

Appendix E
Programmatic Agreement

DRAFT PROGRAMMATIC AGREEMENT
AMONG THE
NATIONAL PARK SERVICE HAWAI'I VOLCANOES NATIONAL PARK; U.S.
GEOLOGICAL SURVEY; HAWAI'I STATE HISTORIC PRESERVATION OFFICER;
AND THE ADVISORY COUNCIL ON HISTORIC PRESERVATION;
REGARDING
Disaster Recovery at Hawai'i Volcanoes National Park Post-2018

WHEREAS, in May 2018, the Hawai'i Volcanoes National Park (HAVO), administered by the National Park Service (NPS), and Kīlauea summit underwent a major change as magma drained from the chamber beneath Halema'uma'u crater, and the caldera began to collapse, triggering 60,000 earthquakes and clouds of rock and ash that did not cease until early August. Strong seismic activity continued through the summer and was primarily centered on the crater and significantly damage buildings in the immediate vicinity on Uēkahuna Bluff, including Jaggar Museum (an NPS visitor center) and the Reginald T. Okamura (Okamura) Building and the adjacent Geochemistry Annex (Annex) building (both operated by the U.S. Geological Survey [USGS] Hawaiian Volcano Observatory [HVO] as research facilities), resulting in the current closure of the area; and

WHEREAS, the NPS proposes to address the damage to visitor and scientific facilities through the relocation of services and the demolition of damaged structures, which constitutes an undertaking subject to the requirements of Section 106 of the National Historic Preservation Act (NHPA) (54 United States Code 306108); and

WHEREAS, the elements of the project, which will all occur within the summit area of Hawai'i Volcanoes National Park, include 1) demolishing the damage facilities (the Jaggar Museum, the Okamura building and the Annex building), installing an unimproved trail section along the caldera edge from the viewing platform to the north to connect back to the paved Crater Rim Trail just before the triangulation marker which will require removing an eight foot section of the non-historic 1986 viewing platform wall addition, and repairing visitor use amenities at Uēkahuna, 2) replacing the HVO research facilities with a new field station adjacent to the historic ball field at the Kīlauea Military Camp (KMC), 3) replacing the visitor center function with a new building next to the Kīlauea Visitor Center (KVC), 4) realigning Crater Rim Drive (CRD) at the park entrance to follow a previous (pre-1963) alignment to improve visitor safety, with the addition of a new access road to the proposed new visitor center and the introduction of a roundabout, and 5); deconstructing the following three buildings in the Resources Management (RM) complex: building 217 - the Vegetation Management office (built post-1978), building 321 - the turtle office (built post 1988), and B322 Resource Management Administration office (built post 1988); and

WHEREAS, the NPS and the USGS are each responsible for actions as part of the disaster recovery effort, with the USGS responsible for funding and building the new HVO field station and the NPS responsible for funding and building/deconstructing the remainder of the project, and the USGS and the NPS agree that the NPS will be the lead agency for purposes of Section 106; and

WHEREAS, the NPS has determined that the undertaking may have an adverse effect on historic properties, including the Kīlauea summit area; the Crater Rim Historic District, the KMC Historic District; and the Kīlauea Administration and Employee Housing Historic District, TMK: (3) 9-9001:001 Kapāpala, Ka‘ū, Hawai‘i; and

WHEREAS, the NPS has consulted with the Hawai‘i State Historic Preservation Officer (SHPO) to identify the area of potential effects (APE) and historic properties within the APE (Appendix A); and

WHEREAS, the NPS has invited the Advisory Council on Historic Preservation (ACHP) to participate in the development of this Agreement, and the ACHP has agreed to participate; and

WHEREAS, the NPS has invited the Historic Hawai‘i Foundation (HHF) to participate in the development of this Agreement, and HHF has agreed to participate as a Concurring Party; and

WHEREAS, the NPS sent the Office of Hawaiian Affairs (OHA) information on the proposed project in May 2020, but no response was received. An OHA representative has attended many of the regularly occurring Kūpuna group meetings disclosed in Appendix B, Number 7; and

WHEREAS, the NPS sent letters to additional Native Hawaiian Organizations (NHOs) on the U.S. Department of the Interior (DOI) List of Native Hawaiian Organizations, Native Hawaiian individuals, and the HAVO Kūpuna group, providing information on the proposed project in May 2020. The Kūpuna group consists of NHOs, Native Hawaiian individuals, and select individuals with institutional knowledge of Hawai‘i Volcanoes National Park. The NPS continues to engage the HAVO Kūpuna group regarding this undertaking during regularly occurring consultation meetings; and

WHEREAS, the NPS informed the general public through a document distributed in May 2020 that presented the actions and alternatives to be considered. The public also had an opportunity to comment on this Agreement through a posting on the NPS’ Planning, Environment and Public Comment (PEPC) website during the period of July 1 through July 31, 2022; and

WHEREAS, maps of the APE are provided in Appendix A. The APE includes park entry points, where the road will be widened and a vehicle calming feature introduced on CRD between the current entrance off of Highway 11 and the KVC parking area (17.78 acres); a portion of the Kīlauea Administration and Employee Housing Historic District (approximately 1.94 acres); the KMC ball field (1.56 acres) and its access point; the summit area of Jaggar Museum with its associated buildings—the Annex building and the newer Okamura building adjacent to the existing comfort station (approximately 2.4 acres of disturbance with buffer); and, finally, the Resources Management area (approximately 0.36 acres). The total area of the APE is ~ 24.04 acres; and

WHEREAS, the NPS has determined that it is appropriate to develop a Programmatic Agreement (Agreement) in accordance with 36 Code of Federal Regulations (CFR) § 800.14(b), including 800.14(b)(1)(ii), which recognizes that a Programmatic Agreement may be used when effects on historic properties cannot be fully determined prior to approval of an undertaking; and

NOW, THEREFORE, the NPS, USGS, SHPO, and ACHP mutually agree that the undertaking shall be implemented in accordance with the following stipulations in order to take into account the effect of the undertaking on historic properties.

STIPULATIONS

The NPS and USGS shall ensure that the following measures are carried out:

CONSULTING PARTIES

In accordance with 36 CFR § 800.3(c) (3), should the NPS receive written requests of individuals and organizations to participate as Consulting Parties during the term of this Agreement, the NPS shall consider each request and, in consultation with the SHPO, identify additional Consulting Parties.

The NPS will provide the Consulting Parties with the address and contact information for the individual/office within the NPS that will receive comments under this Agreement.

The NPS will maintain a list of Consulting Party contacts and will provide this list to the SHPO and other Consulting Parties upon request and in its annual reporting under this Agreement.

MEASURES TO AVOID, MINIMIZE, OR MITIGATE ADVERSE EFFECTS ON HISTORIC PROPERTIES

The NPS will perform the following measures to avoid, minimize, and mitigate adverse effects on historic properties.

I. Research and Documentation

A. National Registers of Historic Places

The NPS shall complete the following National Register of Historic Places (National Register) nominations:

- i. An updated Crater Rim Historic District nomination, to incorporate historic resources identified in the 2006 Crater Rim Historic District Cultural Landscape Inventory (CLI) report, the 2009 Hawai'i Register of Historic Places listed Crater Rim Drive Historic District, and the 2007 Crater Rim Drive Historic District National Register nomination, and to reflect changed conditions as a result of the 2018 eruption and the Disaster Recovery project, including an evaluation of the park's RM complex, and any changes subsequent to the original drafting of the CLI and National Register Nomination;
- ii. *A Kīlauea Administrative and Employee Housing Historic District* nomination, based primarily on the Cultural Landscape Inventory report prepared in 2006. The nomination will reflect changes to the conditions of the district as a result of the Disaster Recovery project.

1. The preparation of these two nominations will begin upon execution of this Agreement and shall be conducted by or under the supervision of individuals who meet the Secretary of the Interior's (SOI) Professional Qualifications Standards for history or architectural history (36 CFR § 61).
 2. Within 5 years of the execution of this Agreement, the NPS shall provide copies of each draft nomination to the SHPO, ACHP, and the Consulting Parties for a 30-calendar day review and comment period, subject to restrictions on sensitive information in accordance with NHPA Section 304.
- B. The NPS shall take all comments into consideration, finalize the revised nominations, and submit the nominations for listing on the National Register of Historic Places in accordance with 36 CFR § 60 within six months of receiving comments on the first draft. Traditional Cultural Properties

The NPS shall conduct a Traditional Cultural Property (TCP) study to document the ethnographic significance of HAVO, including the Kīlauea Summit and Caldera. The documentation shall focus on Pelehonuamea and her physical representations within the park.

- i. The TCP study shall result in a report.
 1. The TCP study will employ best practices in ethnographic research guided by NPS Director's Order-28, National Register Bulletin 38, and the Hawai'i State Ethnographic Inventory Guidelines where applicable.
 2. The TCP study methods will be developed in cooperation with Native Hawaiian individuals and NHOs, including the HAVO Kūpuna group, and the SHPO. NPS will begin developing methods upon the execution of this Agreement and shall provide a draft of the proposed methods within 30 days of the execution of this Agreement for a 30-calendar day review and comment period to all of the Consulting Parties and the Native Hawaiian participants. Should parties disagree on the proposed methods, the NPS shall take into consideration comments received, distribute revised proposed methods, and provide all above parties an additional 30-calendar day review and comment period.
 3. Following the review and comment period, the NPS will begin developing the TCP study report and shall provide copies of the draft TCP study report to the SHPO, ACHP, and all of the Consulting Parties within two years and six months of the execution of the Agreement for a 60-calendar day review and comment period.
 4. The NPS shall take all comments into consideration, discussing with the Consulting Parties as needed, and finalize the TCP study report within 120 calendar days of the Consulting Parties review and comment period.
 5. The NPS shall provide copies of the final TCP study report to all of the Consulting parties upon request.
- ii. Following the finalization of the TCP study report, NPS will begin preparing a draft NRHP nomination for all TCPs identified within HAVO based on the TCP study report findings.

1. The NPS shall provide copies of the draft nomination to the SHPO, ACHP, and all Consulting Parties within 3 years of the finalization of the TCP study report for a 60- calendar day review and comment period, subject to restrictions on sensitive information in accordance with NHPA Section 304.
2. The NPS shall take all comments into consideration, discussing with the consulting parties as needed, and finalize the nomination within a 120-calendar day period.
3. Upon completion of the nomination, the NPS shall submit the nomination to the for listing on the National Register of Historic Places in accordance with 36 CFR § 60.

C. Historic American Landscape Survey

Upon execution of this agreement, the NPS will begin documenting the existing landscape at the Kīlauea summit, including buildings and structures that will be removed from the summit area. This documentation will be included in a Historic American Landscapes Survey (HALS) documentation package that will meet NPS HALS documentation requirements. The details of the history of landscape change, including building changes and the viewing platform at the summit, will be covered in the HALS documentation.

- 1 The NPS will provide a copy of the completed HALS documentation package to the Consulting Parties within 15 months of the execution of this agreement for a 30-calendar day review and comment period.
- 2 The NPS will take into account any comments provided by the Consulting Parties within the review and comment period. NPS shall finalize the HALS documentation package within 18 months of the execution of this agreement will submit it to the Regional NPS Heritage Documentation Programs (HDP). The NPS shall provide copies of the final HALS documentation package to the Consulting Parties upon request.
- 3 The NPS shall not initiate demolition of infrastructure at the Kīlauea summit until the HDP accepts the HALS documentation package by the HDP and provide copies of the acceptance letter to the Consulting Parties. Additionally, copies of the written acceptance and final HALS documentation shall be provided to SHPD via HICRIS Project Number 2021PR00143.

II. Project Review and Design Standards

A. Design Standards for New Construction

In keeping with the intent of the SOI's Standards for Rehabilitation (36 CFR § 67.7), the NPS and USGS shall ensure that new construction in historic districts is differentiated from old construction and is compatible in massing, size, scale, and architectural features to protect the historic integrity of the district and its environment. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic district and its environment would be unimpaired.

The NPS and USGS shall ensure that new construction and building design elements are guided by the draft design documents that have been created for this project (will be included Appendix D of this PA when complete). This may include the façade of mortared stone

building elements, horizontal wooden siding, wood-framed windows, and double-hung casement windows. The reuse of on-site (from within HAVO) and similar building elements is to be encouraged. Appendix C includes the material sample boards that reflect the materials chosen for the design standards.

B. Project Design Review

1. For the new construction, the NPS and USGS provided 60% design plans to the Consulting Parties on January 28, 2022. The NPS and USGS provided 90% design plans to the Consulting Parties on June 10, 2022. Consulting Parties had a 14-calendar day review and comment period for both the 60% and the 90% design plans. The material sample boards were provided to the Consulting parties for review on May 17th, 2022.
2. The NPS and USGS shall take all comments into consideration in finalizing the design plans. If the NPS and/or USGS make substantive changes from the 90% design plans in finalizing the design, the NPS will provide the final design plans to all Consulting Parties for an additional 14-calendar day review and comment period and take into consideration any major comments about substantive changes in finalizing the design.
3. The NPS and USGS shall take all comments from the final review and comment period into consideration when finalizing the design and will notify the Consulting Parties if there are substantive changes during construction such as those that effect siting, footprint, massing, materials, and other major components of design including substantive architectural detailing or substantive landscape changes.

C. Salvage and Reuse of Historic Materials

The NPS and USGS shall ensure that, to the extent that it is feasible to do so, decorative stone removed from the summit buildings will be used in new construction of the overlook area and the replacement Visitor Center. The reuse of materials shall be identified in the design documents provided to Consulting Parties.

The NPS shall ensure that some of the existing berm material at the summit area is used to fill the Okamura Building site for the top several feet of fill. The crater end of the berm is to be used for approximately 1,200 cubic yards up to the location of the existing Radio Building and tower. A portion of the berm will remain to minimize the visibility of the water tank, Radio Building, and tower from various locations. The remaining portion of needed fill will come from sources found within the park that were left over from previous projects. The reuse of material shall be identified in the design documents provided to the Consulting Parties.

The NPS shall ensure that the proposal to expand the viewing platform at the summit area will include the footprint of the former Jaggar Museum. The expanded overlook platform surface will be asphalt, and there will be a one-foot-wide band of concrete to represent the former outline of the Jaggar Museum footprint.

D. Preservation and Adaptive Reuse of Historic Buildings

The NPS shall ensure that the 1941 Kīlauea Visitor Center Building remains an active facility throughout the construction period. Use of the building will continue, as the auditorium will remain a vital part of the proposed new facilities. Protection of the older building has been considered through the following action: the original space around this and any new buildings will have vegetated islands as a buffer to create a separation between the landscape and the proposed parking areas. Also, any alternate use or rehabilitation of this building will be subject to a future separate NHPA Section 106 consultation.

E. Deconstruction of Three Non-historic Temporary Buildings in the Resource Management Complex

The following three non-historic buildings in the Resources Management complex: building 217 - the Vegetation Management office (built post-1978), building 321 - the Turtle Program office (built post 1988), and B322 Resources Management Administration office (built post 1988) are proposed to be deconstructed. The Resources Management complex will be assessed for National Register eligibility in the Crater Rim Historic District National Register update. If the nomination, after review by the consulting parties, shows buildings 217 Vegetation Management Office, building 321 Turtle Program office and B322 Resources Management Administration office in the Resources Management area to be ineligible on their own or as non-contributing features of the larger complex, the deconstruction can continue without further Section 106 review. If the nomination shows that the buildings or the larger complex are eligible, further consultation would be required.

UNANTICIPATED DISCOVERIES OR OTHER ACTIONS THAT ARE RELATED TO NEW CONSTRUCTION ACTIVITIES

I. Monitoring of Ground Disturbing Activities

- A. The NPS and USGS shall include the following provisions in construction permits for the treatment of unanticipated archeological discoveries, including human remains, during deconstruction, excavation, new construction, or other ground-disturbing activities within the APE.

“In the event that a previously unidentified archeological resource(s) is discovered during project activities, construction personnel shall immediately halt all ground-disturbing activities in the area of the resource(s) and in the surrounding area (within 50 meters) where further subsurface remains can reasonably be expected to occur, and they shall immediately notify the NPS.

A qualified Archeological Monitor will be available for approved work at the various construction sites, including, but not limited to, the Uēkahuna Bluff area, the designated location adjacent to the existing Kīlauea Visitor Center, the design construction site adjacent to Kilauea Military Camp; and the construction site associated with the changes to the Crater Rim Drive entry, including the realignment, widening, creation of a spur road into the new parking area and a

roundabout as approved. NPS shall conduct archeological monitoring as needed for ground disturbing activities in these areas including, but not limited, to the following:

- Revegetation
- Soil preparation
- Utility installation
- Foundation excavation and filling (Okamura Building)
- Road/parking/site flatwork grading and subgrade preparation
- Construction staging areas yet to be determined. (These locations are to be primarily on previously disturbed lands and will likely be within existing parking areas.)”

II. Post Construction Reports

All projects will have an archaeological monitoring report that will be completed within 90 calendar days of the completion of all construction activity requiring archaeological monitoring. The NPS shall ensure that an archaeological monitoring report is prepared for each project. The NPS will submit a copy of each report to the SHPO for its library.

III. Inadvertent Discoveries

In the event that human remains, funerary objects, sacred objects, and/or objects of cultural patrimony are encountered during the course of activities associated with the undertaking, the NPS shall ensure that they are treated with respect and in a manner consistent with the provisions of the Native American Graves Protection and Repatriation Act (25 USC 3001).

DURATION

This Agreement will expire (10) years from the date of its execution. Prior to such time, the NPS may consult with the other Signatories to reconsider the terms of the Agreement and amend it in accordance with Stipulation VII below.

MONITORING AND REPORTING

Each year following the execution of this Agreement until it expires or is terminated, the NPS shall provide all parties to this Agreement a summary report describing work undertaken pursuant to its terms. Such report shall be provided no later than the 30th of each June and shall include the status of NPS and USGS design and construction projects, the status of implementation of stipulations, any scheduling changes proposed, any problems encountered, any disputes and objections received in the NPS’s and/or USGS’s efforts to carry out the terms of this Agreement, and any amendments proposed or executed. NPS will use electronic submission measures such as e-mail and to SHPD via HICRIS to the project number 2021PR00143 when possible.

DISPUTE RESOLUTION

Should any Signatory or Concurring Party to this Agreement object at any time to any actions proposed or the manner in which the terms of this Agreement are implemented, the NPS and USGS (as applicable) shall consult with such party to resolve the objection. The NPS will notify the other Consulting Parties of the objection and invite them to participate in consultation with the objecting party and the NPS and/or USGS to resolve the objection. If the NPS and/or USGS determines that such objection cannot be resolved, the NPS will:

1. Forward all documentation relevant to the dispute, including the NPS's proposed resolution, to the ACHP. The ACHP shall provide the NPS with its advice on the resolution of the objection within thirty (30) days of receiving adequate documentation. Prior to reaching a final decision on the dispute, the NPS shall prepare a written response that takes into account any timely advice or comments regarding the dispute from the ACHP, Signatories and Concurring Parties, and provide them with a copy of this written response. The NPS will then proceed according to its final decision.
2. If the ACHP does not provide its advice regarding the dispute within the thirty (30)-day time period, the NPS may make a final decision on the dispute and proceed accordingly. Prior to reaching such a final decision, the NPS shall prepare a written response that takes into account any timely comments regarding the dispute from the Signatories and Concurring Parties to the Agreement and provide them and the ACHP with a copy of such written response.
3. The NPS's responsibility to carry out all other actions subject to the terms of this Agreement that are not the subject of the dispute remain unchanged.

AMENDMENTS

This Agreement may be amended when such an amendment is agreed to in writing by all Signatories. The amendment will be effective on the date a copy signed by all of the Signatories is filed with the ACHP.

1. Any Signatory to this Agreement may request that it be amended by informing the NPS in writing of the reason for the request and the proposed amendment language, whereupon the NPS shall inform the other Signatories and Concurring Parties to the Agreement and request their views concerning the proposed amendment. The amendment will be effective on the date a copy signed by all Signatories to the Agreement is filed with the ACHP. The NPS will notify all Concurring Parties of the amendment execution.
2. If any Signatory to this Agreement determines that the terms will not or cannot be carried out, that party shall initiate consultation with the NPS and other Signatories to develop an amendment pursuant to previous paragraph. If within 30 calendar days (or another time period agreed upon by all Signatories to the Agreement) an amendment cannot be reached, any Signatory may terminate the Agreement upon written notification to the other Signatories. The NPS will notify all Concurring Parties of termination.

3. In the event this Agreement is terminated, and prior to work continuing on the Project, the NPS must either (a) execute a Programmatic Agreement or Memorandum of Agreement pursuant to 36 CFR § 800.6(c)(8) or (b) request, take into account, and respond to the comments of the ACHP under 36 CFR § 800.7. NPS will notify all Signatories and Concurring Parties to this Agreement as to the course of action it will pursue.

TERMINATION

If any signatory to this Agreement determines that its terms will not or cannot be carried out, that party shall immediately consult with the other parties to attempt to develop an amendment per Stipulation VIII, above. If within thirty (30) days (or another time period agreed to by all signatories) an amendment cannot be reached, any signatory may terminate the Agreement upon written notification to the other signatories.

Once the Agreement is terminated, and prior to work continuing on the undertaking, the NPS must either (a) execute a Memorandum of Agreement pursuant to 36 CFR § 800.6, or (b) request, take into account, and respond to the comments of the ACHP under 36 § CFR 800.7. The NPS shall notify the signatories as to the course of action it will pursue.

ANTI-DEFICIENCY ACT

All actions taken by the NPS in accordance with this Agreement are subject to the availability of appropriated funds, and nothing in this Agreement shall be interpreted as constituting a violation of the Anti-Deficiency Act (31 USC 1341). The NPS will make reasonable and good faith efforts to secure the necessary funds to implement this Agreement in its entirety. If compliance with the Anti-Deficiency Act alters or impairs the NPS's ability to implement the stipulations of this Agreement, the NPS will consult in accordance with the amendment and termination procedures found in Stipulations VIII and IX of this agreement.

This Agreement shall become effective on the date the last signatory signs. Execution of this Agreement by the NPS, USGS, SHPO, and the ACHP and implementation of its terms evidence that the NPS has taken into account the effects of this undertaking on historic properties and afforded the ACHP an opportunity to comment.

SIGNATORIES:

Hawai'i Volcanoes National Park

Date

[insert Park superintendent name and title]

Hawai'i State Deputy Historic Preservation Officer

Date

[insert name and title]

Advisory Council on Historic Preservation:

Date

[insert name and title]

United States Geological Survey

Date

[insert name and title]

CONCURRING PARTIES:

Historic Hawai'i Foundation

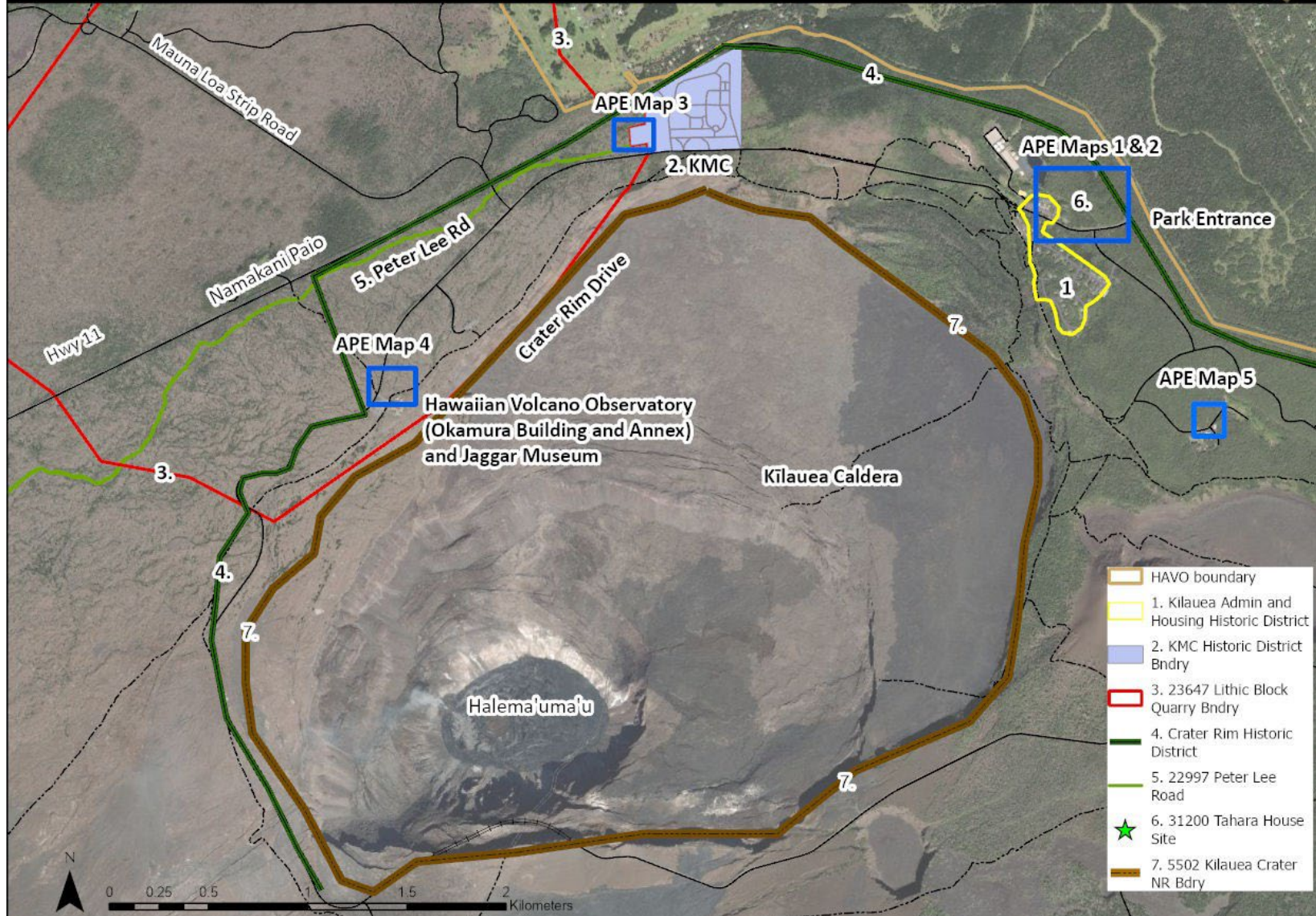
Date

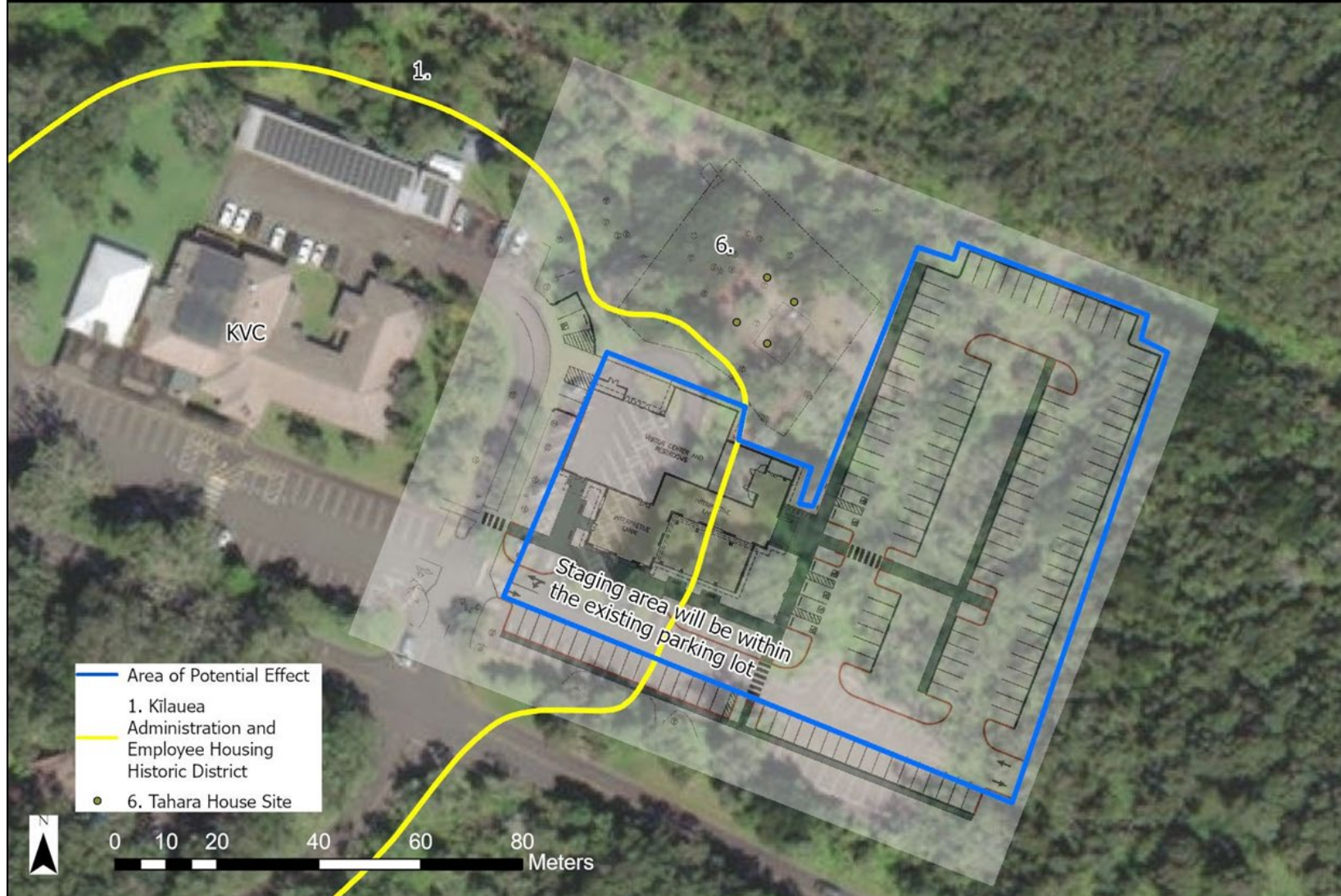
[insert name and title]

Appendix A

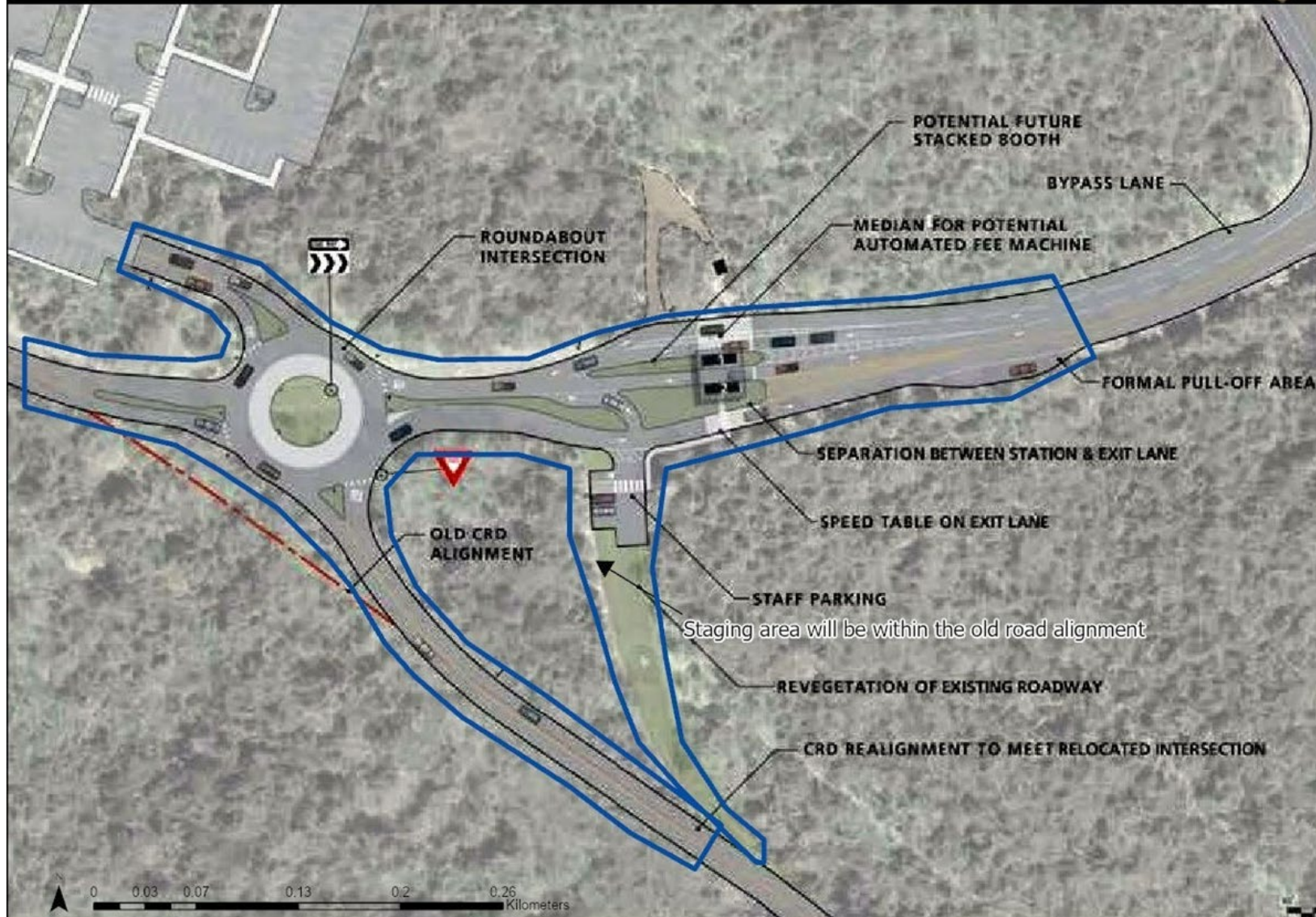
Area of Potential Effect Maps

Hawai'i Volcanoes National Park, Disaster Recovery Project, Area of Potential Effect overview map,
 TMK: (3) 9-9001:001 Kapāpala, Ka'ū, Hawai'i





Hawai'i Volcanoes National Park, Disaster Recovery Project, Area of Potential Effect, Map 2, APE outlined in blue, 17.78 acres, Crater Rim Drive realignment. TMK: (3) 9-9001:001 Kapāpala, Ka'ū, Hawai'i



Hawai'i Volcanoes National Park, Disaster Recovery Project, Area of Potential Effect, Map 3, APE outlined in blue, 1.56 acres, new USGS facility near the Kilauea Military Camp ballfield. TMK: (3) 9-9001:001 Kapāpala, Ka'ū, Hawai'i.







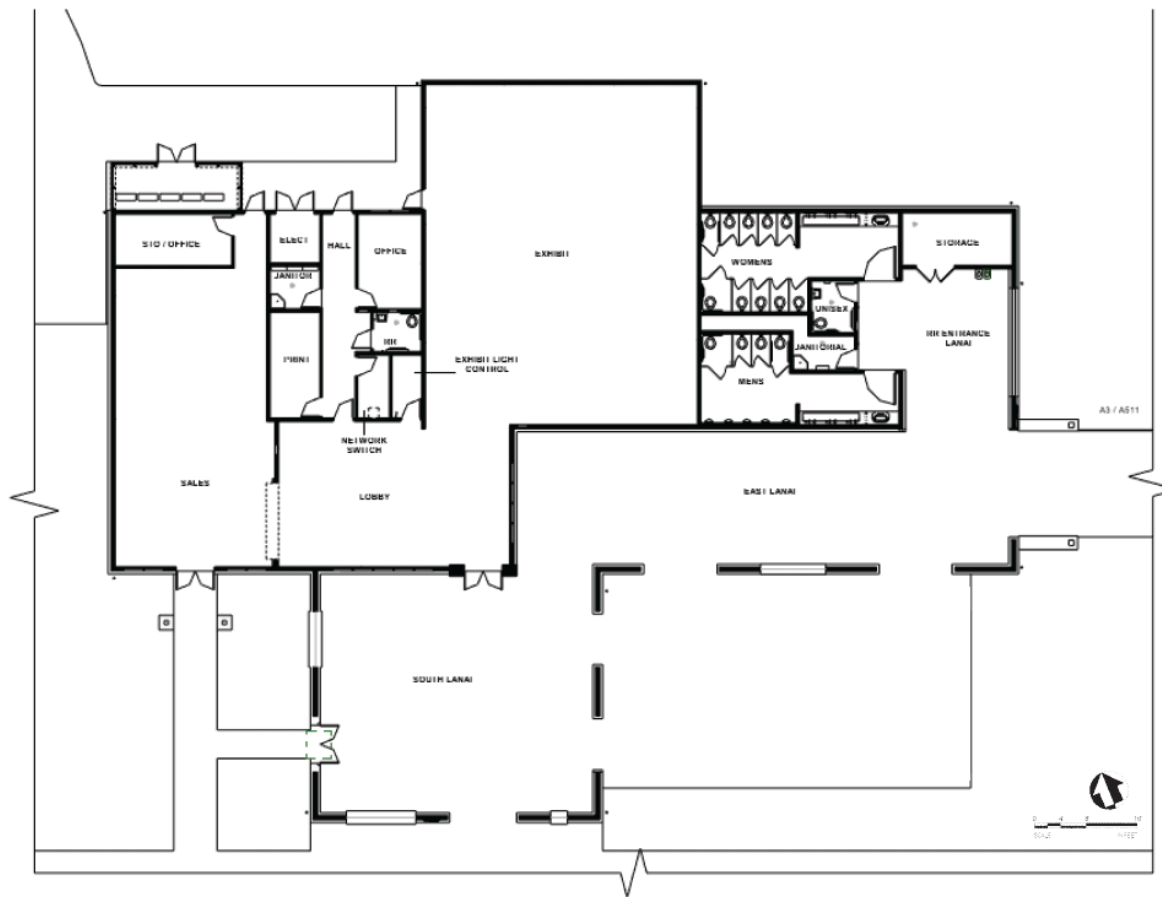
Appendix B
Consultation List

1. Civic Engagement – May 15 – June 15, 2020; Summary document completed July 2020
2. HAVO to SHPD Hawaii – May 2020
3. HAVO second letter to SHPD Hawaii – September 15, 2020
4. HAVO and SHPD Hawaii (phone call) - October 15, 2020
5. SHPD Hawaii – October 14, 2020 (rec'd response written) NPS follow up on this letter December 2020)
6. Hawai'i Volcanoes NP (HAVO) and Kūpuna Consultation Group (NHO's and interested parties) – November 11, 2020 (discussed the issue of the architectural elements at the summit buildings and received one suggestion from one Kūpuna to bury in place the lower floor of the Okamura Building).
7. HAVO and Kūpuna Consultation Group, (includes on a regular basis an attendee from the Office of Hawaiian Affairs), 11/12/2020, the park provided an update to the park's Kūpuna consultation group regarding Disaster Recovery planning, 12/20/2020 the park provided information regarding Disaster Recovery project and went over the preliminary mitigation list (no comments from consultation individuals), 2/12/21 the park discussed the Disaster Recovery project and exhibit planning for the new Visitor Center, 4/9/21 Disaster Recovery project was discussed and mitigations for the project were discussed including the TCP, 8/13/21, new Visitor Center exhibit discussed, 9/30/21 new Visitor Center exhibit discussed and TCP, 11/19/21 TCP presentation, 1/14/22 TCP discussed, 2/25/2022, Disaster Recovery project discussed, 5/7/21, TCP discussed, 5/13/22 discussed Disaster Recovery project
8. HAVO - consulting with NPS – (December 17, 2020) Pacific West Region staff on HABS/HALS documentation as mitigation.
9. HAVO – January consulting with SHPD, Historic Hawaii Foundation, ACHP and NTHP – re project, APE and proposed Mitigations.
10. HAVO – TEAMS consultation on the following dates with individuals identified. All meetings were recorded. Recordings are on file with NPS. Participants varied but included the following: HI-SHPD, Historic Hawai'i Foundation, Advisory Council for Historic Preservation, USGS -HVO, (Contractors: Architects Hawaii Ltd, OTAK, MASSON), NPS-DSC, NPS-PWR, NPS-HAVO:
 - April 8, 2021 – topic(s) - Presentation by Brian Heitman (Denver Service Center Project Manager) and Rhonda Loh (Superintendent at Hawai'i Volcanoes National Park) on the concepts as developed between May 2020 and April 2021.
 - Cultural resources within the APE
 - Mitigation Table of Cultural resources and effects
 - Programmatic Agreement Process
 - April 21, 2021 – USGS, Martin Smith and Architect on Contract presented Draft building design for group.
 - NPS when through the Mitigation Table and presented each cultural resource identified on the table.
 - Programmatic Agreement Process
 - May 12, 2021 – Continuation of Mitigation Table items.
 - June 02, 2021 – PWR presented information on HALS work in general and more specifically the discussion focused on the summit area HALS work to be carried out before buildings are removed.
 - HHF discussion to include design elements for all new construction within

the specific documented historic districts within the summit area.

- Contractor for NPS – OTAK presented ideas on buildings at the summit and for KVC to the group.
 - June 23, 2021 – Discussion of Traditional Cultural Properties with NPS-PWR Jason Lyon (Cultural Anthropologist).
 - No meetings between July 6 and August 17.
 - August 18, 2021 – Continued discussion on the Traditional Cultural Properties focused on Pelehonuamea.
 - September 8, 2021 - Justin DeSantis NPS-DSC presented preliminary plans for the road realignment and roundabout near entrance station.
 - September 29, 2021, consultation meeting with HHF, SHPD, USGS, ACHP and park staff to discuss mitigations to be included in the PA.
 - November 4, 2021, letters sent to HHF, SHPD, USGS, and ACHP with the draft PA for review, comments due by December 3, 2021.
 - November 10, consultation meeting with HHF, SHPD, ACHP, OTAK, Glen Mason and NPS including Sarah Killinger, PWR Regional 106 Coordinator. Topics covered include status update on TCP discussion with Kupuna and discussion of preliminary comments for the draft PA.
 - November 10, 2021, Laura Carter-Schuster retired. Summer Roper Todd will be acting CRM lead and Section 106 coordinator for the next 4 months (November, 2021-February 2022).
 - December 7, 2021, consultation meeting with HHF, SHPD, OTAK. ACHP could not attend. The meeting included an update on the TCP presentation to the park's Kūpuna Consultation Group, a discussion of the Draft PA comments, and OTAK be presented the latest Schematic Designs for the building demo and changes at Uēkahuna, the designs for the new Visitor Center, and the Crater Rim Drive realignment design.
 - January 12, 2022, Consultation meeting with HHF, SHPD, OTAK. ACHP could not attend. The meeting included a schematic design presentation from USGS of the new HVO facility that will be built near the KMC ballfield. There was also a status check on the draft PA comments. SHPD has provided comments and NPS is waiting to hear from HHF and ACHP. The park agreed to send 60 % Draft Design Documents out to the consulting parties of the road realignment, the USGS building, the new Visitor Center and the changes at the Bluff. This was determined to be the last meeting unless it was decided in the future that more would be needed.
11. February 26, 2022, 60% draft Design Documents sent out to SHPD, ACHP, USGS and HHF for review and comment.
 12. March 31st, 2022 the second draft of the PA was sent to SHPD, ACHP, USGS, and HHF for review and comment
 13. May 17th, 2022, the material sample boards were sent SHPD, ACHP, USGS and HHF for comment and review
 14. June 6th, 2022, SHPD responded that the material sample boards are acceptable and they have no further comments.
 15. June 10th, 2022, the 90% draft Design Documents were sent to SHPD, ACHP, USGS, and HHF for comment and review.

Appendix C
Material Boards



MASON

FLOOR PLAN
 HAVO DISASTER RECOVERY - NEW FACILITIES
 HAWAII VOLCANOES NATIONAL PARK, HI 9671

Prepared by MASON
 May 2022



MASON

EXTERIOR ELEVATION
HAVO DISASTER RECOVERY - NEW FACILITIES
HAWAII VOLCANOES NATIONAL PARK, HI 9671

Prepared by MASON
May 2022



CORRUGATED METAL ROOF



STAINED SOFFIT



PAINTED TRIM
MATCH PARK STANDARD



LAVA STONE BASE



PAINTED CEMENT BOARD
MATCH PARK STANDARD



MASON

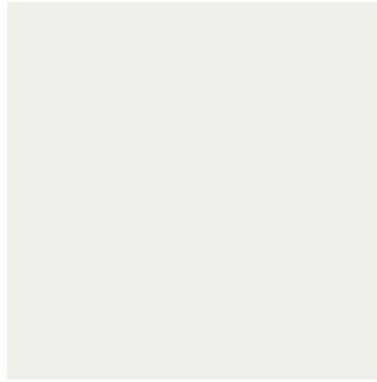
EXTERIOR MATERIALS

HAVO DISASTER RECOVERY - NEW FACILITIES
HAWAII VOLCANOES NATIONAL PARK, HI 9671

Prepared by MASON
May 2022



CEILING TILE



WALL COLOR



JANITORIAL CLOSET WALL



EXPOSED CONCRETE FLOOR FINISH

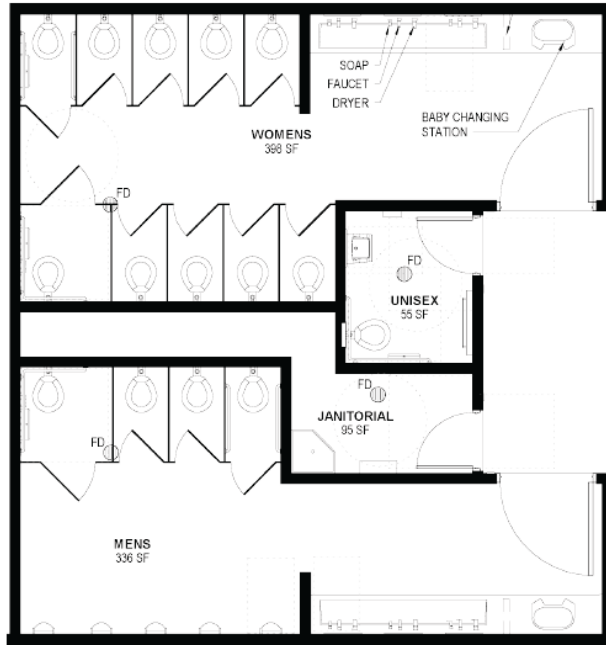
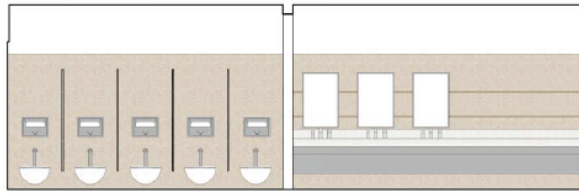


MASON

INTERIOR MATERIALS

HAVO DISASTER RECOVERY - NEW FACILITIES
HAWAII VOLCANOES NATIONAL PARK, HI 9671

Prepared by MASON
May 2022



AER-DEC™ Specifications



	Slove® Soap Dispenser	BASYS® Faucet	Slove® Hand Dryer	AirBein™
SIZE	Width: 2.00 inches (50.8 mm) Depth: 4.40 inches (111.8 mm) Height: 4.50 inches (114.3 mm)	Width: 2.00 inches (50.8 mm) Depth: 6.50 inches (165.1 mm) Height: 6.50 inches (165.1 mm) Measurements shown are for BASYS MID	Width: 3.00 inches (76.2 mm) Depth: 6.51 inches (165.4 mm) Height: 5.62 inches (142.7 mm)	30 inches, 60 inches, 90 inches, 120 inches or custom
COLOR	Chrome	Chrome	Chrome	100+ Corian® colors
MATERIAL	Zinc	Zinc	Zinc	DuPont™ Corian® or Quartz
DETAILS	<ul style="list-style-type: none"> • One piece construction • Active Infrared sensor • Easy loading disposable soap refills • Low soap level indicator • Foam soap refill of 1,000 mL • Dispenses 1.2 mL of pre-measured soap • 120 VAC prep-in 	<ul style="list-style-type: none"> • All serviceable components above deck • Active Infrared sensor (optional capacitive sensing) • Supply strainer serviceable from above deck • Single hole installation • Adjustable time-outs • Mechanical mixing, integral tapout, optional • Faucet can be configured to add solar and/or LCD display • One touch service • Gold plated electrical contacts • Choice of battery, solar harvesting, or plug-in AC adapter 	<ul style="list-style-type: none"> • Active Infrared sensor • Adjustable speed and sound suppression air delivery system for quietest operation 6/ dB - 75 dB • HEPA Air Filter removes 99% of bacteria at 0.3 microns • Uses less energy than conventional hand dryers • 95% cost savings over paper towel use • Eliminates paper towel maintenance and waste • Hets qualify for several LEED® v4 credits • 1440 watts / 70 volts / 20 amps • Plug in or hard wired 	<ul style="list-style-type: none"> • Built in air dam technology • Highly functional ergonomic hand washing basin • A monolithic console • Surface, sleeve, or floating mount • Corian® available in 100+ colors • Available in Quartz (Siessona® or DuPont™ Zodiaq®) • Eliminates back splash and splatters • Built into your design or built around it • Easy installation • ADA compliant if properly installed

WARRANTY 3 year warranty for the AER-DEC™ Integrated Sink (limited - see sloanvalve.com for details)

For more information about AER-DEC, please visit sloanvalve.com/aer-dec or call 800.982.5859.

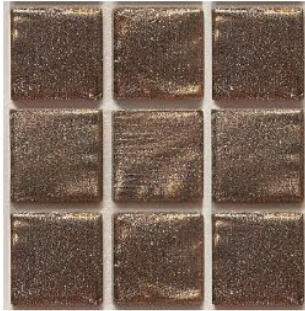


MASON

RESTROOMS & INTEGRATED SINK

HAVO DISASTER RECOVERY - NEW FACILITIES
HAWAII VOLCANOES NATIONAL PARK, HI 9671

Prepared by MASON
May 2022



GLASS TILE ACCENT



SOLID SURFACE WALL



CORIAN SOLID SURFACE
COUNTER TOP



EPOXY FLOORING



TOILET PARTITION

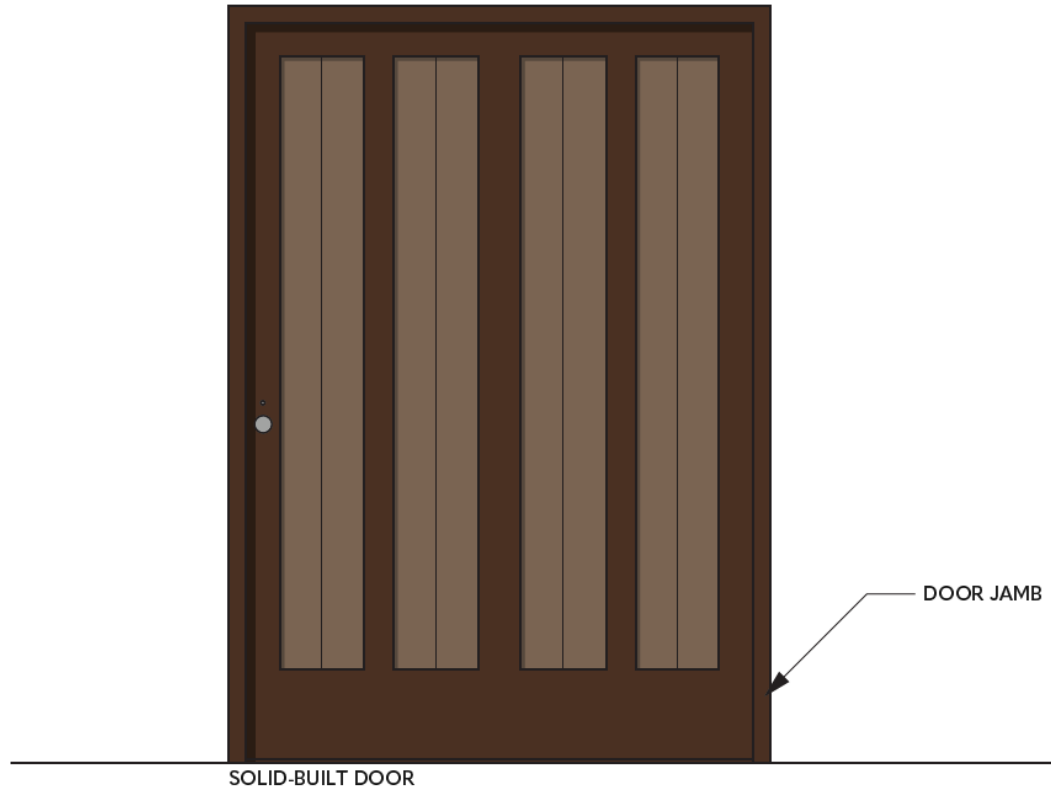


MASON

INTERIOR MATERIALS - RESTROOMS

HAVO DISASTER RECOVERY - NEW FACILITIES
HAWAII VOLCANOES NATIONAL PARK, HI 9671

Prepared by MASON
May 2022



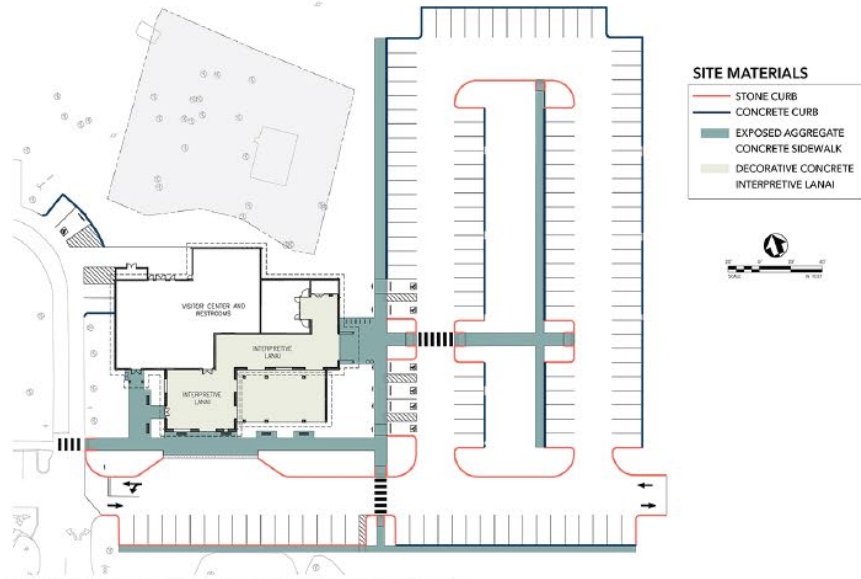
MASON

SOLID GATE DESIGN

HAVO DISASTER RECOVERY - NEW FACILITIES
HAWAII VOLCANOES NATIONAL PARK, HI 9671



Prepared by MASON
May 2022



PROPOSED LOCATIONS FOR CURBING AND PEDESTRIAN PAVEMENT



SIDEWALKS - EXPOSED AGGREGATE CONCRETE
MATCH TEXTURE OF EXISTING PAVEMENT ON SITE



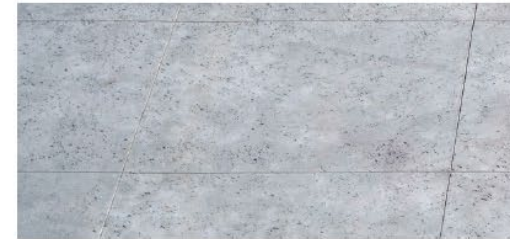
CURB - STONE

CURB STONE WILL BE SALVAGED TO BE REUSED ON SITE, ANY NEW CURB STONE WILL MATCH EXISTING



CURB - CONCRETE

CURBS FURTHER FROM FACILITIES WILL BE CONCRETE AND MATCH EXISTING CONCRETE CURB ON SITE IN TEXTURE, COLOR, AND USE OF SECTIONS WITH MORTAR JOINTS



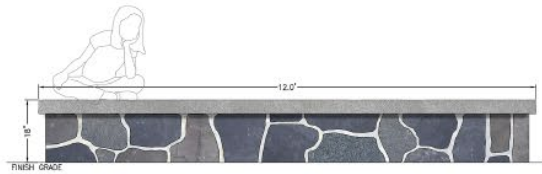
INTERPRETIVE LANAI - CONCRETE

DECORATIVE CONCRETE WITH FINE TEXTURE SUCH AS PITTED OR SALT FINISH

EXTERIOR MATERIALS - HARDSCAPE | VISITOR CENTER

HAVO DISASTER RECOVERY
HAWAII VOLCANOES NATIONAL PARK

MAY 2022



BENCH BASE - STONE
 USING STONE SALVAGED FROM THE JAGGAR MUSEUM



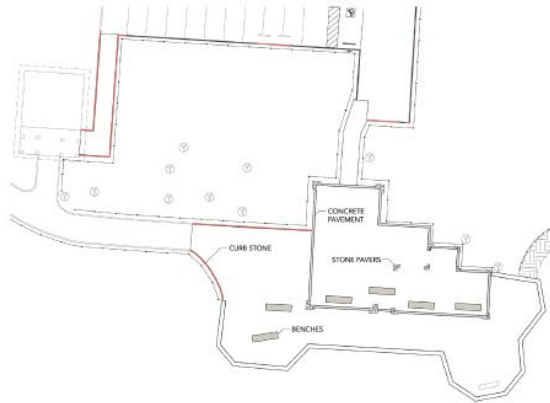
PAVERS - STONE
 USING STONE SALVAGED FROM THE JAGGAR MUSEUM
 SMOOTHER STONES WOULD BE USED FOR PAVERS TO PROVIDE AN ACCESSIBLE SURFACE WITH VERTICAL CHANGES IN SURFACE LEVEL NO GREATER AN 1/4"



STONE BENCHES AND PAVERS WILL MATCH PATTERN OF JAGGAR MUSEUM



BENCH CAP - CONCRETE
 BENCHES WILL HAVE A CONCRETE CAP, WITH A LIGHT TO MEDIUM SANDBLASTED FINISH



CONCRETE PAVEMENT - EXPOSED AGGREGATE CONCRETE
 FOOTPRINT OF JAGGAR MUSEUM WILL MATCH EXISTING PEDESTRIAN PAVEMENT ON SITE



CURB - STONE
 CURB STONE WILL BE SALVAGED TO BE REUSED ON SITE

EXTERIOR MATERIALS - HARDSCAPE | UĒKAHUNA VISITOR USE FACILITIES

HAVO DISASTER RECOVERY
 HAWAII VOLCANOES NATIONAL PARK

MAY 2022



TRUCK APRON - STAMPED CONCRETE



CURB - STONE
CURB STONE WILL BE SALVAGED TO BE REUSED ON SITE



Tamarock Masonry - Hawai'i

Example of color only

STAMPED CONCRETE - COLOR
DARK GRAY INTEGRAL COLOR WITH BROWNS USED FOR
ACCENT AND SEALANT COLOR



Tamarock Masonry - Hawai'i

Example of texture only

STAMPED CONCRETE - TEXTURE
STAMPED TEXTURE USING A COMBINATION OF STAMPS TO
AVOID THE APPEARANCE OF A REPEATING PATTERN



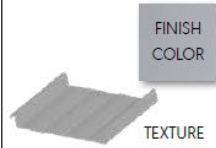
CURB - CONCRETE
MATCH EXISTING CONCRETE CURB ON SITE IN TEXTURE, COLOR, AND USE
OF SECTIONS WITH MORTAR JOINTS

EXTERIOR MATERIALS - HARDSCAPE | ENTRANCE

HAVO DISASTER RECOVERY
HAWAI'I VOLCANOES NATIONAL PARK

MAY 2022

MBCI BATTENLOK HS WITH PENCIL RIBS
MBCI SLATE FINISH



STANDING SEAM
METAL ROOF

ARCADIA
ALUMINUM FINIS
DURANAR COCOA BEAN



VERTICAL
FINS

ARCADIA
ALUMINUM MULLIONS
ANODIZED BLACK AB-8



WINDOW
MULLIONS

SOLARBAN 90 (2) ACUTY-
S-62 10/20
53% T
.29 UV
.23 SHGC



GLAZING

JAMES HARDIE
HARDIE PLANK SIDING
IN SELECT CEDARMILL



BOARD AND BATTEN
SIDING

BENJAMIN MOORE
VAN BUREN BROWN
HC-70

LAVA ROCK
STONE VENEER



LAVA ROCK WALL

METALWORKS
ALUMINUM PANEL
OAK GRAIN PATTERN

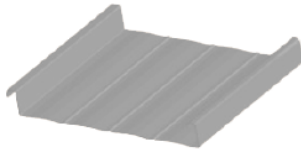


WOOD GRAIN
SOFFIT



STANDING SEAM
METAL ROOF

ROOF PROFILE
MBCI BATTENLOK HS WITH PENCIL RIBS

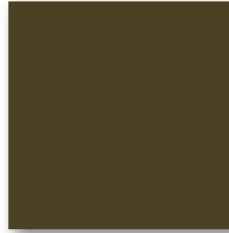


MBCI
TUNDRA FINISH



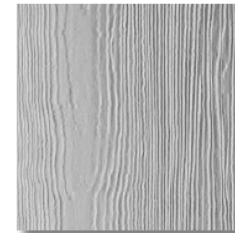
VERTICAL
FINS

ARCADIA
ALUMINUM FINS
DURANAR COCOA BEAN



BOARD AND BATTEN
SIDING

WOOD GRAIN TEXTURE



FINISH PAINT
BENJAMIN MOORE
VAN BUREN BROWN HC-70



WOOD GRAIN
SOFFIT

ARMSTRONG METALWORKS
LINEAR SYNCHRO
STANDARD CEILING PLANKS
SMOOTH TEXTURE



FINISH COLOR
GINGER



GLAZING &
WINDOW MULLIONS

ARCADIA VITRO
ALUMINUM MULLIONS SOLARRAN 90 (2) ACUITY + ACUITY
ANODIZED BLACK AB-8 53% VLT
.29 UV
.23 SHGC



LAVA ROCK WALL

STONE COLOR & TYPE: MOSTLY BLACK AND GRAY WITH SURFACE BLACK PAHOEHOE MIXED IN
STONE TEXTURE: VARIABLE FROM SMOOTH TO VARYING POROSITY
STONE SIZE: VARIOUS SIZES
MORTAR COLOR & TEXTURE: USE PARK MORTAR RECIPE
MORTAR JOINTS: RECESSED JOINTS (RAKED OR CONCAVE) APPROX. 1/4 INCH





OHIA ENTRY POSTS
SALVAGED FROM EXISTING
TREES ON PROJECT SITE



OHIA ENTRY POSTS
SALVAGED FROM EXISTING
TREES ON PROJECT SITE







