

**Queen Ka'ahumanu Highway Intersection Improvements for the Kaloko-Honokohau National Park and the Queen Ka'ahumanu Highway Widening, Kailua to Ke'ahole
Section 106 Mitigation Status - 2019 2nd Quarter**

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| STIPULATIONS REQUIRING COMPLETION | | | | | | | | | | | | | | | | | |
| 4 | ARCHAEOLOGICAL PRESERVATION AND MITIGATION PLAN | Copy of the findings of the Archaeological Preservation and Mitigation Plan (APMP), Archeological Monitoring Plan (AMP) and Data Cover and Preservation Plan (DRPP) and Burial Treatment Plan (BTP) to be provided to all parties of the MOA. End of fieldwork report submitted to all parties of the MOA. Data Recovery Final Report shall be submitted to SHPD for their approval. | (1) Copies of the subject plans are available on RMTc share site https://share.rmtowill.com/index.php/s/bJTqGBKwEjB72eC (2) Due to the narrowing of the hwy median, the retaining wall shown in the BTP is no longer required. An Amendment dated Sept 2015 was submitted for approval. | HDOT | | 6/25/2015 End of fieldwork letter sent from CSH to SHPD | 7/16/2015 SHPD determination that field work complete for data recovery and preservation phases | 4/8/2017 Archeological Reports posted on shared site for reference of all parties of MOA | 5/26/2017 Draft Data Recovery Report (Vol. I to III) submitted to HDOT for review | 3/16/2018 HDOT submitted Data Recovery Final Report (Vol. I to III) to SHPD | 12/12/2018 Burial Treatment Plan Addendum Submitted to SHPD. SHPD acceptance letter is forthcoming | APMP, AMP, AND DRP complete. Construction complete and final DRP submitted to SHPD on 3/16/18 | Draft End of Fieldwork Report anticipated mid-2019 | | | Copies of subject plans are available on RMTc share site. 3/16/2018 HDOT submitted Data Recovery Final Report (Vol. I to III) to SHPD on 3/16/18 | |
| 5b | NATIVE HAWAIIAN CULTURAL OUTREACH AND EDUCATION | a. The HDOT and the University of Hawai'i at Hilo (UHH) have entered into a Memorandum of Understanding (MOU) to provide cultural programs and education to support Native Hawaiian studies. b. The HDOT shall ensure that the MOU between HDOT and UHH to provide cultural programs is fully implemented over the five year duration of the agreement. c. Annual reports documenting the activities of the past calendar year will be made available to all consulting parties. | | HDOT/UH Hilo | | 12/2016 HDOT in consultation with UH-Hilo to discuss action plan | 4/7/17 Makani Hou expressed on interest in whether TKC or others may be interested and have the capacity to implement some of the outreach and educational programs. If so, there may be a possibility of TKC being a subcontractor under UHH. HDOT will await the results of the discussions | 4/26/17 MOU distributed and posted on share site | 9/2017 HDOT met with UH Hilo and the Kohala Center and UH Hilo will collaborate to fulfill the MOU stipulations | HDOT and UH Hilo have agreed to terms for partial funding of the project. Currently working on the transfer of funds | HDOT met with the Kohala Center and UH Hilo to continue collaborating on the MOU stipulations. | Draft MOU Amendment sent to UH by HDOT | Revised MOU including additional funds and the Kohala Center has been reviewed by attorney general and UH. Language is being finalized and funding being secured. | Annual reports will be distributed one year after the program begins | | | |
| 11 | INTERPRETIVE SIGNS | The HDOT shall research, design, and produce mutually agreed upon interpretive sign(s) in consultation with NPS and NHOs relating to the history of the trails identified in the Project ROW near the Kaloko-Honokohau National Historical Park and how the trails relate to the surrounding community. The sign(s) shall be (1) designed to meet NPS sign standards, (2) produced by HDOT, and (3) installed by the NPS within the boundaries of the Kaloko-Honokohau National Historical Park | | HDOT | Construction Project Completion | 2/10/17 Consultation with NPS | 4/2017 Consultation with NPS | 9/2017 The NPS proposed to FHWA and HDOT that the NPS Harper's Ferry Group design, manufacture and install sign(s). FHWA and HDOT are agreeable | 11/2017 NPS staff at Kaloko-Honokohau in discussions with Harper's Ferry group on concepts for interpretive panel(s) for the visitor center. | 3/13/2018 Concept proposed by NPS approved by HDOT/FHWA. Signs to be located at visitor center | 6/20/2018 NPS and FHWA met to discuss details of agreement for designing and manufacturing signs and fund transfer | 9/30/2018 FHWA drafted MOA for NPS to design, manufacture and install interpretive signs. Currently under legal/NPS/HDOT review | 11/2/2018 Legal review by NPS complete | 5/2/19 MOA executed for NPS to design, manufacture and install interpretive sign | 7/2019 Fund transfer per MOA | | |
| 17 | POST-REVIEW DISCOVERIES | Actions required for previously unknown potential historic properties or unanticipated effects on identified historic properties | | | | 7/28/2016 HDOT was notified of possible site encroachments during construction at the mauka termini of the mauka-makai trail of Site 10714 Features A and C | 8/2/2016 SHPO was notified | 8/24/2016 & 8/25/2016 HDOT with SHPPD and project contractors' site visit confirms Site 10714 as well as Site 00002 were encroached upon | 7/28/2016 HDOT was notified of possible site encroachments during construction at the mauka termini of the mauka-makai trail of Site 10714 Features A and C | 8/2/2017 SHPO was notified | 8/24/2017 & 8/25/2017 HDOT with SHPPD and project contractors' site visit confirms Site 10714 as well as Site 00002 were encroached upon | 9/30/2016 NHOs notified in email and in meeting and site visit on 12/2/16 | 5/5/2017 Site Visit with NHOs to expanded APE. | 5/19/2017 Deadline for comments on any additional sites in SAIS - No comments received | 5/23/2017 Mitigation consultation meeting held with NHOs and other Consulting Parties (CPs) | 8/3/2017 FHWA issued Notification of Adverse Effect for Damaged Sites | 6/26/2019 Meeting to be held regarding HDOT proposed mitigation to breached sites |
| 19 | MONITORING AND REPORTING | Provide summary report at the end of each calendar year | | FHWA | | 2/24/2017 2016 Annual Report | 4/28/2017 2015 Annual Report | 1/2/2018 2017 Annual Report | 1/2/2019 2018 Annual Report sent out | (1/2020) 2019 Annual Report | | | | | | | |
| 21 | AMENDMENTS | Any signatory, invited signatory, or concurring party to this MOA may request that it be amended. | Amendment required to expand APE to include side roads, mitigation for site breaches, updated date of relationship building workshop and extend duration of MOA | HDOT/FHWA | | 3/2019 Draft Amendment submitted to FHWA by HDOT and is currently under review at FHWA | 6/26/2019 Meeting to be held discussing Amendment including mitigation to breached sites | | | | | | | | | | |

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| STIPULATIONS COMPLETE | | | | | | | | | | | | | | | | |
| 1 | ON SITE POINT OF CONTACT | The FHWA in coordination with the HDOT shall designate an on-site point of contact (POC) and provide electronic copies of documents upon request by any consulting party to this MOA. Consulting parties to this MOA shall identify a POC for their respective organizations and transmit contact information to the FHWA and HDOT who shall maintain a current POC list. | | HDOT | | 4/8/2017 Email sent with current POC's requesting all parties respond with any updates. | 4/28/2017 Updates incorporated | 1/2/2018 Current POC's distributed in annual report | 12/2018 'POC is now Don Smith. | | | | | | | |
| 2 | AREA OF POTENTIAL EFFECT (APE) | The APE includes the right-of-way (ROW) of the Queen Ka'ahumanu Highway, the Honokohau Settlement National Historic Landmark, the Kaloko-Honokohau National Historical Park, and trails that are immediately adjacent to and traverse the Project area that have been identified as significant to the Ala Kahakai National Historic Trail corridor, most notably the Mamalahoa Trail. | During investigation of site breaches which occurred in Summer 2016, it was determined the APE did not include work on side roads, outside the 300-ft. HDOT ROW. | HDOT | | 1/6/2017 SHPD approves expanded APE | 3/9/2017 SHPD approval of supplemental AIS for expanded APE | 5/5/2017 Site Visit with Native Hawaiian Organizations(NHOs) to expanded APE. | 5/19/2017 Deadline for comments -No comments received | 8/3/2017 FHWA issued Notification of Adverse Effect for Damaged Sites which included expanded APE | 1/6/2017 SHPD Concurred with expanded APE | | | | | SHPD Concurred with expanded APE January 6, 2017 Log No. 2016.02942 Doc. No. 1701SL01 |
| 3 | PROFESSIONAL STANDARDS | The HDOT shall ensure that all work carried out and documents prepared under this MOA are consistent with the recommendations of the August 2012 AIS and professional standards and guidelines. Work shall be carried out by person or persons meeting the professionals qualification for archeology. The HDOT shall provide, upon request, the documents identified in this MOA. | Cultural Surveys Hawaii is performing all work pertaining to the identification and treatment of archeological resources. The President, Principal of Firm, Dr. Hallett Hammatt, meets the professional qualification requirements. | HDOT | | | | | | | | | | | | Cultural Surveys Hawaii is performing all work pertaining to the identification and treatment of archeological resources. The President, Principal of Firm, Dr. Hallett Hammatt, meets the professional qualification requirements. |
| 5a | PROJECT REDESIGN | Redesign south portion of project to minimize impacts to historic properties. | Project Design - Construction plans for the area between Kealakehe Parkway and Hinalani Street are complete and construction is ongoing. | HDOT | Complete | | | | | | | | | | | Signed final plans dated 8/2016 available at HDOT district office |
| 6 | CULTURAL MONITORS | Provide cultural monitors to (a) serve as community liaison, (b) provide cultural education for construction workers, (c) prevent and minimize impacts to historic and cultural resources, (d) monitor construction, and e) prepare daily reports. | Cultural monitoring ongoing with construction | HDOT | Construction Project Completion | Construction monitors contracted 4/15/2015, 8/31/2015, 9/2/2015, and 10/5/2015 | May/June 2015, Cultural Monitors present for data recovery work. September 2015 Cultural Monitors on site during grading activities | 9/2017 Cultural monitors present for data recovery work. | Ongoing- Cultural monitors present for construction activities | 11/2018 Cultural monitoring complete | | | | | | Construction is complete, no need for further monitoring |
| 7 | STREET LIGHTING | Street lighting shall only be provided at signalized intersections. Luminaire will not direct light skyward | Project plans have been completed by the project contractor and reviewed and approved by HDOT. Contractor will install per plan. | HDOT | Construction Project Completion | 6/2015 NPS concurs with lighting plan changes | 7/2019 Lighting at intersections has been installed per requirements of MOA | Street light installation completed in 11/2018. | | | | | | | | Photo of completed street lighting attached to 2018 Annual Report |
| 8 | NOISE STUDY | Complete noise impact study and make available to consulting parties of MOA | Noise Study Final Report completed on February 2015 and is within the 4(f) document. | HDOT | Complete | 2/2015 Noise Study Final Report Complete | 4/8/2017 4(f) document containing noise study posted on share site | | | | | | | | | Noise study on file with HDOT - Hawai'i District Office |

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| 9 | HIGHWAY DRAINAGE | Install drainage control (drywells) from 1,000 feet north of Hinalani Street to immediate south of Kealakehe Parkway Intersection and report of maintenance to NPS/MOA parties and consulting NHO's | Incorporation of filtering devices into the construction plans has been done, the drywells shall be constructed per plan with filtering devices. Reporting requirements will become effective after installation as required. | HDOT | Construction Project Completion | 9/2019 Drywells have been installed. Filter baskets have been installed at all but one location. | (10/2018) Last filter basket which required special fabrication to be installed (southbound lane north of Hinalani). | (10/2019) Annual reports to be published beginning November 2019 and made available to consulting parties | Drywell installation completed in 11/2018. Annual maintenance reports anticipated to be prepared and made available to CPs in 11/2019 | | | | | | | | | Photo of completed Highway Drainage attached to 2018 Annual Report |
| 10a. | PEDESTRIAN CROSSINGS | The HDOT shall provide at-grade pedestrian crossing at the following three locations: at the intersections of Hinalani Street, Lanihau Street/Park Entrance, and Kealakehe Parkway. These crossings shall incorporate pedestrian refuges (where feasible) in the highway median where there is adequate space available for the pedestrian refuge, and will accommodate bicycle users. | Pedestrian crossings have been designed as required and will be open at the completion of the project, or sooner if feasible from a safety standpoint. | HDOT | Construction Project Completion | 8/2016 Final plans incorporate at-grade pedestrian crossings | 8/2018 Construction of pedestrian crossings complete | Construction of pedestrian crossings completed in 11/2018. | | | | | | | | | | Photo of completed street lighting attached to 2018 Annual Report |
| 10b. | PEDESTRIAN CROSSINGS. UNDERPASS FEASIBILITY STUDY | The HDOT shall conduct a feasibility study with the objective of facilitating safe pedestrian access across the Queen Ka'ahumanu Highway at the "Trail to Honokohau." The study will examine at-grade crossing locations, the installation of a pedestrian tunnel crossing, and the modification of existing culverts for pedestrian-bicycle use. The study shall seek examples and policies regarding use of existing pedestrian tunnels and modified culverts in Hawai'i and other States. Subsurface crossing(s) shall include provisions for a third party organization to take responsibility for maintenance, security and liability for the crossing(s) as has been the policy of HDOT for more than a decade. The HDOT shall identify and select a qualified independent third party to conduct the study. As part of the study, HDOT shall consult with NPS to identify community organizations who may be invited to participate in the feasibility study. Organizations that may be invited to participate include: signatories to this MOA, NHOs, Peoples Advocacy Trails Hawai'i (PATH), County of Hawai'i, local primary and secondary school officials, universities, community groups, the Royal Order of Kamehameha, and the Association of Hawaiian Civic Clubs. As part of the feasibility study the HDOT shall convene a community meeting that has as its objective the development of design guidelines for future Queen Ka'ahumanu Highway expansion projects that includes provisions for trail connectivity and pedestrian crossings under the Queen Ka'ahumanu Highway as well as paralleling the highway. The HDOT shall transmit the findings of the feasibility study (inclusive of any documents or written testimony from the community meeting above) to parties participating in the feasibility study prior to the expiration of this MOA. | | HDOT | | 10/2015 Began Underpass Feasibility Study | 1/30/17 Consultation with NPS | 4/18/17 Completed NPS coordination for community meeting invite | 7/25/2017 Community Meeting #1 held to discuss preliminary considerations for design of the underpasses | 12/7/2017 Community Meeting #2 to discuss Draft Feasibility Study and Conceptual Design, and Design Guidelines | Draft Underpass Feasibility and Draft Guidelines are being finalized at HDOT | (Q1 2019) HDOT currently reviewing Final Study | 6/17/19 Final feasibility study complete | Final feasibility study including design guidelines (in appendix) will be available at 6/26/19 meeting | | | | |
| 12 | AHUPUA'A SIGNS | The HDOT shall install ahupua'a markers within the project limits following the guidelines of the HDOT's Ahupua'a Marker Program. The markers (ahu or sign on posts) shall be designed and installed in consultation with community groups and NHOs as prescribed by the Ahupua'a Marker Program. A notice of the proposed installation shall be published in the West Hawai'i Today newspaper. The markers shall be installed as part of the highway widening project. | The current draft of the HDOT Ahupua'a Marker Program will serve as the basis for the planned development of the ahupua'a markers. | HDOT | Construction Project Completion | 12/7/17 Consult with NHOs on Ahupua'a boundaries at terrain model meeting #3 | 1/29/2018 Notice of proposed installation in West Hawaii Today newspaper | 9/2018 Signs manufactured on Oahu | 11/2018 Installation of signs completed | | | | | | | | | Photo of completed Ahupua'a signs attached to 2018 Annual Report |
| 13 | LANDSCAPING PLANS | Coordinate landscaping plans with the NPS in areas within the ROW fronting the National Historic Park. Consult with NHO's on plant species. | Landscaping plans submitted to and approved by NPS. Plans submitted to NHOs and comments on plant species received and implemented. | HDOT | Construction Project Completion | 8/19/2015 Meeting with NPS to discuss draft landscape plans | 9/25/2015 NPS comments provided on landscape plans | 12/20/2016 Plans submitted to NHOs and comments received 1/28/17 from Kona Hawaiian Civic Club and 2/16/2017 from Makani Hou on replacing bougainvillea with a native plant | 5/9/17 HDOT Confirmed that 450-3 gallon bougainvillea will be replaced with 450-3 gallon naupaka | 9/2018 Construction of landscaping ongoing and 70% complete | 10/2018 Complete landscaping by installing Ilima & Pili grass at Honokohau Intersection and Airport Intersection | 11/2018 Completed landscaping by installing Ilima & Pili grass at Honokohau Intersection and Airport Intersection. Maintenance period ongoing until 8/2019 | | | | | | Photo of completed landscaping attached to 2018 Annual Report |

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| 14 | RELATIONSHIP BUILDING WORKSHOP | Statewide one day relationship building workshop within 24 months of the execution of the MOA | | HDOT | March 2017 | 2016 Preliminary planning, facilitators and meeting participants identified | 6/8/2017 Save the date (August 29, 2017) email sent out | 8/29/2017 Relationship Building Workshop held with Hawaii Island NHOs | 12/28/2017 Summary notes for Hawaii Island Workshop distributed | 3/15/2018 Invitation to Maui Relationship Building Workshop distributed | 4/9/2018 Relationship Building Workshop held on Maui | 6/18/2018 Invitation to Oahu Relationship Building Workshop distributed | 7/27/2018 Relationship Building Workshop held on Oahu | 7/27/2018 Stipulation is complete | 11/5/2018 HDOT distributed Summary Report of Workshops | 11/14/18 HDOT presented at the Annual Conference for the Association of Hawaiian Civic Clubs | 2/8/2019 DOT held a debrief and future plan of action meeting to engage and build relationships with NHO's | Summary report of relationship building workshop was distributed 11/5/2018 |
| 15 | TERRAIN MODEL | The HDOT shall commission the construction of a terrain model depicting the lands of Kekaha (between Kailua and Anaehoomalu) in consultation with Makani Hou o Kaloko-Honokohau. The model shall incorporate topographic relief, traditional place names, historic trails, settlement locations, interpretive signs, and other important landmarks, to be determined. | | HDOT | | 9/2015 Began terrain model planning for scope and fee for model | 2/10/2017 & 2/22/2017 Consultation with NPS and NHOs | 4/6/2017 Collected terrain data, physical, and digital model layout info. and distributed 3D model to grp for comment | 12/7/2017 Meeting #3 to confirm and finalize physical terrain model content, aesthetics and overall dimensions | 2/2018 Digital terrain model distributed to attendees of Meeting #3 for final comment | 2/2018 Supplier of terrain model selected and HDOT in discussions for production and delivery | 12/26/18 Physical Terrain model shipped to HDOT. Estimated delivery week of 1/7/19 | 1/2019 HDOT received physical terrain model and built cabinet for model. | Final terrain model will be available for viewing at 6/26/19 meeting | | | | Terrain model is complete and resides at HDOT Hawaii District office. |
| | | The model may be housed at the Kaloko-Honokohau National Historical Park under the auspices of the Hawai'i Pacific Parks Association. The model shall be of such scale that it can be transported to other locations and be used as a teaching tool. | | | | At 4/7/2017 meeting, NHOs suggested putting the terrain model in a higher trafficked location such as Kona airport or Palama Niu | 4/2017 Approval in concept given from DOT Director for terrain model placement at Kona airport | 12/7/2017 Participants at Meeting #3 determined the model should not be housed at the Kona airport | HDOT met with West Hawaii UH about the possibility of housing the physical model | HDOT Built a display case for terrain model | | | | | | | | The Kaloko-Honokohau National Historical Park can no longer house the model. It will be housed at the HDOT Hawaii District Office until a location becomes available. |
| | | A second digital model will also be developed and include similar information as the terrain model. | Digital terrain model to be developed in combination with physical model | | | 2/21/2017 Meeting: Draft digital Terrain model delivered to model group. | 2/2018 Digital terrain model distributed to attendees of Meeting #3 for final comment | (2018) Physical and digital Terrain model delivered-model group final meeting | 1/2019 HDOT received digital terrain model. | Digital terrain model will be available at 6/26/19 meeting | | | | | | | | Link for the digital terrain model was distributed by Mr. Donald Smith in email on June 22, 2019. Link will be available until May 2020. |
| 16 | ARCHEOLOGICAL MATERIALS AND RECORDS | Discoveries as a result of the project housed and curated by HDOT | Archaeological materials under curation by HDOT and are available for viewing by the public upon request. HDOT to continue monitoring and management of archaeological materials. | HDOT | | 6/2015 Data recovery artifacts curated by CSH | HDOT in discussions with UH about possibility of UH curating/ displaying archeological artifacts | | | | | | | | | | | Archeological materials will be curated by HDOT until another curating/display opportunity becomes available. |