2020.

5. Attached to the Memorandum as Exhibit "4" is a true and correct copy of the Updated Site Plan for the Project.

6. Attached to the Memorandum as Exhibit "5" is a true and correct copy of the Decision and Order Regarding 2022 Status Report Hearing.

7. Attached to the Memorandum as Exhibit "6" is a true and correct copy of Petitioner's letter to the Land Use Commission dated October 11, 2022 and Coffman Engineers, Inc.'s letter dated October 11, 2022.

8. Attached to the Memorandum as Exhibit "7" is a true and correct copy of Petitioner's 2024 Annual Status Report.

9. Attached to the Memorandum as Exhibit "8" is a true and correct copy of Intervenors' letter to Petitioner dated February 1, 2025.

10. Attached to the Memorandum as Exhibit "9" is a true and correct copy of Petitioner's letter to Intervenors dated February 10, 2025.

11. Attached to the Memorandum as Exhibit "10" is a true and correct copy of the Land Use Commission's letter to Petitioner and Intervenors dated March 12, 2025.

12. Attached to the Memorandum as Exhibit "11" is a true and correct copy of Petitioner's letter to the Land Use Commission dated April 7, 2025 and Coffman Engineers, Inc.'s two letters dated April 7, 2025.

13. Attached to the Memorandum as Exhibit "12" is a true and correct copy ofJohn Higham's letter to Coffman Engineers, Inc. dated April 25, 2025.

14. Attached to the Memorandum as Exhibit "13" is a true and correct copy of Petitioner's letter to the Land Use Commission dated May 15, 2025.

15. Attached to the Memorandum as Exhibit "14" is a true and correct copy of Intervenors' letter to the Land Use Commission dated May 17, 2025.

16. Attached to the Memorandum as Exhibit "15" is a true and correct copy of Coffman Engineers, Inc.'s letter to John Higham dated May 29, 2025.

17. Attached to the Memorandum as Exhibit "16" is a true and correct copy of Coffman Engineers, Inc.'s letter to Petitioner dated May 29, 2025.

18. Attached to the Memorandum as Exhibit "17" is a true and correct copy of page 6-65 of the Final Environmental Impact Statement for the Hawaiian Memorial Park Cemetery Expansion Project.

Attached to the Memorandum as Exhibit "18" is a true and correct copy of
 Figure 3.1 from the Preliminary Engineering Report.

20. Attached to the Memorandum as Exhibit "19" is a true and correct copy of Section 18A-1.3 Revised Ordinances of Honolulu.

21. Attached to the Memorandum as Exhibit "20" is a true and correct copy of the Resume of Jami Hirota.

I declare under penalty of law that the foregoing is true and correct.

Executed this 10th day of June.

unter /

CURTIS T. TABATA

Testimony of Jay Morford Hawaiian Memorial Life Plan, Ltd SLUC Docket No. A17-804 Hawaiian Memorial Life Plan, Ltd.

In the Matter of the Petition of Hawaiian Memorial Life Plan, Ltd. to Amend the State Land Use District Boundary of Lands Situated at Kāne'ohe, O'ahu, Hawai'i TMK: (1) 4-5-033: Portion 1,

My name is Jay Morford and I am President with Hawaiian Memorial Life Plan, Ltd. ("HMLP"), the owner of Hawaiian Memorial Park ("HMP"). I have over 27 years of experience in the cemetery and funeral profession. I have worked for the company for 25 years as of January 1st 2020. I have been in my current role since 2006.

Scope of Testimony

I will be discussing 4 areas related to HMLP's request to amend the State Land Use District Boundary:

- 1. An overview of HMLP funeral and cemetery operations throughout Hawaii.
- 2. The History of Hawaiian Memorial Park
- 3. Choice of disposition, i.e., traditional burial or cremation; and
- 4. Endowment Care Cemeteries.

Hawaiian Memorial Life Plan & Hawaiian Memorial Park's History

Hawaiian Memorial Life Plan, Ltd. currently serve over 3800 families annually. Additional services we provide;

- a) Statewide and National Funeral and Cemetery portability.
- b) HMLP's "Public Servant Program" provides complimentary funeral and cemetery benefits for our Fire Fighters and Police Officers that are killed in the line of duty.
- c) HMLP is the primary provider of funeral services for all military branches; and the repatriation of the fallen soldier's returning home from North Korea.
- d) HMLP's "Homeless Veterans Program" providing full honor services.
- e) HMLP handles many of the indigent cases for the State of Hawaii.

HMLP employs over 204 individuals, We offer 100% medical for fulltime associates, Dental, a 401K retirement plan with employer match, Life Insurance Benefits, Long and Short term disability and family funeral and cemetery benefits, plus a college tuition reimbursement program for those that wish to participate. Hawaiian Memorial Park serves approximately 1100 families annually that have experienced a loss of a loved one. HMLP (HMP) has many associates that have made a career with our company, we have been fortunate to have long term associates that have the tenure and experience to provide the professionalism and compassion needed in our profession. The company's cemetery operation is an important segment of our company. ("HMP") combined (funeral & cemetery) employs approximately 75 associates. The positions at the cemetery include administration, funeral directors, housekeeping, care center professionals, family service, pre-planning advisors and grounds maintenance. Our grounds maintenance department has 20 employees that are represented by the International Testimony of Jay Morford SLUC Docket No. A17-804 Page 2

Longshore Workers Union ("ILWU"). The expansion will result in future security for all of these departmental employees with an increase in grounds maintenance staffing and other positions as the cemetery expands. This is notable because over the last few years HMP has experienced a downward trend in revenue in part due to the lack of available inventory. If our petition is denied and this trend were to continue, we will need to reduce expenses which could include a reduction of staff.

Hawaiian Memorial Park was established in 1958 by Maytor McKinley and Paul Trousdale and began offering funeral services in 1962. Since that time, HMP has offered prearranged and atneed funeral and cemetery services to the families of Hawaii. (Exhibit: JM-McKinley photo) HMP eventually had 72 developed acres used for burial and cremation memorialization with an additional 8 acre parcel developed in 2000 (Ocean View Garden) resulting in the 80 developed acres HMP operates today.

In 1983, HMP was approached by the Harold Castle Estate with an option of purchasing 203 acres to be used in the future for cemetery use which HMP did purchase.

In 1987, the State of Hawaii was looking for a location on the Island of Oahu for a State Veterans Cemetery as the National Cemetery of the Pacific (Punchbowl) was close to full capacity. There was a minimum acreage requirement for the State of Hawaii to receive Federal funding. In order to meet this requirement, HMP gifted 33 acres of the 203 acre parcel to the State of Hawaii. Subsequently this allowed the State to receive federal funding and move forward with the development of the Veterans Cemetery, which opened in 1992. HMP's entrance off of Kamehameha Highway is the only access to the Hawaii State Veterans Cemetery, which receives tens of thousands of visitors annually. As a side note, HMP incurs 100% of the expenses for road maintenance.

In 1992, Hawaiian Memorial Life Plan, Ltd was purchased by a subsidiary of Service Corporation International ("SCI"), the largest cemetery and funeral provider in the world. At the time of purchase, HMP and its local affiliates were having financial problems, so SCI's purchase provided the financial stability we needed to protect our local families and jobs. Over the past 27 years, SCI has invested millions of dollars into Hawaii by upgrading the businesses' facilities, cemetery development and capital improvements which improved the working environment for the employees and, most importantly, the experience for the families that we serve. SCI retained local management and staff, and allowed the Hawaiian businesses to operate independently from their mainland counterparts, deferring to local management's understanding of the Hawaii culture and the needs of our families. As the same time, the relationship has provided national portability so that our contracted families could now use their services at any SCI business nationwide.

In 2007, HMP began looking toward the future to plan how we would serve families into the next generations. Based upon the usage rates, it was clear that additional inventory would be crucial in order for HMP to continue to serve families of Hawaii. A plan to expand the cemetery

Testimony of Jay Morford SLUC Docket No. A17-804 Page 3

on the undeveloped parcel owned by HMP was designed. Unfortunately, the initial petition was denied by the State Land Use Commission in 2010 as HMP's plan was not consistent with the Ko'olau Poko Sustainable Communities Plan ("KPSCP").

HMP took that feedback seriously and has invested significant resources into presenting the petition currently before the Land Use Commission today. The new plan reduces the area of impact, increases the size of the cultural preserve, and adds a conservation easement which prohibits future development on approximately 128 acres of the HMP privately owned land. In 2017, 11 years after the City and County of Honolulu initiated efforts to update the KPSCP, HMP's new plan received a unanimous vote at City Council in favor of the amendment, which adds cemeteries as an acceptable use. The City also moved the community growth boundary line to include our future cemetery and the cultural preserve. HMP's plan is now consistent with the KPSCP. The Department of Planning & Permitting has concurred that HMP's proposed project is consistent with the City's plan as it is being presented today. HMP currently has approximately 1800 signatures of support for the expansion. (Exhibit JM-Support Letters)

Disposition vs. Memorialization

Our industry is like no other, and unless you have actually worked in the business, you would not understand the industry as a whole. For example, a common misperception is how memorialization relates to disposition "cremation vs traditional casket burial". One of the arguments you may hear over these hearings is that "People should cremate so we don't need to use land for cemeteries". You may also hear about the rising percentage of people cremating. Please don't be swayed by the cremation percentage. This is but one piece of the puzzle. If you have a 60% cremation rate and the annual number of deaths is 5,000, 2000 burial spaces are needed to serve those families. We have also heard about the baby boomer generation, which I think a few of us here today are part of. This is a large population bubble that is just starting to impact our funeral homes and cemeteries. Because of this generation, the industry will see an increase in the number of deaths and families that we serve. That is important because even if the cremation rate were to increase to 70%, if the number of deaths increases as well, the general demand for burial spaces will remain.

We anticipate that with the increasing number of deaths that the needed casket burial spaces will remain the same or increase, which is why referencing percentages alone can be misleading. Hawaii is unique when it comes to disposition. We are a melting pot and there are many different cultural and religious practices. The preferred method of disposition for some in Hawaii is cremation. However, there are other religious or cultural practices that do not cremate. An individual's choice for their disposition is a personal decision, one that should not be taken lightly and should never be directed by others.

We need inventory. As it currently stands, HMP's 80 acres is 93% - 94% sold-out on casket burial spaces (Exhibit JM-Remaining Interment Plots). Our Ocean View Garden has 25% of its burial space available, so without this expansion, we will be unable to provide options for Testimony of Jay Morford SLUC Docket No. A17-804 Page 4

casket burial spaces in the near future. We will also be very limited and unable to provide the type of cremation garden options you saw due to our lack of available land. Families want to be together when they die. It is how they celebrate and reflect upon their heritage. Regardless of their choice of disposition, the memory of a loved one's life is what families reflect on, not if they were cremated or casketed. It is their heritage and where they are laid to rest.

In closing- If we want to continue to provide memorialization options to families in the future we need to allow the professionals in this industry the opportunity to serve this community. We have responsibility to be good stewards of the lands we own, we also need to be sensitive to cultural and community impacts. I believe we met and exceeded those obligations. We have the business infrastructure to support our company into the future and we provide a service that is necessary in society, and as evidenced by the 200,000 families we have served. Please don't take what we do lightly, this is important to the thousands of families we serve each year, the families of the over 41,000 people buried at HMP, the 204 people we employ in Hawaii and the overall community. Please reflect what someone goes through when they lose a mother, a father, a grandparent or even a child. We provide that place of healing for the family, not just at the time of a loss, but for all the years after. HMLP strives to be an outstanding steward to the community and respects its preservation goals. If the LUC Commission approves the proposed plan, we can ensure that together we continue to preserve this precious culture, while helping families honor their loved ones.

Jay Morford



Project Location Map

Figure 1.1

Hawaiian Memorial Park Cemetery Expansion Project Kāne'ohe, O'ahu, Hawai'i



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BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of: HAWAIIAN MEMORIAL LIFE PLAN, LTD. To Amend The Conservation Land Use District Boundary Into The Urban Land Use District For Approximately 53.449 Acres Of Land At Kāne'ohe, Island of Oahu, State of Hawai'i, Tax Map Key: (1) 4-5-033: por. 001

DOCKET NO. A17-804

HAWAIIAN MEMORIAL LIFE PLAN, LTD.

FINDINGS OF FACT, CONCLUSIONS OF LAW, AND DECISION AND ORDER AND CERTIFICATE OF SERVICE

This is to certify that this is a true and correct copy of the document on file in the office of the State Land Use Commission, Honolulu, Hawai'i

10/13/2020 by

Executive Officer

A17-804 Hawaiian Memorial Life Plan, Ltd. Findings of Fact, Conclusions of Law, and Decision and Order



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BEFORE THE LAND USE COMMISSION OF THE STATE OF HAWAI'I

In the Matter of the Petition of HAWAIIAN MEMORIAL LIFE PLAN, LTD.

To Amend The Conservation Land Use District Boundary Into The Urban Land Use District For Approximately 53.449 Acres Of Land At Kāne'ohe, Island of O'ahu, State of Hawai'i, Tax Map Key: (1) 4-5-033: por. 001 DOCKET NO. A17-804

FINDINGS OF FACT, CONCLUSIONS OF LAW, AND DECISION AND ORDER

FINDINGS OF FACT, CONCLUSIONS OF LAW, AND DECISION AND ORDER <u>AND</u> <u>CERTIFICATE OF SERVICE</u>



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BEFORE THE LAND USE COMMISSION OF THE STATE OF HAWAI'I

In the Matter of the Petition of HAWAIIAN MEMORIAL LIFE PLAN, LTD. To Amend The Conservation Land Use District Boundary Into The Urban Land Use District For Approximately 53.449 Acres Of Land At Kāne'ohe, Island of O'ahu, State of Hawai'i, Tax Map Key: (1) 4-5-033: por. 001 DOCKET NO. A17-804

FINDINGS OF FACT, CONCLUSIONS OF LAW, AND DECISION AND ORDER

FINDINGS OF FACT, CONCLUSIONS OF LAW, AND DECISION AND ORDER

HAWAIIAN MEMORIAL LIFE PLAN, LTD. ("Petitioner") filed a Petition for Land Use District Boundary Amendment on November 13, 2017 (the Petition as so amended is referred to as "Petition"), pursuant to Hawai'i Revised Statutes ("HRS") Section 205-4, and Hawai'i Administrative Rules ("HAR") Chapter 15-15, to amend the land use district boundary to reclassify approximately 53.449 acres of land, situated at Kāne'ohe, Island of O'ahu, State of Hawai'i, Tax Map Key No. (1) 4-5-033: portion of 001 ("Property" or "Petition Area"), from the State Land Use Conservation District to the State Urban District. The reclassification is necessary to allow for the expansion of the existing Hawaiian Memorial Park ("HMP") cemetery, the creation of a 14.5-acre cultural preserve, and the accommodation of internal roadways and open space ("Project"). The Land Use Commission ("Commission"), having heard and examined the testimony, exhibits, evidence, and argument of counsel and parties presented during the hearings, along with the pleadings filed herein, hereby makes the following Findings of Fact, Conclusions of Law, and Decision and Order.

FINDINGS OF FACT

PROCEDURAL MATTERS

1. On November 13, 2017, the Commission received Petitioner's Petition for a Land Use District Boundary Amendment ("Petition"), Exhibits "1" through "5" of the Petition, including an Environmental Impact Statement Preparation Notice identified as Exhibit "5."

2. On November 13, 2017, the Commission also received Petitioner's Motion to designate the Land Use Commission as the Approving Agency for the Environmental Impact Statement ("EIS") prepared under Chapter 343, HRS and for authority to prepare an Environmental Impact Statement Preparation Notice ("EISPN").

3. On November 13, 2017, the Commission mailed the notice and agenda of its November 21, 2017 meeting to all parties and potential intervener, and the Statewide, Oʻahu and Kauaʻi mailing lists.

4. On November 21, 2017, the Commission held its meeting to: 1) determine whether it would be the Accepting Authority under Chapter 343, HRS; 2) whether an EIS is likely to be required because the action may have a significant impact; and 3) authorize Petitioner to prepare an EISPN. The Commission received oral and/or written public testimony. 5. On November 30, 2017, the Commission issued its order determining that: 1) the Commission agreed to be the Accepting Authority pursuant to Chapter 343, HRS; and 2) that the proposed action may have a significant effect upon the environment warranting the preparation of an EISPN.

6. On August 30, 2018, the Petitioner simultaneously filed its Draft EIS ("DEIS") with the State Office of Environmental Quality Control ("OEQC") and the Commission for publication in the September 8, 2018 issue of *The Environmental Notice*. This publication began a 45-day public comment period that ended on October 23, 2018.

7. On April 1, 2019, the Petitioner simultaneously filed its Final EIS ("FEIS") with the State OEQC and the Commission for publication in the next issue of *The Environmental Notice*. This began a 30-day period for public review and LUC action.

8. On April 15, 2019, the Commission mailed and e-mailed the notice and agenda of its April 23-24, 2019 meeting to all parties and potential intervener, and the Statewide, O'ahu and Kaua'i mailing lists.

9. On April 23, 2019, the Commission held its meeting to consider acceptance of the Petitioner's FEIS. The Commission received oral and written public testimony. The Commission accepted the FEIS pursuant to Chapter 343, HRS and Chapter 11-200, HAR.

10. On April 26, 2019, the LUC entered its Findings of Fact, Conclusions of Law, and Decision and Order Accepting Petitioner's FEIS.

11. On May 10, 2019, the Petitioner filed a first amendment to its Petition.

12. On June 19, 2019, the Petitioner filed a second amendment to its Petition.

13. On July 16, 2019, the Commission deemed the Petition to be a proper filing pursuant to HAR Section 15-15-50.

14. On October 10, 2019, the Commission received a Petition to Intervene by the HuiO Pikoiloa.

15. On October 15, 2019, the Commission mailed and e-mailed the notice and agenda of its November 21, 2019 meeting to all parties and the potential intervener, and the Statewide, O'ahu and Kaua'i mailing lists.

16. On November 21, 2019, the Commission held its meeting and granted the Petition to Intervene, and later issued their order on December 13, 2019. The Commission received oral and/or written public testimony. A site visit of the Petition Area was also conducted by the Commission after their meeting.

17. On December 3, 2019, the Commission issued its Pre-Hearing Order.

18. On December 9, 2019, the Commission received Petitioner's List of Witnesses and Exhibits.

19. On December 9, 2019, the Commission received the State Office of Planning's("OP") List of Witnesses and List of Exhibits.

20. On December 9, 2019, the Commission received the Department of Planning and Permitting, City and County of Honolulu's ("DPP") Position Statement and Witness List.

21. On December 9, 2019, the Commission received the Intervener's Position

Statement, Witness List, Exhibit List, and Exhibits.

22. On December 13, 2019, the Commission issued an Order Granting Hui O Pikoiloa Petition to Intervene in HMP's Petition.

23. On December 23, 2019, the Commission received Petitioner's First Amended List of Exhibits and Exhibits.

24. On December 23, 2019, the Commission received the OP's Testimony in Support of Petition with Conditions, First Amended Exhibit List and Exhibits.

25. On December 23, 2019, the Commission received the DPP's Written Testimony of Kathy Sokugawa and Exhibit.

26. On December 23, 2019, the Commission received the Intervener's Witness List and Written Direct Testimony.

27. On January 6, 2020, the Commission received Petitioner's List of Rebuttal Witnesses and Exhibits.

28. On January 6, 2020, the Commission received the Intervener's Rebuttal Revised Witness Testimony.

29. On January 22, 2020, the Commission received OP's First Amended List of Exhibits.

30. On January 14, 2020, the Commission mailed and e-mailed the notice and agenda of its January 22, 2020 meeting to all parties, and the Statewide and O'ahu mailing lists.

31. On January 22, 2020, the Commission held its meeting in Kāne'ohe, O'ahu on the Petition. The Commission received oral and/or written public testimony. Public testimony was closed during this meeting and the Commission began the evidentiary portion of the hearing.

32. On April 30, 2020, the Commission mailed and e-mailed the notice and agenda of its May 6, 2020 meeting to all parties, and the Statewide and O'ahu mailing lists.

33. On May 6, 2020, the Commission held an online meeting using interactive conference technology due to the COVID-19 pandemic, approving an extension of time for decision-making on this Petition for 90 days to October 14, 2020.

34. On May 6, 2020, the Commission received the Petitioner's Supplemental List of Exhibits and Exhibits.

35. On June 1, 2020, the Commission mailed and e-mailed the notice and agenda of its June 9-10, 2020 meeting to all parties, and the Statewide and O'ahu mailing lists.

36. On June 3, 2020, the Commission received the OP's Second Amended List of Exhibits and Exhibits.

37. On June 8, 2020, the Commission received Petitioner's Second Supplemental List of Exhibits and Exhibit.

38. On June 9-10, 2020, Commission held an online meeting using interactive conference technology due to the COVID-19 pandemic and continued the evidentiary hearing.

39. On June 16, 2020, the Commission mailed and e-mailed the notice and agenda of its June 24-25, 2020 meeting to all parties, and the Statewide, Hawai'i and O'ahu mailing lists.

40. On June 19, 2020, the Commission received Petitioner's First Amended List of Witnesses and Third Supplemental List of Exhibits.

41. On June 24, 2020, Commission held an online meeting using interactive conference technology due to the COVID-19 pandemic and continued the evidentiary hearing.

42. On July 14, 2020, the Commission mailed and e-mailed the notice and agenda of its July 22-23, 2020 meeting to all parties, and the Statewide, Hawai'i and O'ahu mailing lists.

43. On July 15, 2020, the Commission mailed and e-mailed the amended notice and agenda of its July 22, 2020 meeting to all parties, and the Statewide, Hawai'i and O'ahu mailing lists.

44. On July 22, 2020, Commission held an online meeting using interactive conference technology due to the COVID-19 pandemic and continued the evidentiary hearing.

45. On August 4, 2020, the Commission mailed and e-mailed the notice and agenda of its August 12-13, 2020 meeting to all parties, and the Statewide, Hawai'i, Maui, and O'ahu mailing lists.

46. On August 12, 2020, Commission held an online meeting using interactive conference technology due to the COVID-19 pandemic and continued the evidentiary hearing. The evidentiary hearing was closed on August 12, 2020.

47. On August 26, 2020, Petitioner filed Petitioner's Proposed Findings of Fact, Conclusions of Law, and Decision and Order for a State Land Use District Boundary Amendment.

48. On August 26, 2020, Intervener filed its Proposed Findings of Fact, Conclusions of Law, and Decision and Order.

49. On August 26, 2020, OP advised the Commission that it would not be filing a Proposed Decision and Order via telecommunication.

50. On August 26, 2020, DPP filed its Proposed Findings of Fact, Conclusions of Law, and Decision and Order.

51. On September 3, 2020, OP filed its Stipulation and Comments on Petitioner's Proposed Findings of Fact, Conclusions of Law, and Decision and Order for a State Land Use District Boundary Amendment.

52. On September 4, 2020, Intervener filed Comments and Objections to Petitioner's Proposed Findings of Fact, Conclusions of Law, and Decision and Order for a State Land Use District Boundary Amendment. 53. On September 4, 2020, DPP emailed notice that it was not filing objections to Intervener's Proposed Findings of Fact, Conclusions of Law, and Decision and Order, and deferred to Petitioner.

54. On September 4, 2020, Petitioner filed Objections to Intervener's Findings of Fact, Conclusions of Law, and Decision and Order.

55. On September 9, 2020, Intervener filed its Comments on Objections.

56. On September 9, 2020, Petitioner filed Rebuttal to Intervener's Comments and Objections.

57. On September 14, 2020, the Commission mailed and e-mailed the notice and agenda of its September 23-24, 2020 meeting to all parties, and the Statewide, Maui, and O'ahu mailing lists.

58. On September 23-24, 2020, the Commission held an action hearing using Zoom conference technology to consider the Petition. Public testimony was received via mail, e-mail, and orally at the hearing. Each party provided closing arguments and were then questioned by the Commission. All commissioners affirmed that either they had been present at all the evidentiary hearings or that they had read all of the pleadings, exhibits, testimony, and transcripts for this docket. Thereafter, a motion was made and seconded to grant the Petition subject to conditions. The motion received 6 affirmative votes, 1 opposed, with one excused and one seat vacant; and therefore, the motion passed.

59. On September 29, 2020, the Commission mailed and e-mailed the notice and agenda of its October 7-8, 2020 meeting to all parties, and the Statewide, Maui, and Oʻahu mailing lists.

60. On October 8, 2020, the Commission held an action hearing using Zoom conference technology to adopt the form of the Findings of Fact, Conclusion of Law, and Decision and Order, granting the Petition. After discussion, a motion to adopt the Findings of Fact, Conclusions of Law, and Decision and Order was duly made and seconded. The motion received 6 aye votes, 1 nay, with 1 excused and one vacant seat; and therefore, the motion passes.

A. <u>Description of the Petition Area</u>

61. The Petition Area is approximately 53.449 acres in size and is within a portion of a larger 164.4-acre parcel owned by the Petitioner. The Petition Area includes a portion of a bluff that is presently undeveloped but was previous used within the last 50 to 75 years for grazing, dairy farming activities, and possibly agriculture (pineapple cultivation).

62. The entire 164.4-acre property is comprised of: 1) Petition Area; 2) existing Ocean View Garden portion of the Hawaiian Memorial Park cemetery; and 3) undeveloped open space. HMP's existing Ocean View Garden cemetery site of 7.9 acres is located adjacent to the Petition Area on the northwest end. The third area consists of undeveloped land east of (mauka of) the Petition Area, south of (makai of) the cemetery expansion serving as a buffer to residences, and undeveloped area northeast of the Petition Area.

63. The Petition Area, along with most of the 164.4-acre property is located within the State Land Use Conservation District. The 7.9-acre Ocean View Garden portion of this property is within the State Urban District. Of the five subzones within the Conservation District, the Petition Area contains lands within both the General (76%) and Limited (24%) Subzones.

64. The Petition Area is generally located on the western flank of the Oneawa Hills, consisting of an elongated landform (northeast to southwest) that forms the geographic boundary between Kāne'ohe and Kailua. The Petition Area is situated on the lower elevation of the Oneawa Hills, and generally encompasses a topographic knoll and adjacent lowland basin area at the foot of the hillside. At its core, Oneawa Hills is composed of massive basaltic caldera-filling lava rock containing some basaltic breccia rock. Rock material comprising Oneawa Hills belongs to the Kailua member of the Ko'olau Volcanic Series and are generally highly to completely weathered at the ground surface. This rock material may also contain buried zones of deeply decomposed rock.

65. The Petition Area generally slopes in a northwest direction from the hillside toward the Pikoiloa subdivision. Site elevations range from 180 feet above mean sea level (AMSL) to 420 feet AMSL. The basin area in the eastern portion of the site has an average slope of 25% to 30% with various smaller ridgelines and valleys found throughout this area. Slope conditions at upland areas in the western portion of the site have steeper slopes with some areas of 90%.

66. The Petition Area is identified as Tax Map Key (1) 4-5-033: por. 001 and is owned by the Petitioner in fee simple.

67. South of the Petition Area is the existing HMP area and the Hawai'i State Veterans Cemetery.

68. The surrounding area to the east includes undeveloped areas associated with the adjacent Oneawa Hills. Immediately northwest and west of the Petition Area are the Pikoiloa subdivision and Pohai Nani Retirement Community.

69. Major highways providing vehicular access in the vicinity are the H-3 Freeway to the east and Kamehameha Highway (State Route 83) bordering the southern side of HMP. Kamehameha Highway is a four-lane divided State highway generally running in a north-south direction in the vicinity of HMP connecting the communities of Kailua and Kāne'ohe. This highway provides vehicular access into and out of the existing HMP at two unsignalized driveways, and later intersects with the H-3 Freeway to the southeast. The two HMP driveways are located across from Kamehameha Highway's intersections with Halekou Road and Mahinui Road.

70. Kāne'ohe Bay Drive (State Route 65) is located about 0.7 miles north of HMP, and generally runs in an east-west direction providing access within the Kāne'ohe community. Kāne'ohe Bay Drive is a four-lane thoroughfare at its intersection with Kamehameha Highway, and later changes to a two-lane roadway northeast of Castle High School. Mokulele Drive is a City street located further north of HMP that generally runs in a northeast to southwest direction. This two-lane minor street serves the surrounding residences of the Pikoiloa subdivision and other subdivisions west of HMP.

B. <u>Proposal for Reclassification</u>

71. The Project includes: 1) the 27.5-acre expansion of the existing HMP cemetery;
2) creation of a 14.5-acre cultural preserve; 3) 11.45 acres of buffer, open space and internal roadways; and, 4) a proposed 156.5 acre conservation easement.

72. The 27.5 acres of cemetery expansion reflects a reduction of 0.7 acres from the 28.2 acres initially proposed for the cemetery expansion. This 0.7-acre reduction in cemetery space will serve as an additional buffer from the seep and habitat for the Hawaiian Blackline damselfly, which is situated in the northwest corner of the Petition Area.

73. Cemetery expansion would involve construction of landscaped areas for burial space. Structures could also be placed throughout the cemetery grounds with special features, garden walls, walkways, and monuments similar to that present within other areas of HMP. There are no mausoleum buildings proposed within this expansion area. After grading to establish appropriate slopes, most of the land would be landscaped with turf and match the appearance of the existing cemetery.

74. Construction of a new road system with a cul-de-sac at the end would provide access within the future cemetery expansion. A new roadway connection from the Ocean View Garden would provide vehicle access to the expansion area. The access roads would be designed to be similar in appearance to existing roadways throughout HMP. Roadway slopes would vary throughout the site but are not intended to exceed a grade of 20%.

75. The 14.5-acre Cultural Preserve would allow for cultural practices along with the restoration, preservation, management, and maintenance of cultural sites present within this area. The proposed preserve, which is the site of wahi pana (storied places or landscapes), contains a range of significant resources within its boundaries, including, but not limited to Kawa'ewa'e Heiau, other historic sites, and plants used for cultural practices.

76. Cultural practitioners would have vehicular access to an entrance to the Cultural Preserve via the main entrance through HMP, and pedestrian access from a grassed or other designated pedestrian path planned to extend from the expanded cemetery's internal roads.

77. A preservation plan would be developed by the Petitioner in partnership with the Koʻolaupoko Hawaiian Civic Club, addressing stewardship and management of the Cultural Preserve. The preservation plan would determine the best treatment strategies for resources

within the Cultural Preserve, the preserve's management, its operation, and would ensure the long-term maintenance and security of Kawa'ewa'e Heiau.

78. Consideration of native Hawaiian burials is also planned to be incorporated into the Cultural Preserve as part of the preservation or management plan. An area within the Cultural Preserve is intended for use for new burials following traditional native Hawaiian protocols.

79. The proposed conservation easement will encompass 156.5 acres of the 164.4acre parcel (less 7.9-acre Ocean View Garden). The conservation easement would be a legal agreement between the Petitioner and a land trust, accredited by and in good standing with the Land Trust Accreditation Commission, which permanently limits uses of the undeveloped land in order to protect conservation values and ensure that no future development would occur except for the cemetery expansion and cultural preserve. The process of negotiating and establishing the conservation easement would commence after the Project is fully entitled.

80. Preliminary grading plans provide for retaining walls, cut/fill slopes, and subdrains. In order to achieve the desired finish grades, the lower flank slopes of the Oneawa Hills on the western end of the site would need to be cut and filling would occur within the eastern end. A preliminary grading plan shows general areas of proposed cut and fill activities. Refinements to this grading plan would be determined during the project's design phase.

81. The majority of the hillside on the western end of the expansion site would be excavated up to 40 feet in height; however, the areas near the top of the hillside would be reduced by up to 100 feet in height. A smaller ridge line below this hillside in the area generally between Līpalu Street and 'Ōhāhā Place would also be excavated. Excavations would extend up to 60 feet for this smaller ridge. Excess soil from excavation activities would be used to fill the

lower portions of the basin areas within the cemetery expansion site. Areas proposed for fill are generally below the current hillside and include most of the eastern half of the cemetery expansion site. Most fill activities would increase the existing height of the topography less than 20 feet; however, one section would fill up to 40 feet in height.

82. The estimated area of disturbance for earth moving activities is about 33.6 acres.
Estimated excavation and embankment quantities are: 1) 470,960 cubic yards of excavation; 2)
413,673 cubic yards of embankment; and 3) 57,287 cubic yards of cut.

83. Clean fill not used within the cemetery expansion will be reused and recycled as much as possible and as practicable as it is in the projects best interest from a cost, quality and schedule perspective to do so. Clean fill is defined as "natural materials consisting of soil, clay, sand, volcanic cinder and ash, rock, and boulders measuring not more than twelve inches in diameter; or a mixture or combination of such materials, which are not suspected to contain hazardous substances or concentrations of chemical contaminants of concern above the DOH's Tier 1 Environmental Action Levels." This is achievable because excess soil generated by the project is a resource for other construction projects which desire fill material as well as for landfill management.

84. Petitioner will not dispose, as waste material, any clean fill at the PVT Land Company, Ltd., or any other construction and demolition landfill commercially in operation on the island of O'ahu as a result of grading work in the Petition Area.

85. Portions of the areas above (mauka) and outside of the cemetery expansion and within the upper reaches of the Cultural Preserve may be exposed to potential rockfall hazard from the adjacent steep mountain slopes. The presence of rock deposits and their depositional
characteristics suggest evidence of significant older rockfall events that deposited the rocks within these areas.

86. The central area of the cemetery expansion has low to moderate potential for rockfall encroachment as shown on Petitioner's Exhibit 34, Exhibit 1. Lower rockfall encroachment risk is anticipated due to the reduced number and size of existing rock outcroppings encountered within the "PRSA-2" area located upslope. The potential rockfall source area also appears to have a lower density of rock outcroppings and less extensive reach in terms of elevation span on the hillside. There is no area of potential rockfall encroachment identified for the western end of the cemetery expansion.

87. The greater risk for potential rockfall encroachment involves the upslope area of the Cultural Preserve. This risk is due to the large quantity and size of existing boulder deposits encountered on lower elevation slopes within the Cultural Preserve. There also appears to be a more frequent occurrence of widely scattered large-block, high relief, massive rock outcroppings within an area above the Cultural Preserve that could represent potential rockfall source material identified as "PRSA-1". However, the Cultural Preserve's boundary alignment with respect to topographic conditions aids the natural containment of rockfall within the area boundaries.

88. The Colorado Rockfall Simulation Program (CRSP) was used to evaluate potential rockfall activity in the Petition Area. Slope profiles developed evaluate the statistical probability of potential encroachment from upslope areas. If the statistical probability of rockfall encroachment is 10% or less, a hazardous rockfall condition is considered a remote risk and protective measures may not be warranted. Rockfall protection is recommended for locations where the probability of encroachment exceeds 10% of total simulated rockfall.

89. Model results indicate the center portion of the cemetery expansion area would have low to moderate risk for potential rockfall encroachment. Within the eastern portion of the cemetery expansion area, limited potential for rockfall encroachment is estimated.

90. A moderate risk of potential rockfall encroachment is estimated for a portion of the Cultural Preserve's mid to upper elevation basin and adjacent upper steep mountain slopes. However, no simulated rockfall was indicated to pass the area's mid-elevation analysis point. The Preserve is intended for cultural landscape restoration, maintenance of historic sites, and accommodation of some burials following traditional native Hawaiian protocols within the lower areas. Therefore, site disturbance potentially contributing to increased rockfall hazards would not be significant and not occur where the rockfall disposition and source are located.

91. No record or documentation of previous debris flow or landslide activity within the Petition Area is known, and no overt visible evidence of significant debris flow deposits or evidence of recent ground scour were observed. However, the potential for debris transmission via stormwater runoff should be considered due to the large area of steep forested slopes possessing appreciable forest litter debris on the ground surfaces. A rapid increase in discharge during storm conditions should be anticipated in the normally dry drainage channels. However, it appears that the existing natural flatter ground topography at the foot of steeper terrain combined with the existing dense vegetation growth could provide some natural buffering and reduced risk for debris laden runoff.

92. Grading activities would result in removal of existing landslide and debris flow hazards in the cemetery expansion area. Landscaped grass areas created for burial spaces would be a significant improvement, removing existing vegetation litter debris and exposed soil and gravel/cobble talus. The modified topography would reduce steeper slopes and create gentler

topographic conditions that would eliminate potential landslide hazards. Therefore, the remaining potential for impacts on the cemetery from debris flow would be from upslope areas outside of the Petition Area.

93. To minimize and mitigate effects from rockfall and landside debris, the following measures will occur:

- <u>Cultural Preserve</u>. Rockfall hazard warning signage would be posted at appropriate entry locations to alert permitted visitors of the potential for falling rock hazards in the mauka portion of the area.
- <u>Cultural Preserve</u>. Management would identify areas that are restricted or limited from general access (e.g. upper areas above 350-foot elevation) unless access is justified and can be included in a Preservation Plan developed.
- 3. <u>Cemetery Expansion</u>. Construct an approximately 1,000-linear foot concrete lined rockfall catchment ditch along the Petition Area boundary upslope of the central area of the cemetery expansion as generally shown on Exhibit 1. A 5-foot deep "V" shaped catchment ditch would effectively contain and reduce rockfall encroachment to an acceptable level. This interceptor ditch with appropriate debris barriers (fence) and discharge outlets would also reduce the potential for runoff encroachment and landside debris along the upper boundary of the Petition Area.
- 4. <u>Cemetery Expansion</u>. Install chain link fencing along and upslope from the catchment ditch to reduce potential introduction of large quantities of organic debris into the ditch. If feasible, provide a 10-foot-wide vegetation

free clear zone upslope from the ditch and encompassing the chain link fence.

5. <u>Cemetery Expansion</u>. Inspect periodically the rock catchment ditch with possible periodic clearing of accumulated debris to maintain the intended rock catchment capacity.

94. During interviews for the Cultural Impact Assessment, none of the cultural practitioners identified any current use, known use, or desire to access the eastern portion of the Cultural Preserve, and management measures would make this area safer, and that the management measures would be sufficient to mitigate any potential injury that takes place in that area.

95. Petitioner will cover reasonable expenses of the Group associated with management of the Cultural Preserve, including operations, rockfall hazard mitigation and liability.

C. <u>Development Timetable</u>

96. Development of the Petition Area will be substantially completed within 10 years after the date of the Commission's approval.

D. <u>Compliance with HRS Chapter 343</u>

97. The Final EIS for the Project was approved and accepted by Commission at their public hearing held on April 23, 2019. The Final EIS acceptance was published in *The Environmental Notice* on May 8, 2019. The 45-day challenge period ended on June 23, 2019.

E. <u>Petitioner's Financial Capability to Undertake the Project</u>

98. The financial statements from Service Corporation International (SCI) for the Petitioner for the quarterly period ending March 31, 2019 reflected total assets of \$13,079,061,000, total liabilities of \$11,378,656,000 and total equity of \$1,700,405,000.

99. The project would be financed by the cash flow of the Petitioner's parent company. Debt or financing would not be required to implement the project. Development costs for the cemetery construction are estimated at \$29.3 million (in 2018 dollars).

F. <u>Need for the Proposed Development</u>

100. There is demand for an additional approximately 103,442 to 137,840 burial spaces (also referred to as "burial plots") needed on O'ahu through 2040.

101. There is a growing demand for more burial spaces on O'ahu through the year 2040 due to: 1) the island's growing population; 2) an increasing aging population; and 3) subsequent increasing mortality rate. The resident population of O'ahu has grown by nearly 60 percent over the past five decades, reaching over 995,500 persons in 2017. The population has also "aged" over the same period, with some 18 percent now being over age 65; up from 14 percent at the turn of the century. In the future, O'ahu's population is projected to continue increasing annually to between approximately 1,086,700 to 1,142,400 persons by the year 2040.

102. Hawai'i's resident population reflects an aging demographic characteristic with increasing numbers of persons over the age of 55; a trend reflecting the "baby boomer" generation moving into their 60s. The total of Hawai'i residents that are 55+ years of age is projected to increase from 19.8% of the population in 1990 to 33.8% by the year 2040. The population cohorts for ages 70+ are even more dramatic, projected to grow from 7.2% of the population in 1990 to 18.9% by 2040. The historic number of deaths on O'ahu has steadily

increased over the years corresponding to the growing population and increasing aging demographic. The mortality rate has escalated (a death rate of 0.8 percent annually), and the number of annual deaths on island has increased to about 8,000 persons in 2017.

103. The future death rates through 2040 are forecast under a minimum and maximum scenario. The minimum forecast is there would be a cumulative total of about 225,700 deaths among O'ahu residents between 2018 and 2040 while the maximum forecasts about 245,130 deaths (8.6% increase). Therefore, between about 11,700 and 12,860 annual deaths are projected on O'ahu by 2040. This would be over twice as many deaths that occurred in the year 2000 (5,700 deaths), and over 46% greater than that occurring in 2017 (8,000 deaths).

104. <u>Disposition of Deaths.</u> There are five standard statistical classifications of "methods of disposition" for a body following death:

- a. Burial The action or practice of interring a body in a grave.
- b. Cremation The final disposition of a body by burning it to ashes (Cremated Remains). Cremated Remains can be placed in a burial space/plot.
- c. Removal The body is shipped out of the State of Hawai'i.
- d. Medical Science The body is donated for medical research.
- e. All Others Entombment and alternative disposition methods.

Burial requires a casket, as typically does an entombment, while cremated remains are placed in urns. Interment is the act of memorializing a person following death and placing their remains in a permanent "resting place." Interment can be via:

a. Burial Plots. Contains one or more caskets and/or several urns.

- b. Niches. Above-ground spaces for urns within a "columbarium" or other specially built structure.
- c. Crypts. Specially built mausoleum structures that are generally above ground in Hawai'i with spaces for bodies/caskets.

The total number of potential individuals that can be interred in a cemetery plot can vary in accordance with the wishes of the family, and the size, scope and rules of the facility. The number of caskets and/or urns permitted in a plot differs between cemeteries, as does the number and size of columbarium or niche structures. Generally, most cemeteries on O'ahu, including the existing HMP, can create about 1,000 to 1,100 burial spaces per developed acre.

105. HMP currently serves as the final resting place for over 41,000 persons, and accommodates an average of about 700 interments a year from families throughout Hawai'i. HMP is responsible for about 25% of all burials occurring in the state. In the past, HMP has met the demand for additional burial space by increasing the land area available for burials within its owned property. However, HMP only has a limited number of burial sites remaining (4,500 plots), and there is a significant need for additional cemetery space to accommodate the State's aging population. Even with other cemeteries on O'ahu being available, projections indicate a future shortfall of demand for about 40,000 to 60,800 burial plots by 2040. The 30,000 additional burial plots that could be developed as part of HMP's proposed project are needed to address the anticipated burial space shortage.

106. There is a need for a Cultural Preserve to support traditional native Hawaiian cultural practices within the Petition Area and larger Parcel 1 property largely due to the presence of Kawa'ewa'e Heiau that is a significant historic site listed in the National Register of Historic Places. Kawa'ewa'e Heiau currently requires extensive clearing given the widespread

growth of invasive flora, along with other landscape restoration and maintenance. Members of the Ko'olaupoko Hawaiian Civic Club and other community members have served as caretakers of this heiau and the surrounding area to the extent possible. Improving access to and within this area is needed to support these efforts, which requires clearing trees, etc. Other historic sites in the vicinity would also be included as part of cultural landscape restoration efforts. Other cultural practices also occur in the vicinity, such as collecting plants for hula-related activities and other plants with traditional medicinal value. The Cultural Preserve's 14.5-acre site would include a preservation plan to guide and regulate cultural activities, access, management responsibilities, and coordination responsibilities with the Petitioner.

107. Cultural organizations and practitioners have also expressed a desire to conduct traditional native Hawaiian burials in the Cultural Preserve. The adoption of the "clean burial" law by the Hawai'i legislature in 2015 (Act 171) recognized and allows for the preparation of a deceased person for burial in a manner consistent with traditional native Hawaiian cultural customs and such burials are intended within the Cultural Preserve.

108. The boundary amendment is necessary for the Cultural Preserve because cemeteries are not allowed within the State Conservation District. Disposition and Burial Permits would be applied for with the Department of Health and then recorded with the Petitioner as part of applicable state law and cemetery regulations. The Cultural Preserve would further define boundaries where activities could occur supporting management efforts.

109. There is a need to establish long-term stewardship responsibilities for the 156.5acre property (excluding HMP's 7.9-acre existing Ocean View Garden site). Areas of the property outside of the Petition Area would remain undeveloped, but management and stewardship of this area is necessary for the future. Efforts are needed to prevent unauthorized

use of the remaining areas because they can be accessed from surrounding properties. A conservation easement is proposed for the remaining 156.5 acres of this property to address long-term management and stewardship of the area.

G. Social and Economic Impacts

1. <u>Social Impacts</u>

110. The project should have negligible, if any, effect on Kāne'ohe's existing or future projected demographic characteristics because it does not propose new residences or visitor units. The project would not change the City's long-term demographic projections for the Kāne'ohe community and the larger Windward district that reflect a low rate of growth. Similarly, the future demographic composition and characteristics (e.g. ethnicity, age) of residents would not be affected by the project. There is not expected to be any in-migration to O'ahu as a direct result of the project.

111. The project would not significantly change nor adversely impact the character of this Petition Area or the larger Kāne'ohe community. The visual characteristic of the Petition Area would change from an undeveloped and overgrown introduced forested area into a graded landscaped area for cemetery visitation. The expanded passive cemetery land use is identical and complementary to activities already occurring at HMP and the adjacent Hawai'i State Veterans Cemetery and thus compatible with the area. Cemetery expansion would provide a significant community benefit supporting continued heritage considerations for families with loved ones interred at HMP and the Veterans Cemetery.

112. The proposed project would have no effect on military activities, operations or jobs occurring within the Marine Corps Base Hawai'i Kāne'ohe Bay. The proposed project would have no effect on the visitor industry or businesses in Kāne'ohe associated with those

activities. HMP is not a visitor attraction (as compared to the National Memorial Cemetery of the Pacific [Punchbowl], which is a site with national interest). Visitors to HMP would consist mainly of residents visiting gravesites of family members and relatives. The proposed project would have minimal effect on commercial retail and industrial uses, or activities associated with those businesses. Improvements do not involve new industrial land uses or any new commercial retail uses (e.g. restaurants, coffee shops, etc.) that would compete with or negatively impact existing businesses in Kāne'ohe.

113. Additional burial plots created by the proposed project would generate slightly more daily visits by family members which would take place over many years as it is developed, and more interments occur. This would indirectly have a small but beneficial effect for businesses in the area that support cemetery related activities, such as flower shops or restaurants and other eateries (e.g. fast food businesses). Cultural and restoration activities occurring at the Cultural Preserve would similarly involve participants that could visit and have a small but beneficial effect supporting businesses in Kāne'ohe.

114. The project will have nominal to minor impacts on the socio-economic aspects of the surrounding community that relate to real estate issues. There are no neighboring uses on three sides of the HMP Expansion acreage property. The project will not meaningfully impact property values or real estate taxes of the northerly-abutting single-family homes that will have a buffer area from the cemetery expansion. Property values throughout Windward Oahu are largely driven by external, cyclical economic factors within an existing (and expanding) cumulative mass, not by the expansion of a cemetery which has been in-place for decades.

2. <u>Economic and Fiscal Impacts</u>

115. The cemetery expansion of HMP will result in significant expenditures that would favorably impact O'ahu's economy on both a direct and indirect basis. The project will allow current HMP employment levels and activities to continue at current levels rather than winding-down as the remaining existing plots were sold and filled. The project will increase the level of capital investment and capital flow in the region, which would in turn contribute to and extend employment opportunities and the tax base as summarized below.

- 1. The proposed project would create numerous construction, equipment operator, and specialty trade jobs, directly and indirectly.
- 2. Existing employment (administrative and service positions) at the HMP would be extended and marginally enhanced for several additional decades.
- Cemetery expansion would proportionately increase the need for maintenance workers over time.
- 4. Short-term construction jobs, wages, and benefits would be generated for both on-site construction workers along with off-site worker servicing the construction effort.
- 5. Numerous local businesses would see significant profit opportunities arising for contracting companies involved in the project's construction, and for local businesses that supply a substantial portion of the materials needed in the effort.
- 6. The general island economy would benefit from the proposed project, as HMP's current and new employees would spend their discretionary income in shops, restaurants, and service establishments throughout the island.

- 7. Indirectly, these wages, profits, and expenditures from the project moving through the regional economy would have a multiplier effect increasing the amount of capital flowing to the entire community.
- 8. Much of the direct and indirect spending would be re-directed to other island industries and would in turn be put back through the region's economic and tax structure.

116. The project will bring in an estimated \$29.3 million of new, direct capital investment with significant unquantified indirect expenditures into the island's real estate market and generate \$141.7 million in total economic activity islandwide. It will contribute some \$5.9 million in annual economic activity on a stabilized basis thereafter. Construction work will directly create an estimated 73 "worker-years" of employment in the trades and supply businesses, with an estimated \$5.9 million in wages.

117. Operational activities, through administration, sales/servicing, maintenance and landscaping, will create 625 worker-years of employment and wages and benefits of \$43.8 million. Once stabilized the project will create demand for 45 full-time employment (FTE) positions and annual wages of \$3.2 million. Secondary/off-site employment will total 233 worker-years with wages of \$13.1 million and a stabilized FTE job-count of 15 with total wages of \$842,000 per year. The on-going management and maintenance economic activity will total \$115.9 million and average \$8.5 million per year on a stabilized basis. The base impact to O'ahu will be \$141 million and average \$9.3 million annually thereafter. Further, application of the State Department of Business and Economic Development and Tourism (DBEDT) Inter-County Input-Output Model results in significantly higher economic out-flow indicators from the project than those from CBRE's micro model. 118. Public fiscal impacts are estimated on a per capita basis founded on a conservative assumption that each new person added to the O'ahu community is "responsible for" a similar tax cost/obligation as every other person on the island. There will be no new per capita costs from the project because it will not result in any new residents.

119. The City presently receives about \$530 per year of real property taxes on the Petitioner's 164-acre property (Parcel 1), and this would not meaningfully change with the implementation of the proposed project. The City will receive an estimated \$500,000 in permit, license and other fees at the commencement of the project. The State will receive Gross Excise and Income taxes, secondary revenues, and impact fees of \$8.7 million and about \$402,380 per year thereafter. There will be no "new" or additional per capita costs incurred to either the State or City resulting from the project making their added revenues all marginal profits.

H. <u>Impacts Upon Resources of the Area</u>

1. <u>Agricultural Resources</u>

120. The University of Hawai'i Land Study Bureau's (LSB) Detailed Land Classification-Island of Oahu, classifies soil by land type in which classifications are provided for an overall crop productivity rating, with and without irrigation. Overall LSB ratings range from A to E, with A representing the class of highest productivity and E the lowest. Petition Area lands are rated "D" and "E" indicating area lands are poorly suited for agricultural use.

121. The State Department of Agriculture's Agricultural Lands of Importance to the State of Hawai'i (ALISH), established a classification system for identification of agriculturally important lands to the State of Hawai'i. Three classes of lands are established which are: 1) Prime, 2) Unique, and 3) Other. Lands not included under this system are "unclassified." A small corner of the northwest corner of the Petition Area is classified as "Prime Land." This area bordering existing residences is associated with the small basin where a well and seep are located. However, no improvements are planned for this corner site. These lands are best suited for production of a variety of crops. A section of the northeast portion of the Petition Area is classified as "Other Lands." This area includes the eastern end of the cemetery expansion and a large portion of the Cultural Preserve. Areas classified as Other Lands are important to Hawai'i agriculture, but exhibit properties such as seasonal wetness or a limited rooting zone that render the Prime and Unique designation inapplicable. These lands can be farmed satisfactorily through proper management such as application of fertilizer inputs and soil amendments. The majority of the Petition Area was excluded from the ALISH classification process. These lands include the western and central portions of the Petition Area, and sections of the northern portion at low and high elevations, and the higher elevation lands of the Cultural Preserve. Lands were excluded from the ALISH classification process based on specific criteria for exclusion that were established. For example, lands with slopes in excess of 35% were not considered for classification.

122. An outcome of Hawai'i's post-statehood shift from a plantation-based economy to one driven by tourism and Federal spending prompted concerns about how to best protect the state's agricultural lands and promote the viability of agriculture. These concerns led to the proposal and subsequent amendment of the Hawai'i State Constitution in 1978 to identify and designate Important Agricultural Lands (IAL). As a result, the State has the legal responsibility to promote agriculture and the conservation of Hawai'i's productive agricultural lands. The IAL designation is intended to identify a select class of farmland that would be used for long-term active agricultural production. This designation is a supplemental land use classification for a sub-set of high-quality farmland within the State Agricultural District. The IAL designation seeks to promote the economic viability of farming, and to make it possible for landowners to keep agricultural lands active by granting landowners access to incentives and supportive measures that reduce the cost of farming. This ultimately leads to the long-term preservation and protection of productive agricultural lands. In 2005 and 2008, the State Legislature passed two bills that provided the framework for counties to identify IAL by stablishing eight criteria to be used when reviewing land for IAL consideration and outlined the process used to evaluate agricultural land. The City DPP has identified land on O'ahu where the IAL designation is recommended. Once adopted, recommendations will be submitted to the State LUC for final approval and adoption. The Petition Area is not located in the State Agricultural District and is located within the State Conservation District. Therefore, the Petition Area is ineligible for consideration as IAL.

2. <u>Botanical Resources</u>

123. The Petition Area can be characterized as a Lowland Alien Wet Forest dominated by introduced plant species. Alteration of native plant habitat has been in place for some time with few native plant elements remaining. The area has been historically disturbed, being previously used for pineapple cultivation and dairy farming activities. None of the plant species observed in the Petition Area are threatened, endangered or a species of concern. A total of 109 plant species were observed within the survey area. Of this total, 91 (84%) are alien (introduced), seven (6%) are Polynesian introductions, eight (7%) are indigenous (native to the Hawaiian Islands and elsewhere), and three (3%) are endemic (native to the Hawaiian Islands). A total of 10% are native species.

124. <u>Cemetery Expansion Area.</u> This area is primarily populated by alien tree, vine, shrub, and grass species. Within open areas, groundcover consists mainly of fern species

including Pala'ā (*Sphenomeris chinensis*) and introduced Laua'e (*Phymatosorus grossus*). The shallow well and seep downslope from the northwestern portion of the cemetery expansion area is dominated by introduced Laua'e and some vestiges of Kalo (*Colocasia esculenta*) plants scattered along seep banks or in pools.

125. Eight indigenous species were observed infrequently in the area; 'Uhaloa (*Waltheria indica*), Hala (*Pandanus tectorius*), Pala'ā, Moa (*Psilotum nudum*), Palapalai (*Microlepia strigosa*), 'Ēkaha (*Asplenium nidus*), Pōpolo (*Solanum americanum*), and Kā'e'e or Sea Bean (*Mucuna gigantea*). Kā'e'e has robust populations, but are being smothered by other vine species, and several of the seed pods were observed to have insect damage. Endemic species identified include 'Ākia (*Wikstroemia oahuensis var. oahuensis*) and 'Ōhi'a Lehua (*Metrosideros polymorpha*) trees that were observed infrequently near the Ocean View Garden boundary and upper elevations on the ridgeline in the southwestern section of the Petition Area.

126. <u>Cultural Preserve Area.</u> The area is overgrown, and Kawa'ewa'e Heiau itself mostly obscured with vegetation. Some plants growing within the heiau structure include Ti or Kī (*Cordyline terminalis*), Papaya (*Carica papaya*), and Spanish Needle (*Bidens pilosa*). Two juvenile Koa (*Acacia koa*) trees were observed that appear to have been planted. The remainder of the Cultural Preserve area to the east is dominated by thickets of Christmas Berry, Java Plum, Guava, Basket Grass and an expansive and thick understory of introduced Laua'e fern.

127. The project would alter the existing botanical characteristics within the cemetery expansion area as result of extensive grading activities. However, improvements would not impact Federal or State-listed threatened or endangered plant species or species of concern because none were observed within the Petition Area. The current Lowland Alien Wet Forest character dominated by introduced plant species would change to an open landscaped character

consisting mainly of grass and landscaping plantings. The introduced fern Laua'e would be impacted by grading activities within the cemetery expansion area, but not within the Cultural Preserve. Native plant populations, including the Ōhi'a Lehua and Kā'e'e, would also be displaced due to grading activities.

128. Fringe areas surrounding landscaped burial areas would likely become dominated by other existing surrounding vegetation and trees that are mainly introduced plant species. This would result in a similar condition to the buffer area surrounding Ocean View Garden. This would include areas that are left undeveloped or serve as vegetative buffers between residences or upslope areas.

129. The Cultural Preserve is an appropriate location where native and Polynesian introduced plants displaced by cemetery expansion activities could be replanted, particularly in the area surrounding Kawa'ewa'e Heiau. Native plants used in cemetery expansion area landscaping would aid perpetuation of these extant taxa in the immediate area. The presence of plants, such as 'Ōhi'a Lehua, 'Ākia, and Laua'e, within the Cultural Preserve or cemetery area would support its use for cultural practices. Seeds and cuttings from these plants found on site could be collected and grown for these efforts. Laua'e could also be used to landscape the cemetery expansion area. Mitigation measures are:

- Seeds or cuttings from extant indigenous and endemic plants would be collected and grown to use in replanting efforts in and around the cemetery expansion area or within the Cultural Preserve.
- The preservation plan to be developed for the Cultural Preserve would include landscaping guidance related to the preservation of the Petition Area's indigenous and endemic plant species. Landscaping guidance would

use information resulting from the botanical survey to establish proper collection and replanting procedures.

- 3. Prior to the issuance of a grading permit, the Petitioner shall submit a landscape plan and schedule of planting to the City Department of Planning and Permitting (DPP).
 - In consideration of the potential impacts to and from climate change, within the Petition Area, the loss of mature trees, defined as having a trunk diameter of six inches or greater, shall be replaced on a one-for-one basis, at a minimum, with preferably field stock trees that will have approximately similar size canopy coverage within a reasonable period of time.
 - b. The locations of replacement trees are not limited to the Petition Area.

130. <u>Wetland Determination</u>. AECOS, Inc. conducted a wetland determination for the seep area located within the western portion of the Petition Area. A wetland data determination form was used to characterize the area just upslope of the incised channel near the seep. It is a location within the area selected as most likely to be a wetland based on topography. Hydrophytic vegetation, hydric soils, and wetland hydrology (the three criteria required to be considered a wetland) were absent in this area investigated for the presence of a wetland; therefore, it is not a wetland.

131. There is a shallow well feature with a water level consistently above the sloped ground level on the downstream side of the well. The seep emerges from the ground just downslope from the well. Flow from the seep has eroded a shallow and somewhat braided channel ("seep channel") extending downslope. Although wetland plants are rooted in a few

short segments of the seep channel, the channel is best classified as a tributary rather than a wetland because: 1) plants cover less than 5% of the area; and 2) the channel has been carved by flowing water and physical indicators of flow are apparent in the channel. The seep channel has physical indicators of flow (i.e., bed and banks and ordinary high-water marks).

3. Avian and Mammalian Resources

132. A biological survey of the Petition Area was conducted by Rana Biological Consulting to evaluate impacts to avian and mammalian species. In summary, no avian or mammalian species currently proposed for listing or listed as threatened or endangered under either Federal of State endangered species statutes were identified within the Petition Area. There is no federally delineated Critical Habitat for any species within, or close to the Petition Area.

133. <u>Avian Survey Results.</u> All avian species detected (227 individual birds of 19 species recorded) are alien to the Hawaiian Islands. Avian survey findings are consistent with habitats that are currently present within the Petition Area, which is dominated by alien plant species. The avian survey is consistent with a prior faunal survey conducted on the property in September 2006.

134. The Kōlea or Pacific Golden-Plover (*Pluvialis fulva*) was detected as an incidental observation in the existing HMP cemetery area while transiting to the Petition Area. The Pacific Golden-Plover is a native, indigenous migratory species. This species is present in Hawai'i and the Tropical Pacific during fall and winter months and is widely distributed in the Hawaiian Islands.

135. Although seabirds were not detected during this survey, several seabird species potentially overfly the site on occasion. These species include the Wedge-tailed Shearwater or

'Ua'u Kani (*Ardenna pacifica*), and the "threatened" Newell's Shearwater (*Puffinus newelli*). The state listed "endangered" White Tern (*Gygis alba*) is not listed under federal statute. This ephemeral species was not recorded during this survey, nor was it expected since the current resident population are found on the leeward side of the island concentrated in the Waikīkī area.

136. <u>Pueo.</u> No owl species were recorded during this survey. Two resident owl species on O'ahu are the introduced Barn Owl (*Tyto alba*) and the indigenous endemic sub-species of the Short-eared Owl (*Asio flammeus sandwichesis*), or Pueo. While both species are found on all the main Hawaiian Islands, Pueo have become increasingly scarce on O'ahu. The island's Pueo population is listed as an endangered species by the State of Hawai'i, but it is not listed under federal statute.

137. Pueo forage in grasslands, agricultural fields and pastures, as well as upland forested areas. The majority of the Pueo population is found on the leeward side of the island and on the North Shore. They are a ground nesting diurnal species and prefer to nest in tall grass (e.g. pastures and grasslands). The Petition Area's thick alien forest canopy does not provide suitable habitat for this species to forage or nest in. The numbers and density of mammalian predators on O'ahu makes it difficult for this species to successfully nest, except within protected areas with a strong mammalian predator control program in place.

138. <u>Mammalian Survey Results.</u> All mammalian species detected are alien and deleterious to native ecosystems and their dependent organisms. These findings are consistent with the current habitat present with the Petition Area and existing land use. Three terrestrial mammalian species detected on site; Indian mongoose (*Herpestes auropunctatus*); feral pig (*Sus scrofa*) (rooting detected in the lower section of the cemetery expansion area); and dogs (*Canis familiaris*) heard barking from outside the Petition Area. It is likely that one or more of the four

established alien Muridae species (rodents) found on O'ahu occur within the Petition Area. No endangered Hawaiian hoary bats were detected on site, but it is possible that this species may use resources within the Petition Area.

139. The project should not significantly impact avian or mammalian species within the Petition Area as none of the species identified were listed or proposed for listing as endangered or threatened under federal or state endangered species statutes. Grading improvements for the cemetery expansion area would change the existing forested landscape to an open grassed landscape. This landscape would have minimal impact to the alien avian species detected and would not be an attractive habitat for alien mammalian species identified. The grass landscape established could provide additional loafing and wintering habitat for Pacific Golden-Plover. The project would not have outdoor lights that may impact protected seabird species that may occasionally overfly the Petition Area because: 1) no night-time construction is planned, and 2) no exterior lighting is planned as part of the cemetery expansion and Cultural Preserve. The cemetery would be closed at night.

140. Although Hawaiian hoary bats were not detected, clearing large trees and shrubs and grubbing activities during the birthing and rearing season (June 1 through September 15) may impact these bats. To avoid and minimize potential impacts to Hawaiian hoary bats, the following measure would be implemented:

> Avoid disturbance of woody vegetation taller than 15 feet (4.6 meters) during bat birthing and rearing season, which is between June 1st and September 15th.

4. <u>Invertebrate Resources</u>

141. An invertebrate survey of the Petition Area was conducted by Dr. Steven Montgomery to evaluate impacts to endemic or indigenous terrestrial invertebrates. Field surveys were conducted on 12 separate days over a period of several months to include dry and wet conditions and to ensure observation and collections during the day and night.

142. Plant and invertebrate populations are interdependent, with the presence and condition of host plants and habitats serving as a means of measuring invertebrate health. The Petition Area has historically been used by humans for agriculture and ranching. Feral pigs are present and continue to degrade vegetation and understory plants by rooting, resulting in soil disturbance. These factors likely contribute to the limited number of native plants identified on site. The scarcity of native plants capable of serving as arthropod host sites explains why so few Hawaiian arthropods were found.

143. The only federally listed endangered species observed was the pinapinao or Blackline Hawaiian Damselfly (*Megalagrion nigrohamatum nigrolineatum*). The remaining native and endemic Hawaiian invertebrates sighted are very widespread in distribution. Invertebrates endemic to Hawai'i identified in this survey, along with the 2008 survey, were outlined in Table 1 of Dr. Montgomery's written testimony.

144. The Blackline Damselfly on O'ahu is a species that has been historically noted as common from sea level up to 2,400 feet in elevation. However, by 1996 this species appeared to be extirpated from the Wai'anae streams. It is now present in the Ko'olau Range only as scattered colonies. Within the Petition Area, they are seen along a seep located in the northwestern corner that is fed from a man-made well likely created during the area's use as a dairy farm. The brown, inch-long damselfly nymphs have a concealed existence clinging under stones or hiding in algae masses, both in moving and quiet waters. The Hawaiian Damselfly's diet includes bloodworms, which are the larvae of midges and other fly immatures plus sowbugs, and oribatid mites. Kalo is one of the few emergent water plants available as a host site in the native damselfly habitat.

145. On sunny days, up to eight males were sighted spaced out along the seep's waters. With thick cloud cover and decreased sunlight, none to two were present at mid-day, likely because damselflies had dispersed from the breeding waters and risen into nearby trees and shrubs to rest and sleep. This species is also present in widely dispersed streams on both the windward and leeward sides of the Ko'olau mountains in the headwater and mid-reach sections, and the seeps that border them in 17 streams. The critical habitat for this species is mapped in six sections of the Ko'olau mountain streams and seeps totaling 25,203 acres. The 17 stream colonies are estimated to total 800 to 1,000 individuals, and some of these remaining populations may be considered robust.

146. Key invertebrates present in the Hawaiian Damselfly habitat and detrimental to the species include mosquitoes and ants. The Southern House Mosquito (*Culex quinquefasciatus*) are breeding in small numbers in the flowing seep and well feeding it. Larvae of the Southern House Mosquito were found only in a few 1- to 2-inch deep pools associated with this seep and serve as one food source for damselfly young. The Cannibal Mosquito (*Toxorhynchites amboinensis*) also lives in the well, and feed as predators on larvae of all other mosquitoes, and each other.

147. Alien ants are known to prey on other insects and are documented as a factor in the limited presence of native arthropods. Ants are noted as a primary threat factor for the Blackline Hawaiian Damselfly in the 2011 Listing of Endangered Species. Alien ants observed in the Petition Area include the Long-legged ant (*Anoplolepis gracilipes*), Big-headed ant (*Pheidole megacephala*), and the Glaber ant (*Ochetellus glaber*). The Big-headed ant is a general predator on most native arthropods and is a threat to emerging damselflies.

148. The color and narrow shape of the Damselflies make them difficult to see, creating risk that they could be stepped on by humans. Persons trespassing on the property can be a threat, since walking in or near the seep could inadvertently disturb damselfly molting, breeding and resting sites. Trespassers also risk disturbing and harming Damselflies directly while they are resting and molting on foliage or small sticks in water margins or muddy areas.

149. The major threat to this species is predation on immature damselflies by alien fish, especially the Western Mosquitofish, Sailfin molly, and the Guppy. The placement of nonnative fish species into new aquatic habitats poses the major threat to this relatively accessible population and may continue into the future by uninformed persons without increased public awareness. Feral pigs are another threat because their destructive wallowing and rooting for worms cause major disruptions of damselfly breeding and resting places.

150. A report studying the similar, small endangered damselfly *Coenagrion mercuriale*, in the same family found the species to be extremely sedentary, with dispersal limited to an area of contiguous habitat. The median, net lifetime movement was 32 meters (105 feet) and 75% moved less than 50 meters (164 feet) in their lifetime. The boundaries of the damselfly habitat area along the seep were determined based upon this study and many site visits. Damselfly young (naiads) do not extend from the water's edge, but the foraging and roosting home range of adults do extend into the surrounding vegetation. Undisturbed emergent wetland plants (like sedges) can serve as ant-free perches for immatures. However, the present seep habitat lacks much foliage and ground cover, primarily due to the repeated rooting of feral pigs.

151. Topographic and sunlight conditions influence the movement patterns of the adult damselfly in the surrounding area along the seep. Based upon site visits and available topographic data, the boundaries will respond to these needs, with the high points along and surrounding the ravine and above the seep channel establishing the habitat boundary. The boundary does not include an erosion incised, ephemeral drainageway located east of the seep. This drainage feature is normally dry except for brief flows after heavy rainfall events and does not serve as a habitat for damselfly young. The cemetery expansion was reduced by approximately 0.7 acre from 28.2 acres to 27.5 acres to provide for a 164-foot (50 meter) buffer area around the well and seep.

152. The project would not adversely impact native invertebrate species populations, which are widespread in distribution, except for a single listed endangered species. Use of native vegetation in the cemetery expansion area's landscaping and portions of the Cultural Preserve would provide additional habitat for native invertebrates. Design measures planned as part of grading plans (e.g. subsurface drainage system, irrigation line, etc.) would minimize fill effects on groundwater serving the well and seep. The additional buffer area (164 feet) proposed and grading improvements would thus not impact the Damselfly or alter its seep habitat due to avoidance and proposed minimization measures.

153. Damselfly populations and human developments can co-exist. A population of the Orange-black Hawaiian Damselfly (*M. xanthomelas*) at a stream course at Tripler Army Hospital has been sustained by managing piped water for 20 years. On Lāna'i, this endangered species (*M. xanthomelas*) was found breeding in a large, ornamental pond behind the Lodge at Kō'ele.

154. Proposed minimization measures would ensure continued water flow to the well and seep that would not alter this habitat. The State Department of Land and Natural Resources, Division of Forestry and Wildlife (DOFAW) has determined the seep and Damselfly habitat would not be negatively impacted with proposed minimization measures in their July 9, 2019 letter to HHF Planners. This was further confirmed in DOFAW's September 12, 2019 letter to the State Office of Planning. DOFAW also determined an Incidental Take Permit under Section 10 of the Endangered Species Act would not be required because the cemetery expansion would avoid the damselfly and its habitat and include minimization measures. Minimization measures proposed consist of the following:

- 1. Schedule a regular inspection of the seep to ensure the present low trickle flow of water is continued through a monitoring plan during the project design phase. Inspection of the seep should be conducted before the start of construction to establish baseline water flow conditions. Monitoring would occur during construction with the seep area inspected on a weekly basis to evaluate water flow in coordination with BMP measures. Once construction concludes, monitoring would continue for an additional six months to ensure continued seep water flow. Inspections would occur weekly for the first three months and every two weeks thereafter if conditions are satisfactory. After the six-month period elapses, HMP staff would conduct monthly water flow inspections.
- A well monitoring gauge or other appropriate device would be installed inside the well, upslope from the seep to monitor water levels prior to, during, and after project construction. A permanent water line extending

from the proposed cemetery expansion area's irrigation system to the well would be installed to serve as a long-term means of ensuring continued water flows to the seep. During construction, a temporary water line would also be extended to the well to support water levels, as necessary.

- Monitor as part of seep inspections to ensure fish, such as the Western Mosquito fish, are not present within this habitat area.
- 4. Review the habitat boundaries currently shown based upon more accurate data collected from a topographic survey during project final design and revise the habitat boundary as appropriate.
- 5. Construct fencing around the damselfly habitat boundary to protect native damselfly from disturbance by feral pigs.
- 6. Place small sticks upright and away from the edges of waterlogged areas to serve as molting safe zones to prevent predation. These sticks would protect naiads because ants would not cross water barriers.
- 7. A subsurface drainage system designed in a herringbone pattern would be installed in area above the well and seep. This system would ensure water flow is maintained to the well and seep.

155. The population of damselfly could succumb to some invasive species. Potential species that could threaten the population include fire ants brought over from a neighboring island or the introduction of something unintentional into an area. Because of the current trajectory of the declines across the state of so many native damselflies, it's not farfetched to say that that population, if not monitored, and if active management isn't ongoing, it could succumb to the impact of invasive species.

156. The avoidance and minimization mitigation measures proposed by the Petitioner provides the species a very solid chance of persisting with ongoing monitoring, and the placement of the temporary and permanent waterline.

157. DOFAWs witness testified that community support and engagement would also assist in the protection of this species.

5. <u>Groundwater Resources</u>

158. The Petition Area is located within the former caldera of the Koʻolau Mountain, and the caldera filling lavas beneath are part of the Kailua Member of the Koʻolau volcanics. These caldera filling lavas are relatively impermeable due to almost complete filling of interstices with secondary minerals from hydrothermal alteration. Clinker beds, where they occur, have been cemented into hard and essentially impermeable breccia. Joints of intruded dikes are also filled with secondary minerals. Given the virtual impermeability of Kailua volcanics, the project does not have the potential to impact ongoing or possible future uses of groundwater drawn from the permeable Ko`olau volcanics of the Koʻolaupoko Aquifer System.

159. The existing well-located directly upslope of the seep is 11.5 feet deep below the top of its concrete rim. The concrete top opening is 2.65 feet by 2.9 feet in dimension, and the dug borehole below is substantially larger than this opening. Several measurements taken determined that the well's water level was consistently above ground level on the downstream side of the well. The well is not registered with the State Commission on Water Resource Management (CWRM) and no information about its installation or past use could be found. An old pipe laying nearby indicates it may at one time have been a modest source of supply for some prior use (e.g. former dairy).

160. The small perennial seep emerges about four feet downslope from the well. Further down the waterway, the flowrate in the waterway continuously increases along the route to its ultimate discharge into a City drain inlet at the end of 'Ōhāhā Place. Given the additions to the flowrate en route downslope, it is more accurate to describe the seep as a linear area of discharge rather than a discharge from a single point.

161. <u>Well Testing Results.</u> Two types of field investigation were conducted to assess the well and seep: 1) drilling four boreholes directly upslope the well and seep; and 2) conducting a siphon and pump test of the well. Water was not encountered in the boreholes until each borehole had been drilled down to between 15 to 20 feet below ground. At that depth, the water level in each borehole rose very slowly establishing that the groundwater in the well and emerging in the seep is semi-confined. The tabulation of approximate water levels in the boreholes and the well showed that the semi-confined groundwater residing in the poorly permeable residual soil has a relatively steep downslope gradient.

162. Well siphon testing was conducted for two basic objectives: 1) to confirm that the semi-confined groundwater occurrence found at the four boreholes directly upslope also exists at the well; and 2) to determine if the seep emerging four feet downslope of the well is a result of subsurface leakage from the well. Both aspects of the groundwater occurrence were confirmed by the test. The results can be summarized as follows:

- When well water level was drawn about halfway down the well head, the seep emerging about four feet downslope stopped flowing. Clearly, flow from the upper end of the seep is maintained by subsurface well leakage.
- 2. Over the period of intermittent siphoning and then pumping, a total of 1,615 gallons was removed from the well. About 950 gallons was estimated to be

removed from well storage itself, and the remaining 665 gallons flowed into the well during the test. That inflow was at an average of about 4.3 gallons per minute (gpm).

- 3. Based on measurements of the recovering water level at the end of pumping, inflow to the well averaged approximately 3.1 gpm.
- 4. The water level in the well was checked the following day. The water level had fully recovered (actually to a level 0.1-foot higher than at the start of the test the day before). Flow in the seep below the well was fully restored at that time.

163. Field investigations demonstrated that the seep is maintained by the natural discharge of groundwater moving downslope through the poorly permeable residual soils overlying the unweathered Kailua volcanics. In the vicinity of the well and the four test boreholes upslope, the groundwater is actually semi-confined. The groundwater movement is through underlying soils at depths of 10 feet or more rather than through the surface soils. The upper end of the seep begins about four feet downslope of the well, and water flow in the upper one third to one half of the linear seep is maintained by subsurface leakage from the well. Further downslope, flow in the seep increases continuously to its ultimate discharge into the City's drainage system.

164. Based on the groundwater occurrence established, the footings of proposed retaining walls would be too shallow to directly intercept groundwater moving downslope. However, the weight of fill material behind retaining walls has the potential to compress existing soils, potentially impeding or redirecting groundwater moving downslope. To minimize this potential impact, the following measures would be implemented:

- A subsurface drainage system designed in a herringbone configuration consisting of three subsurface drains in the area planned for fill activities above the seep will be implemented. This would ensure the quantity and direction of groundwater flow is maintained. Subsurface drains would likely be installed between 10 to 15 feet below the existing surface. The exact location, alignment, and depth of this drainage system would be determined as part of project design.
- 2. A water level recording device would be installed within the dug well prior to construction. Monitored levels during and following construction would be a good indicator of the effectiveness of the subsurface drainage system. If the subsurface groundwater flow is not sufficiently maintained by this system, the flow would be augmented by a water line extended from the cemetery expansion area to the well. [Pet. Ex. 33, p.4]
- The Petitioner will register the shallow well with the State Commission on Water Resource Management to address their comments.

6. <u>Surface Waters and Water Quality</u>

165. Kāwā Stream is a perennial stream located outside the Petition Area and has a total run of about 2.8 miles of main and tributary stream courses associated with a larger watershed (Kāwā watershed). The stream's main course originates within the Hawai'i State Veterans Cemetery and discharges into the southern portion of Kāne'ohe Bay. Ephemeral drainage ways within the Petition Area carry site storm water runoff toward the City's drainage system serving the lower residential subdivision that eventually feeds into Kāwā Stream. This stream receives perched groundwater input and storm runoff that originates from both forested

and urbanized areas that include the Hawai'i State Veterans Cemetery, HMP, residential and commercial developments, schools and parks, a golf course, and a municipal sewer pumping station.

166. During dry periods of the year, groundwater baseflow enters the stream course from the basin located below HMP situated near the cemetery's baseyard, referred to as Cascade Spring (outside the Petition Area). Another small volume of perched groundwater seeps into a subsurface drain that daylights adjacent to the Cascade Spring that is connected to a curbside storm drain that collects rainfall runoff from the cemetery grounds above. This upper section of the stream and other nearby branches receive runoff from the surrounding forested lands. These tributaries of Kāwā Stream converge and flow downslope toward the Parkway Subdivision.

167. The average volume of groundwater input to the Kāwā Stream above the USGS monitoring station site is estimated to be around 600 gallons per minute (GPM). The stream flow measured at the Parkway Subdivision site reflects the approximate volume of baseflow (25 GPM) that originates from the basin located below the current HMP.

168. Kāwā Stream is listed on the State Department of Health's (DOH) 2016 303(d) list indicating a surface waterbody is in violation of State water quality standards. Kāwā Stream is a Class 2 inland water body. The objective of Class 2 waters is to protect their use for recreational purposes, the support and propagation of aquatic life, agricultural and industrial water supplies, shipping, and navigation. A Stream Bioassessment report prepared for Kāwā Stream found that it generally does not provide good habitat for native aquatic organisms and does not support any substantial populations of native fish and crustaceans.

169. <u>Līpalu Drainageway</u>. A flume (Līpalu Flume) was installed within the ephemeral drainageway serving the area identified as the Līpalu watershed about 200 feet mauka

of the City's Līpalu Street catchment basin to allow continuous stormwater flow monitoring. It should be noted that monitoring at the flume was terminated on February 18, 2018 due to a large storm event that partially destroyed the flume. The highest one-hour rainfall total associated with this event was 2.51 inches, and the likely peak flow volume during this intense storm was on the order of 200 cubic feet per second (cfs).

170. An average of 40% of the rainfall that fell within the Kāwā watershed during nine storm events recorded ended up as runoff discharged within Kāwā Stream at the USGS gaging station. Within the smaller Līpalu watershed, an average of 5.4% of rainfall within this area discharged as runoff during these storm events. During the three-month monitoring period, only about 1.2% of the total runoff discharged from the Kāwā watershed originated from the Līpalu watershed area.

171. <u>Water Quality.</u> The impact of pollutant loads including Total Nitrogen (TN), Total Phosphorous (TP), Nitrate plus Nitrate (N+N), and Total Suspended Solids (TSS) from the watershed on Kāwā Stream was estimated using stream flow and water quality data retrieved from the Kāwā Stream USGS station. An estimated 590.5 tons of TSS, 5.7 tons of TN, and 2.9 tons of TP were entrained in water passing the gauging station during the study's sampling period. The majority of sediment and nutrient loads were carried in the stream during the nine storm events. While 82% of stream flow occurred during these storm events, 99.2% of TSS and phosphorous loads and 91.6% of the TN load occurred during the events. The USGS observed that a single storm may deliver the equivalent of years and even decades of pollutant load received by coastal waters. This phenomenon is observed in the Kāwā watershed. Based on this data, the majority of sediment and nutrient loads entering Kāne'ohe Bay from Kāwā Stream occur during significant storm events. 172. Līpalu watershed streamflow and pollutant loads data similarly indicate these large storm events can contribute massive amounts of pollutants, overwhelming totals from smaller rainfall events and impacting Kāwā Stream and its water quality. Runoff volume from this forested watershed represents approximately 0.74% of total water flow measured at the Kāwā Stream gauging station. However, the TSS load leaving the area represents about 31.3% of the TSS load, indicating the undeveloped forested portion of the Petition Area experiences high levels of erosion and sediment runoff. This watershed also contributed 4.0% and 1.9%, respectively, of TN and TP. The high level of erosion and sediment runoff from the undeveloped portion of the Petition Area thus contributes a significant amount of TSS into Kāwā Stream. The data further confirms that large single storm events can contribute massive amounts of TSS and nutrients overwhelming totals resulting from other smaller rainfalls.

173. <u>Water Quality Sampling Results.</u> Stream and spring water samples were collected from within the Petition and surrounding areas (e.g. USGS Kāwā Stream gaging station, tributary behind the Parkway Subdivision recreation center). Water quality characteristics of Kāwā Stream were also determined via analysis of data from previous water quality studies. Sampling data suggests groundwater dominant baseflow in Kāwā Stream is characterized by relatively low concentrations of TP and TSS, with intermediate concentrations of TN and somewhat elevated concentrations of N+N. Stormwater dominant samples tend to have somewhat elevated concentrations of TP, elevated concentrations of TSS, elevated concentrations of TN, and comparatively lower concentrations of N+N.

174. The analysis indicates TN concentrations generally increase as TSS concentrations rise. This pattern suggests groundwater dominant samples, possessing lower TSS concentrations, also have comparatively lower nitrogen concentrations. Elevated nitrogen

concentrations result from the presence of stormwater runoff. A positive relationship between TP and TSS concentrations was also observed, with phosphorous concentrations increasing as the presence of suspended solids rise. This relationship suggests phosphorous may be present in solids transmitted to the stream during runoff events. A negative relationship between N+N and TSS was observed, with N+N concentrations generally declining as TSS increases. This suggests groundwater, which generally has lower TSS concentrations, is the primary source of nitrates to Kāwā Stream.

175. TP, TN, and TSS concentrations from the Līpalu Flume are significantly higher than samples from elsewhere in the watershed, including the Parkway site that receives runoff from the existing HMP cemetery. TSS concentrations in runoff from the undeveloped Līpalu watershed are elevated compared to concentrations measured elsewhere. Elevated concentrations may in part reflect the higher amounts of rainfall and rainfall intensity required to initiate flow in the forested watershed.

176. The data indicates that samples from the USGS Kāwā Stream station and the Parkway site follow similar variation trends. This suggests nutrient and TSS contributions to Kāwā Stream from the existing HMP cemetery area are not elevated compared to contributions from the lower urbanized portions of the watershed. The pattern further suggests existing developed cemetery areas of HMP do not contribute high nutrient concentrations to Kāwā Stream that would affect its water quality.

177. <u>Pesticide Analysis Results.</u> A total of 42 stream and groundwater samples were collected and analyzed for Glyphosate, Diuron, and 2,4-D. Glyphosate was analyzed due to its widespread use and general ubiquity in the environment. Diuron and 2,4-D were analyzed due to the detection of these pesticides in a stormwater sample collected at the USGS Kāwā Stream

station. These pesticides have been also detected in other streams on O'ahu and Kaua'i at trace concentrations, typically in the low to mid-part per trillion levels. Glyphosate was the most commonly detected pesticide with concentrations detected in 15 of 42 samples gathered. Diuron was detected in 7 of the 42 samples, while 2,4-D was only detected in a single sample.

178. Pesticides were most commonly detected in turbid, runoff dominated samples where TSS concentrations tended to be elevated. This suggests the source is from pesticide contaminated sediments that may be transported to Kāwā Stream during rainfall events. Pesticides may also be present in alluvial deposits located adjacent to the stream and become resuspended in stream waters through the scouring of deposits during periods of high stream flow.

179. Concentration levels of glyphosate at the USGS Kāwā Stream gage site are generally similar at the Parkway monitoring site that receives runoff from the existing cemetery. This suggests input of glyphosate into the stream from HMP's cemetery is similar to glyphosate input from lower residential communities providing runoff to the stream. The trace concentrations of Diuron detected at the Līpalu flume may reflect residual pesticide input from prior agricultural usage of the area (e.g. pineapple cultivation).

180. Although variation was observed, stream samples containing over 0.5 parts per billion glyphosate are generally moderately to highly turbid. This observed pattern aligns with findings of other studies on O'ahu and Kaua'i indicating that glyphosate is commonly detected in stream bed sediments. This supports the conclusion that glyphosate may be found in Kāwā Stream from runoff related resuspension of contaminated sediments. The estimated total mass of glyphosate from the large February 5, 2018 storm event producing roughly 17.6 million gallons
of runoff is estimated to be only 12.9 grams (less than a tablespoon) of glyphosate. Therefore, it can be concluded that glyphosate concentrations detected in Kāwā Stream are minimal.

181. <u>Formaldehyde Analysis Results.</u> Formaldehyde is a chemical used as part of the modern burial embalming process to temporarily prevent decomposition. Water samples were collected and analyzed to detect the presence of this chemical to address potential concerns with its leaching into perched groundwater from the existing Veterans and HMP cemeteries. Formaldehyde was not detected in any of the samples at an analytical detection limit of 5 parts per billion. This is consistent with scientific studies that have found that formaldehyde will biodegrade to low levels in a few days if released to water. In addition, the predominant degradation product of formaldehyde in the environment, formic acid, rapidly biodegrades in soils.

182. <u>Project Effects on Water Quality.</u> Project improvements are expected to have an overall beneficial impact on the currently impaired water quality of Kāwā Stream and the eventual discharge point at Kāne'ohe Bay. Cemetery expansion would overall reduce existing site slopes, lowering the velocity of runoff and improving runoff infiltration within the newly developed grassed areas and retention basins. Improvements should improve TMDL by reducing stormwater discharge, TSS, and nutrients exiting this watershed area. As shown by water quality data collected, the area below the present HMP cemetery site (Parkway Site samples) has far lower TSS and nutrients being discharged into Kāwā Stream due to the cemetery's landscaped infiltration effects. In comparison, the undeveloped Līpalu watershed area currently experiences significant erosion during large rainfall events.

183. Cemeteries are not intensively managed landscapes compared to golf courses.Thus, fertilizer use is not necessary at the existing HMP cemetery due to generally fertile

conditions, supportive weather conditions, and lower maintenance needed for turf grass. Pesticides are also not routinely used by maintenance staff for HMP's cemetery except for occasionally use of the herbicide Roundup (glyphosate) to address spot areas needing treatment. However, use is infrequent due to Kāne'ohe's generally wet weather and the characteristics of the cemetery lawn.

184. Glyphosate concentrations generated by the project should not have a significant water quality impact. Detected concentration levels from the larger watershed serving the existing Veterans and HMP cemeteries are broadly similar to glyphosate input from lower residential communities. Glyphosate use would be minimal within the cemetery expansion, and any discharge should be relatively small and minimally impact water quality. Cemetery expansion will also not lead to formaldehyde entering the stream based on the sampling results obtained. The Cultural Preserve would have minimal effect on existing runoff volumes and water quality because no major site improvements would occur within the Preserve area.

185. The project would have beneficial long-term water quality effects by reducing the velocity of runoff and the corresponding amount of TSS and nutrients discharged into drainageways and Kāwā Stream. Thus, no long-term mitigative measures are necessary. The following mitigative measures are proposed for short-term construction activities.

- Design plans will include BMPs to address mitigating these effects and plans would be coordinated with the City and County of Honolulu during review and approval of grading plans, as required by County rules.
- 2. Required permits (and review) include grading, grubbing, stockpiling, and a National Pollution Discharge Elimination System (NPDES) permit. These

permits all require agency review and approval and would address applicable BMPs.

3. An Erosion and Sediment Control Plan (ESCP) would also be prepared that includes BMPs as part of permit review and approval.

7. <u>Historic and Archaeological Resources</u>

186. Honua Consulting completed an Archaeological Inventory Survey (AIS) for the Petition Area that has been finalized and accepted by the State Historic Preservation Division (SHPD). The area of potential effect (APE) for the AIS study consisted of the entire 53.45-acre Petition Area. The AIS involved background research on pertinent historic and archaeological information; a 100% pedestrian surface survey of the Petition Area; site documentation of all historic properties encountered; and excavation of one site area. Consultation with interested community members has been on-going since 2016. Several lineal and cultural descendants, recognized cultural experts, and other knowledgeable individuals interviewed as part of a Cultural Impact Assessment (CIA) conducted by Honua Consulting supported background research during the AIS preparation.

187. <u>Summary of Fieldwork Results.</u> Archaeological fieldwork identified a total of 24 sites that were documented. Ten of the sites documented were identified in prior archaeological studies of the Petition Area. The remaining 14 sites documented during this investigation were newly identified. All previously identified sites from prior studies were relocated by Honua Consulting, previous plan maps and descriptions were amended to account for current conditions and observations. A summary of the location of all sites relative to the Petition Area and Cultural Preserve is provided.

- Twenty-two (22) of the 24 total sites identified are located within the Petition Area. Two sites identified as State Inventory of Historic Places (SIHP) -4681 (habitation complex) and SIHP -8235 (habitation site) are located outside of the Petition Area.
- 2. A total of 11 sites are within, or partially within, the Cultural Preserve. Eight of the ten previously identified sites are located within the Cultural Preserve: (SIHP # -354 [heiau], -4683 [charcoal kiln], -4684 [habitation complex], -6930 [enclosure], -6931 [alignments], -6932 [storage feature], -6933 [charcoal kiln], and -7079 [ag complex]). Some features associated with SIHP # -7079 (agricultural complex) are located outside the Cultural Preserve area (Feature D, mound). Three newly identified sites are located within the Cultural Preserve (SIHP # 8231 (terraced 'auwai), -8240 (terraces), and -8241 (walled pit).

188. <u>Sites Outside the Petition Area (Preserved).</u> Two sites are located outside the Petition Area and would not be affected by the proposed project. These sites include the following: 1) SIHP # 50-80-10-4681 is a traditional habitation complex located upslope (mauka) from the cemetery expansion area that would be preserved in place; and 2) SIHP -8235 is a habitation site located further upslope and east of SIHP -4681 and is recommended for data recovery and to be preserved in place.

189. <u>Sites Preserved Within the Cultural Preserve.</u> Eleven sites within the Cultural Preserve would be preserved. A portion of SIHP # -7079 (remnant ag complex) site's boundary is located outside the Cultural Preserve and would result in a portion of site features being impacted by grading activities. Data recovery is recommended for SIHP # -7079, Feature D

(mound). SIHP # -7079, Feature A (grinding stone) should either be preserved in place or relocated to an appropriate location within the Cultural Preserve. No further work is recommended for SIHP # -8241 (charcoal kiln) due to data collected via excavation during this AIS. These sites would benefit from the project, because they would be preserved, protected, and maintained. The cultural landscape and historic sites would be restored, and cultural use and practices could occur. A preservation plan will be developed for the Cultural Preserve that would ensure appropriate long-term management and maintenance of these sites occurs.

190. <u>Sites Outside the Cultural Preserve.</u> A total of 11 sites are situated outside the Cultural Preserve. Two sites would not be impacted by the cemetery expansion, but the remaining nine sites would be affected by grading activities. The two sites are not affected because they are being preserved or located within a buffer separating the expanded cemetery from nearby residences. These sites include a water retention terrace (SIHP # 50-80-10-4680) and an 'auwai (SIHP # 50-80-10-8230).

191. SIHP # -4680 is located in the northern end of the Petition Area boundary mauka of the end of Līpalu Street and would be part of a buffer area between the cemetery and residential subdivision. Site # -4680 is a terrace in fair condition previously used for water retention. This site is considered historically significant under Federal and State Register Criterion D with No Further Work recommended for the site given its historic function and remnant condition.

192. SIHP # -8230 is also located in the northwest corner of the Petition Area within an area that would be preserved. The 'auwai system associated with this feature provides habitat for the endangered Blackline Hawaiian Damselfly. This site is considered historically significant under State Register Criterion D with preservation recommended. 193. <u>Sites Affected by Cemetery Expansion.</u> The nine sites affected by grading activities are considered historically significant under Federal and State Register Criterion D. Data Recovery is recommended for four sites, and No Further Work is recommended for the remaining five sites, given their historic function and remnant condition. A summary of these sites is provided.

- 1. <u>SIHP # -8228 Historic Dairy Roads.</u> This site consists of four road features that are identified as Roads 1, 2A, 2B, and 3. These roadways are located in the western corner of the Petition Area generally mauka of 'Ōhāhā Place and are in poor condition. The sites include several historic dairy roads that are relatively level but damaged by natural tree growth and soil erosion. No Further Work is necessary for these roads.
- 2. <u>SIHP # -8229 Historic Road</u>. This site consists of a short segment of an old dirt road that is in poor condition. The road segment is about ten feet wide and runs in a north-south direction for about 33 feet. The ends of this roadway have been removed, likely bulldozed, leaving only this short segment remaining. No Further Work is necessary for this road.
- 3. <u>SIHP # -8232 Traditional Terrace Remnants</u>. This site consists of the remnants of a traditional terrace that is in poor condition. It is comprised of five features, consisting of a series of basalt cobble-lined terraces situated on a moderate to steeply sloped hillside. The condition of these features has been affected by natural water erosion and rockfall. No Further Work is necessary for these terrace remnants.

- 4. <u>SIHP # -8233 Traditional Terrace Remnants (6A) and Modified Outcrop</u> (6B). This site is comprised of two feature areas identified as Features 6A and 6B that are in poor to fair condition. The terraces have been heavily disturbed by natural erosion and rockfall. No Further Work is necessary for Feature 6A and Data Recovery would be implemented for Feature 6B.
- 5. <u>SIHP # -8234 Traditional Terrace</u>. Site features include a low stone terrace and two features that are likely natural terraces located near the convergence of two drainage ditches. This site was determined to be in fair condition. Data Recovery would be implemented for this site.
- 6. <u>SIHP # -8236 (Honua 9) Historic Water Retention</u>. This site is in good condition, and site features include a basalt boulder and cobble concentration located on the steep slope of a drainage ditch. The construction style appears to be historic-era and may have been used for water retention. Data Recovery would be implemented for this site.
- 7. <u>SIHP # -8237 Traditional Terrace Remnants</u>. This site includes remnants of a traditional terrace located on a moderately sloping, north-tending hillside. It is watered by a natural streambed created by intermittent runoff. The site is in poor condition due to natural erosion and thick vegetation growth. No Further Work is necessary for this site.
- 8. <u>SIHP # -8238 Habitation and Agricultural Terraces</u>. The site served as agricultural terraces with possible habitation and was determined to be in poor to fair condition. The shape of the site indicates the top portion may

have served as a habitation site with six associated agricultural terraces below. Data Recovery would be implemented for this site.

9. <u>SIHP # -8239 Earthen Pit</u>. This site is comprised of an earthen pit located at the top of a steep hillside that is in good condition. The interior southern pit wall has a flat, large basalt boulder and black, hardened soil. The darkened, cemented soil indicates fires were burned within the site. Data Recovery would be implemented for this site.

194. Based upon the SHPD-accepted AIS, data recovery would be conducted followed by development of a Preservation Plan. An archaeological monitoring program would be implemented during ground disturbing activities.

195. <u>Data Recovery.</u> The Data Recovery program would begin with completion of a Data Recovery Plan that would outline the proposed testing strategy and research objectives. The plan must be reviewed and accepted by SHPD prior to controlled excavation of select sites. Data Recovery would be conducted for four sites affected by grading activities, one site located outside of the Petition Area, and one additional site located on the boundary of the Cultural Preserve (SIHP # -7079). Data recovery efforts would attempt to establish function, usage, and the age of these sites, how they relate to each other, and aid determination of any further mitigation measures that may be needed.

196. If all or portions of SIHP # -7079 are impacted by grading plans, it is recommended that Data Recovery be conducted on one or more of the features, particularly Feature D (mound), and that Feature A (grinding stone) either be preserved in place or relocated to an appropriate location within the Cultural Preserve. Data recovery for SIHP # -8235 is recommended in order to see if data can be obtained to understand how the site relates with

others in the project area and also to find evidence regarding what types of activities were being conducted (what resources were being utilized, etc.).

197. <u>Preservation Plan.</u> All features within the Cultural Preserve would be preserved and protected through creation of a Preservation Plan. If Feature A (grinding stone) of SIHP # -7079 is impacted by grading activities, it would either be preserved in place or relocated to an appropriate location within the Cultural Preserve in accordance with the Preservation Plan. Two sites not located within the Petition Area (SIHP # -4681 and # -8235) would be avoided and thus protected. SIHP # -8230 ('Auwai) would be avoided and consequently preserved due to its function as a habitat for the endangered Blackline Hawaiian Damselfly.

198. The Preservation Plan would include a management component that establishes guidelines for managing activities occurring within the Preserve, which continues to allow cultural practitioners to access the site for cultural practices and gathering. The Preservation Plan for the Cultural Preserve would address:

- Establishment of the proposed Cultural Preserve and support development of a preservation and management plan that includes participation by cultural advisory groups, including the Ko'olaupoko Hawaiian Civic Club, and the Petitioner to foster appropriate cultural management.
- Allowing community members and organizations to engage in regular maintenance of Kawa'ewa'e Heiau and the surrounding cultural landscape and historic sites.
- 3. Determining buffer areas for the Heiau and other sites.
- 4. Working with the community to develop educational and interpretive programs.

- 5. Working with practitioners to protect culturally significant hula and medicinal plants.
- 6. Allowing for restoration of the cultural landscape, including but not limited to the 'auwai and historic terraces. The 'auwai associated with the well and seep (SIHP # -8230) could be included as part of these restoration and management activities.
- Addressing new burials within the Preserve following traditional native Hawaiian protocols.
- 8. Following recommendations for all historic sites presented in the Final AIS.

199. <u>Archaeological Monitoring</u>. An archaeological monitoring program would be designed in coordination with SHPD. The monitoring plan must be approved by SHPD prior to the start of ground-disturbing activities.

8. <u>Cultural Resources</u>

200. Honua Consulting completed a Cultural Impact Assessment (CIA) for the Petition Area. The CIA involved gathering historic cultural information from archival sources and conducting interviews with cultural descendants, lineal descendants, or other knowledgeable cultural practitioners. The CIA methodology follows the analytical framework established in *Ka Pa'akai O Ka 'Āina v. Land Use Commission*, 2000 (*Ka Pa'akai*). The CIA broadly covers the Kāne'ohe ahupua'a and focuses on areas near or adjacent to the Petition Area and identified tangible and intangible cultural resources of this area.

201. Interviews occurred with lineal and cultural descendants, recognized cultural experts with ties to the Kāne'ohe ahupua'a and to the Petition Area. In particular, the interview process focused on identifying and speaking with cultural practitioners, specifically Kumu Hula,

who accessed or have knowledge about area resources. Individuals were identified through community member recommendations and expertise along with individuals consulted as part of a CIA prepared in 2008. Efforts were taken to interview individuals that were unable to be consulted for the prior 2008 CIA, with a focus on Native Hawaiian cultural masters. An advertisement was placed in the State Office of Hawaiian Affairs (OHA) *Ka Wai Ola* February 2018 newspaper requesting information about possible resources in the Petition Area. Eleven individuals were interviewed for this current CIA.

202. Intangible resources associated with the Petition Area include mo'olelo (legends), 'ōlelo no'oeau (wise sayings), and mele (chants). Mo'olelo associated with the Petition Area include those associated with the demigod Kamapua'a, who is connected to the Windward O'ahu. Three 'ōlelo no'eau were identified that were related to the broader Kāne'ohe area and place names within the ahupua'a. Three mele were also identified that were associated with broader Kāne'ohe and Ko'olau regions.

203. Many historic sites identified in the Petition Area have been destroyed or degraded by prior agricultural activities, development initiatives, or invasive plant growth. Kawa'ewa'e Heiau is considered the most prominent of these sites and is in degraded condition with few features recognizable based upon the AIS. The site was a luakini heiau, which were heiau dedicated to human sacrifice and prayers by ruling chiefs. A holua slide was reported to be located near Kawa'ewa'e Heiau. Later archaeological research noted the slide was destroyed by attempts to cultivate pineapple in the Petition Area.

204. Culturally significant flora and fauna are associated with the Petition Area. Vegetation in the Petition Area is a mixture of invasive, endemic, indigenous, and Polynesian introduced plant species. Of the 95 plant species identified, 13 were culturally significant to native Hawaiians. Of these species, laua'e, pala'ā, tī, kukui, and palapalai are important to highlight given their usage by cultural practitioners for hula practices. In particular, laua'e fern are used in the process of perfuming kapa and are commonly included in lei. The majority of faunal species identified in the Petition Area are not culturally significant. The only native faunal species identified was the Pacific Golden-Plover (*Pluvialis fulva*), known as the Kōlea. This indigenous migratory shorebird plays an important role in many native Hawaiian myths and was believed to be messengers of the gods and divine chiefs.

205. Traditional and customary native Hawaiian practices currently occurring in the Petition Area include maintenance of Kawa'ewa'e Heiau and the surrounding area along with gathering of culturally significant plants associated with hula practices. Community members would be interested in assisting with heiau maintenance if the site was cleared of invasive trees and brush. Ko'olaupoko Hawaiian Civic Club members also expressed concerns about accessibility to the heiau for kūpuna. Various cultural practitioners noted the Petition Area is a valued source of hula related plants including Laua'e and the Pala'ā fern as well as plants with traditional medicinal value. Other cultural practitioners mentioned accessing the Petition Area to gather culturally significant plants from Līpalu Street.

206. Overall, culturally significant resources and practices within the Petition Area would be enhanced by the project due to the establishment of the Cultural Preserve supporting cultural practices, cultural landscape restoration, and maintenance and management of resources and historic sites. The Cultural Preserve would be managed under a Preservation Plan developed jointly by the Ko'olaupoko Hawaiian Civic Club and the Petitioner that would provide for the long-term maintenance and preservation of resources, which is a beneficial effect.

207. Some practitioners were concerned that cemetery expansion grading plans would impact flora such as Laua'e and Pala'ā. However, the Cultural Preserve has similar flora and would provide significant opportunities to improve Laua'e and Pala'ā habitat, by providing an area where such resources can be grown and managed in a more accessible and effective manner. Leaving conditions as they are now may result in a greater threat to the existing flora due to unrestricted growth of invasive vegetation, erosion, along with threats posed from unauthorized recreational activities and trespassers. Landscaping plans can also allow seeds or cuttings from extant endemic plants to be collected and grown or replanted within the Cultural Preserve as part of cultural landscape restoration.

208. Interviews with practitioners identified no traditional and customary practices associated with fauna in the Petition Area that would be impacted by the project. Numerous native Hawaiians expressed concerns about the potential impact to Kawa'ewa'e Heiau and surrounding historic sites. The final AIS determined the project would have an overall positive and beneficial impact on previous and newly identified sites in the Petition Area through establishment of the Cultural Preserve. The sites, including Kawa'ewa'e Heiau, would benefit from cultural landscape restoration, historic site restoration, and cultural practices. Several sites impacted by grading activities were determined under the final AIS to: 1) require no further work; or 2) be included in a data recovery program to mitigate project impacts. As a result, adverse impacts to these sites are not anticipated.

209. The Preservation Plan developed would ensure proper management and maintenance of associated sites. The area designated for the Cultural Preserve has been used for generations by Kumu Hula. Laua'e, Pala'ā, Tī, Kūkui, Palapalai, and other hula plants grow in this area for which Kumu Hula access the area, care for the area and its resources, and use the

resources for cultural practices. Establishing the Preserve is also important for perpetuating cultural practices through student teachings and allows continuation of cultural practices positively impacting these practices. Hawaiian practitioners would be able to conduct traditional practices, including burial practices, in the Cultural Preserve. This is an expressed wish by Hawaiian practitioners, who testified during the City Council Planning Committee hearings on the amendment to the Koʻolau Poko Sustainable Communities Plan.

210. The *Ka Pa'akai* analysis conducted as part of the CIA concluded that the project would not adversely impact traditional and customary native Hawaiian rights. The rights of native Hawaiian cultural practitioners would be preserved and protected by avoiding development in any areas identified as being utilized for traditional or customary practices. The Petitioner is also placing lands and resources used for traditional or customary practices into a Cultural Preserve and conservation easement that would ensure the protection of these resources in perpetuity. The Petitioner has further agreed to continue to work with practitioners to ensure safe, regular access to the lands and resources for cultural practice.

211. The following measures are related to the Cultural Preserve and would minimize impacts to associated historic sites, cultural resources, and traditional and customary practices:

- Establish the Cultural Preserve and support development of a preservation and management plan that includes participation by cultural advisory groups, including the Ko'olaupoko Hawaiian Civic Club or other Native Hawaiian Organization, and the Petitioner to foster cultural management of the preserve, and to provide reasonable funding for the same.
- 2. Follow recommendations for historic sites presented in the final AIS.

- 3. Continue allowing cultural practitioners access to the Cultural Preserve under the Preservation Plan management guidelines. Create safe access for kūpuna and practitioners to the heiau while limiting access from trespassers. A managed (gated and restricted) access can continue from Līpalu Street. However, a proposed new pathway through the expanded cemetery can be evaluated to determine if it would be a better and more convenient alternative.
- 4. The Preservation Plan should address: 1) allowing community members and organizations to engage in regular maintenance of Kawa'ewa'e Heiau and the surrounding cultural landscape and historic sites; 2) working with the community to develop educational and interpretive programs; and 3) working with practitioners to protect culturally significant hula and medicinal plants.
- Allow for restoration of the cultural landscape including but not limited to 'auwai and historic terraces. The 'auwai associated with the well and seep (Honua 3 site) could be included in restoration and management activities.

9. <u>Visual Resources</u>

212. The project's impact on the visual character of the landscape surrounding the Petition Area was assessed by first identifying prominent public views oriented toward the Petition Area from public vantage points where the Petition Area may be visible. Two City planning documents, the *Coastal View Study* and *Ko'olau Poko Sustainable Communities Plan* were referenced to identify relevant established views and visual resources that should be evaluated in this analysis.

213. The visual character of the Kāne'ohe ahupua'a is defined by the region's natural features and land uses. These natural features include the Ko'olau mountain range, vegetated inland hills, and Kāne'ohe Bay. Residential land uses dominate the area immediately north of the Petition Area. This area is generally comprised of single and two-story single-family homes. The area generally south and east of the Petition Area is natural in character due to the presence of the Oneawa hillside, which is undeveloped and densely vegetated. The area generally west of the Petition Area is largely open space in character due to the presence of landscaped areas of HMP and the nearby Pali Golf Course. The Petition Area encompasses a portion of Oneawa Hills. These areas include the hillside slopes and parts of the summit ridgeline. These areas are undeveloped and natural in character given the presence of a non-native forest on the hillside slopes and basins.

214. The *Coastal View Study* subdivides the island into viewsheds, which are entire surface areas visible to an observer from a viewing point. The study's He'eia section of the Kāne'ohe Bay Viewshed applicable to the Petition Area did not identify any important coastal views, scenic lookouts, or pertinent resources. Coastal views identified occur along sections of Kāne'ohe Bay Drive and Kamehameha Highway located north and away from the Petition Area (past Castle High School). The H-3 Freeway leading into the MCBH Kāne'ohe has a section providing lateral views across the bay, however, this section of the freeway is makai (northeast) of HMP and the Petition Area and no significant views from H-3 occur within the vicinity of the Petition Area.

215. The *Ko* 'olau Poko Sustainable Communities Plan, adopted in August 2017, provides general policy guidance for land use actions by the City. This plan identifies the general orientation and vantage points of prominent views within the Ko'olaupoko district. Two views

were identified that are applicable to the Petition Area and consist of the Pali Lookout and makai views from the H-3 Freeway.

216. The Pali Lookout viewing point consists of a panoramic makai-oriented view of the broad Kāne'ohe community. Expansive views are of concentrated urbanized areas combined with large open space areas of the Ko'olau Golf Club, City's Pali Golf Course, Oneawa Hill, other undeveloped areas, and Kāne'ohe Bay in the background. HMP's existing landscaped cemetery lawns are visible as well as a small portion of the Hawai'i Veterans Cemetery. Existing portions of the Petition Area including the heavily vegetated western lower flank slopes of Oneawa Hills are not prominent but are visible from this view.

217. Continuous makai views from the H-3 Freeway of the broader Kāne'ohe community is available. Makai of the Tetsuo Harano Tunnels, views of the Kāne'ohe viewshed are similar to that from the Pali Lookout, particularly for drivers heading towards Kāne'ohe. Expansive views are mainly of Kāne'ohe Bay due to the highway's concrete guardrails blocking portions of the view from a vehicle. Oneawa Hill and the ridgeline extending toward the MCBH Kaneohe are also landforms prominent in the view. The Petition Area is visible for a very short period (about 10 seconds) for Kāne'ohe bound vehicles. Views of the Petition Area then disappear for motorists due to the presence of dense vegetation and tall trees along the highway obscuring views.

218. Other public views of the Petition Area were identified from surrounding public vantage points. Kamehameha Highway near HMP provides existing views of the Oneawa hillside and the Petition Area. Motorists traveling northbound on Kamehameha Highway (Kāne'ohe bound) toward HMP can see existing portions of HMP as they pass beneath the overpass of the H-3 Interchange. However, a high, vegetated berm on the makai side of the

highway present obscures views of HMP and the Petition Area until one nears the cemetery's main entrance. Vehicles travelling in the southbound direction would similarly have views of HMP and the Petition Area blocked.

219. The first public view along Kamehameha Highway identified is oriented makai toward the Petition Area at HMP's main entrance across of Halekou Road. Existing HMP facilities and landscaped areas are visible from this view. However, the dense vegetation and tall trees associated with the undeveloped portions of the Hawai'i State Veterans Cemetery property block most views of the Petition Area. Traveling further north from this main entrance, tall trees and vegetation present along the highway obscure all views of HMP and the Petition Area until vehicles reach the second HMP entrance across of Mahinui Road. At this second entrance, dense vegetation and tall trees associated with the undeveloped portions of the Hawai'i State Veterans Cemetery similarly block most views.

220. Four views of the Petition Area from vantage points located within the Pikoiloa Subdivision were identified. Views are at the intersection of 'Ōhāhā Place and 'Ōhāhā Street, a stationary spot further east on 'Ōhāhā Street, and a stationary spot on Lupo Street. The fourth vantage point is located further north from these views at the intersection of Namoku Street and Mokulele Drive. As a whole, the densely vegetated hillside with tall trees currently separating nearby residences from the Petition Area are prominent features within these views. Mature trees populating Oneawa Hills are also visible and are the only aspects of the Petition Area visible.

221. Three views oriented toward the Petition Area were identified along Kāne'ohe Bay Drive. Looking toward the Petition Area from this roadway, existing commercial buildings associated with the Windward City Shopping Center block views. Castle High School facilities, including the school's classroom buildings, street fencing, and tennis courts, are the dominant

features along this road. Only a small portion of the Petition Area's upper elevations that consists of heavily vegetated portions of Oneawa hillside are visible from this view. Residential homes and existing trees also dominate and block views of the Petition Area along this roadway. A view of the Petition Area and Oneawa hillside from Kāne'ohe Bay Drive's intersection with the Bay View Golf Course entrance is blocked by residential homes and trees.

222. Grading activities for cemetery expansion would substantially alter existing landforms and vegetation within the Petition Area. The Cultural Preserve would have minor landscaping improvements that should not significantly alter current conditions or views of this densely vegetated area. Grading would result in extensive cut and fill activities for the cemetery expansion to achieve a more balanced topography having slopes no greater than 20% to allow for pedestrian access among gravesites. The western section of the cemetery expansion is where the most significant changes to existing topographic conditions would occur. Areas graded would be landscaped with turf grass, altering the view of the existing canopy forest character within the Petition Area.

223. Although the project would alter the Petition Area's present visual appearance and forest character, this change would not have an adverse effect on existing views and viewing locations identified. The landscaped and open space character of the expanded cemetery would complement the existing HMP and Hawai'i State Veterans Cemetery already present within the backdrop of the larger Oneawa hillside. The alteration of the Petition Area's view is one of many elements comprising the visual quality of the visible landscape. In comparison, other potential urban developments, such as residences or commercial uses, would create a greater visual change and contrast in character. 224. Within the larger viewshed, the landscaped open space view and character of the expanded cemetery is similar to several other existing surrounding uses such as the Pali Golf Course, Ko'olau Golf Club, HMP, and State Veterans cemetery. The Petition Area would not be visible at several public viewing sites along roadways. Existing dense vegetation and tall trees, particularly within the State's Veterans cemetery's property along the hillside, would screen views of the expanded cemetery particularly from upland areas looking toward Kāne'ohe Bay.

225. More importantly, elevations within the cemetery expansion would generally be lower or the same elevation as existing surrounding uses making its view difficult to see from many areas and along roadways. The grading plan for the cemetery expansion would predominantly result in elevations ranging from about 230 to 350 feet AMSL. Only a very small area of the cemetery expansion near the Cultural Preserve would have grading improvements extending up to the 400-foot elevation. In comparison, the Hawai'i State Veteran Cemetery ranges in elevation from 280 to 370 feet AMSL. HMP's existing cemetery ranges in elevation from 270 to 340 feet AMSL.

226. From the Pali Lookout and H-3 Freeway, only a portion of the 27.5-acre cemetery expansion area would be visible from the view of the Kāne'ohe region viewshed because most of the area would be blocked by existing dense vegetation and trees associated with the State cemetery. Although the Petition Area would change visually, the overall character of the larger Kāne'ohe region viewshed from this vantage point would not be significantly impacted. The distance of the Petition Area from this lookout view diminishes its effect as compared to the Ko'olau Golf Club and Pali Golf Course in the immediate distance. The landscaped turf of the cemetery expansion would also be generally compatible with views of the existing landscaped open space character of HMP, Veterans cemetery, and golf courses.

227. The project's impact on the view from Kamehameha Highway would not be significant. A small portion of this graded and landscaped area of the expanded cemetery would be visible, resulting in a slight and relatively minor change to the character of this view. Existing dense vegetation and tall trees from the State's Veterans cemetery's property screens views of the expanded cemetery. In addition, the lower elevation of the cemetery expansion relative to the existing HMP cemetery further blocks views. Prominent views identified along Kāne'ohe Bay Drive would similarly not be significantly impacted. As previously discussed, the Petition Area is predominantly not visible from this road due to existing residences, vegetation, Castle High School, and commercial uses obscuring views.

228. The project would not significantly impact views of the landscape seen from vantage points directly downslope of the Petition Area in the Pikoiloa subdivision. Existing views from these locations would essentially be unchanged. The Petition Area would continue to be obscured by mature trees on the vegetated hillside separating nearby residences from the Petition Area. Although a small number of mature trees seen in the background of the view would be removed through cemetery expansion improvements, the majority of trees visible are located on the nearby hillside that would remain. Therefore, the landscape visible from these views would remain largely unchanged after project implementation.

I. <u>Environmental Quality</u>

1. <u>Noise</u>

229. CENSEO AV+Acoustics (CENSEO) conducted an environmental noise assessment and prediction report to identify noise impacts to the area surrounding the Petition Area due to project construction, increase in vehicular traffic on the nearby roads, and long-term operation of the future cemetery expansion area. Mr. Todd Beiler is the owner of CENSEO and provided written testimony on the study results. Ambient noise level measurements, which included both long-term and short-term noise measurements, were conducted to document the existing ambient noise environment in the Petition Area vicinity. Noise measurements were taken at one long-term noise measurement location and four short-term noise measurement locations. Three of the short-term noise measurement locations were near existing residences.

230. <u>Long-Term Measurement Results.</u> Dominant ambient sound sources included park maintenance activities and vehicles with the highest measured sound levels due to trucks or construction vehicles on the cemetery grounds. Dogs, roosters, air traffic (MCBH Kaneohe Bay), and vehicular road traffic from Kamehameha Highway also contributed to ambient noise levels. Overall, the average day sound noise level was 54 dBA and the average night sound level was 47 dBA.

231. <u>Short-Term Measurement Results</u>. Traffic noise was the dominant noise source at the measurement site located near the northern entrance of HMP along Kamehameha Highway (70 dBA average sound level). Noise from HMP maintenance vehicles, although intermittent, resulted in an average sound level of 48 dBA at the measurement site in the northwest corner of Ocean View Garden. Ambient noises within HMP typically originated from traffic along Kamehameha Highway or from animals (e.g. roosters). Ambient noise levels measured along the adjacent neighborhood (sites at the end of 'Ōhāhā Place and Līpalu Place) were primarily due to dogs or roosters in the surrounding area. Proximity to nearby roads and associated vehicular traffic had less of an influence on sound levels because neighborhood vehicular traffic was minimal.

232. The main noise effects from the project would be from short-term construction activities as compared to the long-term operation of the cemetery expansion.

233. Long-Term Impacts. The primary long-term noise sources during normal daytime operations in the cemetery expansion area would be maintenance vehicles and equipment. This includes lawn mowers and grass trimmers. Maintenance equipment, while likely audible if used near residences, are mobile and temporary noise sources. This equipment is not regulated for noise at the federal, state, or local levels. Maintenance equipment would only be used daytime during normal business hours, which is consistent with current cemetery operations.

234. Backhoes used to create burial spaces occur only daytime during normal business hours. Typical backhoe operations at 25 feet or further from the property line are expected to be less than the 90 dBA construction noise limit identified under the Federal Transit Authority's (FTA) criteria for residential land use areas. The State DOH does not specifically quantify allowable construction noise levels. Instead, the State DOH specifies the times at which construction activities may occur.

235. Cultural practices and restoration activities occurring within the Cultural Preserve are not expected to generate significant noise, and noises generated would likely not occur on a daily basis. Traffic noise within the cemetery as a whole is expected to increase by only one decibel due to the proposed project. Although noise from internal cemetery traffic may be audible at nearby homes, noise events should be intermittent. HMP closes its gates to traffic at night, so nighttime traffic noise from within the cemetery would not occur.

236. <u>Short-Term Impacts</u>. Predictions assume the earthwork phase of project construction would be the main noise concern, and equipment incorporated into noise level predictions were the loudest types expected to be used for this project. The lowest worst-case predicted noise level during the project's earthwork phase was 74 dBA for noise sensitive

receivers located 470 feet from the project earthwork boundary. The highest worst-case predicted noise level was 91 dBA for noise sensitive receivers located 85 feet from the earthwork boundary. Both of these noise sensitive receiver locations are residential uses located generally downslope from the Petition Area's northern boundary.

237. With the exception of receptors located 85 feet from the project earthwork boundary, construction noise levels are not expected to exceed the FTA's noise impact threshold of 90 dBA for residential land uses. Actual noise levels experienced would vary greatly and are primarily based on a function of the distance of the receiver from the noise source, sound attenuation between the noise source and the receptor, and the quantity of noise sources (construction equipment) used. The duration of the construction activities does not have an impact on the noise level. A common simplified method of predicting approximate sound level reductions due to increasing distance is that the sound level is reduced by 6 dB when the distance (between source and receiver) is doubled. Subjectively, a 6 dB reduction is considered to be a "significant difference."

238. Given the analysis results, construction activities would inevitably result in shortterm, minor to moderate noise impacts. The extent of impacts would vary depending on the stage of construction, wind direction, equipment used, distance to the receptor, and activity duration. Therefore, the ability to control construction noise levels relates primarily to the duration and time of construction activities.

239. Construction noise levels should not be high enough to cause hearing loss for nearby residents. The Federal Occupational Safety and Health Administration (OSHA) sets the Permissible Exposure Limit at 90 dBA of noise exposure over an 8-hour time period, while an exposure of 85 dBA (for an 8-hour period) is commonly used as threshold to begin monitoring noise levels. Hearing risk exposure of 85 dBA, or less, for eight hours per day, followed by 10 hours of recovery time generally results in negligible risk to hearing. In comparison, average noise from a gas-powered lawnmower is about 90 dBA, measured at 4 feet from the lawnmower. Additionally, construction equipment usage would likely not occur continuously over a full eight-hour period.

240. It is best practice for pile drivers and hydraulic breakers to not be used within 50 feet of normal residential buildings. Care should be taken when using pile drivers and hydraulic breakers within 100 feet of structures. Therefore, the 150-foot buffer away from residences would minimize such construction vibration issues.

241. In situations where construction noise exceeds, or is expected to exceed, the State's "maximum permissible" property line noise levels, a construction noise permit must be obtained from the State DOH. This state-issued permit is typical for construction activities. The DOH noise permit does not limit the noise level generated at the construction site. Rather, the permit limits the times noisy construction can occur. Specific permit restrictions for construction activities are:

- No permit shall allow construction activities emitting noise in excess of the maximum permissible sound levels before 7:00 AM and after 6:00 PM of the same day, Monday through Friday.
- No permit shall allow construction activities emitting noise in excess of the maximum permissible sound levels before 9:00 AM and after 6:00 PM on Saturday.
- No permit shall allow construction activities emitting noise in excess of the maximum permissible sound levels on Sundays and holidays.

242. Measures proposed to mitigate noise impacts during the construction phase consist of the following:

- 1. A construction noise permit should be obtained from the State DOH for construction equipment operation.
- 2. The contractor should use reasonable and standard practices to mitigate noise, such as using mufflers on diesel and gasoline engines and using properly tuned and balanced machines. Unavoidable noise impacts may be reduced by using equipment intermittently or by blocking the line-of-sight from noise sources to noise-sensitive receptors with barriers or other designed noise mitigation measures. Conducting noise and/or vibration monitoring during construction can also help quantify any potential exposures to noise and vibration.
- Possible source control methods including substitution of quieter construction methods or equipment when possible should be considered during the design phase. These methods can be applied to most construction equipment.
- Possible source control methods would be considered during the design phase as part of contractor requirements, and such methods can be applied to most construction equipment.
- 5. If vibration from a hydraulic breaker is disturbing to nearby residents and generating neighborhood complaints, the vibration inducing activities should be scheduled for the middle of the day when many residents are least likely to be home.

2. <u>Air Quality</u>

243. Air quality in the State can generally be characterized as relatively clean and low in pollution. Excluding exceedances due to volcanic emissions, the Island of O'ahu was in attainment of all National and State AAQS in 2015. Tradewinds are predominant throughout the year, typically carrying emissions and other air pollutants from inland areas toward the ocean.

244. Air quality in the region surrounding the Petition Area is primarily affected by vehicular carbon monoxide (CO) emissions occurring along major roadways or highways that include Kamehameha Highway, Kāne'ohe Bay Drive, Mokulele Drive, and the H-3 Freeway. Air quality is affected to a lesser extent by commercial and industrial uses, such as the quarry on the other side of Oneawa hillside. Residential uses also surround HMP and the Petition Area and are not significant sources of airborne pollutant regulated under National and State ambient air quality standards (AAQS).

245. The main project effects on air quality would be from short-term construction activities as compared to the long-term activities occurring within the cemetery expansion. The only source of potential long-term effects on regional air quality would be carbon dioxide from localized traffic congestion at the HMP driveway intersections. Activities at burial sites within the expanded cemetery would not generate long-term impacts potentially affecting air quality.

246. Two types of air pollution that could result in short-term air quality impacts are: 1) fugitive dust emission from project construction activities and vehicle movement; and 2) exhaust emission from on-site construction equipment. Fugitive dust emissions could result from earth moving activities associated with cemetery grubbing and grading activities, construction of related retaining walls, and development of site improvements such as roadways and drains.

247. Construction activities would comply with State of Hawaii's air pollution controls prescribed under State DOH's rules (Chapter 11-59, HAR "Ambient Air Quality Standards" and Chapter 11-60.1, HAR "Air Pollution Control"). These rules prohibit visible emission of fugitive dust from construction activities at the property line. A dust control plan would be prepared if adverse air quality impacts are anticipated for implementation by the contractor. To mitigate short-term construction effects on air quality within the Petition Area from emissions of fugitive dust, the following mitigative measures are proposed.

- A dust control plan would be prepared during the project's design phase for implementation by the contractor in compliance with State regulations. Dust control measures may involve implementation of BMPs potentially consisting of a watering program, use of windscreens, and use of temporary rock pavers for heavily traveled areas with exposed soils.
- 2. Construction vehicles would be properly operated, and all equipment properly maintained to minimize exhaust emissions.
- 3. The movement of heavy construction equipment and workers would occur outside peak traffic periods. Design plans would be coordinated with the project contractor to ensure movement of equipment and workers does not occur during commuter peak traffic hours.

J. Adequacy of Public Services and Facilities

1. <u>Water Service</u>

248. The Petition Area is an undeveloped site that is not currently serviced by on-site potable water infrastructure. The City Board of Water Supply (BWS) provides potable water service to existing sections of HMP, the Hawai'i State Veterans Cemetery, and surrounding uses

via a network of water transmission mains. Water provided to HMP is by the City's potable water system from two separate connections. The main connection point is located at the entrance to HMP in the vicinity of Mahinui Road and Kamehameha Highway. A 6-inch meter on Kamehameha Highway services HMP and has a capacity of 1,000 gallons per minute (gpm). Ocean View Garden's irrigation system is serviced via a separate 1-inch lateral coming off a 5/8-inch meter from Kumakua Place.

249. The majority of existing water demand is primarily related to irrigation of the cemetery's landscape, with a smaller portion of water used for cemetery water features and visitor needs (i.e. filling individual containers for burial plots). An average of 10,000 gallons of water a day is used by HMP for irrigation of their existing 80-acre cemetery. Irrigation water use varies depending upon weather conditions, and HMP's irrigation demand has generally been fairly low to moderate due to the wetter climate conditions in Windward O'ahu.

250. Site improvements propose to connect the cemetery expansion area's irrigation system to the City's existing waterline at the end of Kumakua Place. The existing 5/8-inch meter serving Ocean View Garden will need to be upgraded to a 2-inch water meter to accommodate the additional water flow needed. This additional demand will not have a significant impact on the City's potable water system. Irrigation will only be needed during drier periods, such as during summer months, or during periods of low rainfall.

251. It has been estimated that an average of about 3,500 gpd of water will be needed for irrigation of the expanded cemetery. This estimate is based upon an average use of 125 gallons per acre per day for the Ocean View Garden. With this increased demand, the total average daily water use for irrigation with the project will be 13,500 gpd. The City BWS has further confirmed that the existing water system is adequate to accommodate the proposed

expansion of the cemetery in an October 11, 2018 comment letter on the Draft EIS. The Petitioner will pay the water system facilities charges for resource development, transmission, and daily storage when water is made available. Construction drawings and the project construction schedule will be coordinated with BWS for review during the project design phase to minimize impacts to the City's water system.

2. <u>Wastewater Facilities</u>

252. The City Department of Environmental Services (DES) provides municipal wastewater collection and treatment in the Kāne'ohe district via a system of wastewater pump stations and sewer lines. The Petition Area is currently undeveloped and is not served by the City's wastewater system.

253. Sewer mains and laterals are located within City streets in the vicinity of HMP and the Petition Area and include an 8-inch transmission line in Lipalu Street. This infrastructure collects wastewater from nearby residential subdivisions. There are no sewer lines within Kamehameha Highway fronting the HMP site. As a result, HMP is not serviced by this municipal system, and wastewater generated by HMP's present facilities are treated by an approved septic system.

254. The project would not have a significant impact on the existing municipal wastewater infrastructure. The project does not include improvements, such as restrooms, that would generate increased wastewater impacting the City's system. As a result, improvements to existing municipal wastewater infrastructure would not be required.

3. <u>Drainage Facilities</u>

255. Existing municipal drainage facilities are available within the residential subdivisions surrounding HMP and within the subdivisions below the Petition Area. These

facilities were generally developed as part of existing residential subdivisions. The municipal system generally consists of various storm drains within roadways, inlets, and catch basins that collect runoff from the street.

256. The Petition Area ranges in elevation from 172 feet to 412 feet AMSL, and existing slopes vary from 0% to 100% The western portion of the site, adjacent to Ocean View Garden, includes a ridgeline directing stormwater runoff both towards and away from the project site. The slopes of the hillside are up to 90% in some areas. Moving east across the Petition Area, the slopes decrease significantly to an average of 25% to 30%. The watershed area encompasses the 54-acre Petition Area and a contributing off-site drainage area above this site for a total of about 93 acres The mauka land comprising this watershed extends up to an elevation of 670 feet MSL.

257. <u>Existing Drainage System Serving Petition Area</u>. Within the Petition Area, stormwater runoff generally sheet flows downslope in a north-northwesterly direction following natural ephemeral drainageways and lower lying areas based upon the site's topography. Stormwater sheet flows toward the Pikoiloa subdivision, eventually discharging into the City's catchment structures located on Līpalu and Ōhāhā Streets. Six catch basins exist along the Petition Area's border with residential properties, with two larger structures situated at the end of Līpalu Street and Ōhāhā Place. Runoff collected by the City's system is eventually channeled into Kāwā Stream, and later discharges into Kāne'ohe Bay.

258. Stormwater sheet flowing toward the Pikoiloa subdivision is first collected by a system of concrete drainage swales designed to collect and convey stormwater to existing City catch basin structures. The concrete drainage swales run along the mauka boundary of residences, are within private property, and are the responsibility of individual property owners

(residents) to maintain. Site inspections throughout the years have shown these swales have been poorly maintained by property owners. Neighbors have complained about flooding when these swales become overwhelmed.

259. The City's system was designed to meet current, undeveloped conditions within the Petition Area for the 10-year, 1-hour storm. This existing drainage system is adequate for the current, undeveloped conditions within the Petition Area. However, it may have little excess capacity to accommodate additional peak runoff.

260. <u>Current Evaluation of Petition Area</u>. The undeveloped Petition Area is densely vegetated with large canopy trees in the western portions of the area. The canopy, primarily invasive albizia trees, prevents sunlight from filtering through, and is prevalent on the western portion of the site, where minimal ground cover is evident, and some erosion is occurring. The eastern portion of the site has a smaller canopy trees, more ground cover, and heavy vines over boulders due to more sun exposure.

261. Drainage calculations were prepared in accordance with the City DPP's *Storm Drainage Standards* (August 2017) for the 10-year and 100-year, 1-hour storm events. The drainage area studied encompasses both the 53.45-acre Petition Area and the surrounding upslope watershed area for a total of 93.2 acres (shown on Exhibit JH-C.). The Storm Drainage Standards only require the use of the 10-year, 1-hour recurrence interval for drainage areas of 100 acres or less.

262. Intervener's expert on civil engineering testified that the Preliminary Engineering report used the Rational Method to calculate the runoff flows as stated by the City and County of Honolulu drainage standards. Had the proposed Petition Area been only 7 acres larger, the City would require using Plate 6 to calculate runoff for larger basins. Using Plate 6 to calculate the

runoff flow; the calculated runoff would be five times higher than the calculation from the Rational Method submitted by the Petitioner.

263. There are five sub-drainage areas (Areas A to E). Area E is the largest and includes the central and eastern portions of the cemetery expansion along with the Cultural Preserve. Area E corresponds to the Lipalu watershed that drains into the City's catchment basin at the end of Lipalu Street. The other four drainage areas serve the smaller western watershed area that discharge into the City's catchment basin at the end of 'Ōhāhā Place.

264. The Petition Area also consists of offsite drainage areas in addition to onsite drainage areas. Offsite drainage areas include land mauka of the Petition Area, to an elevation of 670 feet MSL.

265. <u>Project Effects on Drainage Conditions</u>. The project's grading activities within the cemetery expansion area will change ephemeral drainageways and drainage patterns. Stormwater will continue to travel in a north-northwesterly direction downslope through the Petition Area for eventual discharge into the City's existing drainage facilities.

266. Project improvements proposed will change existing site conditions from undeveloped forest to a predominantly landscaped grass area. Changes to topographic conditions will create a more level site with sloped grades of less than 20%.

267. The project results in a 2% total increase in impervious area within the 92.3-acre drainage area. This is due to 2 acres of impervious surface being added as new roadways within the cemetery expansion. The Cultural Preserve will remain unchanged; the remainder of the Petition Area will consist of grassed cemetery lands, and undeveloped mountainous terrain mauka of the Petition Area.

268. <u>Proposed Drainage Improvements</u>. The City adopted new "Rules Relating to Water Quality" under their Administrative Rules, Title 20, Department of Planning and Permitting in August 2017. Under these rules, the cemetery expansion is defined as a "Priority A" project, which involves land disturbance of one or more acres. Post-construction stormwater requirements include incorporation of appropriate LID strategies and source control BMPs, including on-site retention of the water quality volume (WQV) or biofiltration BMPs for the remaining portion of the WQV not retained on-site.

269. Planned drainage improvements include the use of two LID strategies and source control BMPs in order to meet the new requirements: 1) retention/detention basins, and 2) vegetative buffers.

270. Cemetery access roads will be graded to direct runoff to drain inlets located adjacent to these roads that will convey stormwater to lower portions of the site where three permanent retention/detention basins are proposed. These and other basins shall initially be constructed to handle sediment laden runoff resulting from grading activities during construction. Three of these basins will then remain as permanent post-construction LID improvements. The basins function as a detention system and retain stormwater for water quality purposes.

271. Stormwater from the cemetery expansion will be detained and allowed to infiltrate within the permanent retention/detention basins. These basins retain a temporary pool of water that is designed to drain between storm events, while the remainder of the water is drained through a controlled outlet. These outlets will be designed to allow a basin to drain completely within 48 hours when full, and 24 to 36 hours when half full. An emergency spillway will also be designed to allow the basin to safely overtop when experiencing a larger storm event. A summary description of the retention/detention basins is provided:

- <u>Detention Basin A</u>. This basin is intended to detain stormwater runoff for the area along the edge of the Ocean View Garden site and the western edge of the cemetery expansion.
- <u>Detention Basin B</u>. This basin is intended to collect stormwater runoff from this western area where the hillside will be excavated and will drain into the existing drainage culvert behind residences at 'Ōhāhā Place.
- 3. <u>Detention Basin C</u>. This basin is intended to generally collect stormwater runoff from the central portion of the Petition Area. This basin will have a drain connecting to the existing drainage culvert at the end of Līpalu Street.

272. The project will also have a vegetated buffer strip between the cemetery and lower lying areas. A vegetated buffer strip is a grassy slope vegetated with turf grass that is designed to accommodate sheet flow and removes pollutants by vegetative filtration.

273. Petitioner's proposed retention/detention basins are designed for a 100-year, onehour duration storm event of 4.5 inches. This design is not reasonable, as it does not account for rain before and after the one-hour storm event; however, if there is such an extreme event, there will be rain before and after that hour. Design should plan for a 10-year, 24-hour rainfall event at a minimum.

274. Intervener's expert in meteorology stated that Hawai'i can expect to see more frequent and intensive events with rainfalls exceeding 4.5 inches in one hour. Scientific research is clear that there is an increase in heavy rainfall events, resulting in the recurrence interval getting smaller.

275. Stormwater will eventually drain from all detention basins through outlet structures directing flow to existing catchment structures on Līpalu Street and 'Ōhāhā Place.

Given that City's existing drainage structures presently appear to lack capacity beyond the 10year, 1-hour storm event they were designed for, proposed improvements by Petitioner will need to be designed to at least a 10-year, 24-hour rainfall event.

276. Petitioner's expert Jami Hirota testified and represented that "At the start of construction, erosion and sediment controls will be installed prior to the clearing and grubbing of the site."

277. Hawaiian Memorial Park, Ltd. will prepare a detailed "Detention Basin Analysis", using appropriate computer modeling software, to determine the size of the detention basins to be constructed immediately upstream of each of the existing drainage inlets that will receive runoff from the project. The inflow will be calculated based on at least a 10-year, 24hour rainfall event and the basins will be designed so that outflow from each basin will be limited to the capacity of the existing downstream drainage improvements. The Detention Basin Analysis will be submitted to DPP for approval. After the Detention Basin Analysis is approved, the detention basins will be constructed as soon as practical after the start of grading for the project. These commitments of Hawaiian Memorial Park, Ltd. and the succeeding analyses will likely result in detention/retention basins that are considerably larger than those described and proposed as mitigation measures in Petitioner's FEIS.

4. <u>Solid Waste Facilities</u>

278. The City Department of Environmental Service (DES), Refuse Division operates 10 waste processing areas on O'ahu that include six drop-off convenience centers, three refuse transfer stations, and the Waimānalo Gulch Sanitary Landfill. City solid waste disposal facilities
also include the Honolulu Program of Waste Energy Recovery (H-POWER) waste-to-energy facility located in Campbell Industrial Park.

279. Waste collection at HMP is currently provided by a private waste hauler and is taken to City disposal facilities at H-POWER or the Waimānalo Gulch Sanitary Landfill. The Petition Area is located within the City's Ko'olaupoko collection district that serves the area along the entire windward coastline from Waimānalo to Kahuku. The Petition Area is currently not serviced by municipal refuse collection services because it is undeveloped.

280. City collected green waste is transported to Hawaiian Earth Products (HEP) that is an offsite green waste processing operation. HEP has three facilities on O'ahu, with one facility located in Waimanalo. These facilities process green waste from homeowners, commercial yard services, and government and commercial sources into compost and mulch. Green waste generated by commercial and governmental sources are not collected by the City. Green waste generated from commercial and governmental sources is banned from landfill disposal. Therefore, private entities such as HMP, must dispose of green waste themselves or contract disposal through a private hauler. HMP operational protocol does not prescribe removal of greenwaste generated from onsite landscaping activities. This greenwaste is left to decay onsite.

5. <u>Transportation Facilities</u>

281. HMP is serviced by two existing unsignalized driveway intersections: 1) Kamehameha Highway, Mahinui Road, and HMP Driveway 1 (main entrance); and 2) Kamehameha Highway, Halekou Road, and HMP Driveway 2. Traffic counts were taken at these study intersections during the weekday commuter morning and afternoon peak periods, along with a weekend (Saturday) mid-day peak period. Traffic projections with and without the project were developed for the study year 2040. 282. Major roadways at the Petition Area intersections consist of Kamehameha Highway, Halekou Road, and Mahinui Road. Kamehameha Highway is a four lane, two-way, divided arterial State roadway generally oriented north-south, and has a posted speed limit near study intersections of 35 miles per hour (mph). Kamehameha Highway serves as the regional north-south travel corridor for vehicles in Kāne'ohe.

283. Mahinui Road is an undivided two-way, two-lane City roadway running in an east-west direction. This road forms the western leg of a four-way unsignalized intersection with Kamehameha Highway and HMP Driveway No. 1. Halekou Road is an undivided two-way, two-lane City roadway running in an east-west direction. This road forms the western leg of a four-way unsignalized intersection with Kamehameha Highway and HMP's Driveway No. 2. Private, internal roads within HMP are used for visitors and daily cemetery operations. These private roads are owned and maintained by HMP.

284. Existing movements at the Kamehameha Highway and Mahinui Road/HMP Driveway 1 intersection operate at Level of Service (LOS) D or better during the weekday and weekend peak hours, with the exception of minor street movements that in some cases operate at LOS E during the weekday morning and afternoon peak periods. All movements at the intersection of Kamehameha Highway and Halekou Road/HMP Driveway 2 operate at LOS D or better with the exception of minor street movements that operate at LOS E/F during peak hours.

285. Vehicles making left-turns from the minor east-west approaches (HMP driveways and City roads) are able to use the space created by Kamehameha Highway's wide median to turn onto or off of the highway in two stages. During the weekday AM and PM peak traffic hour, both minor street left-turn movements onto Kamehameha Highway were executed during a gap in traffic which is suspected to occur when the upstream and downstream traffic signal minor movement phase is occurring. Significant queueing was not observed at either of the study intersections.

286. Generally, traffic within the HMP vicinity was lighter during the Saturday midday peak hour compared to weekday commuter peak hour traffic. Left-turn movements from minor streets were easier to execute as longer gaps were observed along Kamehameha Highway. No significant queuing was observed at the study intersections.

287. The project is forecast to generate approximately only 25, 27, and 71 additional trips (entering and exiting) during the weekday morning, afternoon, and Saturday peak hours, respectively. With the project, all study intersections would operate at a LOS similar to baseline (without project) conditions for Year 2040 given the project's relatively small traffic increase. While Kamehameha Highway's turning movements would operate with little delay, some of the minor movements would continue to experience LOS E or F during all peak hours of traffic.

288. The State Department of Transportation (DOT) concluded that the project is not anticipated to significantly impact State highways, and the project's percentage contribution of traffic to be about 2% of total future 2040 traffic, therefore, the Project's pro-rata share for a new traffic signal being considered for implementation by DOT at Kamehameha Highway and Halekou Road is negligible and not necessary.

289. The following measures would be implemented by the Petitioner:

 Restripe HMP's two westbound driveway approaches to Kamehameha Highway to provide better exiting traffic flow. Striping would delineate a shared left/through and separate right-turn lane to reflect current operating laneage. 2. Provide appropriate traffic control plans in the event certain cemetery activities cause traffic issues at access driveways.

6. <u>Parks and Recreational Facilities</u>

290. Existing public recreational facilities that include public parks and golf courses are in the general vicinity of the Petition Area. HMP was not designed nor established to support active or passive recreational use by the public. However, over the years, residents have been using HMP for passive recreation (walking, jogging, and dog walking) on HMP's internal roadways, typically during early morning and late afternoon hours. HMP continues to allow such passive recreational activities.

291. Within the Petition Area, there are no permitted passive recreational activities occurring. There have been instances of unauthorized activities (trespassing) occurring within the Petition Area, for activities such as paintball and hiking. In particular, hiking groups continue to travel into the Petition Area and other parts of HMP's property while undertaking the Oneawa Ridge hike. This has led to concerns for HMP regarding safety, liability, and potential endangerment of cultural areas. Although some hiking groups have received authorization from HMP to hike into their property, many groups have not obtained authorization and are considered trespassers by HMP.

292. The project would not have any long-term impact on existing recreational facilities in the general vicinity of HMP. Project implementation would not generate increased demand for use of recreational facilities in the surrounding area. A fence would be installed around much of the Petition Area, which would allow HMP improved capacity to manage access into the area and prevent unauthorized recreational activities from continuing. Passive recreational activities (walking, jogging, and dog walking) would continue to be allowed within

the cemetery expansion area similar to existing portions of HMP. Passive recreational activities would not be allowed in the Cultural Preserve or undeveloped portions of the Petition Area surrounding the cemetery expansion area.

293. Short-term construction of the project should not significantly impact surrounding recreational facilities or activities occurring there. Furthermore, the contractor implementing these improvements would comply with State DOH regulations and related permit conditions, reducing the likelihood and severity of such nuisances on recreational activities.

7. <u>Medical</u>

294. Adventist Health Castle (AHCS) is the primary medical facility serving Windward O'ahu and is located in Kailua on the southwest corner of the Kalaniana'ole Highway and Kailua Road intersection. Comparatively smaller, private medical centers in the vicinity of HMP are located closer to the Kāne'ohe town center. The Kaiser Permanente Ko'olau Medical Office is located along Kamehameha Highway about 0.7 miles north of HMP.

8. <u>Educational Facilities</u>

295. Schools within the general vicinity of HMP and the Petition Area are Kāne'ohe Elementary School, James B. Castle (Castle) High School, and Hawai'i Pacific University's Hawai'i Loa campus. Kāne'ohe Elementary School is located about 250 feet north of the northern end of HMP along Mokulele Drive. This school is separated from the cemetery by a residential subdivision. Castle High School, is located about a half mile north of the Petition Area along Kāne'ohe Bay Drive. Castle High School is generally separated from the Petition Area by a residential neighborhood comprised predominantly of single-family homes. Hawai'i Pacific University's Hawai'i Loa campus is located about 1.5 miles southeast of HMP and the

Petition Area. This 135-acre private university provides on-campus housing with full academic year accommodations.

296. The project does not include new residential units that would increase Kāne'ohe's resident population and subsequent demand on educational facilities and instructional staff at nearby schools. Cemetery activities would mainly consist of families visiting burial plots and private funeral services held that would not impact educational facilities. Activities occurring at the Cultural Preserve consist of cultural landscape restoration and cultural practices that would not disrupt or impact existing school facilities.

297. Activities associated with short-term construction of site improvements and associated facilities may generate some short-term construction noise from equipment. Fugitive dust emissions would also be generated from these activities. Construction related impacts should not impact educational facilities in the surrounding area given their distance from the Petition Area. The contractor may obtain a construction noise permit that includes restrictions to help mitigate potential short-term noise impacts.

9. <u>Police and Fire Protection</u>

298. The HMP and Petition Area fall within the Honolulu Police Department (HPD) District 4 operations bureau. The district is divided into four sectors, with Kāne'ohe designated as Sector 3. The main District 4 station is located in Kāne'ohe and is about 1.5 miles north of the Petition Area.

299. The City HFD has two fire stations in the Kāne'ohe area. The fire station located closest to the Petition Area is Station 17, located in the Kāne'ohe town center, approximately three miles north of HMP. Station 17 serves as the headquarters of Battalion 3 and is equipped with an engine company and ladder company. The City's Emergency Medical Services (EMS)

responds to requests for ambulance assistance. City EMS service is comprised of 20 ambulances providing medical coverage for all of O'ahu. The Petition Area falls within District 2 that encompasses East O'ahu.

300. No long-term impacts to HPD, HFD, and EMS services are anticipated from the project because it would not increase residential housing or visitor units and therefore not place increased demand on police, fire, or EMS services. Cemetery expansion consists primarily of landscaped grounds that would not create increased fire risk. Access roads proposed within the cemetery expansion area would facilitate access for emergency support vehicles, if necessary. The following measures would be included as part of the design process.

- Dimensioning requirements (width and vertical clearance) for City fire access would be incorporated into the design, as applicable.
- 2. Design plans would be coordinated with the Honolulu Fire Department for review, as appropriate.

10. <u>Utilities</u>

301. Electrical service is provided to HMP by the Hawaiian Electric Company (HECO) via overhead subtransmission lines located on utility poles. These utility poles are routed along roadways in the vicinity of the Petition Area. Primary subtransmission lines in the area provide between 4,000 and 12,000 volts of power (4 to 12kV). Subtransmission lines servicing HMP are routed along Kamehameha Highway along HMP's southern boundary. Underground distribution lines connected to this network provide power to HMP facilities. The Petition Area is undeveloped and is not serviced by existing power or communications facilities.

302. Telephone and cable service are provided to HMP facilities by Hawaiian Telcom and Spectrum, respectively. These services are provided from overhead lines typically routed on utility poles shared with HECO utility lines. These overhead communication lines connect with applicable HMP facilities via lines routed through underground utility ducts.

11. <u>Sustainability</u>

303. The project aligns with this guideline as it achieves a balance between the need to develop additional burial space and the need to sustain Petition Area natural resources. A social benefit from project is providing additional burial space to address an anticipated burial space shortfall on O'ahu. Adverse environmental impacts from project implementation are avoided through mitigative measures incorporated into the project design and implemented during project construction. The project's potential impact to Petition Area natural resources was considered in the design of project improvements. Consideration of these resources resulted in the incorporation of measures to mitigative adverse impacts to these resources. Therefore, the project serves as an example of planning that respects the State's natural resources.

K. <u>Commitment of State Funds and Resources</u>

304. In respect to improvements to the Petition Area, State funds and resources are not included nor programmed at this time.

L. <u>State Land Use District</u>

305. The Petition Area is presently designated as state land use Conservation District. The Petition Area is within the General (76%) and Limited (24%) Subzones. The Limited Subzone area is associated with the upper slopes of the Oneawa hillside.

306. The proposed Project's request to be reclassified to the Urban District is consistent with HRS Section 205-2, where 205-2 provides that the Urban District shall provide uses provided by ordinances of the County and cemetery use is provided for in the City's zoning code.

M. <u>Conformance with Urban District Standards</u>

307. The proposed reclassification of the Petition Area is in general conformance to HAR section 15-15-18, standards for determining "U" Urban District Boundaries as follows:

<u>Criterion No. 1.</u> The Petition Area is surrounded by city-like urban land uses, services, activities, and infrastructure as discussed in Section 1.3 of the FEIS. Cemeteries comprise "other related land uses" that are only allowable within the Urban District, and HMP and Hawai'i State Veterans Cemetery are situated adjacent to the property and Petition Area. The Pikoiloa residential subdivision is situated immediately north of the Petition Area. The heavy industrial Kapa'a Quarry is located east southeast of the property. There are existing roadways and highway facilities serving these cemeteries and surrounding uses, utilities (e.g. water lines), and several other urban services in the nearby Kāne'ohe area (e.g. schools, Pohai Nani retirement home, commercial and retail). Therefore, the project reflects a reasonable extension of city-like urban related uses. Furthermore, the City's *Ko'olau Poko Sustainable Community Plan* designates this Petition Area for urban expansion intended for cemetery use within the plan's Community Growth Boundary.

<u>Criterion No. 2.</u> Cemetery expansion improvements and the establishment of the Cultural Preserve would not increase the population of the Kāne'ohe area or lead to additional undesirable_stress on centers of trading and employment as well as basic services. The first factor under this standard is intended to evaluate whether areas proposed for the Urban District are proximate to infrastructure, public facilities and services, and centers of trading and employment. As discussed under Criterion No. 1 above, there are existing centers of trading, employment, and urban-related activities in the surrounding vicinity of the Petition Area. The Petition Area is adjacent to established residential neighborhoods and cemetery uses. Additionally, employment

opportunities are readily accessible in Kāne'ohe and public facilities, services, and utilities are already in existence in the area.

There is significant existing infrastructure facilities and services provided in the immediate vicinity as discussed in Chapter 5 of the FEIS. Circulation networks already provide convenient and reasonable access and services to HMP and other surrounding land uses (e.g. Kamehameha Highway, H-3 Freeway). There is water service already provided to HMP, and the City BWS indicated there is available capacity to serve the cemetery expansion area. The cemetery expansion and Cultural Preserve would not require additional wastewater infrastructure or contribute increased flows to the existing wastewater system in the area. Additional solid waste generated by increased flowers used for gravesite visits would continue to be processed as already managed by HMP. The project would have a beneficial effect on the City's existing drainage system serving the Pikoiloa subdivision by decreasing storm water runoff rates and volumes, detaining runoff, and improving water quality within Kāwā Stream.

Overall, the cemetery expansion would have minimal long-term effect on public facilities. The cemetery expansion would be designed to provide appropriate access to the area for fire protection and emergency vehicles, and additional gravesite visits are expected to have minimal effect on their ability to provide protection services. Therefore, the expansion of the Urban District for this project is reasonable and beneficial given consideration of existing infrastructure facilities along with public facilities and services provided in the surrounding area. Finally, the project area is designated for urban expansion by the City's *Ko 'olau Poko Sustainable Community Plan*.

<u>Criterion No. 3.</u> The Petition Area includes lands with reasonably satisfactory topography, would improve existing drainage conditions, is free from natural hazards and

unstable soil conditions, and would not have adverse environmental effects that cannot be minimized or mitigated. The overall Petition Area has reasonably satisfactory topography to implement the cemetery improvements proposed with only a few areas having steeper slopes being affected.

Grading improvements would make the Petition Area suitable for inclusion cemetery expansion and visitation access within the Urban District having slopes no greater than 20% suitable for pedestrian access.

The Petition Area is not in an identified flood hazard area or tsunami inundation zone. The geotechnical study assessed rockfall and debris flow risk within the Petition Area. The study did not identify evidence of prior debris flow or landslide activity within the Petition Area characteristic of unstable soil conditions. While areas of the Petition Area are subject to rockfall hazard, preliminary design measures were identified to mitigate this risk. Such measures (e.g. rockfall catchment ditch) should provide a high level of safety against rockfall hazards. Landscaped grass areas created for the cemetery would be a significant improvement removing existing vegetation litter debris and exposed soil and gravel/cobble talus from the site. The modified topography would reduce steeper upper slopes and create a gentler topography that would eliminate potential landslide hazards. Therefore, the Petition Area is reasonably free from natural hazards, and proposed plans would improve site conditions further reducing possible effects.

<u>Criterion No. 4.</u> The Petition Area is located contiguous to urban areas on its northern and western boundaries. The Petition Area abuts the existing Ocean View Garden cemetery on its western boundary. Residential developments within the Pikoiloa subdivision are

located adjacent to the Petition Area's northern boundary. Both the Ocean View Garden and Pikoiloa subdivision are within the Urban District.

<u>Criterion No. 5.</u> The "Community Growth Boundary" defines and contains the extent of urbanized or "built" portions of the Sustainable Communities Plan area, and is intended to ensure an adequate supply of land is provided to support Ko'olaupoko's established suburban and rural communities while protecting land outside the boundary for agricultural and open space preservation. The growth boundary was revised to include the area associated with the Petition Area. Therefore, the Urban District designation is reasonable and appropriate to the Petition Area as it is located within the designated growth boundary.

<u>Criterion No. 6.</u> The Petition Area conforms to Urban District standards under Criterion's 1 and 5.

<u>Criterion No. 7.</u> The Petition Area is contiguous to existing Urban District areas and designated for future urban expansion under the City's *Ko'olau Poko Sustainable Communities Plan's* Community Growth Boundary. Reclassification of the Petition Area to the Urban District will not lead to scattered urban development given its proximity to existing urban uses. The project would not require additional investment in public infrastructure or services.

<u>Criterion No. 8.</u> The Petition Area is desirable and suitable for urban purposes due to its location and site conditions for cemetery expansion supporting HMP. The project description justified the need for such an expansion and identified other stewardship and management components supporting the wise and reasonable use of this area (e.g. Cultural Preserve and conservation easement). Furthermore, the City's *Ko* 'olau Poko Sustainable *Communities Plan* designates this Petition Area for urban expansion intended for cemetery use.

Existing topographic conditions within the Petition Area vary and exceed 20% slopes in some areas. Slope conditions within the cemetery expansion area range from 25% to 30% in the eastern basin area to 90% at the hillside adjacent to Ocean View Garden. Project implementation would grade lands within the cemetery expansion area to slopes no greater than 20% to ensure the area is suitable for pedestrians.

The project would improve the Petition Area's current drainage conditions by decreasing area slopes, improving site permeability with turf grass landscaping, and detaining runoff and sediment with construction of retention/detention basins. The project would improve stormwater management by designing site improvements for the 100-year storm, instead of the required 10-year storm event. The design phase would develop construction plans that would be reviewed and approved by jurisdictional government agencies. These plans would include BMPs and other measures to minimize and mitigate short-term construction-related effects.

Topographic conditions would remain similar to existing conditions <u>with</u>in the Cultural Preserve. Slopes within this portion of the Petition Area vary significantly as one travels from lower to higher elevations and exceed 20% in many areas. The Cultural Preserve would not be open to the general public. Measures to ensure the health, safety, and welfare of the individuals authorized to access the Cultural Preserve will be determined by the preparation of a preservation plan.

N. <u>Conformance with The Goals, Objectives, and Policies of The Hawai'i State Plan</u>

308. Chapter 226, HRS, also known as the Hawai'i State Plan, is a long-range comprehensive plan which serves as a guide for the future long-term development of the State by identifying goals, objectives, policies, and priorities, as well as implementation mechanisms. State objectives and policies relevant to the proposed Project are discussed.

Section 226-3: Overall Theme. The project is consistent with the State Plan's guiding principles and values. These principles and values concern individual and family self-sufficiency; social and economic mobility; and community or social well-being. The project aids O'ahu families by providing options regarding the type of disposition and remembrance of deceased loved ones. The project provides additional burial space in anticipation of a shortfall in available space on O'ahu due to the growing and aging population coupled with limited number of cemetery spaces. If this shortfall occurs, O'ahu families interested in burying deceased loved ones at HMP or locally on O'ahu may be unable to do so or have to pay higher costs due to the shortage. Therefore, the project allows O'ahu families improved capacity to pursue and achieve their burial and remembrance related interests. Having additional burial space supports the State Plan principle primarily related to social self-sufficiency and fulfillment because it addresses an important community function that most families don't typically prepare for.

Burial and remembrance customs are important social practices. Provision of additional burial space expands burial options on O'ahu, improving the capacity of O'ahu families to achieve fulfilment of burial and remembrance related social practices. Social well-being on Oahu is enhanced as the provision of additional burial space enhances the physical environment by providing O'ahu residents greater capacity and options to engage in burial and remembrance activities. The project further enhances social well-being by developing burial space near an existing cemetery, providing social benefits for families wishing to be interred near deceased relatives already interred at HMP.

Section 226-4: State Goals. Project improvements will inevitably alter the character of the Petition Area's physical environment. However, it would not be in a manner that adversely

impacts the well-being of O'ahu residents. The project will maintain and enhance the stability of Petition Area natural systems through mitigative measures incorporated into the project design.

Retention/detention basins will improve off site stormwater drainage conditions by detaining runoff and allowing water to infiltrate before eventually being discharged. Reducing the steep slopes of the hillside would improve storm water runoff by reducing volumes and velocity. The cemetery's grassed landscape would improve infiltration and slow runoff, reduce erosion and sediment transport, and enhance the water quality of downstream water resources and the stability of associated natural processes. This would ensure O'ahu residents utilizing these water resources of Kāne'ohe Bay are not physically negatively affected, and existing residences along Kāwā Stream are not significantly impacted due to improve drainage conditions upstream within the Petition Area.

Changing the existing alien forest dominated by introduced plant species to turf grass for burial plots would not have an adverse effect on botanical resources. The cemetery provides a significant community benefit, reflects a clean environment (lawn), involves a passive use that is relatively quiet in activities, and provides a well-managed area that is compatible with the surrounding environment and adjacent cemeteries.

The project will positively improve life in our community and enhance the social wellbeing of O'ahu residents by providing needed cemetery space in anticipation of a burial plot deficit due to a growing and aging population. Social well-being will be enhanced as provision of this space provides O'ahu residents greater flexibility and options to engage in their chosen burial disposition of family members, support the heritage factor that is important to families, and memorialization remembrance activities.

Allowing the Koʻolaupoko Hawaiian Civic Club, or other local Native Hawaiian Organization, to manage and steward the Cultural Preserve supports native Hawaiian cultural practices, nourishes participation and activities within the Hawaiian community and their cultural values and enhances participation in caring for such resources. Although this property is privately-owned, other cultural organizations, cultural practitioners, and interested persons may participate in cultural practices in coordination with the Koʻolaupoko Hawaiian Civic Club, all of which support management and stewardship activities.

Section 226-5: Objectives and Policies for Population. The project does not affect these objectives and policies.

Section 226-6: Objectives and Policies for the Economy. Acceptable working conditions and standards will be maintained for workers employed in the construction and longterm operation and maintenance of the cemetery expansion area. Affirmative action and nondiscrimination measures will be complied with in the hiring process for workers employed in the construction and long-term operation and maintenance of the cemetery expansion area. The construction and long-term operation of cemetery expansion improvements is expected to result in direct and indirect positive impacts to O'ahu's economy.

Intangible resources associated with the Petition Area, such as scenic views, would not be significantly impacted by the project. The Petition Area is one of multiple elements comprising the scenic beauty of associated views. Although the Petition Area would change visually due to grading and turf grass landscaping of the area, the overall scenic beauty and character of important public viewing corridors along major highways, viewsheds and landforms, and scenic public views would remain relatively unchanged as the existing open space character of this area would remain apparent.

The landscaped and open space character of the expanded cemetery would complement the existing HMP and Hawai'i State Veterans Cemetery already present within the backdrop of the larger Oneawa hillside. Within the larger viewshed, the landscaped open space view and character of the expanded cemetery is similar to several other existing surrounding uses, such as the Pali Golf Course and Ko'olau Golf Club. The Petition Area would not be visible at several public viewing sites along roadways. Existing dense vegetation and tall trees, particularly within the State Veterans Cemetery's property along the hillside, would screen views of the expanded cemetery particularly from upland areas looking toward Kāne'ohe Bay.

<u>Section 226-7: Objectives and Policies for the Economy-Agriculture</u>. Contemporary soil data indicates the majority of the Petition Area has low utility for agricultural production. This area is not identified as important agricultural lands and is not zoned for allowing commercial agricultural production. Cemetery expansion in the Petition Area would therefore not result in the loss of agriculturally suitable lands.

<u>Section 226-11: Objectives and Policies for the Physical Environment (Land, Shoreline,</u> <u>Marine)</u>. The project is a prudent use of land-based resources based upon an important community need and will not impact shoreline and marine resources associated with the Kāwā watershed. Prudent use refers to acting with care and thought for the future, and the project includes several measures reflecting such prudent use. This includes creating a Cultural Preserve, establishing a conservation easement, implementing drainage improvements that would improve current storm water conditions, and protecting the endangered damselfly and associated habitat. Impacts to land-based resources, including the endangered Blackline Hawaiian Damselfly, would not occur as appropriate minimization measures will be implemented.

Unique environmental resources identified within the Petition Area will not be impacted by the project. The site consists of an existing alien forest dominated by introduced plant species. Resources include endemic 'Ōhi'a Lehua growing within the cemetery expansion area. Seeds or cuttings from extant plants could be collected and used in replanting efforts in the cemetery expansion area or the Cultural Preserve to ensure the long-term presence of this endemic plant species.

Unique historic sites are being preserved within the Cultural Preserve, and the seep area is being preserved to support the endangered damselfly. Mitigative measures are proposed for topographic changes to the hillside reducing its height and steepness. Plans would improve current storm water runoff and potential flooding conditions as a result of reduced runoff velocity and volume, increased infiltration, and water quality through detention basins.

Natural resources associated with the Petition Area were considered in the project design to ensure these resources are not impacted. The project includes the prudent use of this site and resources reflecting actions proposed with care and thought for the future. This includes creating a Cultural Preserve supporting the management and stewardship of the area and historic sites and establishing a conservation easement to ensure the preservation and stewardship of remaining areas of the larger property.

<u>Section 226-12: Objectives and Policies for the Physical Environment (Scenic, Natural</u> <u>Beauty, Historic)</u>. The project was designed in consideration of significant natural and historic resources in the Petition Area. Culturally significant plant species disturbed by grading activities could be used to landscape the proposed Cultural Preserve, ensuring the continued presence of these species and accessibility by cultural practitioners. The preservation plan associated with the Cultural Preserve would guide the preservation and restoration of archaeological resources found within Preserve boundaries. The Preserve would provide space for the civic club, other organizations, and cultural practitioners to conduct cultural practices as well as potential educational programs under the management of the Koʻolaupoko Hawaiian Civic Club.

The project will not adversely impact the visual and aesthetic enjoyment of scenic views or important viewing locations associated with the Petition Area. The landscaped and open space character of the expanded cemetery would complement the existing HMP and Hawai'i State Veterans Cemetery within the backdrop of the larger Oneawa hillside. Additionally, existing dense vegetation and tall trees would be maintained, particularly along the hillside of the Hawai'i State Veterans Cemetery, which would screen of views of the expanded cemetery area.

<u>Section 226-13: Objectives and Policies for the Physical Environment (Land, Air, Water</u> <u>Quality</u>). Natural resources would not be adversely impacted with some resources improved through project implementation. During construction, a dust control plan with mitigation measures would be prepared. Grading and site improvements would improve site drainage conditions and water quality by decreasing slopes, reducing the runoff velocity (grass landscaping), decreasing runoff volumes, and increasing percolation. Retention/detention basins would allow temporary on-site retention of stormwater allowing pollutants and debris time to settle and improving the quality of stormwater runoff.

<u>Section 226-14: Objectives and Policies for the Facility Systems (General)</u>. The project is consistent with applicable State and City plans and this consistency is discussed throughout Section 6.1.2 of the FEIS, which includes the City's *Ko 'olaupoko Sustainable Communities Plan.*

<u>Section 226-15: Objectives and Policies for the Facility Systems (Solid and Liquid</u> <u>Wastes)</u>. Public health and sanitation standards would be complied with during disposal of solid waste produced during project construction. These standards would also be complied with for the disposal of landscaping and cemetery maintenance greenwaste via onsite composting.

Section 226-16: Objectives and Policies for the Facility Systems (Water). Consultation with the City BWS indicated existing municipal water facilities can accommodate the project. Additional water demand would be related to irrigation during low rainfall periods as no facilities (i.e. restrooms) requiring water for domestic purposes would be developed.

Section 226-20: Objectives and Policies for Socio-Cultural Advancement. The project would not result in environmental conditions that impact the health of surrounding residents. A dust control plan with associated mitigation measures would be prepared if necessary. Concrete outer burial containers would continue to be required and mitigate risk of seepage containing pathogens and formaldehyde into nearby environmental resources.]

Section 226-23: Objectives and Policies for Socio-Cultural Advancement - Leisure. The Cultural Preserve will foster the preservation of native Hawaiian cultural practices and needs of cultural practitioners that are important elements of Hawai'i's multi-cultural heritage. Cultural practices include traditional native Hawaiian burials that would be allowed with approval by HMP and documentation by the State DOH. Burials would follow the "clean burial" process approved under State law enacted in 2015. Landscaping of the Preserve with culturally significant native Hawaiian vegetation would assure that these resources continue to be available and accessible to cultural practitioners.

<u>Section 226-25: Objectives and Policies for Socio-Cultural Advancement - Culture</u>. The stewardship of historic sites in the Cultural Preserve would increase the knowledge of Hawai'i's cultural heritage and perpetuation of traditional and customary practices. The preservation plan guiding management and operation of the Cultural Preserve may allow for culturally oriented

educational programs in the Preserve. Such programs would further support this policy by fostering increased knowledge and understanding of native Hawaiian cultural practices and history. Cultural activities include traditional native Hawaiian burial practices. Landscaping with plants of native Hawaiian cultural significance would ensure these are accessible for native Hawaiian cultural practices.

<u>Section 226-104: Population Growth and Land Resources; (b) Guidelines for Regional</u> <u>Growth</u>. (1) This project would be developed near existing urban areas where public facilities are already located. Visitors can access the expanded cemetery area using existing transportation facilities, creating efficiencies because roadways development is not needed. Furthermore, the project site is consistent with the City's sustainable communities plan that designates this project area for urban expansion within the Community Growth Boundary.

In addition to the Pikoiloa neighborhood, the Petition Area is also adjacent to other urban areas consisting of the present HMP and Hawai'i Veterans Cemetery. It should be noted that the HC&D Kapa'a Quarry providing aggregates and concrete mix is located on the other side of the Oneawa hillside. Other public facilities, such as water lines, are available and already serve HMP and the Hawai'i Veterans Cemetery. No public expenditures would be required for infrastructure facilities.

(2) The Petition Area has low utility for agricultural production as indicated by contemporary soil data. Project implementation supports this guideline as cemetery expansion in this area will occur on non-essential agricultural land. The Petition Area does not include lands of importance under the State's Agricultural Lands of Importance to the State of Hawai'i classification system. (3) The project would not significantly impact the Ko'olaupoko aquifer system's sustainable yield of 30 mgd. Water usage would be associated with irrigation and is expected to be minimal given Kāne'ohe's wet climate. Therefore, project water use is expected to minimally change total existing water usage, which is well below the aquifer's sustainable yield.

(9) Cemetery expansion improvements are not proposed for critical environmental areas. The Petition Area consists of an alien forest dominated by introduced plant species. No federally delineated Critical Habitat is present on or adjacent to the Petition Area. Habitat for the endangered blackline Hawaiian damselfly would be preserved. The cemetery expansion design incorporates measures to prevent or minimize negative impacts on the surrounding environment.

(10) The project would be consistent with this guideline that specifies identifying critical environmental areas in Hawai'i. There are no designated critical habitat or other critical environmental areas within the Petition Area. Habitat for endangered Blackline Hawaiian Damselfly would be preserved and minimization measures included to ensure water flow to the seep continues and does not adversely impact the damselfly. The Petition Area does not serve as nesting or foraging habitat for the Pueo. The Petition Area is not unique or a critical environmental area for the hoary bat, but standard minimization measures would be implemented during the during bat birthing and rearing season. The project would improve the water quality of Kāwā Stream and existing drainage conditions serving this watershed. The cemetery expansion would improve stormwater infiltration and detain storm water runoff improving recharge areas and natural filtering.

(12) The project would not adversely impact the environment and resources associated with the Petition Area due to mitigation measures proposed. These measures include retention/detention basins that ensure site stormwater runoff does not adversely impact the

quality of downstream water resources. Groundwater resources are not expected to be severely diminished by project irrigation needs as water demand is expected to be minimal given Kāne'ohe's wet climate. In this manner, the project utilizes Hawai'i's limited land resources wisely by ensuring project development does not impact the quality or availability of the state's natural resources.

(13) The project would not adversely impact shoreline, open space, and scenic resource associated with the Petition Area. Although the Petition Area is located a significant distance from the shoreline, retention/detention basins proposed through project site improvements would ensure site stormwater flow does not impact the quality of associated water resources that flow to shoreline areas. The project is not expected to adversely impact scenic views of the Petition Area as the open space visual character of the surrounding area would remain unchanged.

Section 226-108: Sustainability. The project aligns with this guideline as it achieves a balance between the need to develop additional burial space and the need to sustain Petition Area natural resources. A social benefit from project is providing additional burial space to address an anticipated burial space shortfall on O'ahu. Adverse environmental impacts from project design and implementation are avoided through mitigative measures incorporated into the project design and implemented during project construction. The project's potential impact to Petition Area natural resources was considered in the design of project improvements. Consideration of these resources resulted in the incorporation of measures to mitigate adverse impacts to these resources. Therefore, the project serves as an example of planning that respects the State's natural resources.

<u>Section 226-109: Climate Change</u>. Sea level rise was considered in the project's environmental review. All trees greater than 6" diameter that are removed during construction

will be replaced on a one-for-one basis by planting of a new tree. Extreme variation in precipitation rates are expected to result from climate change, with increased likelihood of drought and heavy rains anticipated. Drainage improvements providing better regulation of site runoff would alleviate impacts from heavy rains that could result in flash flooding, increased runoff, and greater sedimentation.

O. <u>Relationship with Applicable Priority Guidelines and Functional Plans</u>

309. The State Functional Plans define actions for implementation of the Hawai'i State Plan through the identification of needs, problems and issues, and recommendations on policies and priority actions which address the identified areas of concern. The proposed reclassification request is consistent with the following State Functional Plans.

Conservation Lands: Issue Area II: Management; Objective IIB. The presence of the Blackline Hawaiian Damselfly and the utility of the seep as habitat for this species was considered in the design of cemetery expansion improvements. Related studies, including hydrological analysis of Petition Area groundwater resources, determined the project would not impact this habitat. Minimization measures are proposed as part of the project's design to ensure continued conveyance of groundwater to the seep that would preserve and protect this habitat. Fencing would be constructed around the seep to ensure feral pigs and humans do not adversely impact this damselfly habitat. Regular monitoring of the seep would also occur to ensure water remains present and non-native predators are not found.

<u>Historic Preservation: Issue Area I: Preservation of Historic Sites; Objectives A, B, and</u> <u>C</u>. The project AIS documented previously unidentified historic sites within the Petition Area. The historic significance of these sites was assessed under State historic significance criteria with recommendations provided regarding site listing eligibility for the State register of historic places. The project aligns with the functional plan policy objective to expand the State's historic sites inventory program. The project proposes multiple recommendations to protect historic properties identified. The primary mechanism to protect these historic properties is the establishment of the Cultural Preserve. This area will allow in situ preservation of significant historic sites identified, such as Kawa'ewa'e Heiau.

Maintenance of these sites would be guided by a preservation plan that discusses best treatment strategies to protect these historic properties. The preservation plan would also discuss guidance on the management, operation, and maintenance of the Preserve. Cultural landscape restoration work is an important component and would involve replacement of non-native and invasive vegetation with native plants. Enhancement of the cultural character of the surrounding landscape would also enhance historic properties present as all features collectively contribute to the cultural character of the landscape. The collective benefit gained from restoration of the cultural landscape could be considered an innovative method of managing extant historic properties.

<u>Recreation: Issue Area II: Mauka, Urban, and Other Recreational Opportunities;</u> <u>Objective II-A</u>. Establishment of the Cultural Preserve would provide land area where native Hawaiian natural and historic resources in the Petition Area can be preserved. These natural resources include culturally significant plants, such as the Laua'e fern. Establishment of culturally significant plants would ensure their continued presence. Significant historic sites also featured in the Preserve would ensure they are protected. Interpretive programs would be developed for this area through coordination between the stewarding organization and the community.

P. <u>Conformance with Coastal Zone Management Program</u>

310. The Project is consistent with the applicable objectives of the Coastal Zone Management ("CZM") Program. All objectives and policies of the State CZM were reviewed to assess their relevance to the proposed project. Some objectives and policies are more pertinent to agency actions or responsibilities (i.e. §205A-2(b)(7) Managing Development), or address areas unrelated to the project (i.e. §205A-2(b)(6) Coastal Hazards). The other following objectives of the State CZM were determined to be inapplicable to the project: recreational resources, economic uses, public participation, and marine resources.

<u>Historic Resources</u>. The location of significant historic sites was considered in the project's design. These historic sites were analyzed in the project AIS. The proposed Cultural Preserve is intended to protect, preserve, and restore historic sites identified within the Petition Area. Preserve boundaries were designed so they encompass the most significant historic sites, such as Kawa'ewa'e Heiau. Preservation of these significant historic sites will maximize site information retention potential. The Preserve will be guided by a preservation plan to steward and maintain resources in the Preserve area. The Cultural Preserve and associated preservation efforts would facilitate restoration of historic sites and the surrounding landscape. In this manner, the project supports the protection and restoration goals of this objective.

<u>Scenic and Open Space Resources</u>. Project impacts on views oriented toward the shoreline where the Petition Area is visible were assessed. Although the visual character of the Petition Area would change due to cemetery expansion improvements, the Petition Area is one of many components contributing to the overall character of these views. Therefore, changes to the Petition Area's visual character would not significantly impact the quality of overall shoreline-oriented views. Cemetery expansion improvements were designed with consideration of the Petition Area's unique resources to ensure impacts to these resources were avoided. In this manner, the Petition Area was designed in alignment with the surrounding environment.

Coastal Ecosystems. The project incorporates water quality management practices sensitive to associated freshwater and marine ecosystems. These ecosystems are located downslope and a considerable distance away from the Petition Area and would not be impacted by the project. The project impact on the water quality of associated water resources was assessed as part of analysis of the affected watershed. These water resources eventually flow into coastal water bodies and ecosystems. This assessment documented that sediment reaching Kāwā stream would decrease after construction of cemetery improvements. Project design incorporated mitigative measures to avoid significant water quality impacts. These measures include retention/detention basins that serve as on-site stormwater management infrastructure. The basins function as nonpoint source water pollution control measures. Implementation of these measures and other drainage improvements would prevent the project from disrupting or impacting associated coastal ecosystems.

<u>Coastal Hazards</u>. Flood hazards were evaluated in the project's environmental review. The project's impact to site's flood hazard and residential areas downslope is expected to be minimal. Engineering analysis conducted for the project determined the project would reduce the volume of stormwater runoff draining offsite. This determination indicates flooding risk for coastal areas downslope from the project would decrease with the project's implementation.

<u>Beach Protection</u>. The Petition Area is located approximately one mile from the coastline of Kāne'ohe Bay, although there are no public beaches close to this bay. As a result, project improvements would not interfere with natural shoreline processes. Proposed drainage improvements such as retention/detention basins will mitigate water quality impacts on adjacent

water resources that could result from project implementation. These water resources would eventually flow into Kāne'ohe Bay.

Q. <u>Conformance with the Countywide Policy Plan</u>

311. The City's Development Plan (DP) & Sustainable Communities Plan (SCP) program provides a regional level framework to implement the City's *General Plan* objectives. The Petition Area is located within the *Ko'olau Poko Sustainable Communities Plan* (KPSCP) area. An updated KPSCP was adopted by the Honolulu City Council in August 2017 as Ordinance No. 17-42, Revised Ordinances of Honolulu (ROH). As a result of the update, the proposed project is consistent with the KPSCP.

312. Under Section 6-1509 of the City Charter, development plans (including SCPs) consist of "conceptual schemes" for implementing and accomplishing the development objectives and policies of the City's *General Plan*. Further, these plans are to describe the desired urban character and the significant natural, scenic and cultural resources for several parts of the city to a degree which is sufficient to serve as a "policy guide" for more detailed zoning maps and regulations.

313. Consistent with the City Charter, Ordinance 17-42 adopting the *Ko* 'olau Poko *SCP* states (Section 1) that the plan presents a "vision" for future development consisting of "policies, guidelines, and conceptual schemes that will serve as a policy guide" for public and private sector investment decisions. The KPSCP sets forth regional land use policies and guidelines, and specifically indicates that the Petitioner's lands are proposed for cemetery expansion.

314. The existing HMP site and Veterans Cemetery are designated as "Preservation Areas" by the KPSCP's Land Use Map and are within the "Community Growth Boundary."

The Community Growth Boundary (CGB) is intended to define and contain the extent of developed or "built" areas of the SCP area's urban fringe and rural communities. Its purpose is to provide an adequate supply of land to support the region's established suburban and rural communities while protecting lands outside the boundary for agricultural and open space preservation values.

315. This CGB was revised as part of the 2017 update of the KPSCP, to include the proposed HMP cemetery expansion. [Pet. Ex. 6, p. 6-58] Figure 6.3 from the FEIS shows a section of the Land Use Map applicable to this project (Map A-2, Land Use). These maps are general and conceptual, and are not intended to be used to determine specific land use boundaries. The maps are considered illustrations of policies.

316. The boundary description states that it encompasses "most of Hawaiian Memorial Park, the proposed expansion of the Hawaiian Memorial Park, the proposed Kawa'ewa'e Heiau cultural preserve, and the Hawai'i State Veterans Cemetery before heading northeast to Kokokahi. The extension of the CGB in this area is solely limited to 28.2 acres for the expansion of the active cemetery area, and 14.5 acres for the proposed Kawa'ewa'e Heiau cultural preserve, and should not be construed to be suitable for any other urban-type development on the old 156-acre Pikoiloa Tract." Therefore, the Petition Area for the proposed cemetery expansion of HMP is included within the SCP's CGB and is consistent with this plan by reflecting the extent of this future developed area.

317. The KPSCP requires a 2,000-foot buffer from the Pohai Nani senior living community and a buffer of 150 feet from nearby residential property lines. [Pet. Ex. 6, Appendix A-2, DPP letter] In addition, the KPSCP has a condition about limitations of above-

ground structures to markers of modest size and necessary support structures and that gazebos for the cemetery expansion are not in keeping with that provision.

R. <u>City and County Zoning</u>

318. Permitted land uses and activities are prescribed under Chapter 21 Land Use Ordinance (LUO) of the City's Revised Ordinances of Honolulu, as amended (City and County of Honolulu 1990). The Petition Area is currently within the City's P-1, Restricted Preservation District that corresponds to the State's Conservation District designation. Upon reclassification to the Urban District, allowable uses, structures, and development standards would be governed by the P-2, General Preservation District regulations. The cemetery expansion project would be a permitted use within the Petition Area.

319. <u>Permitted Uses</u>. Under the LUO's Table 21-3, Master Use Table, "cemeteries and columbaria" are permitted within the P-2 zoning district. Cemeteries and columbaria are defined as "interment facilities engaged in subdividing property into cemetery lots and offering burial plots or air space for sale. Included are cemetery lots, mausoleums and columbaria. The following are permitted as accessory uses: crematory operations, cemetery real estate operations, mortuary services, floral and monument sales, and detached one-family dwellings to be occupied only by caretakers of the cemetery."

320. Uses associated with the project meet the LUO definition of cemeteries and columbaria. These uses include burial spaces and small, private structures such as monuments and garden walls associated with burial spaces. The Cultural Preserve will function as a location where native Hawaiian cultural practitioners can inter deceased individuals in a traditional manner. Cultural practitioners choosing to inter deceased individuals in a traditional manner must apply for the appropriate disposition permit with the State DOH, and record the burials with

HMP once the interment is authorized by the Ko`olaupoko Hawaiian Civic Club. Allowance of traditional burials and the offering of burial space within the Cultural Preserve would define the Preserve as a cemetery under the LUO. The Cultural Preserve would also be allowable within the P-2 district under this use.

S. <u>County Special Management Area</u>

321. The Special Management Area (SMA) Use Permit is part of a regulatory system that is the cornerstone of the Hawaii CZM program. The City and County of Honolulu's SMA permitting system is a management tool to assure that uses, activities, or operations on land within the SMA comply with the CZM objectives, policies, and guidelines. The Petition Area is not located within Honolulu's SMA.

T. Incremental Districting

322. Development of the Property will be substantially completed within ten (10) years after the date of the Commission's approval and, therefore, incremental districting does not apply to this Project.

U. <u>Petitioner's Representations</u>

The following are representations made by Petitioner's representatives and expert witnesses.

323. Hawaiian Memorial Park, Ltd. accepts all the recommendations made by the City and County Department of Planning and Permitting and the State Office of Planning.

324. Hawaiian Memorial Park, Ltd. will follow all the recommendations that its expert witnesses provided as part of their testimony.

325. Hawaiian Memorial Park, Ltd. will: (1) create the cultural preserve; (2) execute the conservation easement; (3) construct drainage improvements; and, (4) provide a protection plan for the blackline hawaiian damselfly.

326. The Expanded Cemetery will be covered by an endowment care fund.

327. Access to the Cultural Preserve will be through the main entrance of Hawaiian Memorial Park to allow cultural practitioners and Kumu Hula to continue their practice of gathering plants and care for the resources for cultural practices.

328. The Cultural Preserve will also allow for traditional cultural practices, including burial practices in the Preserve.

329. Management of the Cultural Preserve by the Koʻolaupoko Hawaiian Civic Club will address issues relating to cultural practices, access, maintenance, education, and the management of areas subject to rockfall.

330. The Conservation Easement would cover approximately 156.5 acres of land, and would include the Cemetery Expansion Area, the Cultural Preserve, as well as 114.5 additional acres of Hawaiian Memorial Park's parcel.

331. Hawaiian Memorial Park, Ltd. will prepare a detailed detention basin analysis using appropriate computer modeling software to determine the size of the detention basins to be constructed immediately upstream of each of the existing drainage inlets that will receive runoff from the Project. The inflow will be calculated based on at least a 10-year 24-hour rainfall event, and the basins shall be designed so that the outflow from each basin will be limited to the capacity of the existing downstream drainage improvements. The detention basin analysis shall be submitted to the DPP for approval. After the detention basin analysis is approved, the detention basins shall be constructed as soon as practical after the start of grading for the project. 332. Best management practices, or BMPs, will be used during construction to mitigate against runoff.

333. Hawaiian Memorial Park will install improvements to ensure the survival of the damselfly by installing a waterline to guarantee water flow into the seep, installing herringbone subsurface drains to aid in water flow, the building of fences to keep out wild pigs, placing small sticks at the water edge to help the young damselfly avoid predators, and monitoring to keep out invasive species, watch the water flow, and manage the area.

334. Hawaiian Memorial Park's parent company, Service Corporation International or SCI, will contribute the \$30 million in development costs.

335. SCI will guaranty the obligations of Hawaiian Memorial Park with respect to the boundary amendment.

336. No clean fill will be disposed of at the PVT landfill or any other construction and demolition landfill on O`ahu.

337. Petitioner accepted the following definition for clean fill. "Clean fill refers to construction, waste materials that can be reused or recycled in other construction projects. The term "clean" implies that the material is eco-friendly and free of any toxic substances that may adversely affect the health of humans and animals or contaminate the environment where they're disposed. Clean fill is generally comprised of topsoils, dirt, brick, gravel, rubble, including small rocks less than 12" in diameter, sand, cement and concrete.

338. Hawaiian Memorial Park, Ltd., will establish an ongoing construction-related community outreach program to inform area residents and businesses regarding milestones and activities occurring on the Property. Including, but not limited to, provision of a hotline and

robust communication plan for the neighbors to call and obtain response to impacts and concerns during construction.

339. Hawaiian Memorial Park, Ltd., further defined "clean fill" such that "fill materials is further defined as, quote, natural materials consisting of soil, clay, sand, volcanic cinder and ash, and rocks less than 12" in dameter or mixture combination of such materials which are not suspected to contain hazardous substances or concentration of chemical contaminants, of concern about State Department of Health, Tier 1, Environmental Action Levels."

340. The definition of "clean fill" is not negated because a boulder of approximately12 inches in diameter or less may be in the fill.

341. Hawaiian Memorial Park, Ltd. will ensure the protection of the endangered damselfly habitat with the mitigation measures that have been submitted by Dr. Montgomery and others on protecting the habitat. These include, but are not limited to, adding a 50 meter buffer area above the seep where there will be no grading, no trimming away of trees or similar activities; and, establishing an education and outreach program to raise awareness of the existence of the blackline damselfly and habitat area for neighbors and users of the Cultural Preserve in order to avoid and minimize impact.

342. The Conservation Easement will be held by a land trust accredited by the Land Trust Accreditation Commission.

343. Hawaiian Memorial Park, Ltd., will provide appropriate funding so that the Cultural Preserve can be appropriately managed.

344. Hawaiian Memorial Park, Ltd., will maintain the heiau area and the Cultural Preserve.

345. Hawaiian Memorial Park, Ltd. shall establish a Cultural Preserve with the Ko'olaupoko Hawaiian Civic Club in order to establish a preservation and management plan for the Cultural Preserve in perpetuity. Hawaiian Memorial Park, Ltd. shall pay for or otherwise assume financial responsibility for expenses associated with capital improvements within the Cultural Preserve required to fulfill the conditions set forth by the Commission and all ongoing maintenance of the Cultural Preserve. Hawaiian Memorial Park, Ltd. shall cover reasonable expenses incurred by the group associated with the management of the Cultural Preserve.

346. Hawaiian Memorial Park, Ltd. agrees to cover the liability of Koʻolaupoko Hawaiian Civic Club, if additional rockfall mitigation measures are required.

347. Hawaiian Memorial Park, Ltd. agrees to the sound mitigation conditions provided by Beiler's rebuttal testimony.

348. Hawaiian Memorial Park, Ltd. has no limitation of the measures it is willing to do to mitigate any future need for rockfall mitigation.

Petitioner's expert in engineering and drainage, Jami Hirota, testified that Petitioner was proposing:

349. "At the start of construction, erosion and sediment controls will be installed prior to the clearing and grubbing of the site."

350. "Fill slopes will be designed with a slope inclination of 2 to 1 ratio or flatter. Slope benches will be up to a maximum 30-foot vertical height intervals. Fills placed on slopes steeper than 5 to 1 ratio should be keyed and benched into the existing slope to provide stability of the new fill embankment against sliding." 351. "Subdrains will be installed in the base of the fills to drain accumulation of water that may occur at the toe. In general, the subdrains will follow the existing drainage paths on the site."

352. "In the area of the seep, a subsurface drainage system designed with a herringbone pattern is proposed to ensure that the natural movement of subsurface water through the poorly permeable residual soils in this area continues, thereby supporting the long-term health of the seep. Three subsurface drainage mainlines with smaller lateral subdrains will be constructed under the fill material, aligned approximately perpendicular to proposed retaining walls, and installed at depths to intercept and convey the flow of subsurface water to the existing shallow well and seep."

"General BMPs will typically include the following, however, more detailed and site specific BMPs will be developed during the project's design phase.

1. Measures before construction:

a. Existing ground cover will not be destroyed, removed or disturbed more than20 calendar days prior to start of construction.

b. Erosion and sediment control measures will be in place and functional before earthwork may begin, and will be maintained throughout the construction period.Temporary measures may be removed at the beginning of the work day, but shall be replaced at the end of the work day.

2. Measures during construction:

a. Clearing shall be held to the minimum necessary for grading, equipment operation, and site work.
b. Construction shall be sequenced to minimize the exposure time of cleared surface areas.

c. Areas of one phase, maximum of 5 acres in size, shall be stabilized before another phase can be initiated.

d. Slope management and protection is required for slopes exceeding 15 percent. e. Stabilization shall be accomplished by protecting areas of disturbed soils from rainfall and runoff by use of structural controls such as PVC sheets, geotextile filter fabric, berms or sediment basins, or vegetative controls such as grassing or hydromulch. In addition, buffer strips 10 feet wide, at the toe of all slopes, and upstream diversion of storm water are required.

f. All control measures shall be checked and repaired as necessary, e.g., weekly in dry periods and within 24 hours after any heavy rainfall event. During periods of prolonged rainfall, daily checking shall be conducted.

3. Measures during adverse weather conditions:

a. The contractor shall monitor weather reports daily while conducting work.
b. If an emergency weather warning is issued, work shall cease. All equipment and materials shall be secured against wind, rainfall and flooding, and the work area cleared of construction debris to the extent practicable. Work shall not resume until conditions improve and weather warnings are rescinded.
c. Prior to recommencement of work activities following an event, the Contractor shall inspect all BMPs, including silt fence, sandbag barriers, and stabilized construction entrance, to ensure that they are not damaged, and that all BM P's are properly installed and functioning.

d. Construction materials and debris that is dispersed due to wind or rainfall shall be collected by the Contractor and reused or disposed of in compliance with State and County regulations.

Sediment basins, in the form of depressions or excavated basins, will be used during construction to collect and detain runoff, allowing suspended soil particles to settle.

353. "The Petitioner will pay the water system facilities charges for resource development, transmission, and daily storage when water is made available. Construction drawings and the project construction schedule will be coordinated with BWS for review during the project design phase to minimize impacts to the City's water system."

Petitioner's expert in hydrology, Tom Nance, testified that Petitioner was proposing:

354. "To minimize this potential impact, a subsurface drainage system consisting of three subsurface drains in the area planned for fill activities above the seep is recommended. This would ensure the quantity and direction of groundwater flow is maintained. The drain system would be designed in a herringbone configuration. Three subsurface drainage mainlines would have smaller subdrains branching laterally from them. This drainage system should generally be aligned perpendicular to the retaining walls and installed at depths to intercept and convey the flow of groundwater to the well and seep. The possible alignment of this system is shown in Exhibit 3 attached to this testimony. Subsurface drains would likely be installed between 10 to 15 feet below the existing surface. The exact location, alignment, and depth of this drainage system would be determined after the drilling of additional boreholes as part of project design to develop project grading plans. It is also recommended to install a water level recording device in the dug well above the seep prior to construction. Its monitored levels during and following construction would be a good indicator of the effectiveness of the subsurface drainage system. If the subsurface groundwater flow is not sufficiently maintained by this system, the flow could be augmented by a water line extended from the project area to the well."

Petitioner's expert in geology, Robin M. Lim, testified that Petitioner was proposing:

355. "Rockfall Mitigation Measures

For the area above the Cultural Preserve, mitigation in the form of rockfall hazard warning signage is recommended. Signage would be posted at appropriate Preserve entry locations to alert permitted visitors to the potential for falling rock hazard in the mauka portion of the area. Additional protection measures are not needed since rockfall encroachment into the lower half of the site is not expected, and the Preserve would not be open to the general public, further reducing potential injury.

For the center of the cemetery expansion area, construction of an approximately 1,000linear foot concrete lined rockfall catchment ditch along the Petition Area boundary upslope of the cemetery expansion area is recommended to mitigate rockfall hazard. The proposed location of this catchment ditch is shown in Exhibit 1. A 5-foot deep "V" shaped catchment ditch was determined to effectively contain simulated falling rock, reducing rockfall encroachment potential to an acceptable level. A conceptual schematic of this catchment ditch is shown in Exhibit 2. Construction of the catchment ditch should provide a high level of safety against rockfall hazard in these conditions based on past application of similar mitigation methods." 356. "To mitigate the remaining debris flow risk, a surface drainage interception system is recommended. This system would consist of an interceptor ditch network with appropriate debris barriers and discharge outlets to reduce the potential for runoff encroachment along the upper boundary of the site. The catchment ditch recommended for rockfall hazards, also could function as this drainage interception structure."

357. "To reduce the potential for introduction of large quantities of organic debris from the adjacent forest area, installation of a chain link fence along and upslope of the catchment ditch is recommended to reduce the amount of debris that could accumulate in the ditch and potentially reduce rock catchment capacity. If possible, creation of a vegetation free clear zone of about 10 feet in width upslope from the ditch and encompassing the chain link fence "debris barrier" is recommended. The need for periodic ditch inspection and debris clearing may be needed to maintain rock catchment capacity."

Petitioner's expert in terrestrial invertebrates, Steven Montgomery, testified that Petitioner was proposing:

358. "According to recommendations from the project hydrologist and geotechnical engineer, subdrains would be installed within the cemetery expansion area above the well and seep to maintain the natural discharge of subsurface water from under the overlying soils.

The subsurface drainage system would be designed using a herringbone pattern that would increase and improve the amount of subsurface water collected to ensure continued flow to the well and seep. The herringbone system would be comprised of subsurface drainage main lines with smaller subdrains branching out laterally from the main lines. This drainage system would generally be aligned perpendicular to the retaining walls and installed at depths about 10 to 15 feet. The system would be designed to intercept and convey the flow of subsurface water to the well and seep. This design would minimize potential impedance of subsurface water flows due to potential compaction of soils from fill activities planned mauka of the well.

To further ensure continued water flow to the seep, a monitoring gauge or other appropriate device would be installed inside the well to monitor water levels. A permanent irrigation line extending from the proposed cemetery expansion area's irrigation system to the well would also be installed. This irrigation line would serve as a long-term means of ensuring continued water flows to the seep. If the gauge indicates water levels have declined to levels potentially affecting the seep, water from the irrigation line to the well could be provided to stabilize water levels.

Design measures would be incorporated into grading plans to minimize fill effects on the well and seep serving this aquatic and terrestrial damselfly habitat.

Grading improvements would not impact or alter the Damselfly seep habitat located in the northwest corner due to avoidance and proposed minimization measures. Since this damselfly habitat would be avoided, it would not be impacted by grading activities."

359. "A portion of the fenced habitat for the damselfly may potentially extend into the cemetery expansion area based upon preliminary grading plans. Thus, the final project design would include an accurate topographic survey that may result in the fence boundaries being refined. *** Refinement of preliminary habitat boundaries based upon more detailed and accurate topographic conditions would occur during project design to ensure cemetery expansion grading plans would avoid encroaching within the damselfly habitat boundary."

360. "Proposed Avoidance and Minimization Measures

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To minimize potential effects on the endangered damselfly, the following measures are proposed:

1. Schedule a regular inspection of the seep to ensure the present low trickle flow of water is continued through a monitoring plan during the project design phase. Inspection of the seep should be conducted before the start of construction to establish baseline water flow conditions. Monitoring would occur during construction with the seep area inspected on a weekly basis to evaluate water flow in coordination with BMP measures. Once construction concludes, monitoring would continue for an additional six months to ensure continued seep water flow. Inspections would occur weekly for the first three months and every two weeks thereafter if conditions are satisfactory. After the six month period elapses, HMP staff would conduct monthly water flow inspections.

2. A well monitoring gauge or other appropriate device would be installed inside the well located upslope from the seep to monitor water levels prior to, during, and after project construction. Once project earthmoving activities conclude, a permanent water line extending from the proposed cemetery expansion area's irrigation system to the well would be installed to serve as a long-term means of ensuring continued water flows to the seep. During construction, a temporary water line would also be extended to the well to support water levels, as is necessary.

3. Monitor as part of seep inspections to ensure fish, such as the Western Mosquito fish, are not present within this habitat area.

4. Review the habitat boundaries currently shown based upon more accurate data collected from a topographic survey during project final design, and revise habitat boundary as appropriate.

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5. Construct fencing around the damselfly habitat boundary to protect native damselfly from disturbance by feral pigs.

6. Place small sticks upright and away from the edges of waterlogged areas to serve as molting safe zones to prevent predation. These sticks would protect naiads because ants would not cross water barriers.

7. A subsurface drainage system designed in a herringbone pattern would be implemented in the fill area above the well and seep. This system would ensure water flow is maintained to the well and seep."

Petitioner's expert in environmental hydrogeology, Steven Spengler, testified that Petitioner was proposing:

361. "However, short-term construction related activities could impact water quality due to the discharge of sediment from grading activities. Design plans will include BMPs to address mitigating these effects and plans would be coordinated with the City for review and approval during the project design phase. In summary, BMPs such as those minimizing impacts to site soils would address water quality and effects on Kawa Stream.

Permits including grading, grubbing, stockpiling, and a National Pollution Discharge Elimination System (NPDES) permit would be obtained after agency review, and would discuss applicable BMPs. An Erosion and Sediment Control Plan (ESCP) would also be prepared. BMPs would be incorporated as part of permit approval and development of the ESCP. Actual BMPs implemented would be determined during the project's design phase."

Petitioner's expert in environmental science, Susan Burr, testified that Petitioner was proposing:

362. "The portions of the Lipalu Channel shown on Exhibit 1 are likely jurisdictional by rule under both the Clean Water Rule and the re-codified pre-existing rules as it is a tributary to Kawa Stream, which discharges into Kane'ohe Bay. A Department of Army Permit from the USACE would be obtained for grading plans altering the Lipalu Channel located on the eastern end of the Petition Area. A more formal survey would be prepared for submission to the USACE for review and a jurisdictional determination as part of the project's design phase."

Petitioner's expert in avian and mammalian biology, Reginal David, testified that Petitioner was proposing:

363. "Minimization Measures for Hawaiian Hoary Bats

Although Hawaiian hoary bats were not detected in the Petition Area, bats may be present. The main impact the project may have on these bats is from cemetery clearing large trees and shrubs and grubbing activities during the birthing and rearing season (June 1 through September 15).

Potential adverse effects from such disturbance can be avoided or minimized by not clearing woody vegetation taller than 4.6 meters (15-feet) during birthing and rearing season. The Final EIS included implementing this minimization measure to avoid impacting potential bats that may be present within the Petition Area. An Incidental Take Permit under Section 10 of the Endangered Species Act would not be required because this standard minimization practice, is an agency accepted practice, would minimize to the maximum extent practicable any potential impacts to roosting Hawaiian hoary bats."

Petitioner's expert in botany, Maya Legrand, testified that Petitioner was proposing:

364. "Proposed Mitigative Measures

The proposed Cultural Preserve is an appropriate location where native and Polynesian introduced plants displaced by cemetery expansion activities could be replanted, particularly in the area surrounding Kawa'ewa'e Heiau. Native plants would also be used in cemetery expansion area landscaping, which would aid perpetuation of these extant taxa in the immediate area. The presence of plants, such as 'Ohi'a Lehua, 'Akia, and Laua'e, within the Cultural Preserve or cemetery area would support its use for cultural practices. Seeds and cuttings from these plants found on site could be collected and grown for these efforts. Laua'e could also be used to landscape the cemetery expansion area.

Measures proposed in the Final EIS to mitigate the project's impact are:

1. Seeds or cuttings from extant indigenous and endemic plants would be collected and grown to use in replanting efforts in and around the cemetery expansion area or within the Cultural Preserve.

2. The preservation plan to be developed for the Cultural Preserve would include landscaping guidance related to the preservation of the Petition Area's indigenous and endemic plant species. Landscaping guidance would use information resulting from the botanical survey to establish proper collection and replanting procedures."

Petitioner's expert in noise assessment, Todd Beiler, testified that Petitioner was proposing:

365. "Mitigative Measures for Construction Noise

In situations where construction noise exceeds, or is expected to exceed, the State's "maximum permissible" property line noise levels, a construction noise permit must be obtained from the State DOH to allow operation of vehicles, equipment, and other items used during construction that exceed permissible noise levels. This state-issued permit is typical for construction activities. The DOH noise permit does not limit the noise level generated at the construction site. Rather, the permit limits the times noisy construction can occur. Specific permit restrictions for construction activities are:

1. No permit shall allow construction activities emitting noise in excess of the maximum permissible sound levels before 7:00 AM and after 6:00 PM of the same day, Monday through Friday.

2. No permit shall allow construction activities emitting noise in excess of the maximum permissible sound levels before 9:00 AM and after 6:00 PM on Saturday.

3. No permit shall allow construction activities emitting noise in excess of the maximum permissible sound levels on Sundays and holidays.

Measures proposed in the Final EIS to mitigate noise impacts during the project construction phase consist of the following:

1. A construction noise permit should be obtained from the State DOH for construction equipment operation.

2. The contractor should use reasonable and standard practices to mitigate noise, such as using mufflers on diesel and gasoline engines and using properly tuned and balanced machines. Unavoidable noise impacts may be reduced by using equipment intermittently or by blocking the line-of-sight from noise sources to noise-sensitive receptors with barriers or other designed noise mitigation measures. Conducting noise and/or vibration monitoring during construction can also help quantify any potential exposures to noise and vibration. 3. Possible source control methods including substitution of quieter construction methods or equipment when possible should be considered during the design phase as part of contractor requirements. These methods can be applied to most construction equipment.

4. Possible source control methods listed in the table below would be considered during the design phase as part of contractor requirements, and such methods can be applied to most construction equipment.

In addition, if vibration from a hydraulic breaker is disturbing to nearby residents and generating neighborhood complaints, we recommend that the vibration inducing activities be scheduled for the middle of the day when many residents are least likely to be home."

Petitioner's expert in traffic engineering, Matt Nakamoto, testified that Petitioner was proposing:

366. "The State DOT concurred with our recommendations to restripe HMP approaches to Kamehameha Highway to provide better exiting traffic flow. DOT also recommended the Petitioner provide appropriate traffic control plans in the event certain cemetery activities cause traffic issues at access driveways. This recommendation was included in the Final EIS as a minimization measure."

Petitioner's expert in archaeology, Rosanna Thurman, testified that Petitioner was proposing:

367. "Mitigative Measures

Based upon the final AIS that has been accepted by SHPD, data recovery would be conducted followed by development of a Preservation Plan, and archaeological monitoring would then be implemented.

Data Recovery

The Data Recovery program would begin with completion of a Data Recovery Plan, written in accordance with HAR 13-278, that would outline the proposed testing strategy and research objectives. The plan would be reviewed and accepted by SHPD prior to controlled excavation of select sites.

Data Recovery would be conducted for four sites within the area proposed to be affected by grading activities (Honua 68, Honua 7, Honua 11, Honua 12), one site located outside of the petition area (Honua 8), and one additional potential site located on the boundary of the CP (SIHP # -7079). Table 3 lists sites recommended for data recovery and includes rationale for their investigation. Data recovery efforts would attempt to establish function, usage, and the age of these sites, how they relate to each other, and aid determination of any further mitigation measures that may be needed.

If all or portions of SIHP # -7079 are impacted by the cemetery expansion grading plans, it is recommended that Data Recovery be conducted on one or more of the features, particularly Feature D (mound), and that Feature A (grinding stone) either be preserved in place or relocated to an appropriate location within the Cultural Preserve.

Data recovery is recommended for one site that is not proposed to be affected by the project, SIHP # -8235 (Honua 8, hab site). This site is recommended for data recovery in order to see if data can be obtained to understand how the site relates with others in the project area also to find evidence regarding what types of activities were being conducted (what resources were being utilized, etc.)

Preservation Plan

The Petitioner intends to preserve and protect {conserve) all features within the proposed Cultural Preserve through creation of a Preservation Plan, written in accordance with HAR 13-277.

Cemetery expansion may impact some or all features of SIHP # -7079 (Agricultural Complex in poor to remnant condition). If impacted, Feature A (grinding stone) would either be preserved in place or relocated to an appropriate location within the Cultural Preserve in accordance with the Preservation Plan developed.

Two sites not located within the Petition Area (SIHP # -4681 [hab complex] and Honua 8 # -8235 [hab site]) would be avoided and thus protected. SIHP # -8230, Honua 3 ('Auwai) is not located within the Cultural Preserve, but would be avoided and consequently preserved due to its function as a habitat for the endangered Blackline Hawaiian Damselfly.

The Preservation Plan would include a management component that establishes guidelines for managing activities occurring within the Preserve, which continues to allow cultural practitioners to access the site for cultural practices and gathering. This Preservation Plan for the Cultural Preserve would address:

1. Establish the proposed Cultural Preserve and support development of a preservation and management plan that includes participation by cultural advisory groups, the Ko`olaupoko Hawaiian Civic Club, and the Petitioner to foster appropriate cultural management of the preserve.

2. Allow community members and organizations to engage in regular maintenance of Kawa'ewa'e Heiau and the surrounding cultural landscape and historic sites. 2. [sic] Determining buffer areas for the Heiau and other sites.

3. Working with the community to develop educational and interpretive programs.

4. Working with practitioners to protect culturally significant hula and medicinal plants.

5. Allowing for restoration of the cultural landscape, including but not limited to 'auwai and historic terraces. The 'auwai associated with the well and seep (SIHP # - 8230 site) could be included as part of these restoration and management activities.

6. Addressing new burials within the Preserve following traditional native Hawaiian protocols.

7. Follow recommendations for all historic sites presented in the final AIS.

Archaeological Monitoring

An archaeological monitoring program would be designed in coordination with SHPD. The monitoring plan would be approved by SHPD prior to project implementation, in accordance with HAR 13-279.

Proposed Mitigative Measures

The proposed Cultural Preserve has been expanded and redesigned to account for the several newly identified sites found on or near the CP boundary (see Exhibit RTA). This has occurred to ensure the most number of sites could be preserved and most significant historic sites, culturally significant resources, and traditional and customary practices would not be impacted by project improvements."

Petitioner's expert in archaeology and cultural assessment, Trisha Kehaulani Watson, testified that Petitioner was proposing:

368. "Proposed Mitigative Measures

The proposed Cultural Preserve has been expanded and redesigned throughout the project development process. This has occurred to ensure the most significant historic sites, culturally significant resources, and traditional and customary practices would not be impacted by project

improvements. The following measures are related to the Preserve and would minimize impacts to associated historic sites, cultural resources, and traditional and customary practices:

1. Establish the proposed Cultural Preserve and support development of a preservation and management plan that includes participation by cultural advisory groups, the Ko'olaupoko Hawaiian Civic Club, and the Petitioner to foster appropriate cultural management of the preserve.

2. Follow recommendations for all historic sites presented in the final AIS.

3. Continue to allow cultural practitioners to access the Cultural Preserve under the management guidelines established by the future Preservation Plan.

a. Create safe access for kupuna and practitioners to the heiau while limiting access from trespassers who could potentially degrade and harm the site and resources.

b. A managed (gated and restricted) access can continue from Lipalu Street. However, a proposed new pathway through the expanded cemetery can be evaluated by the Ko'olaupoko Hawaiian Civic Club with the Petitioner to determine if it would be a better and more convenient alternative.

4. The Preservation Plan should address the following:

a. Allow community members and organizations to engage in regular maintenance of Kawa'ewa'e Heiau and the surrounding cultural landscape and historic sites.

b. Work with the community to develop educational and interpretive programs.c. Work with practitioners to protect culturally significant hula and medicinal plants.

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5. Allow for restoration of the cultural landscape including but not limited to 'auwai and historic terraces. The 'auwai associated with the well and seep (Honua 3 site) could be included in restoration and management activities."

RULINGS ON PROPOSED FINDINGS OF FACT

Any of the findings of fact submitted by Petitioner or other parties not already ruled upon by the Commission by adoption herein, or rejected by clearly contrary findings of fact herein, are hereby denied and rejected.

Any conclusion of law herein improperly designated as a finding of fact should be deemed or construed as a conclusion of law; any finding of fact herein improperly designated as a conclusion of law should be deemed or construed as a finding of fact.

CONCLUSIONS OF LAW

1. Pursuant to HRS Chapter 205 and the Commission Rules under HAR Chapter 15-15, and upon consideration of the Commission decision-making criteria under HRS §205-17, the Commission finds upon the clear preponderance of the evidence that the reclassification of the Petition Area, consisting of approximately 53.449 acres of land, situated at Kaneohe, Island of Oahu, State of Hawai⁺i, Tax Map Key No. (1) 4-5-033: por. 001, to the State Land Use Urban District, and subject to the representations made by Petitioner and conditions stated in the Order below, conforms to the standards for establishing the boundaries of the State Land Use Urban District, is reasonable, not violative of HRS §205-2 and Part III of HRS chapter 205, and is consistent with the policies and criteria established pursuant to HRS §§205-16, 205-17, and 205A-2. 2. Article XII, Section 7, of the Hawai'i State Constitution requires the Commission to protect native Hawaiian traditional and customary rights. The State of Hawai'i reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural, and religious purposes and possessed by *ahupua'a* tenants who are descendants of native Hawaiians who inhabited the Hawaiian Islands prior to 1778, subject to the right of the State to regulate such rights. The State and its agencies are obligated to protect the reasonable exercise of customarily and traditionally exercised native Hawaiian rights to the extent feasible. *Public Access Shoreline Hawai'i v. Hawai'i County Planning Commission*, 79 Haw. 425, 450, n. 43, *certiorari denied*, 517 U.S. 1163 (1996).

3. The Commission is empowered to preserve and protect customary and traditional rights of native Hawaiians. *Ka Pa`akai O Ka`Aina v. Land Use Commission*, 94 Hawai'i 31, 7 P.3d 1068 (2000).

4. Article XI, Section 1, of the Hawai'i State Constitution requires the State to conserve and protect Hawai'i's natural beauty and all natural resources, including land, water, air, minerals, and energy sources, and to promote the development and utilization of these resources in a manner consistent with their conservation and in furtherance of the self-sufficiency of the State.

5. Article XI, Section 3, of the Hawai'i State Constitution requires the State to conserve and protect agricultural lands, promote diversified agriculture, increase agricultural self-sufficiency, and assure the availability of agriculturally suitable lands.

6. The Petition Area is not designated as Important Agricultural Land under Part III of HRS Chapter 205.

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7. Article XI, Section 7, of the Hawai'i State Constitution states that the State has an obligation to protect, control, and regulate the use of Hawai'i's water resources for the benefit of its people.

8. Article XI, Section 1, of the Hawai'i State Constitution states that all public natural resources are held in trust by the State for the public benefit, and the State should make appropriate assessments and require reasonable measures to protect public natural resources, while applying a higher level of scrutiny where public natural resources are used for economic gain. *Kauai Springs v. Planning Comm. of the County of Kauai*, ICA No. 29440, April 30, 2013.

9. HRS Section 205-16 provides that "no amendment to any land use district boundary nor any other action by the land use commission shall be adopted unless such amendment or other action conforms to the Hawai'i state plan."

10. The Commission concludes that it has observed and complied with its duties arising from Article XI, Section 1; Article XI, Section 3; Article XI, Section 7; and Article XII, Section 7 of the Hawai'i State Constitution.

11. HRS Section 205-4(g) provides that, "The commission may provide by condition that absent substantial commencement of use of the land in accordance with such representations, the commission shall issue and serve upon the party bound by the condition and order to show cause why the property should not revert to its former land use classification or be changed to a more appropriate classification.

DECISION AND ORDER

IT IS HEREBY ORDERED that the Petition Area, consisting of approximately 53.449 acres of land, situated at Kāne'ohe, Island of O'ahu, State of Hawai'i, Tax Map Key No. (1) 4-5-033: por. 001, and shown approximately on Exhibit "A," attached hereto and incorporated by reference herein, shall be reclassified from the State Land Use Conservation District to the State Land Use Urban District, and the State Land Use District boundaries shall be amended accordingly.

Based upon the findings of fact and conclusions of law stated herein, it is hereby determined that the reclassification of the Petition Area will not significantly affect or impair the preservation or maintenance of natural systems and habitats or the valued cultural, historical, agricultural, and natural resources of the area.

IT IS FURTHER ORDERED that the reclassification of the Petition Area from the State Land Use Conservation District to the State Land Use Urban District shall be subject to representations made by the Petitioner and the following conditions:

1. <u>Representations Made</u>. Petitioner shall take and complete the actions described, including but not limited to, those described in Findings of Fact Nos. 324-370 as represented to the Commission.

2. <u>Buffer Areas</u>. Petitioner shall establish a buffer between the proposed cemetery expansion, Pohai Nani project, and other adjacent residential properties in substantial compliance with representations made to the commission and contained in the Ko'olau Poko Sustainable Communities Plan.

3. <u>Conservation Easement and Restrictive Covenant</u>. Petitioner shall record with

the State of Hawai'i Bureau of Conveyances or the State of Hawai'i Land Court, or both, as appropriate, a conservation easement and related declaration of restrictive covenant on the entirety of the 156.5-acre undeveloped portion of its Pikoiloa Tract property (TMK No. 4-5-033: 001) that limits, in perpetuity, any other future development on the property, except for the 27.5acre portion of the property that encompasses the proposed Hawaiian Memorial Park expansion site, and the 14.5-acre portion of the property that encompasses the proposed Kawa'ewa'e Heiau cultural preserve.

A copy of the recorded conservation easement and declaration of restrictive covenant shall be submitted to the City and County of Honolulu, Department of Planning and Permitting ("DPP"), prior to the issuance of any grading permit or any other permit which involves ground disturbance.

Should the Petitioner desire to make any major changes to the conservation easement or the declaration of restrictive covenant, a request to amend the Decision and Order shall be made to the LUC. The LUC shall be the ultimate arbiter of whether a proposed change is major.

Petitioner shall formulate the easement and stewardship of the easement with a Land Trust that is accredited and in good standing with the Land Trust Accreditation Commission for the long-term management of the area.

4. <u>Landscape Plan and Tree Replacement</u>. Prior to the issuance of a grading permit, the Petitioner shall submit to the DPP, a landscape plan and schedule of planting. In consideration for the potential impact of Climate Change, within the Petition Area, the loss of mature trees, defined as having a trunk diameter of six inches or greater, shall be replaced on a one-for-one basis, at a minimum, with preferably field stock trees that will have approximately

similar size canopy coverage within a reasonable period of time. The locations of replacement trees are not limited to the Petition Area.

5. <u>Detention Basin Analysis</u>. The Petitioner shall prepare a detailed "Detention Basin Analysis", using appropriate computer modeling software, to determine the size of the detention basins to be constructed immediately upstream of each of the existing drainage inlets that will receive runoff from the project. The inflow will be calculated based on at least a 10year, 24-hour rainfall event and the basins shall be designed so that the outflow from each basin will be limited to the capacity of the existing downstream drainage improvements. The Detention Basin Analysis shall be submitted to DPP for approval. After the Detention Basin Analysis is approved, the detention basins shall be constructed as soon as practical after the start of grading for the project.

6. <u>Stormwater Management and Drainage Improvements</u>. Notwithstanding other conditions related to the preservation of the habitat for the endangered Hawaiian damselfly, to the extent possible, Petitioners shall implement applicable BMPs to minimize infiltration and runoff from construction and vehicle operations, reduce or eliminate the potential for soil erosion and ground water pollution, and formulate dust control measures to be implemented during and after the development process in accordance with State Department of Health ("DOH") guidelines and City ordinances and rules.

Petitioner, shall at the start of construction, install erosion and sediment controls and retention/detention basins prior to the clearing and grubbing of the site.

7. <u>Air Quality Monitoring</u>. Petitioners shall participate in an air quality monitoring program as required by the DOH.

8. <u>Established Gathering and Access Rights Protected</u>. Pursuant to Article XII,

Section 7, of the Hawai'i State Constitution, Petitioner shall preserve any established gathering and access rights of Native Hawaiians who have customarily and traditionally used the Petition Area to exercise subsistence, cultural, gathering, and religious practice, or for access to other areas for such purposes.

9. <u>Previously Unidentified Burials and Archaeological/Historic Sites</u>. In the event that historic resources, including human skeletal remains, are identified during construction activities, all work shall cease in the immediate vicinity of the find, the find shall be protected from additional disturbance, and State Department of Land and Natural Resources - State Historic Preservation Division ("SHPD") shall be contacted immediately. Without any limitation to any other condition found herein, if any burials or archaeological or historic sites are discovered during the course of construction of the Project, all construction activity in the vicinity of the discovery shall stop until the issuance of an archaeological clearance from the SHPD that mitigation measures have been implemented to its satisfaction.

10. <u>Relocation of Rocks</u>. Petitioner shall consult with the Cultural Preserve manager to determine whether any of the rocks that were part of the historic features should be relocated to the cultural preserve after data recovery.

11. <u>Establishment of Cultural Preserve</u>. Petitioner shall establish the Cultural Preserve in conjunction with an appropriate Native Hawaiian group (Group). The Petitioner shall work with the community and the Koʻolaupoko Hawaiian Civic Club in order to establish a preservation and management plan for the Cultural Preserve, in perpetuity. Petitioner shall also execute the agreement with the Koʻolaupoko Hawaiian Civic Club, in the event the Koʻolaupoko Hawaiian Civic Club does not execute the agreement, then with another local Native Hawaiian Organization, to manage and steward the Cultural Preserve that supports native Hawaiian cultural practices, containing all provisions consistent with the Petitioner's representations before any work involving ground disturbance occurs.

Petitioner shall pay for or otherwise assume financial responsibility for expenses associated with capital improvements within the preserve required to fulfill the conditions set forth by the Commission for all on-going maintenance of the preserve. Petitioner shall cover reasonable expenses incurred by the Group associated with the management of the preserve, including rockfall hazard mitigation and liability.

- 12. <u>Endangered Species</u>. Petitioners shall undertake the following:
 - a. A subsurface drainage system designed utilizing a herringbone configuration shall be implemented in the cemetery expansion area planned for fill activities above the seep. The system shall be comprised of three subsurface drainage mainlines with smaller subdrains branching laterally from them. This system will help ensure water flow to the well and seep is maintained.
 - A well monitoring gauge shall be installed inside the wall of the well, located upslope from the seep to monitor water levels prior to, during and after the project construction.
 - c. Before earthmoving activities begin a minimum 50-meter buffer area above the seep where there will be no grading will be established, then a temporary water line shall be extended to the well from the cemetery's irrigation system. This irrigation line will serve as a short-term means of ensuring continued water flow to the seep. If the gauge indicates water levels have declined to levels potentially affecting the seep, water from the irrigation line to the well will be provided to stabilize water levels.

- d. Once earthmoving activities conclude, a permanent water line shall be extended to the well from the expanded cemetery's irrigation system. This irrigation line will serve as a long-term means of ensuring continued water flow to the seep. If the gauge indicates water levels have declined to levels potentially affecting the seep, water from the irrigation line to the well shall be provided to stabilize water levels.
- e. Small sticks upright and away from the edges of the waterlogged areas shall be placed along the seep to serve as molting safe zone for damselflies to avoid predation from crawling predators.
- f. Habitat boundaries currently shown in the Final Environmental Impact Statement (FEIS) shall be reviewed during project final design based upon more accurate data collected from a topographic survey, and consultation with the State Department of Land and Natural Resources, Division of Forestry and Wildlife ("DLNR-DOFAW") and_U.S. Fish and Wildlife Service ("USFWS"). Habitat boundary shall be revised as appropriate. Fencing shall be constructed around the damselfly habitat boundary to protect the native damselfly from disturbance from feral pigs. Fencing shall consist of livestock panels appropriate to exclude pigs, with lower barbed strand to resist digging.
- g. Regular inspection of the seep shall occur to ensure the present flow of water is continued.
- h. Inspection of the seep shall be conducted at monthly intervals for one year prior to construction to establish baseline water flow conditions.
- i. Monitoring shall continue during construction, with the seep area inspected on a weekly basis to evaluate water flow in coordination with BMP (erosion control)

measures.

- j. Once construction concludes, monitoring shall continue for six months to ensure continued water flow to the seep. Inspections shall occur weekly for the first three months, and every two weeks for the following three months.
- k. After the six-month monitoring period elapses, HMP staff shall conduct monthly water flow inspections.
- At any time, if water flow is documented to be outside of the range observed in the pre-construction monitoring phase, the temporary or permanent irrigation lines shall be used to provide supplemental water to the seep. Additional mitigation measures shall be determined through consultation between the contractor, design team, DLNR-DOFAW, USFWS and other specialists.
- m. Regular inspections of the seep (at intervals described in 12a-k) shall also include surveys to ensure that non-native fish, specifically poecilid fish, are not present within this habitat area. If fish are observed, surveyors shall notify experienced biologists to ensure prompt identification, and USFWS and DLNR-DOFAW shall be consulted on what control measures can be implemented.
- n. Establish an education and outreach program to raise awareness of the existence of the blackline damselfly and habitat area on the property. The outreach shall include informing visitors to Hawaiian Memorial Park as well as members of the adjacent community. The program shall include information on restricted activities and other best practices to avoid and minimize adverse impacts to the habitat and the species.
- 13. <u>Hawaiian Hoary Bat</u>. To avoid potential impacts to the Hawaiian hoary bat, the

clearing of dense vegetation, including woody plants greater than 15 feet, along the periphery of the Petition Area shall not occur between June 1 to September 15 when bats may be carrying young and potentially could be at risk by such clearing activities.

14. <u>Disposal of Waste Material</u>. Petitioner shall not dispose as waste material any clean fill at the PVT Land Company, Ltd. or any other construction and demolition landfill commercially in operation on the island of Oʻahu as a result of grading work in the Petition Area.

Clean Fill is defined as "natural materials consisting of soil, clay, sand, volcanic cinder and ash, rock, and boulders measuring twelve inches or less in diameter; or a mixture or combination of such materials, which are not suspected to contain hazardous substances or concentrations of chemical contaminants of concern above the DOH's Tier I Environmental Action Levels."

15. <u>Community Outreach</u>. Petitioner shall establish an ongoing construction-related community outreach program to inform area residents and businesses of construction milestones and activities occurring on the property. In addition, the Petitioner shall establish a hotline and a dedicated email address to for immediate and prompt responses to questions, concerns or comments from the community and other stakeholders.

16. <u>Development Timetable</u>. Petitioner shall provide the Commission with a development timetable prior to obtaining grading permits from the City.

17. <u>Infrastructure Deadline</u>. Petitioners shall complete construction of the proposed backbone infrastructure, which consists of the primary roadways and access points, internal roadways, on- and offsite water and electrical system improvements, and stormwater/drainage and other utility system improvements, within ten (10) years from the date of the Decision and Order approving the Petition.

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18. <u>Compliance with Representations</u>. Petitioner shall develop the Petition Area in substantial compliance with the representations made to the Commission as reflected in the Findings of Fact, Conclusions of Law, and Decision and Order. Absent substantial commencement of use of the land in accordance with such representations, the Commission shall issue and serve upon the party bound by the condition and order to show cause why the property should not revert to its former land use classification or be changed to a more appropriate classification.

19. <u>Notice of Change in Ownership</u>. Petitioner shall give notice to the Commission of any intent to sell, lease, assign, place in trust, or otherwise voluntarily alter the ownership interests in the Property, prior to development of the Property.

20. <u>Annual Reports</u>. Petitioner shall timely provide without any prior notice, annual reports to the Commission, the Office of Planning, and the Department of Planning and Permitting in connection with the status of the subject project and Petitioner's progress in complying with the conditions imposed herein. The annual report shall be submitted in a form prescribed by the Executive Officer of the Commission.

21. <u>Release of Conditions</u>. The Commission may fully or partially release the conditions provided herein as to all or any portion of the Property upon timely motion and upon the provision of adequate assurance of satisfaction of these conditions by Petitioner.

22. <u>Notice of Imposition of Conditions</u>. Within seven (7) days of the issuance of the Commission's Decision and Order for the subject reclassification, Petitioner shall: (a) record with the Bureau of Conveyances or the State of Hawai'i Land Court, or both, as appropriate, a statement that the Property is subject to conditions imposed herein by the Land Use Commission in the reclassification of the Property; and (b) shall file a copy of such recorded statement with

the Commission.

23. <u>Recordation of Conditions</u>. Petitioner shall record the conditions imposed herein by the Commission with the Bureau of Conveyances or the State of Hawai'i Land Court, or both, as appropriate, pursuant to section 15-15-92 Hawai'i Administrative Rules.



ADOPTION OF ORDER

The Chair, being familiar with the record and proceedings, hereby adopts and approves the foregoing ORDER this $_13^{111}$ day of October, 2020. This ORDER shall take effect upon the date this ORDER is certified and filed by this Commission.

This ORDER is appealable pursuant to HRS §91-14.

Done at Honolulu, Hawai'i, this 13TH day of October, 2020, per motion on October 8, 2020.

LAND USE COMMISSION

STATE OF HAWAPI

APPROVED AS TO FORM

BW VAN

Deputy Attorney General

By ONATHAN LIKEKE SCHEUER

Chairperson and Commissioner

FILED AND ELTECTIVE ON: OCTOBER 13, 2020.

Certified by:

DANIEL E. ORODENKER Executive Officer State Land Use Commission



BEFORE THE LAND USE COMMISSION OF THE STATE OF HAWAI'I

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In the Matter of the Petition of HAWAIIAN MEMORIAL LIFE PLAN, LTD. To Amend The Conservation Land Use

District Boundary Into The Urban Land Use District For Approximately 53.449 Acres Of Land At Kāne'ohe, Island of O'ahu, State of Hawai'i, Tax Map Key: (1) 4-5-033: por. 001 DOCKET NO. A17-804

CERTIFICATE OF SERVICE

CERTIFICATE OF SERVICE

I hereby certify that a file-marked of the foregoing document was duly served upon the

following AS INDICATED BELOW on October 13, 2020.

BENJAMIN M. MATSUBARA, ESQ. CURTIS T. TABATA, ESQ. MATSUBARA, KOTAKE & TABATA 888 Mililani Street, Suite 308 Honolulu, Hawai'i 96813

DAWN TAKEUCHI-APUNA, ESQ. Deputy Attorney General Department of the Attorney General 425 Queen Street Honolulu, Hawai'i 96813

CERTIFIED MAIL RETURN RECEIPT REQUESTED

CERTIFIED MAIL RETURN RECEIPT REQUESTED

HAND DELIVER

MARY ALICE EVANS, Director Office of Planning, State of Hawai'i 235 South Beretania Street Room 600, Leiopapa A Kamehameha Bldg, Honolulu, Hawai'i 96813

KATHY K. SOKUGAWA, Acting Director City and County of Honolulu REGULAR MAIL

A17-804 Hawaiian Memorial Life Plan, Ltd. Findings of Fact, Conclusions of Law, and Decision and Order Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawai'i 96813

REGULAR MAIL

PAUL S. AOKI, ESQ. DUANE W. H. PANG, ESQ. City and County of Honolulu Department of Corporation Counsel 530 South King Street, Room 110 Honolulu, Hawai'i 96813

HUI O PIKOILOA, an unincorporated Association, LIANNE CHING, BETTYE HARRIS, RICHARD MCCREEDY, JULIANE MCCREEDY, JESSE REAVIS, and GRANT YOSHIMORI c/o 45-464 Lipalu Street Kaneohe, Hawai'i 96744 CERTIFIED MAIL RETURN RECEIPT REQUESTED

DATED: Honolulu, Hawai'i, October 13, 2020.

DANIEL E. ORODENKER Executive Officer

A17-804 Hawaiian Memortal Life Plan, Ltd. Findings of Fact, Conclusions of Law, and Decision and Order



Hawaiian Memorial Park Cemetery Expansion Project

Exhibit 54. Updated Project Site Plan (May 2020)

EXHIBIT "4"





BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

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In the Matter of the Petition of

HAWAIIAN MEMORIAL LIFE PLAN, LTD.

To Amend The Conservation Land Use District Boundary Into The Urban Land Use District For Approximately 53.449 Acres Of Land At Kāne'ohe, Island of O'ahu, State Of Hawai'i, Tax Map Key: (1)4-5-033: por. 001 DOCKET NO. A17-804

DECISION ON 2022 STATUS REPORT HEARING

DECISION ON 2022 STATUS REPORT HEARING

)

AND

CERTIFICATE OF SERVICE

This is to certify that this is a true and correct copy of the document on file in the office of the State Land Use Commission, Honolulu, Hawai'i.

Oct 4, 2022

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DANIEL E. ORODENKER Executive Officer





BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of) DOCKET NO. A17-804
HAWAIIAN MEMORIAL LIFE PLAN, LTD.)) DECISION ON 2022 STATUS REPORT) HEARING
To Amend The Conservation Land Use District Boundary Into The Urban Land Use District For Approximately 53.449 Acres Of Land At Kāne'ohe, Island Of O'Ahu, State Of Hawai'i, Tax Map Key: (1)4-5-033: por. 001)))))

DECISION ON 2022 STATUS REPORT HEARING

AND

CERTIFICATE OF SERVICE





BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Petition of

HAWAIIAN MEMORIAL LIFE PLAN, LTD.

To Amend The Conservation Land Use District Boundary Into The Urban Land Use District For Approximately 53.449 Acres Of Land At Kāne'ohe, Island Of O'ahu, State Of Hawai'i, Tax Map Key: (1)4-5-033: por. 001 DOCKET NO. A17-804

DECISION AND ORDER REGARDING 2022 STATUS REPORT HEARING

DECISION AND ORDER REGARDING 2022 STATUS REPORT HEARING

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On October 7, 2020, the State Land Use Commission approved the Petition for Land Use District Boundary Amendment filed by HAWAIIAN MEMORIAL LIFE PLAN, LTD. ("Petitioner") on November 13, 2017, to reclassify approximately 53.449 acres of land, situated at Kāne'ohe, Island of O'ahu, State of Hawai'i, Tax Map Key No. (1) 4-5-033: portion of 001 ("Property" or "Petition Area"), from the State Land Use Conservation District to the State Urban District. The approval for reclassification was subject to twenty-three (23) conditions; among those was a requirement to provide annual reports in connection with the status of the subject project and progress in complying with conditions. On August 24, 2022, the Commission held a Hybrid meeting at the Airport Conference Center (in Hawaiian Airlines Terminal Building) while simultaneously using Zoom conference technology for the Petitioner to provide a Status and Progress Report and take action (if necessary) to address any compliance issues.

The Commission, having heard and examined the testimony, exhibits, evidence, and argument of counsel and parties presented during the status report hearing, along with the pleadings filed herein, hereby makes the following Findings of Fact and Decision and Order.

PROCEDURAL MATTERS

- On October 22, 2020, the Commission received the Petitioner's Uncertified Notice of Imposition of Conditions by the Land Use Commission, which was recorded on October 20, 2020.
- On December 4th, 2020, the Commission received the Petitioners Certified Notice of Imposition of Conditions.
- On December 7th, 2020, the Land Use Commission received a copy of the Declaration of Conditions recorded with the State of Hawai'i Bureau of Conveyances.
- On December 28th, 2020, the Commission received the Petitioners Certified Notice of Declaration of Conditions by the Land Use Commission.
- On October 13th, 2021, the Land Use Commission received the Petitioners 2021 Annual Report.
- On August 12, 2022, the Commission mailed the meeting notice for the August 24, 2022, Meeting to the Statewide, O'ahu and respective email lists.
- On August 16th, 2022, the Commission received the Petitioners letter to the Land Use Commission regarding the Petitioner's representation.
- On August 22, 2022, The Land Use Commission received written public testimony from Hawai'i Laborers, Hawai'i Operating Engineers Industry Stabilization Fund, Pacific Resource Partnership, and Hawai'i Regional Council of Carpenters.
- On August 23, 2022, the Commission received an electronic letter from the Intervenors with Comments for the 2022 Hawaiian Memorial Plan Status Report.
- On August 23, 2022, the Commission received addition written testimony from the Hawai'i Laborers Union.
- On August 23, 2022, the Commission received additional comments from the Intervenor regarding the 2022 Hawaiian Memorial Plan Status Report.
- 12. On August 24, 2022, the Commission held a Hybrid meeting at the Airport Conference Center (in Hawaiian Airlines Terminal Building) while simultaneously using Zoom conference technology where Petitioner provided a Status and Progress Report on its compliance with conditions; and to take any action (if necessary) on issues of compliance.
- Present at the hearing were: Curtis Tabata, Esq. and Jay Morford representing Petitioner;
 Franz Kraintz, representing the City & County; Bryan Yee, Esq., Aaron Setogawa
 representing OPSD; and, Grant Yoshimori and Mitch McCreedy representing Intervener.
- 14. An initial opportunity for public testimony was provided prior to the Petitioner's presentation; but no in-person or Zoom testimony was received at that time.
- 15. Petitioner provided a detailed progress report on compliance with conditions, difficulties they had faced, how they had addressed these, and a commitment to work in collaboration with specific community groups and improve communication with the general public.

- 16. The City & County made a presentation providing comments on the filings and presentation by the Petitioner. Commissioners then asked questions to clarify the County's position.
- OPSD made no presentation. Commissioners asked questions to clarify the position of State agencies.
- 18. Intervener representative, Grant Yoshimori, made a presentation identifying issues and questions raised by Petitioner's filings and annual reports. Commissioners asked questions and commented on Intervener's presentation.
- The Commission provided a second opportunity for public testimony prior to decisionmaking. At that time the Commission heard public testimony from the following: Laura Hokunani Edmunds Ka'akua representing Hawai'i Land Trust, Aaron Mahi representing Ko'olau Foundation, and Mahealani Cypher representing Ko'olaupoko Hawaiian Civic Club. [Tr. 8/24/2022; pgs. 77-97]

FINDINGS BY THE COMMISSION

- 20. Commissioners questioning of the parties and public testifiers found that:
 - a. Service Corporation International ("SCI"), the parent company of Petitioner, provided a letter of financial commitment of \$25,000,000 dollars for the development of Hawaiian Memorial Park. [Petitioner's 8/16/2022 letter to Commission; Petitioner Exhibit 57; Tr. 8/24/202, pgs 19-22, 36]. This amount is in addition to funds (approximately \$5,000,000) already expended. [Tr. 8/24/2022, pg. 22-23]

- b. The development timetable for the permitting and development has been delayed, by approximately nine months, due to having to obtain unanticipated grading permits to conduct test borings for geotechnical studies necessary prior to final grading plans and permits. [Tr. 8/24/2022; pgs. 26-28]
- c. A conservation easement was recorded on 7/5/2022, between Petitioner and Hawai'i Land Trust, as required, prior to receiving a final grading permit. [Tr. 8/24/2022; pgs.27-28, 31]
- d. Petitioner established a website and telephone number providing information relating to their construction schedule, damselfly habitat, and cultural facts and updates. A mailer was sent out to inform the public on its availability in March 2022. Petitioner was urged to use the neighborhood boards as a venue for getting the word out to the broader community. [Tr. 8/24/202; pgs. 28-29; 59].
- e. Petitioner signed a management agreement for a cultural preserve with the Ko'olau Foundation. Future access to the cultural preserve will be through the Hawaiian Memorial expansion area. Currently, access remains available by a hike into the cultural preserve. [Tr. 8/24/202; pgs. 31-32]. Petitioner clarified and agreed they "...shall cover reasonable expenses incurred by the group associated with the management of the preserve, including rockfall hazard mitigation and liability." Further, Petitioner agreed that this includes retention of legal counsel by the Ko'olau Foundation for any assistance they require in managing the cultural preserve. [Decision and Order, Condition 11; Tr. 8/24/2022, pgs. 39-48].

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- f. Mitigation and monitoring of the blackline damselfly habitat is ongoing. This includes: installation of a water monitoring gauge; rainfall and water quality monitoring; counting and logging of damselfly and predator species; and installation of a temporary waterline in case additional water is required to keep the water seep flowing. Fencing of the habitat has not yet been done. [Tr. 8/24/202; pgs. 32-35, 37]
- g. Petitioner agreed to consider the request to consult with the other parties prior to submittal of its final grading plans for County review and approval. [Tr. 8/24/202; pgs. 67-77]
- h. Petitioner agreed to provide a more comprehensive annual report to address concerns identified during the hearing. [Tr. 8/24/2022; pgs. 56-58, 98]

RULINGS ON PROPOSED FINDINGS OF FACT

Any of the findings of fact submitted by Petitioner or other parties not already ruled upon by the Commission by adoption herein, or rejected by clearly contrary findings of fact herein, are hereby denied and rejected.

Any conclusion of law herein improperly designated as a finding of fact should be deemed or construed as a conclusion of law; any finding of fact herein improperly designated as a conclusion of law should be deemed or construed as a finding of fact.

CONCLUSIONS OF LAW

1. Pursuant to HRS Chapter 205 and the Commission Rules under HAR Chapter 15-15-90(c), "The commission may require the petitioner to submit periodic reports indicating what progress has been made in complying with any conditions that may have been imposed by the commission."

DECISION AND ORDER

Based on good cause shown, a motion was made and seconded that no further action by the Commission was necessary at that time. Following discussion by the Commission a vote was taken on this motion. There being a vote tally of 7 ayes, 0 nays, and 2 excused, the motion carried.

The motion having received the affirmative votes required by HAR §15-15-13, and there being good cause for the motion, this Commission ORDERS that no further action by the Commission is necessary at this time, the Petitioner is making adequate progress on the representations and conditions contained in the Decision and Order dated October 13, 2020.

The Commission FURTHER ORDERS that:

- Petitioner's next annual report provide an updated development timetable and estimated cost for subsequent improvements; in order that the Commission can determine whether Petitioner's financial commitment to the Project needs to be adjusted.
- 2. Petitioner share information on the design of the geotechnical boring and detention basins with the other parties leading up to the final grading plan submittal to the County. The

intent is to identify early on if there are any oversights or errors based on representations and conditions contained in the Decision and Order.

3. The County Department of Planning and Permitting ("DPP") consult with the Intervener and their experts during their comprehensive review of the compliance of the grading plans to the conditions of the Decision and Order, which are different and more stringent than the County's base requirements.



ADOPTION OF ORDER

The undersigned Commissioners, being familiar with the record and proceedings, hereby adopt and approve the foregoing ORDER on <u>Oct 4, 2022</u>. This ORDER may be executed in counterparts. This ORDER shall take effect upon the date this ORDER is certified by this Commission.

Done at Honolulu, Hawai'i, on Oct 4, 2022, per motion on August 24, 2022.

APPROVED AS TO FORM

· NLAV

Deputy Attorney General

LAND USE COMMISSION STATE OF HAWAI'I

By Ale

DAN GIOVANNI Chairperson and Commissioner

FILED AND EFFECTIVE ON:

Oct 4, 2022

Certified by:

DANIEL E. ORODENKER Executive Officer State Land Use Commission





BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAI'I

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In HAWAIIAN MEMORIAL LIFE PLAN,) LTD.

To Amend The Conservation Land Use District Boundaries Into The Urban Land Use District For Approximately 53.449 acres of land, consisting of Tax Map Key No. (1) 4-5-033: 001 (por.) at Kāne'ohe, Island of O'ahu, State of Hawai'i

DOCKET NO. A17-804

DECISION ON 2022 STATUS REPORT HEARING

CERTIFICATE OF SERVICE

CERTIFICATE OF SERVICE

I hereby certify that a copy of the FINDINGS OF FACT, CONCLUSIONS OF LAW, AND DECISION AND ORDER ON THE 2022 STATUS REPORT HEARING was served upon the following by either hand delivery or depositing the same in the U.S. Postal Service by regular or certified mail as noted:

HAND	MARY ALICE EVANS, Director
DEL.:	Office of Planning
	P. O. Box 2359
	Honolulu, Hawai'i 96804-2359

HAND BRYAN YEE, Esq. DEL.: Deputy Attorney General 425 Queen Street Honolulu, Hawai'i 96813

- CERTIFIED DAWN TAKEUCHI-APUNA, Acting Director MAIL: Department of Planning and Permitting 650 South King Street Honolulu, Hawai'i 96813
- CERTIFIED BENJAMIN M. MATSUBARA, Esq.. MAIL: CURTIS T. TABATA, Esq MATSUBARA, KOTAKE & TABATA 888 Mililani Street, Suite #308 Honolulu, Hawai'i 96813
- CERTIFIED HUI O PIKOILOA MAIL: 45-464 Lipalu Street Kāne'ohe, Hawai'i 96744

Dated Oct 4, 2022

Honolulu, Hawai'i.

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DANIEL E. ORODENKER Executive Officer BENJAMIN M. MATSUBARA MERVYN M. KOTAKE CURTIS T. TABATA

MATSUBARA, KOTAKE & TABATA

Attorneys At Law A Law Corporation CHARLES R. KENDALL BUILDING 888 MILILANI STREET, SUITE 308 HONOLULU, HAWAII 96813 E-MAIL: <u>ctabata@m-klawyers.com</u>

October 11, 2022

VIA U.S. MAIL AND E-MAIL <daniel.e.orodenker@hawaii.gov>

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i P.O. Box 2359 Honolulu, Hawai`i 96804 Re: Decision on 2022 Status Hearing - Hawaiian Memorial Life Plan, Ltd.; LUC Docket No. A17-804

Dear Mr. Orodenker:

Please find this letter in response to the Decision on 2022 Status Hearing filed on October 4, 2022.

Petitioner's 2022 Annual Report will provide a more detailed development timetable; however, an updated project cost estimate will not be possible until the final grading plans are complete.

The final grading plans require the completion and results of the geotechnical exploratory borings. Geolabs expects to complete the exploratory borings by the date of this letter with the completion of the geotechnical investigation report expected by January 2023.

We anticipate having the final grading plans and the submittal of the permit application by the end of January. We expect that a more accurate cost estimate for the project will also be determined during this timeframe. Once available, we will forward the amount of the cost estimate to the LUC.

With respect to sharing engineering information prior to submittal of the final grading plan, please see the attached letter from Coffman Engineers, Inc.

TELEPHONE (808) 526-9566

FACSIMILE (808) 538-3840 Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2022 Page Two (2)

Very truly yours,

MATSUBARA, KOTAKE & TABATA



Curtis T. Tabata

Enclosure

cc: Intervenors Hui O Pikoiloa c/o Grant YoshimoriDepartment of Planning and PermittingOffice of Planning and Sustainable Development



October 11, 2022

RE: Land Use Commission Decision and Order.

Dear Mr. Morford:

Coffman Engineers, Inc. ("Coffman") has received the State of Hawai'i Land Use Commission ("LUC") Decision and Order Regarding 2022 Status Report Hearing ("Order") related to the Hawaiian Memorial Park Expansion ("Project"). Unfortunately, we cannot comply with the request to share our private internal information at the moment.

The Order requests the "design" of geotechnical boring and detention basins related to the Project be shared with a third party not in contract with Coffman. Apparently, the LUC contemplates a third party review of the design by a party not in contract with Coffman in order to identify any "oversights or errors." Even if Coffman wanted to produce such documents, Coffman does not currently have a "design" to share. Coffman has completed preliminary work product in an effort to produce a pre-final design for submission to the City and County of Honolulu as part of a Grading Permit application as contracted for by Hawaiian Memorial Life Plan. Coffman's work product in its current state is proprietary and confidential.

Moreover, Coffman's work product related to the Project is owned by Coffman. Our contract indicates that Coffman will issue Hawaiian Memorial Life Plan a nonexclusive license to use our final design in connection with the project's use.

Accordingly, Coffman declines the request to produce our private, proprietary internal work product at this point. Coffman will, however, produce such work product in its pre-final submission package to the County upon completion. Upon completion of permit review and at the point when the materials are public information, those materials will be available for review by all parties contemplated in the LUC's Order.

We look forward to our continued working relationship as the Project continues.

Sincerely,

COFFMAN ENGINEERS, INC.

Cjamisen Hinota

Jamisen Hirota, P.E. Principal Civil Engineering

BENJAMIN M. MATSUBARA CURTIS T. TABATA

MATSUBARA, KOTAKE & TABATA

Attorneys At Law A Law Corporation CHARLES R. KENDALL BUILDING 888 MILILANI STREET, SUITE 308 HONOLULU, HAWAII 96813 E-MAIL: ctabata@m-klawyers.com

October 11, 2024

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i P.O. Box 2359 Honolulu, Hawai`i 96804

Re: Annual Report to the Land Use Commission - Hawaiian Memorial Life Plan, Ltd.; LUC Docket No. A17-804

Dear Mr. Orodenker:

Pursuant to Condition No. 20 of the Findings of Fact, Conclusions of Law, and Decision, and Order ("Decision and Order") of the Land Use Commission ("Commission") in the above-entitled docket, the Petitioner hereby submits the annual report for the year 2023, regarding the (1) status of the subject project ("Project"), and the (2) progress in complying with the conditions imposed herein.

1. <u>General Progress of the Project</u>

The Decision and Order for the above-entitled docket was entered on October 13, 2020. Grading work for an unpaved roadway to move equipment to the boring sites started in August 2022 and was completed in September 2022. Geotechnical borings were completed and the Geotechnical Engineering Exploration Report was completed on August 10, 2023.

An application for a grading permit that included Construction Plans, a Drainage and Retention Basin Analysis Report, Master Grading Permit Application and the Geotechnical Engineering Exploration Report was submitted to the City and County of Honolulu, Department of Planning and Permitting ("DPP") for review of August 11, 2023. Permit plan comments were provided over the following several months and plan revisions were completed to address comments and further the design based on minor revisions to the details of the site development over the following year. Revised permit plans were resubmitted August 8, 2024. Plan review comments are currently



MERVYN M. KOTAKE (Retired)

> TELEPHONE (808) 526-9566

FACSIMILE (808) 538-3840

EXHIBIT "7"

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Two (2)

being addressed and resubmittal of the plans to continue the permit application review process is expected in early October 2024.

Based on the current status of the construction plans, the updated cost estimate for the project is approximately \$42,511,945. This estimate is subject to further revisions to the construction plans based on comments from DPP, design decisions, and contractor estimates.

Based upon the United States Army Corps of Engineers ("USACE") rules regulating "waters of the United States," the Lipalu Channel would not be a jurisdictional waterway as confirmed by the USACE's May 10, 2021 Approved Jurisdictional Determination for the Project.

Monitoring of the seep commenced in September of 2021. Monitoring is ongoing and is being conducted pursuant to Condition 12.

On September 26, 2023, Petition sent a letter and memorandum to the Commission informing it that there have been no sightings of damselfly at the seep since January of 2023. There continues to be no sighting of damselfly around the time of this annual report. Nevertheless, Petitioner is committed to following all requirements related to the seep and damselfly habitat.

Honua Consulting conducted onsite monitoring for the access road and geotechnical borings as part of the Data Recovery Plan. No significant findings were identified, and the fieldwork will be discussed in the Data Recovery Plan and detailed in the final Archaeological Monitoring Report.

The Preservation Plan will be submitted once an updated project plan is completed with the information obtained from the geotechnical information. Temporary preservation measures were installed for previously identified archaeological sites and monitored during active fieldwork. All archaeological reports will be finalized upon the completion of the final site plan and integrated with the mitigation provisions. Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Three (3)

The next major archaeological activity will take place during mass grading once the project commences.

The conservation easement was signed between the Hawaiian Islands Land Trust ("HILT") and Petitioner on June 30, 2022 and recorded at the Bureau of Conveyances, State of Hawaii on July 5, 2022.

On August 11, 2022, Petitioner and the Koʻolau Foundation signed the management agreement for the Cultural Preserve. Also on August 11, 2022, Petitioner, Service Corporation International and the Koʻolau Foundation signed the indemnification agreement to indemnify the Koʻolau Foundation in connection with the Cultural Preserve.

2. <u>Progress in Complying with Conditions Imposed</u>

Condition No. 1:

"1. <u>Representations Made</u>. Petitioner shall take and complete the actions described, including but not limited to, those described in Findings of Fact Nos. 324-370 as represented to the Commission."

Status:

SCI Guaranty

Service Corporation International ("SCI") has confirmed that the Project will begin construction upon receiving the necessary approvals in its letter dated May 1, 2020.

In its letter dated August 10, 2022, SCI confirmed that \$25,000,000.00 has been committed for the development, grading and infrastructure of Hawaiian Memorial Park, and includes the set aside of 100 interment spaces within the cultural preservation area for the benefit of the Koʻolaupoko Hawaiian Civic Club to use for traditional Hawaiian burial practices, as well as access to the cultural preservation area, and protecting and monitoring the endangered damselfly habitat.

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Four (4)

SCI has also executed an indemnification agreement dated August 11, 2022, for the benefit of the Ko'olau Foundation in connection with the Cultural Preserve.

Rockfall Mitigation

Signage warning of rockfall at the entrance of the Cultural Preserve will be developed in cooperation with the Koʻolau Foundation, Koʻolaupoko Hawaiian Civic Club and the Hawaii Islands Land Trust at the time access to the Cultural Preserve is built. Access will be through the cemetery expansion area, so the timing will be coordinated with the cemetery development. The approximately 2,200 -foot rockfall catchment/drainage ditch and chain link fence to be located up slope of the cemetery expansion area will also be built in conjunction with the cemetery expansion construction.

NPDES Permit

The National Pollution Discharge Elimination System ("NPDES") permit was issued on July 6, 2021 for the unpaved roadway work. The NPDES NGPC permit for the work related to the construction of the Hawaiian Memorial Park Expansion is under development and is expected to be approved prior to the start of construction.

Noise Permit

The grading contractor obtained a State Department of Health ("DOH") noise permit for the trail clearing grading work that was conducted to perform geotechnical borings. Another DOH noise permit will be obtained when mass grading commences.

Traffic

Austin, Tsutsumi and Associates, Inc. has completed the intersection improvement plans for the HMP Expansion for improvements at the existing HMP intersections with Kamehameha Highway. The improvements contained in the plans include striping improvements to allow two outbound lanes at the HMP side of the both the Mahinui Road and Halekou Road intersections. The two proposed lanes include a right turn lane and a shared through/left turn lane. Proposed work to include Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Five (5)

striping improvements only. Earth disturbing activities/grading are not proposed as part of these improvements, nor are repaying or expansion of any of the pavements at the intersections.

The intersection improvement plans were submitted to the State of Hawaii Department of Transportation-Highways Division for plan review on August 15, 2022, and approved on December 19, 2022, and the striping work was completed on August 2, 2023.

Archaeology

Honua Consulting has submitted its End of Fieldwork letter to SHPD dated March 11, 2022, for fieldwork conducted in accordance with the SHPD approved Data Recovery Plan. After the lab report is received and the SHPD response to the End of Fieldwork letter is received, Honua will then prepare the Data Recovery Report.

The Preservation Plan is at or near completion, and archaeological monitoring has been conducted with the geologic borings as a part of the Data Recovery Plan and will also be conducted when mass grading for the project commences.

Condition No. 2:

"2. <u>Buffer Areas</u>. Petitioner shall establish a buffer between the proposed cemetery expansion, Pohai Nani project, and other adjacent residential properties in substantial compliance with representations made to the commission and contained in the Koʻolau Poko Sustainable Communities Plan."

Status:

The buffer areas have been established by the Conservation Easement where no burials use will be permitted to occur within the buffer areas.

Condition No. 3:

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Six (6)

"3. <u>Conservation Easement and Restrictive Covenant</u>. Petitioner shall record with the State of Hawai'i Bureau of Conveyances or the State of Hawai'i Land Court, or both, as appropriate, a conservation easement and related declaration of restrictive covenant on the entirety of the 156.5-acre undeveloped portion of its Pikoiloa Tract property (TMK No. 4-5-033: 001) that limits, in perpetuity, any other future development on the property, except for the 27.5-acre portion of the property that encompasses the proposed Hawaiian Memorial Park expansion site, and the 14.5-acre portion of the property that encompasses the proposed Kawa'ewa'e Heiau cultural preserve.

A copy of the recorded conservation easement and declaration of restrictive covenant shall be submitted to the City and County of Honolulu, Department of Planning and Permitting ("DPP"), prior to the issuance of any grading permit or any other permit which involves ground disturbance.

Should the Petitioner desire to make any major changes to the conservation easement or the declaration of restrictive covenant, a request to amend the Decision and Order shall be made to the LUC. The LUC shall be the ultimate arbiter of whether a proposed change is major.

Petitioner shall formulate the easement and stewardship of the easement with a Land Trust that is accredited and in good standing with the Land Trust Accreditation Commission for the long-term management of the area."

Status:

The Grant of Conservation Easement and Declaration of Restrictive Covenants was executed between Hawaiian Memorial Life Plan, Ltd., as Grantor, and Hawaiian Islands Land Trust dba Hawaii Land Trust, as Grantee, on June 30, 2022.

The Grant of Conservation Easement and Declaration of Restrictive Covenants was recorded at the State of Hawaii Bureau of Conveyances on July 5, 2022.

Condition No. 4:

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Seven (7)

"4. <u>Landscape Plan and Tree Replacement</u>. Prior to the issuance of a grading permit, the Petitioner shall submit to the DPP, a landscape plan and schedule of planting. In consideration for the potential impact of Climate Change, within the Petition Area, the loss of mature trees, defined as having a trunk diameter of six inches or greater, shall be replaced on a one-for-one basis, at a minimum, with preferably field stock trees that will have approximately similar size canopy coverage within a reasonable period of time. The locations of replacement trees are not limited to the Petition Area."

Status:

The Landscape Plan is in the process of being finalized for submittal to DPP. A conceptual landscape plan was submitted as part of the unpaved roadway work grading permit application.

The Hawaiian Memorial Park Cemetery Expansion Project Tree Replacement Plan was finalized and completed July 2022 after receiving comments on an earlier draft by the City DPP. The Tree Replacement Plan encompasses the Petition Area.

A topographic survey of the area needed for the design work and cemetery expansion was conducted in 2021. As part of the survey work, trees having trunk diameter greater than six inches were identified in the entire Petition Area. The survey identified 4711 trees with trunk diameter of more than six inches in the Petition Area, which is comprised of 1,277 trees counted in the buffer area and 3,434 trees counted in the non-buffer area of the Petition Area. The final count of trees to be removed from the buffer area will be determined after design plans are completed identifying improvements within the buffer area.

Petitioner has begun implementation of the Tree Replacement Plan and has established a memorandum of understanding with the Ko'olau Foundation to accept 3,000 trees that will be replanted. Petitioner has also delivered 598 trees to Healthy Climate Communities for planting at Hamakua Marsh in Kailua.

Replacement tree species include, but are not limited to, `Ohi'a lehua, Hala, Alahe'e, Kau, Neneleau, Milo, Koki'o ke'oke'o, Loulu, Lonomea, Kamani, Kukui, `Ohi'a

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Eight (8)

'ai, Ulu, Noni, Orchid Tree, Monkeypod, Poinciana, Plumeria, Puakenikeni, Various Palms, and Shower Trees.

Tree planting started in 2023 and 598 trees have been delivered for planting. It is expected to take 6 years to complete.

Condition No. 5:

"5. <u>Detention Basin Analysis</u>. The Petitioner shall prepare a detailed "Detention Basin Analysis", using appropriate computer modeling software, to determine the size of the detention basins to be constructed immediately upstream of each of the existing drainage inlets that will receive runoff from the project. The inflow will be calculated based on at least a 10-year, 24-hour rainfall event and the basins shall be designed so that the outflow from each basin will be limited to the capacity of the existing downstream drainage improvements. The Detention Basin Analysis shall be submitted to DPP for approval. After the Detention Basin Analysis is approved, the detention basins shall be constructed as soon as practical after the start of grading for the project."

Status:

The Detention Basin Analysis was completed and included as part of the Drainage Report that was submitted to DPP as part of the grading permit application package. Following the permit review process, DPP has offered comments to the report over the initial and subsequent submittals and the design engineers are working to address any comments/clarify information presented by the City.

Condition No. 6:

"6. <u>Stormwater Management and Drainage Improvements</u>. Notwithstanding other conditions related to the preservation of the habitat for the endangered Hawaiian damselfly, to the extent possible, Petitioners shall implement applicable BMPs to minimize infiltration and runoff from construction and vehicle operations, reduce or eliminate the potential for soil erosion and ground water pollution, and formulate dust

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Nine (9)

control measures to be implemented during and after the development process in accordance with State Department of Health ("DOH") guidelines and City ordinances and rules.

Petitioner, shall at the start of construction, install erosion and sediment controls and retention/detention basins prior to the clearing and grubbing of the site."

Status:

An Erosion and Sedimentation Control Plan was designed as part of the Construction Documents for the HMP Expansion project and submitted to DPP for review. Following the review process, DPP has offered comments to the plan over the initial and subsequent submittals and the design engineers are working to address any comments/clarify information presented by the City.

. The erosion and sedimentation control improvements will be installed prior to the start of construction and adjusted as necessary during construction to minimize and/or eliminate soil erosion and water pollution to the extent possible as required by the City and County of Honolulu and the State Department of Health.

Condition No. 7:

"7. <u>Air Quality Monitoring</u>. Petitioners shall participate in an air quality monitoring program as required by the DOH."

Status:

It is anticipated that air quality monitoring may be required during mass grading. If so, Petitioner will perform air quality monitoring in accordance with State DOH rules and this condition.

Condition No. 8:

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Ten (10)

"8. <u>Established Access and Gathering Rights Protected</u>. Pursuant to Article XII, Section 7, of the Hawai'i State Constitution, Petitioner shall preserve any established gathering and access rights of Native Hawaiians who have customarily and traditionally used the Petition Area to exercise subsistence, cultural, gathering, and religious practice, or for access to other areas for such purposes."

Status:

Petitioner has preserved and will continue to preserve any established gathering and access rights of Native Hawaiians who have customarily and traditionally used the Petition Area to exercise subsistence, cultural, gathering, and religious practice, or for access to other areas for such purposes.

Condition No. 9:

"9. <u>Previously Unidentified Burials and Archaeological/Historic Sites</u>. In the event that historic resources, including human skeletal remains, are identified during construction activities, all work shall cease in the immediate vicinity of the find, the find shall be protected from additional disturbance, and State Department of Land and Natural Resources - State Historic Preservation Division ("SHPD") shall be contacted immediately. Without any limitation to any other condition found herein, if any burials or archaeological or historic sites are discovered during the course of construction of the Project, all construction activity in the vicinity of the discovery shall stop until the issuance of an archaeological clearance from the SHPD that mitigation measures have been implemented to its satisfaction."

Status:

Honua Consulting has been and will continue monitoring construction in accordance with the approved archaeological monitoring plan and this condition.

Condition No. 10:

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Eleven (11)

"10. <u>Relocation of Rocks</u>. Petitioner shall consult with the Cultural Preserve manager to determine whether any of the rocks that were part of the historic features should be relocated to the cultural preserve after data recovery."

Status:

Petitioner will consult with the Koʻolau Foundation to determine whether any of the rocks that were part of the historic features should be relocated to the cultural preserve after data recovery.

Condition No. 11:

"11. <u>Establishment of Cultural Preserve</u>. Petitioner shall establish the Cultural Preserve in conjunction with an appropriate Native Hawaiian group (Group). The Petitioner shall work with the community and the Koʻolaupoko Hawaiian Civic Club in order to establish a preservation and management plan for the Cultural Preserve, in perpetuity. Petitioner shall also execute the agreement with the Koʻolaupoko Hawaiian Civic Club, in the event the Koʻolaupoko Hawaiian Civic Club does not execute the agreement, then with another local Native Hawaiian Organization, to manage and steward the Cultural Preserve that supports native Hawaiian cultural practices, containing all provisions consistent with the Petitioner's representations before any work involving ground disturbance occurs.

Petitioner shall pay for or otherwise assume financial responsibility for expenses associated with capital improvements within the preserve required to fulfill the conditions set forth by the Commission for all on-going maintenance of the preserve. Petitioner shall cover reasonable expenses incurred by the Group associated with the management of the preserve, including rockfall hazard mitigation and liability."

Status:

On August 11, 2022, Petitioner and the Koʻolau Foundation signed a management agreement for the Cultural Preserve. Petitioner will pay or perform all associated capital improvements and on-going maintenance for the preserve, as well as reasonable expenses as required by this condition. In addition, Petitioner, SCI and the Koʻolau Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Twelve (12)

Foundation executed an indemnification agreement dated August 11, 2022, whereby Petitioner and SCI agreed to indemnify the Ko'olau Foundation in connection with the Cultural Preserve. On March 26th 2024 HMP, Honua Consulting and members of the Ko'olau foundation walked the Cultural Preserve area and established a general area for the Hawaiian Burial Spaces and the trail access.

Improvements to the Cultural Preserve area that include a pathway to a limited number of culturally significant sites and wayfinding and informational signage are in the design process. Permit plans for improvements within the Cultural Preserve are anticipated to be submitted for City and County Department of Planning and Permitting review in early 2025. This work is being permitted outside of the development of the cemetery expansion area. Construction of the Cultural Preserve improvements will be completed with the cemetery expansion improvements but work for the Cultural Preserve improvements will not commence until a permit authorizing work is obtained from the City and County of Honolulu.

Condition No. 12:

- "12. <u>Endangered Species</u>. Petitioners shall undertake the following:
 - a. A subsurface drainage system designed utilizing a herringbone configuration shall be implemented in the cemetery expansion area planned for fill activities above the seep. The system shall be comprised of three subsurface drainage mainlines with smaller subdrains branching laterally from them. This system will help ensure water flow to the well and seep is maintained.
 - b. A well monitoring gauge shall be installed inside the wall of the well, located upslope from the seep to monitor water levels prior to, during and after the project construction.
 - c. Before earthmoving activities begin a minimum 50-meter buffer area above the seep where there will be no grading will be established, then a temporary water line shall be extended to the well from the cemetery's irrigation system. This irrigation line will serve as a short-term means of ensuring continued water flow to the seep. If the gauge indicates water levels have declined to levels potentially affecting the seep, water from the irrigation line to the well will be provided to stabilize water levels.

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Thirteen (13)

- d. Once earthmoving activities conclude, a permanent water line shall be extended to the well from the expanded cemetery's irrigation system. This irrigation line will serve as a long-term means of ensuring continued water flow to the seep. If the gauge indicates water levels have declined to levels potentially affecting the seep, water from the irrigation line to the well shall be provided to stabilize water levels.
- e. Small sticks upright and away from the edges of the waterlogged areas shall be placed along the seep to serve as molting safe zone for damselflies to avoid predation from crawling predators.
- f. Habitat boundaries currently shown in the Final Environmental Impact Statement (FEIS) shall be reviewed during project final design based upon more accurate data collected from a topographic survey, and consultation with the State Department of Land and Natural Resources, Division of Forestry and Wildlife ("DLNR-DOFAW") and U.S. Fish and Wildlife Service ("USFWS"). Habitat boundary shall be revised as appropriate. Fencing shall be constructed around the damselfly habitat boundary to protect the native damselfly from disturbance from feral pigs. Fencing shall consist of livestock panels appropriate to exclude pigs, with lower barbed strand to resist digging.
- g. Regular inspection of the seep shall occur to ensure the present flow of water is continued.
- h. Inspection of the seep shall be conducted at monthly intervals for one year prior to construction to establish baseline water flow conditions.
- i. Monitoring shall continue during construction, with the seep area inspected on a weekly basis to evaluate water flow in coordination with BMP (erosion control) measures.
- j. Once construction concludes, monitoring shall continue for six months to ensure continued water flow to the seep. Inspections shall occur weekly for the first three months, and every two weeks for the following three months.
- k. After the six-month monitoring period elapses, HMP staff shall conduct monthly water flow inspections.

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Fourteen (14)

- At any time, if water flow is documented to be outside of the range observed in the pre-construction monitoring phase, the temporary or permanent irrigation lines shall be used to provide supplemental water to the seep. Additional mitigation measures shall be determined through consultation between the contractor, design team, DLNR-DOFAW, USFWS and other specialists.
- m. Regular inspections of the seep (at intervals described in 12a-k) shall also include surveys to ensure that non-native fish, specifically poecilid fish, are not present within this habitat area. If fish are observed, surveyors shall notify experienced biologists to ensure prompt identification, and USFWS and DLNR-DOFAW shall be consulted on what control measures can be implemented.
- n. Establish an education and outreach program to raise awareness of the existence of the blackline damselfly and habitat area on the property. The outreach shall include informing visitors to Hawaiian Memorial Park as well as members of the adjacent community. The program shall include information on restricted activities and other best practices to avoid and minimize adverse impacts to the habitat and the species."

Status:

12.a.: The herringbone drainage system has been revised based on guidance from the water resources engineer based on borings completed by the geotechnical engineer. The modified system will be installed during the construction of the HMP Expansion improvements expected to start in the Spring of 2025.

12.b.: The well monitoring gauge was installed on September 15, 2021.

12.c.: The 50-meter buffer area above the seep has been established and the temporary water line was installed in August of 2022.

12.d.: A permanent water line will be installed as a part of the HMP Expansion construction improvements.

12.e.: Small sticks are being placed along the seep to aid in molting.

12.f.: The topographic survey has been completed. Engagement with DOFAW and USFWS to review damselfly habitat boundaries has been initiated via letters sent to both agencies in July 2023. Fencing will be constructed during mass grading in coordination with a Preservation Plan developed for the seep.

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Fifteen (15)

12.g.: Seep inspection and monitoring started in September of 2021 and will continue until commencement of mass grading. This monitoring work involves monitoring of water level in the dug well, seep waterflow, the presence of fish in the seep, and rainfall.

12.h.: Monitoring of the seep was conducted monthly during the one year period from Sept 2021 – Aug 2022, which was prior to the start of clearing/grading of the Project's geotechnical access trail. Seep waterflow conditions prior to construction were documented and assessed.

12.i.: Monitoring was conducted weekly during clearing/grading of the Project's geotechnical access trail. Monitoring will also be conducted weekly during mass grading.

12.j.: Monitoring will be weekly three months after construction concludes and then every two weeks for the following three months.

12.k.: After the six month period following construction, monitoring will be conducted monthly.

12.1.: Seep waterflow was monitored during clearing/grading of the geotechnical access trail in consultation with the design team to determine if provision of supplemental water was required. Provision of supplemental water was not required during that phase of project construction. Supplemental water will be provided as required during mass grading.

12.m.: Monitoring includes surveying for fish. To date, no fish have been observed.

12.n.: An education and outreach program regarding the damselfly has been incorporated into the HMPFacts.com website. The preservation plan developed for the seep will include more information on an education program.

Condition No. 13:

"13. <u>Hawaiian Hoary Bat</u>. To avoid potential impacts to the Hawaiian hoary bat, the clearing of dense vegetation, including woody plants greater than 15 feet, along the periphery of the Petition Area shall not occur between June 1 to September 15 when bats may be carrying young and potentially could be at risk by such clearing activities."

Status:

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Sixteen (16)

Petitioner will comply. Tree cutting for the trail clearing grading needed for the exploratory borings was conducted in April of 2022. The contractor has been instructed that woody vegetation greater than 15 ft. may not be cut down from June 1 to September 15.

Condition No. 14:

"14. <u>Disposal of Waste Material</u>. Petitioner shall not dispose as waste material any clean fill at the PVT Land Company, Ltd. or any other construction and demolition landfill commercially in operation on the island of O'ahu as a result of grading work in the Petition Area.

Clean Fill is defined as "natural materials consisting of soil, clay, sand, volcanic cinder and ash, rock, and boulders measuring twelve inches or less in diameter; or a mixture or combination of such materials, which are not suspected to contain hazardous substances or concentrations of chemical contaminants of concern above the DOH's Tier I Environmental Action Levels."

Status:

Petitioner will not be disposing of any Clean Fill at the PVT Land Company, Ltd. or any other construction and demolition landfill commercially in operation on the island of Oahu as a result of grading work in the Petition Area.

Condition No. 15:

"15. <u>Community Outreach</u>. Petitioner shall establish an ongoing constructionrelated community outreach program to inform area residents and businesses of construction milestones and activities occurring on the property. In addition, the Petitioner shall establish a hotline and a dedicated email address to for immediate and prompt responses to questions, concerns or comments from the community and other stakeholders."

Status:

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai'i October 11, 2024 Page Seventeen (17)

HMPFacts.com is Petitioner's website established to facilitate ongoing community outreach. It has been active since 2017. In 2021, the website was updated to include the community outreach required by this Condition 15.

In March 2022, 1,800 letters were sent to area residents informing them of the website and that the website will contain information relating to construction, the damselfly, historic and cultural sites and project information.

The most recent construction information on HMPfacts.com was posted on August 21, 2022.The posting provided that (i) permits for geotechnical testing operations and trail clearing were obtained from the Department of Planning and Permitting, (ii) heavy equipment will be utilized to work through the trail and utilize the fell trees as part of our required erosion control and mitigation plan, and (iii) there may be areas where the trail will widen, particularly in and around the areas where the actually drilling will take place. The time frame associated with this work will begin in late August and will continue through the end of the year (2022).

HMPfacts.com also includes information relating to the damselfly. The website has a page dedicated to the damselfly and informs the community that the rare and endangered damselfly was identified on a lower section of Hawaiian Memorial Park's undeveloped property, and that the damselfly habitat is outside of the proposed cemetery development.

Damselfly history is provided in the website to educate the public on background and unique qualities of the damselfly including the following: "Native Hawaiian damselflies are a remarkable cluster of 25 species diversified from a single waif arriving in Hawai'i long ago to occupy many aquatic niches and rain holding lily and 'ie'ie leaves. The Blackline Damselfly or Rainbow-Eye Damselfly, Pinao Ānuenue, (Megalagrion nigrohamatum nigrolineatum), ranges on O'ahu from sea level to 2,400 feet. Most remarkable are their luminous, compound eyes in colors from lime to turquoise to red, this rainbow-eye damselfly is visually striking but very hard to notice. These large, wrap-around eyes give panoramic vision to easily detect and catch flying prey. The brown, 2-inch-long damselfly nymphs (babies) favor a concealed existence clinging under stones or hiding in algae masses, both in moving and quiet waters, for long intervals." Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Eighteen (18)

A description of the efforts to preserve the damselfly are also discussed on the website and provides the following: "Since the recent discovery of a small, relict, lowland population of Pinao Ānuenue on an undeveloped portion of HMP's property, the small population is being monitored and protected by several activities supported by HMP to help them remain safe. The native damselflies observed on HMP's property are seen only along a slow moving seep of water that includes an abandoned well, likely dug before 1930 during the area's use as a dairy farm. The area of HMP's property where the native damselfly are observed is outside the portion of the property where cemetery expansion improvements would occur. This area would be preserved, and a management plan will be developed to support its continued presence."

The website also provides damselfly best practices to help the public care for the damselfly with the following information:

"Best management practices that would be followed to ensure the safety of the native damselfly and preserve its habitat are listed below:

NOT releasing aquarium fish, Jackson's chameleons, or chickens which eat nymphs or adults.

NOT uprooting nearby plants or moving stones along the seep that provide shade or hold soil.

NOT removing kalo along the seep, which provide safe perches for emerging young. NOT planting vegetation at the water's edge where an emerging young native damselfly may climb for molting to adults and be vulnerable to predatory ants. NOT placing trash on the ground that can cover or divert water.

DO NOT ACCESS – No Trespassing – Hawaiian Memorial Park ("HMP") is Private Property and has "No Trespassing signs posted along with motion detection cameras. No one is permitted on HMP land without written permission from Hawaiian Memorial Park Management."

The website also has a telephone hotline and dedicated email address where the public can make inquiries to obtain information.

Condition No. 16:

"16. <u>Development Timetable</u>. Petitioner shall provide the Commission with a

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Nineteen (19)

development timetable prior to obtaining grading permits from the City."

Status:

Completion of site grading for Geotechnical Investigation trailsSeptember 2022	
Start of Geotechnical Investigation Field WorkSeptember 2022	
Completion of Geotechnical Investigation Field Work and Start of Geotechnical Investigation Report October 2022	
Completion of Permit Set of Construction Drawings including	
Grading Design, Drainage Design, Drainage Report,	
Stormwater Quality Report, Water Utility Design,	
Retaining Wall Design and Miscellaneous Details August 2023	
Completion of Geotechnical Investigation Report August 2023	
Completion of NPDES Permit Application October 2024	
Submittal of Grading Permit Application to City DPP August 2023	
Permit Review including Addressing Comment Sets August2023-January 2025	
Projected NPDES NGPC ApprovalDecember 2024	
Projected Grading Permit Approval February 2025	
Construction Items:	
Mobilization and Miscellaneous Site Orientations April 2025	
Installation of Site Best Management Practices April 202	
Start of Grading Work	
Projected CompletionFall 2026	
, <u>1</u>	

Condition No. 17:

"17. <u>Infrastructure Deadline</u>. Petitioners shall complete construction of the proposed backbone infrastructure, which consists of the primary roadways and access points, internal roadways, on- and offsite water and electrical system improvements,

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Twenty (20)

and stormwater/drainage and other utility system improvements, within ten (10) years from the date of the Decision and Order approving the Petition."

<u>Status</u>:

Petitioner anticipates completion of infrastructure by fall of 2025, well within the ten (10) year infrastructure deadline of October 13, 2030.

Condition No. 18:

"18. <u>Compliance with Representations</u>. Petitioner shall develop the Petition Area in substantial compliance with the representations made to the Commission as reflected in the Findings of Fact, Conclusions of Law, and Decision and Order. Absent substantial commencement of use of the land in accordance with such representations, the Commission shall issue and serve upon the party bound by the condition and order to show cause why the property should not revert to its former land use classification or be changed to a more appropriate classification."

Status:

Petitioner has substantially commenced developing the Petition Area in substantial compliance with the representations made to the Commission as reflected in the Findings of Fact, Conclusions of Law, and Decision and Order.

"19. <u>Notice of Change in Ownership</u>. Petitioner shall give notice to the Commission of any intent to sell, lease, assign, place in trust, or otherwise voluntarily alter the ownership interests in the Property, prior to development of the Property."

Status:

Petitioner has no intent to sell, lease, assign, place in trust, or otherwise voluntarily alter the ownership interests in the Property prior to development of the Property. Development of the Property has substantially commenced and is expected to be complete by the Fall of 2025.

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai'i October 11, 2024 Page Twenty-one (21)

"20. <u>Annual Reports</u>. Petitioner shall timely provide without any prior notice, annual reports to the Commission, the Office of Planning, and the Department of Planning and Permitting in connection with the status of the subject project and Petitioner's progress in complying with the conditions imposed herein. The annual report shall be submitted in a form prescribed by the Executive Officer of the Commission."

Status:

Petitioner has provided its annual reports dated October 13, 2021, October 13, 2022, and October 13, 2023.

"21. <u>Release of Conditions</u>. The Commission may fully or partially release the conditions provided herein as to all or any portion of the Property upon timely motion and upon the provision of adequate assurance of satisfaction of these conditions by Petitioner."

Status:

Petitioner acknowledges this condition.

"22. <u>Notice of Imposition of Conditions</u>. Within seven (7) days of the issuance of the Commission's Decision and Order for the subject reclassification, Petitioner shall: (a) record with the Bureau of Conveyances or the State of Hawai'i Land Court, or both, as appropriate, a statement that the Property is subject to conditions imposed herein by the Land Use Commission in the reclassification of the Property; and (b) shall file a copy of such recorded statement with the Commission."

Status:

Petitioner has satisfied this condition by recording the Notice of Imposition of Conditions, identified as Document No. A-75980682, with the Bureau of Conveyances on October 20, 2020.

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i October 11, 2024 Page Twenty-two (22)

"23. <u>Recordation of Conditions</u>. Petitioner shall record the conditions imposed herein by the Commission with the Bureau of Conveyances or the State of Hawai'i Land Court, or both, as appropriate, pursuant to section 15-15-92 Hawai'i Administrative Rules.

This Declaration of Conditions shall supersede the Notice of Imposition of Conditions by the Land Use Commission dated October 14, 2020 upon the recordation at the Bureau of Conveyances of this Declaration of Conditions."

Status:

Petitioner has satisfied this condition by recording the Declaration of Conditions, identified as Document No. A-76460491, with the Bureau of Conveyances on December 7, 2020.

Please do not hesitate to contact the undersigned should you have any questions or comments with respect to the matters discussed above.

Very truly yours,

MATSUBARA, KOTAKE & TABATA

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Curtis T. Tabata

cc: Office of Planning and Sustainable Development Department of Planning and Permitting Intervenor Hui O Pikoiloa c/o Grant Yoshimori Grant Yoshimori 45-464 Lipalu St Kaneohe, HI 96744

February 1, 2025

Mr. Curtis Tabata Matsubara, Kotake & Tabata 888 Mililani St, Suite 308 Honolulu, HI 96813

Dear Mr. Tabata:

NON-COMPLIANCE WITH LUC D&O A17-804

As Intervenor in the A17-804 contested case, I would like to ask for your assistance in ensuring that Hawaiian Memorial conforms to the Land Use Commission's (LUC) October 4, 2022, Decision and Order (D&O) on Docket A17-804.

In the D&O #2, The LUC ordered the following:

"Petitioner share information on the design of the geotechnical boring and detention basins with the other parties leading up to the final grading plan submittal to the County. The intent is to identify early on if there are any oversights or errors based on representations and conditions contained in the Decision and Order"

In your October 11, 2022 letter to the Commission, Coffman Engineers, Inc, (the Petitioner's engineering contractor) stated they "cannot comply with the request", and declined to share any designs until "completion of the permit review".

This is a clear refusal to comply with the LUC's D&O #2.

The October 2024 "Annual Report to the Land use Commission – Hawaiian Memorial Life Plan, Ltd.; LUC Docket No. A17-804", states that "The Detention Basin Analysis was completed and included as part of the Drainage Report that was submitted to DPP as part of the grading permit application package".

We have been trying to obtain a copy of the Detention Base Analysis as well as the grading permit. **We want to ensure our neighborhood safety by verifying that the size of the detention basins** are designed with the inflow calculated based on at least a 10-year, 24-hour rainfall event; and that the basins will be designed so that outflow from each basin will be limited to the capacity of the existing downstream drainage improvements – as per LUC's 10/13/2020 D&O Finding of Fact #277.

EXHIBIT "8"

Curtis Tabata February 1, 2025 Page 2

REQUEST

Although HMP has already submitted the final grading plan to the County thus violating D&O #2, please rectify this violation by providing us with a copy of the Detention Base Analysis and grading plan as soon as possible.

Thank you.

Sincerely,

Yh

Grant Yoshimori

CC: Benjamin M. Matsubara Jay Morford Daniel Orodenker Dawn Takeuchi Apuna Rich and Julie McCreedy John Higham
BENJAMIN M. MATSUBARA CURTIS T. TABATA MATSUBARA, KOTAKE & TABATA

Attorneys At Law A Law Corporation CHARLES R KENDALL BUILDING 888 MILILANI STREET, SUITE 308 HONOLULU, HAWAII 96813 E-MAIL <u>ctabata@m-klawyers com</u>

February 10, 2025

Grant Yoshimori 45-464 Lipalu Street Kaneohe, HI 96744

Re: Hawaiian Memorial Life Plan, Ltd.; A17-804

Dear Mr. Yoshimori:

This letter is in response to your letter dated February 1, 2025 regarding the Land Use Commission's Decision and Order Regarding 2022 Status Report Hearing, filed October 4, 2022 ("2022 Order").

To be clear, the Petitioner, Hawaiian Memorial Life Plan, Ltd., has not refused to comply with the 2022 Order. The Petitioner has complied, and will continue to comply with the 2022 Order.

With respect to the "design of the geotechnical borings and detention basins" referenced in the second paragraph on page 9 of the 2022 Order, those design documents are owned by and controlled by our engineers at Coffman Engineers ("Coffman"). The Coffman letter dated October 11, 2022 states that "we cannot comply with the request to share our private internal information <u>at the moment</u>." (emphasis added).

As stated in Coffman's letter, there is no "design" during the preliminary stages of permit review. There is only "private, proprietary internal work product" during permit review. "Permit review" includes the comment period where the City and County of Honolulu, Department of Planning and Permitting (DPP) and their associated review branches in addition to other regulatory review agencies such as the Board of Water Supply provides Coffman with comments to the preliminary documents and Coffman responds to the comments. Once all comments from authorities having jurisdiction (AHJ) as well as design modifications directed by the Owner are resolved, then the documents become a "design" of the engineer.



TELEPHONE (808) 526-9566

FACSIMILE (808) 538-3840



Grant Yoshimori February 10, 2025 Page Two (2)

Currently, Coffman and our geotechnical engineers, Geolabs, Inc., are still in the permit review with the AHJ. We are hoping that the permit review will conclude soon, but it has been a very long process. Rest assured, that the Petitioner is also very eager to conclude the permit review so that we all can have design documents that can be reviewed by Intervenors, and if Intervenors are able to find a valid engineering issue that requires correction as determined by the AHJ, then Petitioner will insist on such a correction.

The next step is to complete the permit review, at which time you will be notified of the delivery of the design documents for Intervenors' review. We assume that you want the design documents to be delivered to your engineer, John Higham. This review by the Intervenors will be conducted prior to final submission of the grading plans for signatures by the AHJ. Therefore, there has been no submission of the "final grading plans" as referenced in your letter. Grading plans are not final until approved, and approval has not yet occurred.

Furthermore, we are aware that Mr. Higham was provided a review of the preliminary documents by the DPP, and that Mr. Higham produced a list of questions/comments to DPP regarding the preliminary documents that related to flow and the detention basins. We are, however, unaware of any responses to those questions/comments. Therefore, Coffman will be providing written responses to Mr. Higham's questions, and those responses will be delivered to you and Mr. Higham.

Please do not hesitate to contact the undersigned should you have any questions.

Very truly yours,

MATSUBARA, KOTAKE & TABATA

Civit 7. Tabata

Curtis T. Tabata

Grant Yoshimori February 10, 2025 Page Three (3)

cc: Benjamin M. Matsubara, Esq. Jay Morford, President, Hawaiian Memorial Life Plan, Ltd.
\/Daniel Orodenker, Executive Officer, Land Use Commission Dawn Takeuchi Apuna, Director, Department of Planning and Permitting, City and County of Honolulu Richard and Julie McCreedy John Higham Mary Alice Evans, Director, Office of Planning and Sustainable Development, State of Hawai`i Alison Kato, Esq., Deputy Attorney General, Department of the Attorney General, State of Hawai`i Pono Arias, Esq., Deputy Corporation Counsel, Corporation Counsel, City and County of Honolulu

LAND USE COMMISSION

Komikina Hoʻohana ʻĀina

DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM Ka 'Oihana Ho'omōhala Pā'oihana, 'Imi Wai wai a Ho'omāka'ika'i

235 S. Beretania Street, RM 406, Honolulu, Hawai'i 96813 Mailing Address: P.O. Box 2359, Honolulu, Hawai'i 96804 Email Address: dbedt.luc.web@hawaii.gov

March 12, 2025

Mr. Curtis Tabata Matsubara, Kotake & Tabata 888 Mililani St, Suite 308 Honolulu, HI 96813

Grant Yoshimori 45-464 Lipalu Street Kaneohe, HI 96744

SUBJECT: A17-804 Hawaiian Memorial Life Plan, Ltd. 2025 Status Report

Dear Mr.Tabata and Mr.Yoshimori:

On February 4, 2025, we received a letter from Mr. Yoshimori ("Intervenor") indicating non compliance with Condition No. 2 of the Land Use Commission's 2022 Decision and Order. Condition No. 2 requires:

Petitioner share information on the design of the geotechnical boring and detention basins with the other parties leading up to the final grading plan submittal to the County. The intent is to identify early on if there are any oversights or errors based on representations and conditions contained in the Decision and Order

As represented in the 2024 Annual Report for A17-804 Hawaiian Memorial Life Plan, the Detention Basin Analysis was completed and included as part of the Drainage Report that was submitted to the City and County of Honolulu Department of Planning and Permitting ("DPP") as part of the grading permit application package.

According to the letter from the Intervenor, on February 4, 2025, Intervenor has been trying to obtain a copy of the Detention Basin Analysis as well as the grading permit, pursuant to Condition No. 2 of the 2022 Decision and Order, but has been unsuccessful.

In a letter dated February 12, 2025, from Curtis Tabata ("Petitioner's Counsel"), Petitioner's Counsel represents that Hawaiian Memorial Life Plan, Ltd., has not refused to comply with the 2022 Order, but represents that design documents are owned by and



SYLVIA LUKE LT. GOVERNOR

DANIEL ORODENKER LUC EXECUTIVE OFFICER

 Telephone:
 (808) 587-3822

 Fax:
 (808) 587-3827

 Website:
 luc.hawaii.gov

A17-804 Hawaiian Memorial Life Plan, Ltd. 2025 Status Report March 12, 2025 Page 2

controlled by engineers at Coffman Engineers, and can't be shared prior to permit review at DPP.

The Land Use Commission is scheduling a Status Report on May 21, 2025, concerning compliance with Condition No. 2, of the 2022 Decision and Order.

Should you have any questions, please contact our office at (808) 587-3822 or via email at <u>dbedt.luc.web@hawaii.gov</u>.

Sincerely,

& Or

Daniel Orodenker Executive Officer Land Use Commission State of Hawai'i

CC: Benjamin M. Matsubara, Esq. Dawn Takeuchi Apuna, Director, Department of Planning and Permitting, City and County of Honolulu Mary Alice Evans, Director, Office of Planning and Sustainable Development, State of Hawai'i Alison Kato, Esq., Deputy Attorney General, Department of the Attorney General, State of Hawai'i Pono Arias, Esq., Deputy Corporation Counsel, Corporation Counsel, City and County of Honolulu Hui O Pikoiloa, an Unincorporated Association Richard and Julie McCreedy BENJAMIN M. MATSUBARA CURTIS T. TABATA

MATSUBARA, KOTAKE & TABATA

Attorneys At Law A Law Corporation CHARLES R. KENDALL BUILDING 888 MILILANI STREET, SUITE 308 HONOLULU, HAWAII 96813 E-MAIL: ctabata@m-klawyers.com

April 7, 2025

Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i 235 S. Beretania Street, Rm 406 Honolulu, Hawai`i 96813

Re: A17-804 Hawaii Memorial Life Plan, Ltd.; 2025 Status Report

Dear Mr. Orodenker:

This letter is in response to your letter dated March 12, 2025 in connection with the above-referenced matter, and a follow-up to my letter to Grant Yoshimori dated February 10, 2025.

First, the Petitioner's engineers, Coffman Engineers, Inc. ("Coffman"), has agreed to produce the grading permit application submissions. Coffman's letter dated April 7, 2025 regarding the grading permit application submissions is enclosed with this letter, along with a CD of the grading permit application submissions documents. We do not have the mailing addresses for John Higham and Richard and Julie McCreedy, so we are sending two extra copies of the CD to Mr. Yoshimori for distribution to Mr. Higham, and Richard and Julie McCreedy.

My understanding is that the grading permit application submissions contains the detention basin analysis, geotechnical information and grading permit application that was requested by Mr. Yoshimori. Given that the production of these documents is the sole subject matter of the status report hearing scheduled for June 18, 2025, it is Petitioner's position that the subject matter is now moot and the status report hearing should be taken off the calendar.

Second, we are also enclosing Coffman's letter, also dated April 7, 2025, responding to questions and comments that Mr. Higham emailed to DPP in September of 2023 based on Mr. Higham's review of the grading permit application submissions.

MERVYN M. KOTAKE

(Retired)

FACSIMILE (808) 538-3840



Mr. Daniel E. Orodenker, Executive Officer Land Use Commission, State of Hawai`i April 7, 2025 Page Two (2)

Please do not hesitate to contact the undesigned should you have any questions or comments.

Very truly yours,

MATSUBARA, KOTAKE & TABATA

Curto T. Tabata

Curtis T. Tabata

Enclosures

cc: Intervenor Hui O Pikoiloa c/o Grant Yoshimori

Benjamin M. Matsubara, Esq.

Jay Morford, President, Hawaiian Memorial Life Plan, Ltd.

Dawn Takeuchi Apuna, Director, Department of Planning and Permitting, City and County of Honolulu

Richard and Julie McCreedy

John Higham

Mary Alice Evans, Director, Office of Planning and Sustainable Development, State of Hawai'i

Alison Kato, Esq., Deputy Attorney General, Department of the Attorney General, State of Hawai`i

Pono Arias, Esq., Deputy Corporation Counsel, Corporation Counsel, City and County of Honolulu



April 7, 2025

Jay Morford, President Hawaiian Memorial Life Plan, Ltd. 1330 Maunakea Street Honolulu, HI 96817



Re: Land Use Commission Decision and Order

Dear Mr. Morford:

Coffman Engineers, Inc. ("Coffman") has received the State of Hawaii Land Use Commission ("LUC") letter dated March 12, 2025 scheduling a Status Report on May 21, 2025, which has been rescheduled to June 18, 2025, concerning compliance with paragraph 2 of the 2022 Decision and Order.

As stated in our letter dated October 11, 2022, Coffman had declined to provide its preliminary work product until after the project had completed the permit review phase. At this point, prior to final signatures being provided by the City and County of Honolulu, the documents would be in a pre-final design state as part of the typical Grading Permit/Site Development Application process. This pre-final design would then be available to all parties for review, and we had assumed that this approach was acceptable.

Mr. Yoshimori's letter dated February 1, 2025 and the LUC's letter dated March 12, 2025, however, indicate that our original approach is not acceptable to Mr. Yoshimori and that our preliminary work product should be provided to all parties prior to the conclusion of permit review.

Coffman will provide the preliminary work product to Hawaiian Memorial Park at this time. These plans and reports have been sent to the Department of Planning and Permitting ("DPP") as the Grading Permit application submission. The Grading Permit application submission is subject to anticipated additional data from the Geotechnical Engineer, and comments from DPP and revisions by Coffman. Please note that some of these files are from different submittals to DPP as not all of the files have been requested to be updated or have yet to be updated.

We reiterate that the preliminary work product, which is also known as the Grading Permit application submissions, is confidential and proprietary and is not a "design" of Coffman, as was explained in my October 11, 2022 letter. It is being provided for the purpose of compromise and avoiding further LUC action.

We look forward to our continued working relationship as the Project continues.

Sincerely,

COFFMAN ENGINEERS, INC.

Jamisen Hinstr

Jamisen Hirota, P.E. Principal, Civil Engineering



April 7, 2025



Mr. John Higham john.higham@towerdevcon.com Ph. 808-291-8380

Mr. Higham,

It is our understanding that the following comments were provided to Franz Kraintz at the City and County of Honolulu, Department of Planning and Permitting, Community Planning Branch after review of the initial Hawaiian Memorial Park Expansion permit application submittal package. Please note these plans were preliminary at that point in time and remain in development as the plans continue to be reviewed by the City and County of Honolulu at this time. Final plans have not been issued for signature by the City and County of Honolulu as of the date of this letter.

Regarding comments provided, please see the attached responses:

1. The Preliminary Engineering Report, dated January 2018, which was part of the submittal to the LUC, estimated that the runoff into the subdivision from the existing predevelopment HMP site, during a 10-yr 1-hr storm, would be 106.0 cfs (which does not include 4.2 cfs from a small portion that currently runs off to the HMP property and not into the subdivision).

Acknowledged, however, the Preliminary Engineering Report is dated August 10, 2018 in the final EIS.

It should be noted that the 2018 Preliminary Engineering Report (PER) was preliminary as the name suggests, and a full design and thorough analysis of a complete design is not included in nor the intent of a PER. A PER is a planning document intended to help a Client and/or entitlement reviewer make decisions based on preliminary recommendations to improve a site. Analysis is conducted of the existing site condition using readily available information and to assess the feasibility of potential improvements including rough order of magnitude opinions of probable cost of those improvements. Based on information provided in the PER, decision makers can make informed choices about whether to proceed with the project. Once the decision to move the project forward is made, a design consultant will obtain better data to draw results from, and design reports are produced. A PER would not be sufficient to design from nor would a design consultant want to design from a PER report. The design of a project does inherently progress between a PER and design documents as due diligence uncovers new items and Owners have a chance to adjust design as the project develops. The 2018 PER, while completed to the best of the engineer's ability and was the best

information available at that time, is refined and updated with time based on new information including a detailed topographic survey and a more detailed hydrologic model. The current design documents, which builds upon the 2018 PER, should be utilized for a more accurate interpretation of documented information gathered through the design process.

2. The Drainage Report and Detention Basin Analysis, dated August 2023, estimated that in the proposed, after development condition, the same storm would generate 167.03 cfs (see Table 1, on page 10).

Current analysis from the Drainage Report and Detention Basin Analysis, dated October 2024, shows that a 10-year, 1-hour storm for the proposed condition to generate approximately 156.11 cfs that would leave the site and be directed toward receiving inlets near the back of the Pikoiloa Subdivision. The same analysis for a 10-year, 24-hour storm as requested by the intervener, shows that the proposed condition is expected to generate 165.90 cfs that would leave the site and be directed toward the receiving inlets near the back of the Pikoiloa Subdivision.

3. Isn't DPP's current practice to require proposed developments not to exceed the predevelopment runoff? If so, shouldn't this development be required to limit the post development runoff to 106 cfs? Allowing what would be a little over a 50% increase in runoff in this area where flooding is already a concern doesn't seem appropriate to me. (I did not see any calculations in the Drainage report that showed the runoff from the 10-yr, 1-hr storm from the Pre-Development site, so I used the figure from the PER.)

Current analysis from the Drainage Report and Detention Basin Analysis, dated October 2024, shows that a 10-year, 1-hour storm for the existing condition is expected to generate approximately 151.70 cfs that would leave the site and be directed toward receiving inlets near the back of the Pikoiloa Subdivision. The same analysis for a 10-year, 24-hour storm as requested by the intervener, shows that the existing condition is expected to generate 211.46 cfs that would leave the site and be directed toward the receiving inlets near the back of the Pikoiloa Subdivision.

Related to the development of a site and hydrologic criteria, Storm Drainage Standards by the Department of Planning and Permitting, City and County of Honolulu dated August 2017, Part I – Hydrologic Criteria, Section B, Subsection 3, states that "For drainage areas where downstream capacities are inadequate to accommodate runoff quantity identified above, runoff shall be limited to predevelopment conditions or as specified in the General Conditions."

To comply with this condition, Pikoiloa Subdivision as-builts were obtained and design runoff rates to the Pikoiloa Subdivision were researched. Based on the asbuilts for the subdivision, the Pikoiloa drainage system was designed to accept a combined total of 259.1 cfs (10-year 1 hr storm) of runoff from the contributing areas upstream of the four receiving inlets located behind the homes and roads of the Pikoiloa development. Drainage analysis shows the proposed flows from the proposed Hawaii Memorial Park Expansion to each existing inlet will be less than the existing Pikoiloa drainage system was designed to accept. The total runoff from the proposed Hawaii Memorial Park Expansion contributes 151.70 cfs (10 year-1 hr storm) to the four existing inlets behind the homes and roads in the Pikoiloa Development.

To summarize findings in the Drainage Report and Detention Basin Analysis, dated October 2024 see the table below:

Drainage Area	Existing	Proposed	Flow	Existing	Proposed	Flow	Existing	Below
	Conditions	Conditions	Reduction	Conditions	Conditions	Reduction	MS4 Inlet	available
	Flow Rate	Flow Rate	from	Flow Rate	Flow Rate	from	Design	Drainage
	(cfs)	(cfs)	Existing	(cfs)	(cfs)	Existing	Flow Rate	System
	(24hr	(24hr	to	(1hr	(1hr	to	(cfs)	Capacity?
	storm)	storm)	Proposed	storm)	storm)	Proposed	(1hr	
			Condition			Condition	storm)	
1	10.45	9.55	Yes	7.30	6.77	Yes	10.9	Yes
2	(to Kawa Stream)							
3	28.71	15.32	Yes	18.10	10.91	Yes	25.2	Yes
4	10.01	9.90	Yes	7.79	7.60	Yes	18.7	Yes
5	162.32	131.13	Yes	118.49	130.83	No	159.0	Yes
Totals	222.50	174.75		158.50	161.16		213.8	Yes

Flow Rate to Pikoiloa Subdivision:

The associated drainage maps are presented below:

Existing Condition:



Proposed Condition:



The engineering team is designing a project that complies not only with the current design guidelines that are imposed upon any project on this island by City and County of Honolulu but also the extend conditions that were put in place by the State of Hawaii Land Use Commission. The design meets the Standard of Care expected for any design project, and the project site and residents below the project site are getting a proposed improvement in the Hawaiian Memorial Park Expansion that will at worst, have no impact from their current condition or most likely, will better their condition from the condition if the project were not constructed. The runoff that flows to the back of the houses is picked up by the small swales installed by the Developer of their subdivision is reduced in almost all instances in areas where we can affect drainage by grading. The designers acknowledge that certain areas were not improved due to limititations of the Damselfly setback or in areas where disturbances were limited/removed to keep improvements outside of the 150-setback.

4. The online FIRM base map shows a variety of Flood Zones over the Kawa stream, its tributary and the adjacent downstream areas all the way to Kaneohe Bay. The HMP site is in Zone D (Unstudied Areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase apply, but coverage is available in participating communities.) Although the upper reaches of the Pikoiloa Subdivision drainage collection system may, or may not, be at capacity, the downstream system including the areas adjacent to Kawa stream are clearly exceeding their capacity. Wouldn't it potentially make the flooding worse on both sides of Kaneohe Bay Drive along Kawa Stream, if DPP allows any increase in the upstream runoff from the currently calculated 106.0 cfs?

As previously discussed, proposed runoff is all within allowable and designed for receiving drainage system capacities.

5. Another calculation that seems "out of balance" is the runoff shown in Appendix IV from the Pikoiloa As-Builts. It appears to indicate that the runoff flowing from the HMP property, into the subdivision below (from Drainage Areas 1, 3, 4 & 5), for a 10 yr, 1 hr storm, is 259.1 cfs. This information is also shown in Table 1 on Page 10 of the Drainage Report as the "Existing MS4 Inlet Design Flow Rate (cfs) (1 hr storm). Yet in the PER, the runoff from the same storm is shown as 106.0 cfs and in the Drainage Report (Table 1 on page 10) it is calculated to be 167.03 cfs for the same 1-hr storm. Something seems "off" in the spread of these three calculations (106 cfs to 259.1 cfs) for the same storm. In fact, in the Drainage Report (Table 1, page 10) it calculates the "Existing Condition Flow Rate (cfs) (24-hr storm) as 220.80 cfs. How can the runoff from a 10 yr, 1 hr storm (as per the As-Builts) of 259.1 cfs be more that the runoff from a 10-yr, 24 hr storm of 220.80 cfs, both for the existing condition? I am sure there are reasons/explanations but I have not had time to find them.

The criteria and methods used by the designers of the Pikoiloa Subdivision to determine runoff rates and volumes is not available through the records retained by DPP. However, the Pikoiloa Subdivision drainage system design and implemented constructed improvements allow for a larger runoff flow and volume than the HMP Expansion site will contribute to the Pikoiloa basin and its existing inlets. This allows for the proposed HMP Expansion runoff to be distributed to the Pikoiloa system without overburdening the existing constructed infrastructure.

As previously noted, the 2018 PER, while completed to the best of the engineer's ability and was the best information available at that time, is now outdated based on new information including a detailed topographic survey and should not be considered. The 2018 PER is not a design document and did not support any of the design engineering for the project. The current drainage report for the HMP Expansion was put together to follow the current City and County of Honolulu Storm Drainage Standards, submitted for initial review, and has been revised and continues to be reviewed for compliance.

Please note, the flow rates shown are the peak discharge rates from any one design storm event. Often mischaracterized by non-engineers, a 1-hour storm event will have a higher peak discharge rate due to the intense short-duration rainfall, whereas a 24-hour storm, while having a longer duration, may have a lower overall intensity, leading to a lower peak discharge. It should be noted that a 24-hour storm event will likely have a higher total volume of runoff due to the duration of the storm. This understanding applies when a 1-hour and a 24-hour storm event are compared at the same recurrence interval (10-year in this case).

6. Six water quality basins are proposed, two of which appear to be outside of the limits of grading. All of them appear to be eliminated after the construction is completed. I know that that is the normal process but in an area where there is already downstream flooding, would it be possible to require the developer to leave the water quality basins to help improve an already bad situation? He has already spent the money to create them. Why spend more money to cover them up? I think it would go a long way to show that they are really trying to be a "good neighbor"!

The basins in the erosion and sedimentation control plans are provided for erosion and sedimentation control during construction and are not intended for post construction implementation. Many are located in areas that would interfere with proposed drainage and/or site improvements and are not feasible to remain nor would they provide much benefit.

To comply with Condition 5 of the LUC D&O, a Detention Basin Analysis was completed under both a 10-year 1-hour and a 10-year 24-hour storms and is included in the Drainage Report for the project. A permanent detention basin is included as part of the improvements for Hawaiian Memorial Park Expansion project. The detention basin is proposed to be located upstream of the Lipalu Street intake structure and will provide 63,647 cubic feet of storage. The proposed detention basin will attenuate the flow of runoff leaving the site at the Lipalu Street intake structure to be less than the calculated intake capacity of the intake and much less than the noted capacity of the intake structure and drainage system as represented in the Pikoiloa Subdivision as-builts.

Hawaiian Memorial Park has worked to accommodate their neighbors by offsetting burials a minimum of 150 feet off shared property lines in addition to providing drainage improvements immediately upstream of neighboring properties. These improvements include reducing the size of contributing land areas directing stormwater runoff toward the back of the Pikoiloa Subdivision; thus, reducing the overall runoff flow and volume to the receiving inlets located in the Pikoiloa Subdivision. As previously mentioned, the project site and residents below the project site are getting a proposed improvement in the Hawaiian Memorial Park Expansion that will at worst, have no impact from their current condition or most likely, will better their condition from the condition if the project were not constructed. The runoff flows to the back of the houses that are picked up by the small swales installed by the Developer of their subdivision are reduced in almost all instances in areas where we can affect drainage by grading. The designers acknowledge that certain areas were not improved due to either being located in the Damselfly setback or in areas where disturbances were limited/removed to keep improvements outside of the 150-setback. Further, projected runoff from the proposed development has been reduced to all receiving inlet structures in the 10year, 24-hour storm event. Projected runoff from the proposed development has been reduced to all receiving inlet structures except the Lipalu Street inlet in the 10year, 1-hour storm event. Even with the projected increase at the Lipalu Street inlet, the increase is still 17.3% less than the existing inlet can accept hydraulically and 36.0% less than the receiving storm drainage system is designed and constructed to accept per the Pikoiloa Subdivision as-builts.

Thank you for your interest in the project.

Sincerely, COFFMAN ENGINEERS, INC.

Gamigen Hinster

Jamisen Hirota, P.E. Principal, Civil Engineering