

# Airports Division

DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII

PLANS FOR

## CONTAMINATED SOIL REMOVAL AT KAHULUI AIRPORT

AT

MAUI, HAWAII

STATE PROJECT NO. CM1321-33

**PROJECT TEAM**

CIVIL  
DORRIS AND ASSOCIATES, INC.  
301 MERCHANT ST. SUITE 1800  
HONOLULU HI 96813  
808 524-1224

**ALAN K. NISHIMURA**  
REGISTERED PROFESSIONAL ENGINEER  
No. 15517-C  
HAWAII, U.S.A.

*Alan K. Nishimura*  
**ALAN H. NISHIMURA**  
CIVIL ENGINEER

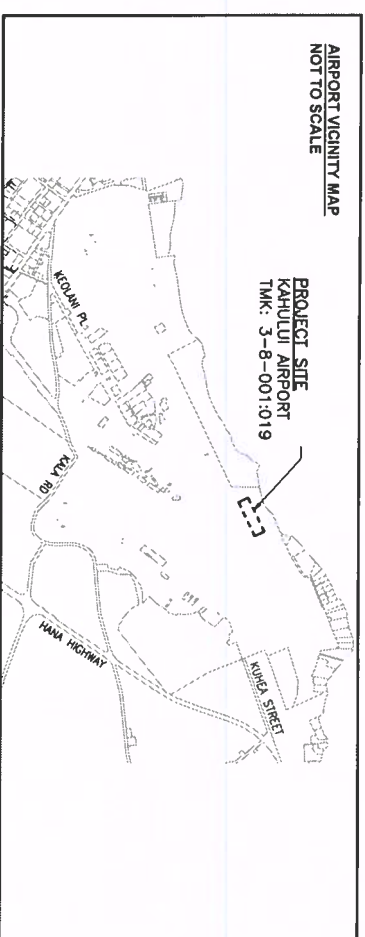
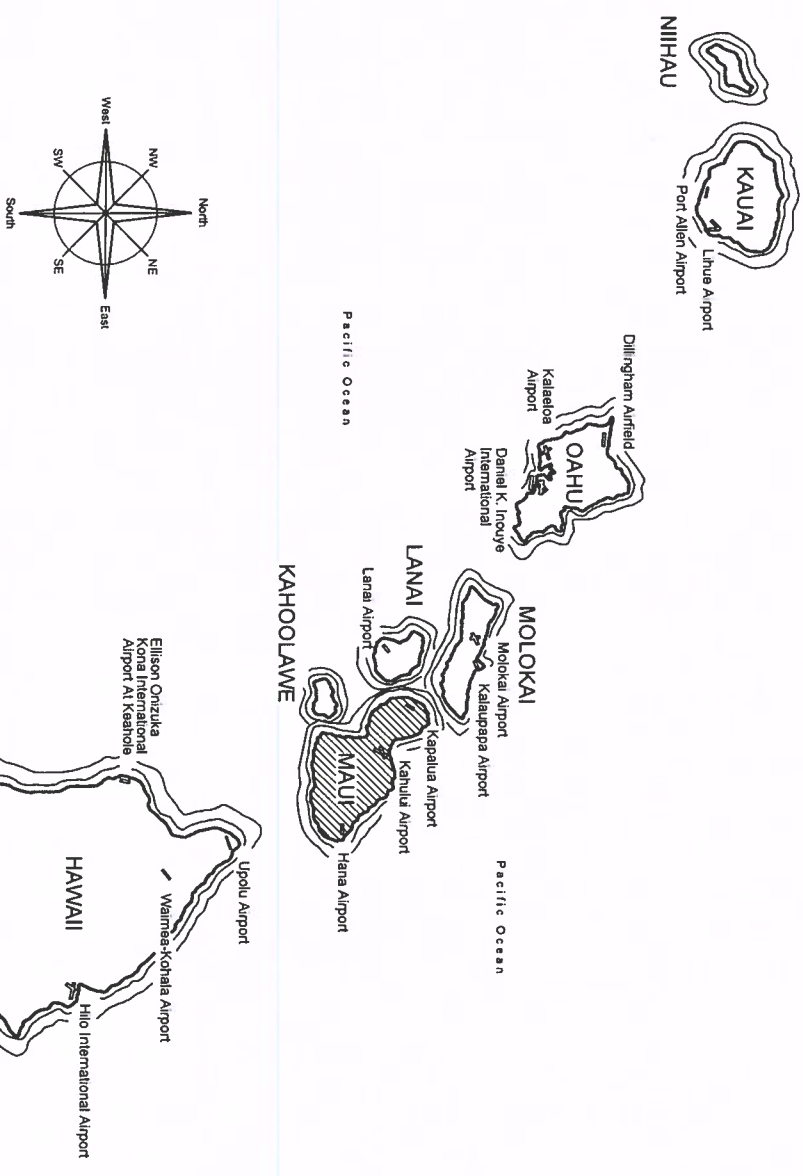


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*Alan K. Nishimura* 04/20/2024  
DATE OF THE EXPIRE

DSGN.	DRWN.	CHKD.	APPD.
AHN	NFR	AHN	AHN

**KEY PLAN / NOTES:**



DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII

APPROVED: *Henry St.*  
DIRECTOR OF TRANSPORTATION

5/12/23  
DATE

PROJECT TITLE: <b>100% DESIGN</b>	
DATE: 04/25/2023	
PROJECT TITLE: <b>CONTAMINATED SOIL REMOVAL AT KAHULUI AIRPORT</b>	
AT MAUI, HAWAII	
PROJECT NO.: <b>CM1321-33</b>	
SHEET TITLE: <b>TITLE SHEET</b>	
DATE: APRIL 2023	DWG. NO. <b>G-001</b>
SHEET: 1 OF 3 SHEETS	

DRAWING INDEX		
SHT. NO.	DWG. NO.	TITLE SHEETS
1	G-001	TITLE SHEET
2	C-001	DRAWING INDEX, CIVIL NOTES, AND DETAIL
3	C-002	SITE PLAN AND DETAILS

**BEST MANAGEMENT PRACTICES (BMP) NOTES:**

- THE BMPs SHALL BE APPLIED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK AND SHALL NOT BE REMOVED UNTIL CONSTRUCTION IS COMPLETE.
- SILT BARRIER: EMVIROTECH BIOSOLUTIONS - BIOSOCK, OR APPROVED SUBSTITUTE.
- COMPOSITE FILTER MEDIA, SANITIZED, MATURE COMPOST WITH NO IDENTIFIABLE FEDSTOCK CONSTITUENTS OR OFFENSIVE ODORS MEETING ALL LOCAL, STATE, AND FEDERAL QUALITY REQUIREMENTS. BIOSOLIDS COMPOST SHALL MEET THE STANDARDS FOR CLASS A BIOSOLIDS OUTLINED IN 40 CODE OF FEDERAL REGULATIONS (CFR) PART 503.
- COMPOST USED FOR FILTRATION SHALL MEET THE FOLLOWING PARAMETERS:
 

PARAMETER	UNIT	VALUE
PH		6-8
MOISTURE CONTENT	% WET WEIGHT	30-60
ORGANIC MATTER	% DRY WEIGHT	25-65
PARTICLE SIZE	% PASSING MESH SIZE: DRY WEIGHT	2 IN. = 100% 0.375 IN. = 10-30%
STABILITY (CO2 RATE)	MG CO2/C PER GRAM OF ORGANIC MATTER PER DAY	< 8
PHYSICAL CONTAMINANTS (MANMADE INERTS)	% DRY WEIGHT	< 1
- ROLL: SILT BARRIER SHALL UTILIZE AN OUTER LAYER OF FILTRATION MESH, AND AN INNER LAYER OF CONTAMINANT NETTING. ALL LAYERS SHALL COLLECTIVELY ENCLOSE THE COMPOST FILTRATION MEDIA. SILT BARRIER SHALL BE 12 INCHES NOMINAL DIAMETERS.
- THE CONTRACTOR SHALL ENSURE THAT ALL TIRES OF CONSTRUCTION VEHICLES ARE SUFFICIENTLY CLEANED OFF SO THAT DIRT OR DEBRIS IS NOT TRACKED OFF THE CONSTRUCTION SITE. WASHING OFF TIRES WITH WATER WILL NOT BE ACCEPTABLE UNLESS THE RUNOFF IS CONTAINED AND DOES NOT ENTER THE STORM DRAIN SYSTEM.
- TEMPORARY BMPs SHALL BE MONITORED PERIODICALLY AND AFTER EVERY SIGNIFICANT RAINFALL FOR STRUCTURAL INTEGRITY AND SEDIMENT BUILD-UP. DAMAGED OR IMPROPERLY FUNCTIONING BMPs SHALL BE REPAIRED OR REPLACED (PAID FOR BY THE CONTRACTOR) AND SEDIMENT/DEBRIS ACCUMULATION SHALL BE REMOVED.
- DURING CONSTRUCTION, PREVENTATIVE MEASURES SHALL BE USED TO CONTROL DUST, EROSION, OR SEDIMENTATION PROBLEMS WHICH MAY ARISE AS THE JOB PROGRESSES. DUST CONTROL SHALL MEET REQUIREMENTS OF ADMINISTRATIVE RULES, TITLE II, CHAPTER 60, AIR POLLUTION CONTROL, AND CHAPTER 55, WATER POLLUTION CONTROL FOR EROSION AND SEDIMENT CONTROL.
- CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
- EXCAVATED, DEMOLISHED, CLEARED & GRUBBED MATERIAL NOT SUITABLE FOR REUSE SHALL BE HAULED OFF SITE FOR DISPOSAL IN ACCORDANCE WITH THE COUNTY OF MAUI REGULATIONS.
- THE CONTRACTOR SHALL CLEAN THE PROJECT SITE OF DEBRIS AT THE END OF EACH WORKDAY.
- ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED USING VEGETATIVE COVERING, PAVEMENT, OR EQUIVALENT, PRIOR TO REMOVING EROSION AND SEDIMENT CONTROL MEASURES.
- PRACTICE GOOD HOUSEKEEPING MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
- AT THE CONCLUSION OF ALL PROJECT WORK, ALL BEST MANAGEMENT PRACTICES SHALL BE REMOVED, MOBILIZED EQUIPMENT SHALL BE REMOVED AND THE AREA SHALL BE RESTORED TO ITS ORIGINAL CONDITION, OR BETTER, UPON ACCEPTANCE OF THE PROJECT.

**BEST MANAGEMENT PRACTICES (BMP) NOTES (CONT.):**

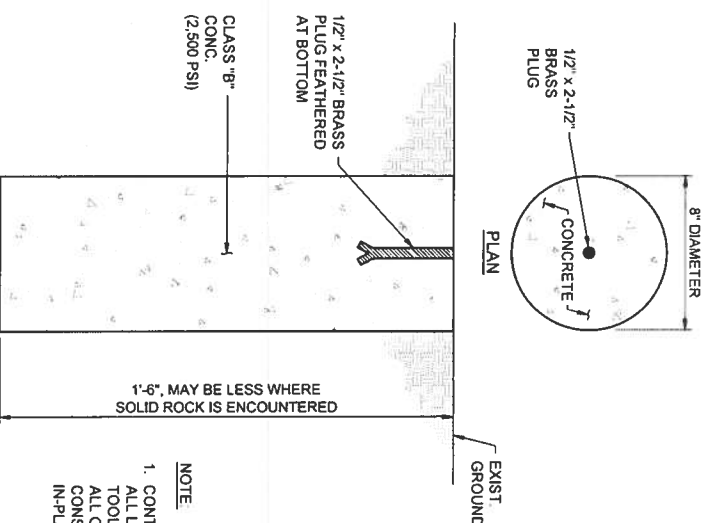
- EXCAVATED SOIL SHALL BE PLACED IN PROPERLY DESIGNED STOCKPILE CELLS IF NOT LOADED DIRECTLY INTO SHIPPING CONTAINERS.
- THE STOCKPILE CELL WILL BE CREATED BY LAYING DOWN AN IMPERMEABLE LINER THAT IS BERMED TO PREVENT STORMWATER AND RAINWATER FROM COMING INTO CONTACT WITH THE STOCKPILED SOIL.
- THE LINER SHALL BE OF SUFFICIENT THICKNESS TO PREVENT PUNCTURES OR TEARS. (THE LINER SHALL HAVE A MINIMUM THICKNESS OF 20-MIL).
- THE STOCKPILE SHALL BE COVERED TO PREVENT RAINWATER AND STORMWATER FROM COMING INTO CONTACT WITH THE STOCKPILED SOIL.

**GENERAL CONSTRUCTION NOTES:**

- ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1988, AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENTS OF PUBLIC WORKS.
- WHEN EXCAVATION IS ADJACENT TO OR UNDER EXISTING STRUCTURES OR FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SHEETING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVES, AND SETTLEMENT, AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDERPINNING TO FULLY PROTECT IT FROM DAMAGE.
- ANY PAVEMENT OUTSIDE THE CONTRACT ZONE LIMITS DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL, OR BETTER, CONDITION. SUCH RESTORATION SHALL BE TO THE SATISFACTION OF THE ENGINEER, AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE ALL WORK.
- ALL WORK CALLED FOR ON THE PLANS AND NOT ITEMIZED IN THE PROPOSAL AND ALL WORK NOT CALLED FOR BUT REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT, SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE VARIOUS BID ITEMS.
- THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION ALL IMPROVEMENTS, DAMAGED AS A RESULT OF CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL, DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCIDENTAL TO VARIOUS CONTRACT ITEMS.
- THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE DESIGNER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA, WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- THE EXISTING IMPROVEMENTS ON THE PREMISES, AND IN ADJACENT AREAS, THAT ARE NOT TO BE REMOVED, SHALL BE PRESERVED AND PROTECTED. ANY AND ALL DAMAGES RESULTING FROM THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND RETURNED TO ORIGINAL CONDITION, TO THE SATISFACTION OF THE ENGINEER AND PAID FOR BY THE CONTRACTOR.
- NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS," AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL." BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.
- UNLESS RELOCATION IS CALLED FOR ON THE PLANS, EXISTING UTILITIES SHALL REMAIN IN SERVICE AND IN PLACE. IF RELOCATION OF EXISTING UTILITIES IS REQUIRED FOR THE CONTRACTOR'S CONVENIENCE, INTERRUPTION OF SERVICE SHALL BE KEPT TO A MINIMUM AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND ONLY WITH THE APPROVAL OF THE ENGINEER.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, APPURTENANCES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE RECORDS, VERIFIED WHENEVER POSSIBLE BY FIELD SURVEYS. NO GUARANTEE IS MADE ON THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION AND INVERTS OF ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLANS, AND SHALL PROTECT SUCH UTILITIES AT ALL TIMES. DAMAGE TO EXISTING UTILITIES AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. INJURY TO PERSONNEL RESULTING FROM CONTACT WITH THE EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

**GENERAL CONSTRUCTION NOTES (CONT.):**

- ALL CONSTRUCTION WORK WITHIN THE ROADWAY SHALL BE DONE BETWEEN THE HOURS OF 8:30 AM TO 3:30 PM, MONDAY THROUGH FRIDAY. CONSTRUCTION WORK MUST BE CLEAR FROM ROADWAY BY 3:30 PM.
- EXISTING PAVEMENT AND PAVEMENT MARKINGS THAT ARE DAMAGED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AND PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND SERVICES TO PROPERLY PERFORM AND FULLY COMPLETE ALL WORK SHOWN ON CONTRACT, DRAWINGS AND SPECIFICATIONS.
- ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS SHALL BE CHECKED AND VERIFIED PRIOR TO THE START OF CONSTRUCTION, AND ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
- PURSUANT TO CHAPTER 6E, HRS., IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE MAUI POLICE DEPARTMENT AND THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES-HISTORIC PRESERVATION DIVISION (808) 882-8015.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION AND FOR THE CONVENIENCE AND SAFETY OF PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH THE ADMINISTRATIVE RULES OF HAWAII GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS ADOPTED BY THE DIRECTOR OF TRANSPORTATION, AND THE CURRENT U.S. FEDERAL HIGHWAY ADMINISTRATIONS' MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI - TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
- THE CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO AND FROM DRIVEWAYS AND PUBLIC STREETS AT ALL TIMES.
- THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY.
- ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION, AND ANY DAMAGE TO THEM SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.



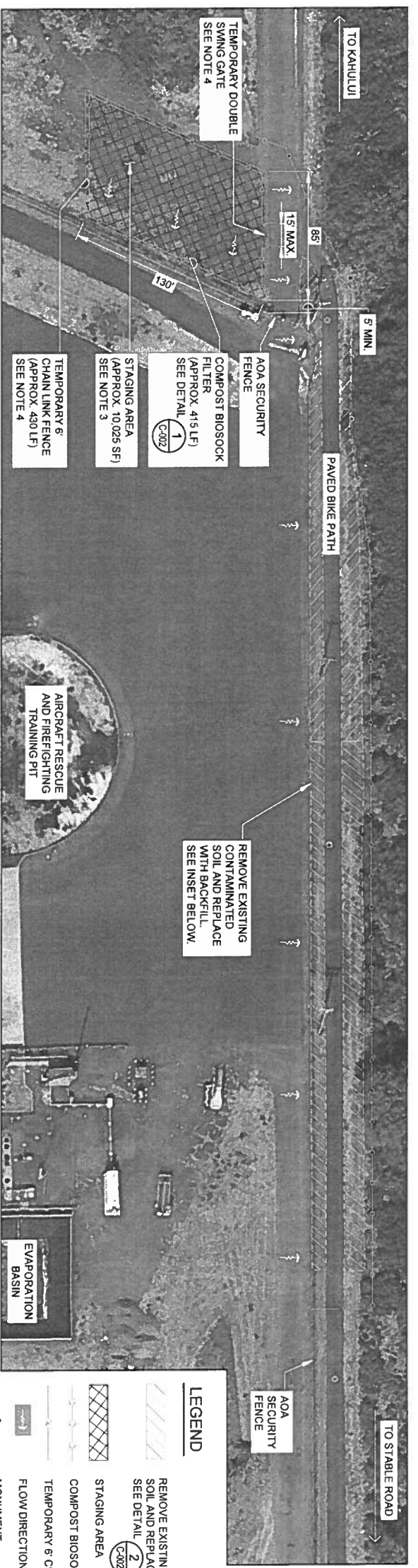
NOTE  
1. CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND ALL OTHER INCIDENTALS TO CONSTRUCT MONUMENTS TO IN-PLACE COMPLETE.

1 MONUMENT DETAIL  
C-001 NOT TO SCALE

KEY PLAN / NOTES:			
DSGN.	DRWN.	CHKD.	APPD.
AHN	NFR	AHN	AHN

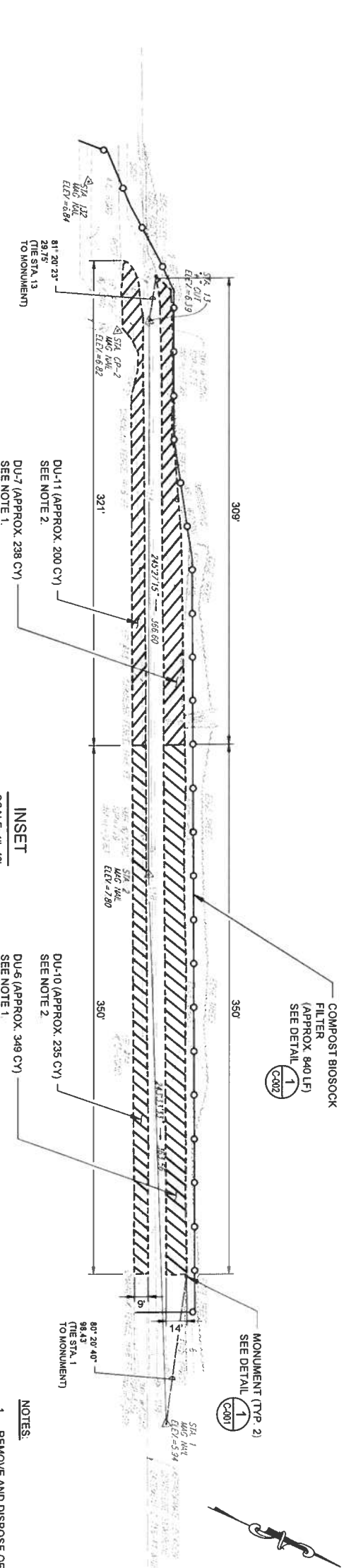


DATE: APRIL 2023		DWG. NO. C-001	
SHEET: 2 OF 3 SHEETS			
<b>100% DESIGN</b>			
DATE: 04/25/2023			
PROJECT TITLE: CONTAMINATED SOIL REMOVAL AT KAHLUI AIRPORT AT MAUI, HAWAII			
PROJECT NO.: CM1321-33			
SHEET TITLE: DRAWING INDEX, CIVIL NOTES, AND DETAIL			



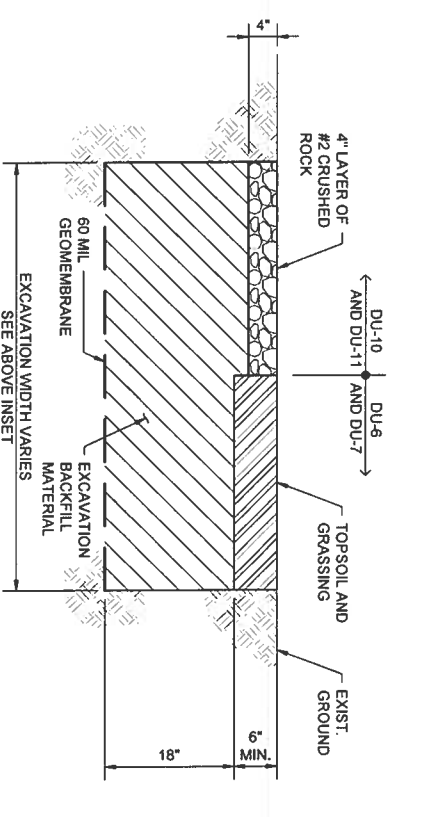
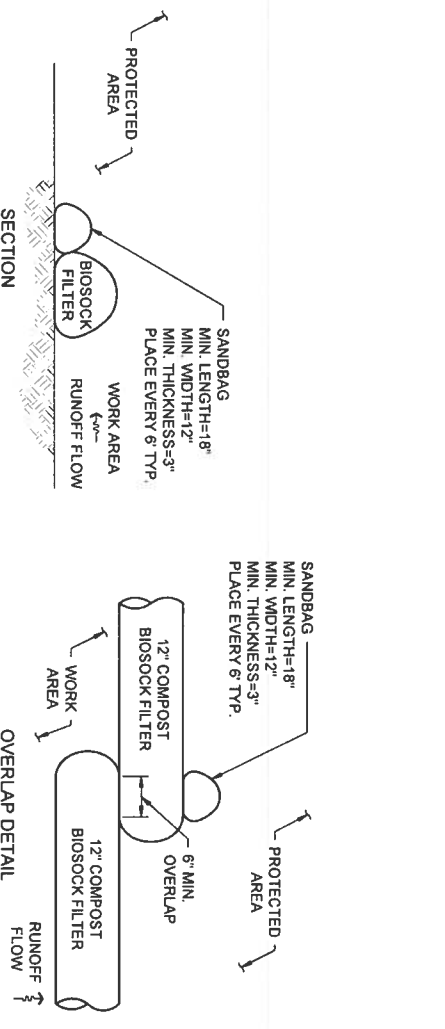
**SITE PLAN**  
SCALE: 1"=40'

- LEGEND**
- REMOVE EXISTING CONTAMINATED SOIL AND REPLACE WITH BACKFILL SEE DETAIL (2) C-002
  - STAGING AREA
  - COMPOST BIOSOCK FILTER
  - TEMPORARY 6' CHAIN LINK FENCE
  - FLOW DIRECTION
  - MONUMENT



**INSET**  
SCALE: 1"=40'

- NOTES:**
1. REMOVE AND DISPOSE OF EXISTING ORANGE CONSTRUCTION FENCING AND POSTS PRIOR TO PROPOSED EXCAVATION WORK.
  2. REMOVE AND DISPOSE OF EXISTING GEOTEXTILE AND STAKES ALONG THE EXISTING GROUND SURFACE PRIOR TO PROPOSED EXCAVATION WORK.
  3. STAGING AREA ACTIVITIES INCLUDE VEHICLE AND HEAVY EQUIPMENT PARKING AND TEMPORARY STORAGE OF CONTAMINATED SOIL.
  4. CONTRACTOR TO PROVIDE AND MAINTAIN TEMPORARY 6' CHAIN LINK FENCE AND DOUBLE SWING GATE THROUGHOUT THE DURATION OF CONSTRUCTION. AFTER CONSTRUCTION COMPLETION, CONTRACTOR TO REMOVE TEMPORARY FENCE AND GATE AND RESTORE AREA TO PRE-CONSTRUCTION EXISTING CONDITIONS OR BETTER. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE SELECTED TEMPORARY CHAIN LINK FENCE IS PROPERLY SUPPORTED AND APPROPRIATE MATERIALS USED FOR THIS APPLICATION.



**1** COMPOST BIOSOCK FILTER DETAIL  
NOT TO SCALE  
C-002

**2** EXCAVATION RESTORATION DETAIL  
NOT TO SCALE  
C-002



Airports Division  
Department of Transportation  
STATE OF HAWAII

DATE: APRIL 2023  
SHEET: 3 OF 3 SHEETS

DATE: 04/25/2023

PROJECT TITLE:  
**100% DESIGN**  
CONTAMINATED SOIL  
REMOVAL AT  
KAHULUI AIRPORT  
AT  
MAUI, HAWAII

PROJECT NO.:  
**CM1321-33**

SHEET TITLE:  
**SITE PLAN AND  
DETAILS**

DATE: APRIL 2023  
SHEET: 3 OF 3 SHEETS

DWG NO:  
**C-002**

DESIGN:	DRWN:	CHKD:	APPRD:
AHN	KMH	AHN	AHN

KEY PLAN / NOTES:

## AIRPORTS DIVISION REVIEW COMMENT SHEET

TYPE OF REVIEW: General PROJECT TITLE: OGG ARFF Removal Action DATE: 04/17/2023  
 AIRPORT: OGG PROJECT NO: CM1321-33 REVIEWER: Mikki Slentz / Dennis Peters  
 DATE ON DOCUMENTS: Varies REVISION NO: 0 SECTION: AIR-EE

COMMENT ID	REVIEWER CONTACT INFO	DATE MM/DD/YY	Dwg. Sht./ Spec. Pg.No.	Dwg Detail/ Spec. Para.	ORIGINAL REVIEW COMMENT	RESPONDENT CONTACT INFO	RESPONSE	CONCUR	NON-CONCUR	FIO	CLOSED Y/N	DATE MM/DD/YY	BACK CHECK COMMENT (Needed only if NOT closing comment)
1.	Mikki Slentz MSlentz@Hale Yaldrich.com 808.344.8960	04/13/23	Construction Connection, Discharge, and Surface Runoff Permit	General	Complete and submit the DOTA Construction Connection, Discharge, and Surface Runoff Permit for review.	Robert Chong (ESI) rchong@escien cei.com (8080 479-5217	Water from the project will not discharge into the airport drainage system. The DOTA Construction Connection, Discharge, and Surface Runoff Permit is not required.						
2.	Mikki Slentz MSlentz@Hale Yaldrich.com 808.344.8960	04/13/23	Plans	General	Include on the plans BMPs that will be implemented to manage excavated contaminated media. These should be consistent the project's Removal Action Work Plan (RAWP).	Robert Chong (ESI) rchong@escien cei.com (8080 479-5217	Additional BMP notes have been added to Sheet C-001.						
3.	Mikki Slentz MSlentz@Hale Yaldrich.com 808.344.8960	04/13/23	Plans	General	It is unclear what activities will be conducted in the staging area. Clearly identify the proposed activities and associated BMPs.	Robert Chong (ESI) rchong@escien cei.com (8080 479-5217	Activities include vehicle and heavy equipment parking. Temporary storage of contaminated soil. This has been added to Sheet C-002 along with biosock filters around the perimeter of the staging area.						
4.	Mikki Slentz MSlentz@Hale Yaldrich.com 808.344.8960	04/13/23	Plans RAWP	Sheet C-002 Appendix B, Sheet C-002	Sheet C-002 provided in the plan set and Appendix B of the RAWP appear to contain different information. Only the most recent version should be provided in all submittals.	Robert Chong (ESI) rchong@escien cei.com (8080 479-5217	The final plans have been included as Appendix B in the RAWP.						
5.	Dennis Peters dpeters@haley aldrich.com 808.349.2394	04/17/23	RAWP	Pg 2-1, Section 2.2	Figure 3, which is stated to indicate the "designated staging and storage area" for excavated soil is missing from the March 2023 document version reviewed. Provide Figure 3.	Robert Chong (ESI) rchong@escien cei.com (8080 479-5217	That is a typo. There is no Figure 3 in the RAWP. This has been changed to Figure 2.						
6.	Dennis Peters dpeters@haley aldrich.com 808.349.2394	04/17/23	RAWP	Pg 2-1, Section 2.2	If not detailed in Figure 3 (when provided), the RAWP should make clear the specific use for and construction design of the staging area. For example, will the staging area be bermed, will it include a stabilized entrance/exit, will vehicles be left unattended within the area, etc.?	Robert Chong (ESI) rchong@escien cei.com (8080 479-5217	The specific use and design of the staging area has been added to Section 2.2 of the RAWP.						

Note: Project review is considered approved when all comments have been closed.  
Check the FIO column when comments are provided for information purposes only.

## AIRPORTS DIVISION REVIEW COMMENT SHEET

TYPE OF REVIEW: General PROJECT TITLE: OGG ARFF Removal Action DATE: 04/17/2023  
 AIRPORT: OGG PROJECT NO: CM1321-33 REVIEWER: Mikki Stentz / Dennis Peters  
 DATE ON DOCUMENTS: Varies REVISION NO: 0 SECTION: AIR-EE

COMMENT ID	REVIEWER CONTACT INFO	DATE MM/DD/YY	Dwg. Sht./ Spec. Pg.No.	Dwg Detail/ Spec. Para.	ORIGINAL REVIEW COMMENT	RESPONDENT CONTACT INFO	RESPONSE	CONCUR	NON-CONCUR	FIO	CLOSED Y/N	DATE MM/DD/YY	BACK CHECK COMMENT (Needed only if NOT closing comment)
7.	Dennis Peters dpeters@haley aldrich.com 808.349.2394	04/17/23	RAWP	Pg 2-1, Section 2.3	As the soil is already planned for transport and disposal via supersacks or roll-off bins to PVT Landfill, has the project team considered direct loading of excavated soil into the transport containers? Besides avoiding the extra handling step which can incur additional time, cost, and safety and environmental hazards, storing contaminated soil in these transport containers on properly designed (e.g., lined and bermed) staging/storage areas would provide additional risk reduction in terms of migration of PFAS-contaminated soil away from stockpiles.	Robert Chong (ESI) rchong@escien cei.com (8080 479-5217	Ultimately, it will be up to the contractor to determine their specific means and methods. They will be permitted to excavate and load directly into containers for shipping if they so choose. The containers of soil will be temporarily stored in the staging area prior to shipment to Oahu.						
8.	Dennis Peters dpeters@haley aldrich.com 808.349.2394	04/17/23	RAWP	Pg. 3-1, Section 3.1	Neither the RAWP nor the Appendix B Site Plan Details (Sheet C-002) provide any indication as to how the 60-mil liner will be installed in a manner that prevents rainwater from accumulating and pooling on the liner as indicated in this section. Provide additional details of liner installation to address this concern.	Robert Chong (ESI) rchong@escien cei.com (8080 479-5217	The liner will not extend up the sides of the excavation walls. It will not be fastened to the bottom of the excavation floor. It will just be laid flat on the floor of the excavation and covered with backfill material. No revision required. No additional details required.						
9.	Dennis Peters dpeters@haley aldrich.com 808.349.2394	04/17/23	RAWP	Page 3-1, Section 3.1	Section 3.1 states that the geomembrane liner will be installed "at the bottom of the excavations." Clarify that this will only be on the horizontal floor and not the side walls.	Robert Chong (ESI) rchong@escien cei.com (8080 479-5217	Confirmed, just on the horizontal surface. No revision required.						
10.	Dennis Peters dpeters@haley aldrich.com 808.349.2394	04/17/23	RAWP	Pg. 3-1, Section 3.2	Appendix B Site Plan Details Sheet C-002 refers to placement of topsoil and grassing of the excavated area, and Sheet C-001 appropriately indicates that "ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED USING VEGETATIVE COVERING, PAVEMENT, OR EQUIVALENT, PRIOR TO REMOVING EROSION AND SEDIMENT CONTROL MEASURES." The RAWP or Appendix B details should refer to or describe the plan for re-vegetation/stabilization of excavated areas prior to removal of BMPs.	Robert Chong (ESI) rchong@escien cei.com (8080 479-5217	The contractor will be responsible for revegetation. Section 3.2 of the RAWP has been revised accordingly.						
					For example, will revegetation require irrigation until it is established, and if so how and by whom will that occur?								

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## AIRPORTS DIVISION REVIEW COMMENT SHEET

TYPE OF REVIEW: General PROJECT TITLE: OGG ARFF Removal Action DATE: 04/17/2023  
 AIRPORT: OGG PROJECT NO: CM1321-33 REVIEWER: Mikki Slentz / Dennis Peters  
 DATE ON DOCUMENTS: Varies REVISION NO: 0 SECTION: AIR-EE

COMMENT ID	REVIEWER CONTACT INFO	DATE MM/DD/YY	Dwg. Sht./ Spec. Pg.No.	Dwg Detail/ Spec. Para.	ORIGINAL REVIEW COMMENT	RESPONDENT CONTACT INFO	RESPONSE	CONCUR	NON-CONCUR	FIO	CLOSED Y/N	DATE MM/DD/YY	BACK CHECK COMMENT (Needed only if NOT closing comment)
11.	Dennis Peters dpeters@haleyaldrich.com 808.349.2394	04/17/23	RAWP	N/A	The RAWP should indicate that work being conducted on-site should comply with the DOT Airports Construction Site Runoff Control Program (DOTA Construction Activities BMP Field Manual). In particular, note that no on-site vehicle washing, maintenance, or fueling will occur, except within designated areas. Provisions for spill control must be readily available. Unattended vehicles and oil-containing equipment parked on impervious surfaces or in proximity to storm drainage inlets/pathways shall be provided with drip pans or parked within containment areas.  Add a statement to the RAWP that any spills will be reported in accordance with the DOTA <u>OGG Spill Reporting Fact Sheet</u> .	Robert Chong (ESI) rchong@escien cel.com (8080 479-5217	The third paragraph of Section 2 has been updated accordingly.						

All comments have been closed.

Reviewer Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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