STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

ADDENDUM NO. 1

FOR

CONTAMINATED SOIL REMOVAL
KAHULUI AIRPORT
KAHULUI, MAUI, HAWAII
STATE PROJECT NO. CM1321-33

MAY 25, 2023

This Addendum shall make the following amendments to the Bid Documents:

A. SPECIFICATIONS

1. Delete of Contents in its entirety and replace with the attached Table of Contents, Addendum No.1, r5/23/23.
2. Add and make a part of the specifications the attached Appendix A – Kahului ARFF Training Facility Action Work Plan.

B. DRAWINGS

1. Add and make a part of the plans.

    a. Sheet G-001 Title Sheet.
    b. Sheet C-001 Drawing Index Civil Notes And Detail
    c. Sheet C-002 Site Plan And Details

C. PRE-BID MEETING

1. Attached memorandum for the record summarizing the discussion of the Pre-Bid meeting held on May 22, 2023, and the accompanying attendance sheet and presentation.

Please acknowledge receipt of this Addendum No. 1 by recording the date of its receipt in the space provided on page P-4 of the Proposal.

EDWIN H. SNIFFEN
Director of Transportation

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APPENDIX A

Kahului ARFF Training Facility
Removal Action Work Plan

Kahului Airport
1 Keolani Place, Kahului, Hawaii

TMK No. (2) 3-8-001:019

Environmental Science International, Inc.
354 Uluniu Street, Suite 304
Kailua, Hawaii 96734
(808) 261-0740 phone

Kahului ARFF Training Facility
Removal Action Work Plan

Kahului Airport
1 Keolani Place, Kahului, Hawaii

TMK No. (2) 3-8-001:019

Prepared for:

State of Hawaii Department of Transportation, Airports Division
Engineering Maintenance (AIR-EM)
400 Rodgers Boulevard, Suite 700
Honolulu, Hawaii 96819

Prepared by:

Environmental Science International, Inc.
354 Uluniu Street, Suite 304
Kailua, Hawaii 96734

Project No. 120037:DO-23

April 26, 2023

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LIST OF ACRONYMS AND ABBREVIATIONS

Acronym	Definition
AFFF	Aqueous Film Forming Foam
AOA	Airport Operations Area
ARFF	Aircraft Rescue and Fire Fighting
bgs	below ground surface
CFR	Code of Federal Regulations
COPC	Contaminant of Potential Concern
DU	Decision Unit
EAL	Environmental Action Level
EHE	Environmental Hazard Evaluation
EHMP	Environmental Hazard Management Plan
ESI	Environmental Science International, Inc.
HAZWOPER	Hazardous Waste Operations and Emergency Response
HDOH	State of Hawaii Department of Health
HDOT	Department of Transportation, State of Hawaii
HEER	Hazard Evaluation and Emergency Response
IDW	Investigation-Derived Waste
MW	monitoring well
OGG	Kahului Airport
OSHA	Occupation Safety and Health Administration
PFAS	Polyfluoroalkyl Substances
PFDA-	Perfluorodecanoate
PFHxS-	Perfluorohexane Sulfonate
PFHpA-	Perfluoroheptanoate
PFHpS-	Perfluoroheptane Sulfonate
PFPeA-	Perfluoropentanoate
PFOA-	Perfluorooctanoate
PFOS-	Perfluorooctane Sulfonate
PPE	Personal Protective Equipment
QEP	Qualified Environmental Professional
SSHP	Site-Specific Safety and Health Plan

SECTION 1 INTRODUCTION

The purpose of the project is to remove exposed PFAS-contaminated surface and near surface soil, located outside of the AOA secured area, that poses a potential direct exposure hazard to the general public.

1.1 SITE DESCRIPTION

The OGG ARFF Training Facility, hereinafter referred to as the "Facility," is located along the northern border of OGG, between Amala Place and runway 5/23 (Figure 1). Kahului Bay is located approximately 0.16 miles (265 meters) to the north. There is an asphalt paved bike path that runs along the north side of the Facility, just outside of the AOA security fence line (Figure 2). Located between the bike path and Kahului Bay is an undeveloped wooded area that is owned by HDOT.

1.2 BACKGROUND

2019 Groundwater Assessment (ESI, 2019)

In 2019, a groundwater assessment was performed at the Facility (ESI, 2019). During the assessment, it was discovered that AFFF was historically been sprayed outside the burn pit and allowed to flow downgradient onto unpaved ground in DUs 6 and 10 located north-northwest, along the bike path.

2022 Soil and Groundwater Assessment (ESI, 2022a)

In 2022, a soil assessment and additional groundwater delineation assessment was conducted (ESI, 2022a). The purpose of the soil assessment was to assess PFAS in soil and to further delineate the lateral extent of PFAS-contaminated groundwater towards Kahului Bay.

For the soil assessment, a total of seven decision units were established. DUs 1 to 4 were located around the burn pit and DUs 5 to 7 were located cross gradient and downgradient from the burn pit to assess potential AFFF overspray or storm water runoff. For the DUs surrounding the burn pit, three vertical layers were established (Layers A, B, and C). For the remaining DUs, two vertical layers were established (Layers A and B). Layer A consisted of surface and near surface soil (0 to 2 feet bgs) and Layer B consisted of subsurface soil (2 to 4 feet bgs).

The soil samples were analyzed for 18 PFAS compounds. Seven PFAS compounds (PFPeA-, PFHxS-, PFHpA-, PFHpS-, PFOA-, PFOS-, and PFDA-) were detected in the soil samples at concentrations above the HDOH HEER Office Tier 1 EALs (HDOH, 2021). The PFAS concentrations in DUs 1 through 4 surrounding the burn pit generally increased with the soil depth. DUs 1 through 4 contained higher concentrations of PFAS compounds than DUs 6 and 7. Concentrations in DU 5, which is downwind and cross gradient from the burn pit but closer than DUs 6 and 7, were more similar to concentrations in DUs 1 through 4 than DUs 6 and 7.

EHE (ESI, 2022b)

In November 2022, an EHE was conducted (ESI, 2022b). A summary of the direct exposure hazard for DUs 5, 6, and 7 are provide below.

- PFOS- was detected at concentrations above HDOH HEER Office Direct Exposure EAL for Unrestricted Land Use in DUs 1, 2, 3, 4, 5, 6, and 7. DUs 1, 2, 3, and 4 are paved with asphalt which prevents direct exposure contact with the PFOS contaminated subsurface soil. DUs 5, 6, and 7 are unpaved and exposed.

- PFHxS was detected in soil at concentrations above the HDOH HEER Office Direct Exposure Soil EAL for Unrestricted Land Use in DUs 1, 2, 4, and 5. DUs 1, 2, and 4 are paved with asphalt which prevents direct exposure contact with the PFHxS contaminated subsurface soil. PFHxS contaminated subsurface soil in DUs 1, 2, and 4 could pose a hazard if exposed and not managed properly. DU-5 is unpaved and exposed, therefore PFHxS contaminated surface soil may pose a direct exposure hazard.

Based on the results of the EHE, it was determined that PFOS and PFHxS contaminated surface and near surface soil may pose a direct exposure hazard in DUs 5, 6, and 7. It was recommended that an additional direct exposure evaluation for exposed PFOS and PFHxS contaminated soil in DUs 5, 6, and 7 be conducted. Note, PFAS was not detected in DUs 5, 6, or 7 at concentrations above the HDOH HEER Office Direct Exposure EALs for Commercial/Industrial Use or Construction/Trench Workers.

Tier 2 Direct Exposure Evaluation

In response to the EHE findings, a site-specific Tier 2 Direct Exposure evaluation was performed for exposed surface soil in DUs 5, 6, and 7. In addition, surface soil samples were collected from DUs 10 and 11 (the unpaved area between the bike path and the AOA security fence) and a Tier 2 Direct Exposure evaluation was performed for the exposed soil in DUs 10 and 11. It was found that PFAS in surface and near surface soil is DUs 6, 7, 10, and 11 exceed the HDOH Tier 2 Direct Exposure hazard index. A summary of the Tier 2 Direct Exposure results are provided in Appendix A. A report documenting the Tier 2 Direct Exposure evaluation is currently being prepared.

SECTION 2 REMOVAL ACTION, TRANSPORTION, AND DISPOSAL

For the duration of the onsite removal action work, the bike path in the work area will be closed and access to the work area will be restricted to authorized personnel. The public will be notified of the bike path closure and appropriate signage will be posted along the bike path. The signage will include the dates of the closure. The contractor performing the work will be required to prepare a SSHP in accordance with 29 CFR 1926.65 HAZWOPER and follow the requirements in 29 CFR 1926.65

A QEP will be onsite to monitor the removal action. The QEP shall have at least 5 years of experience providing environmental oversight for construction projects involving excavation of contaminated soil and must have completed the OSHA HAZWOPER 40-hour training with a current 8-hour refresher.

All work performed shall comply with the HDOT Airports Construction Site Runoff Control Program. No on-site vehicle washing, maintenance, or fueling will occur, except within designated areas. 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. Any spill shall be reported to DOT Airports in accordance with the OGG Spill Reporting Fact Sheet.

2.1 EXCAVATION

An excavator or similar will be used to excavate the PFAS-contaminated surface and near surface soil in DUs 6, 7, 10, and 11. The excavation in each area will extend to 2 feet bgs. The excavation dimensions and areas shown in Figure 2 and 3 and Appendix B. During excavation, water will be used to control and suppress dust. Excessive use of water will be avoided to prevent pooling and runoff and to prevent further leaching of PFAS to the underlying soil and groundwater.

2.2 STOCKPILING AND STAGING AREA

The excavated soil will be stockpiled onsite in stockpile cells. 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 will be covered to prevent rainwater and stormwater from coming into contact with the stockpiled soil. An area for the temporary staging and storage of equipment, materials, supplies, and excavated PFAS-contaminated soil has been established.

The designated staging and storage area is shown in Figure 2 and Appendix B. The staging and storage area will be used to park vehicles and heavy equipment, storage of equipment and supplies (e.g., soil storage containers, geomembrane liner), and temporary storage of contaminated soil. The staging area will be fenced. Biofilter socks will be installed around the perimeter of the staging area. Details of the staging area are provided in Appendix B.

2.3 TRANSPORTATION AND DISPOSAL

The PFAS-contaminated soil has been accepted by PVT Land Company on Oahu for disposal and a clearance number issued. Stockpiled soil will be loaded from the stockpile into containers (e.g., supersacks or roll-off bins) for shipment to PVT Land Company for disposal. The containers will be designed for storage of the soil and will be capable of protecting the soil from stormwater and rainwater. The loaded containers will be transported to PVT Land Company for disposal. Waste transportation manifests will be used to track the soil from the Facility to the disposal facility.

SECTION 3 LINER INSTALLATION, BACKFILLING, AND ASPHALT CAP

3.1 INSTALLATION OF GEOMEMBRANE LINER

Following the removal action, a 60-mil geomembrane liner will be installed at the bottom of the excavations (2 feet bgs). The purpose of the liner is to (1) separate the PFAS impacted soil beneath 2 feet bgs from the upper 2 feet of clean imported fill that will be used to backfill the excavation, and (2) prevent rainwater from infiltrating down through DUs 6, 7, 10, and 11, which in turn will reduce the potential leaching of PFAS-contaminated soil beneath 2 feet bgs to the underlying groundwater aquifer. The liner will be installed in a manner that prevents rainwater from accumulating and pooling on the liner. In addition, monuments will be installed at the ground surface or just below the ground surface to mark the limits of the excavation and liner. This will allow contractors to identify the edges of the liner to prevent damage during possible future subsurface work in the area.

3.2 BACKFILLING

Following installation of the liner, the excavation will be backfilled with clean imported fill and compacted to match the surrounding area. The two feet of clean imported fill will act as a barrier to prevent direct exposure to subsurface PFAS-contaminated soil. Following backfilling, disturbed areas will be revegetated and stabilized to match pre-construction conditions.

SECTION 4 DECONTAMINATION

The SSHP shall designate the contamination reduction zone where decontamination occurs. The decontamination procedures are provided below.

4.1 DECONTAMINATION OF TOOLS AND PERSONNEL

Appropriate personal hygiene practices shall be adhered to at all times when handling potentially contaminated soil and water. Washing facilities shall be made available onsite to allow workers to wash their hands and avoid cross-contamination before eating, drinking, smoking, and/or heading home for the day.

After contact with contaminated media, proper decontamination procedures shall be conducted, including the removal, segregation, and disposal of PPE. Any used PPE shall be placed in plastic garbage bags, double-bagged, and properly disposed of.

Hand-held and manual tools in direct contact with contaminated media must be decontaminated to remove any contaminated soil or water prior to handling “clean” material and before they are removed from the work area. The decontamination of tools must include the following:

- Physically remove soil adhering to the surface of the equipment using appropriate hand tools. Soil removed during this step should be placed into the containers containing the PFAS-contaminated soil.

- Following removal of soil, wash tools with water. Wash water and rinsate shall be contained, collected, and stored in designated containers. Wash water and rinsate water will be poured into the Facility holding pond.

During decontamination, proper PPE shall be employed to minimize exposure to COPCs. The list of PPE to be used shall be included in the SSHP.

4.2 DECONTAMINATION OF VEHICLES AND EQUIPMENT

Vehicle and equipment decontamination should occur following the use of vehicles and equipment (e.g., including haul trucks, heavy equipment, and accessories) in direct contact with PFAS-contaminated soil. The equipment decontamination procedures are intended to describe methods to mitigate the spread of PFAS to “clean” portions of the work area, non-contaminated materials, and to off-site locations.

Equipment and vehicles in direct contact with PFAS-contaminated soil must be decontaminated to remove any sediment and loose debris before they leave the work area. The decontamination of vehicles and equipment must include the following:

- Physically remove soil adhering to the surface of the equipment and vehicles using appropriate tools. Soil removed during this step should be placed into the containers containing the PFAS-contaminated soil.

- Following removal of soil, wash vehicle and equipment with water. Wash water and rinsate shall be contained, collected, and stored in designated containers. Wash water and rinsate water will be poured into the Facility holding pond.

During decontamination, proper PPE shall be employed to minimize exposure to COPCs. The list of PPE to be used shall be included in the Contractor's SSHP.

SECTION 5 INVESTIGATION-DERIVED WASTE

IDW anticipated for this project includes PFAS-contaminated soil, decontamination water, PPE, and stockpile cell liners.

- PFAS-contaminated soil, PPE, and the stockpile cell liner will be transported to PVT Land Company on Oahu for disposal.

- Decontamination water will be poured into the Facility holding pond and allowed to evaporate.

SECTION 6 REMOVAL ACTION REPORT

Following completion of the removal action, backfilling, and disposal, a Removal Action Report will be prepared and submitted to the HDOH HEER Office. At a minimum, the Removal Action Report will include a description of the removal action, transportation and disposal of PFAS-contaminated waste, decontamination procedures, backfilling, and compaction. The report shall include photos of the final excavations, liner installation, and backfilling; scaled maps showing the extent of the excavations; completed waste transportation manifest; and PVT Land Company disposal receipts for all PFAS-contaminated waste.

SECTION 7 FUTURE WORK

- Prepare a site-specific EHMP. The purpose of the EHMP is to provide controls and procedures for the proper handling and management of PFAS-contaminated soil and groundwater remaining at and in the vicinity of the Facility.

- Continue quarterly groundwater monitoring for groundwater monitoring wells MW-9, MW-10, MW-11, and MW-12 and semi-annual groundwater monitoring for wells MW-1 through MW-8.

- Perform additional leaching evaluation to determine if PFHpA-, PFHpS- , and PFPeA- are leaching from soil to groundwater.

- Perform additional study to determine if PFPeA-, PFHpA-, and PFHpS- are migrating via groundwater downgradient and discharging into Kahului Bay at concentrations that pose a hazard.

- Prepare a remedial alternatives analysis for the source area to prevent PFAS contaminants from continuing to spread.

SECTION 8 REFERENCES

ESI, 2019, Kahului ARFF Training Pit Groundwater Assessment, Kahului Airport, 1 Keolani Place, Kahului, Hawaii, TMK No. (2) 3-8-001:019, ESI Project # 117019-DO-28. September.

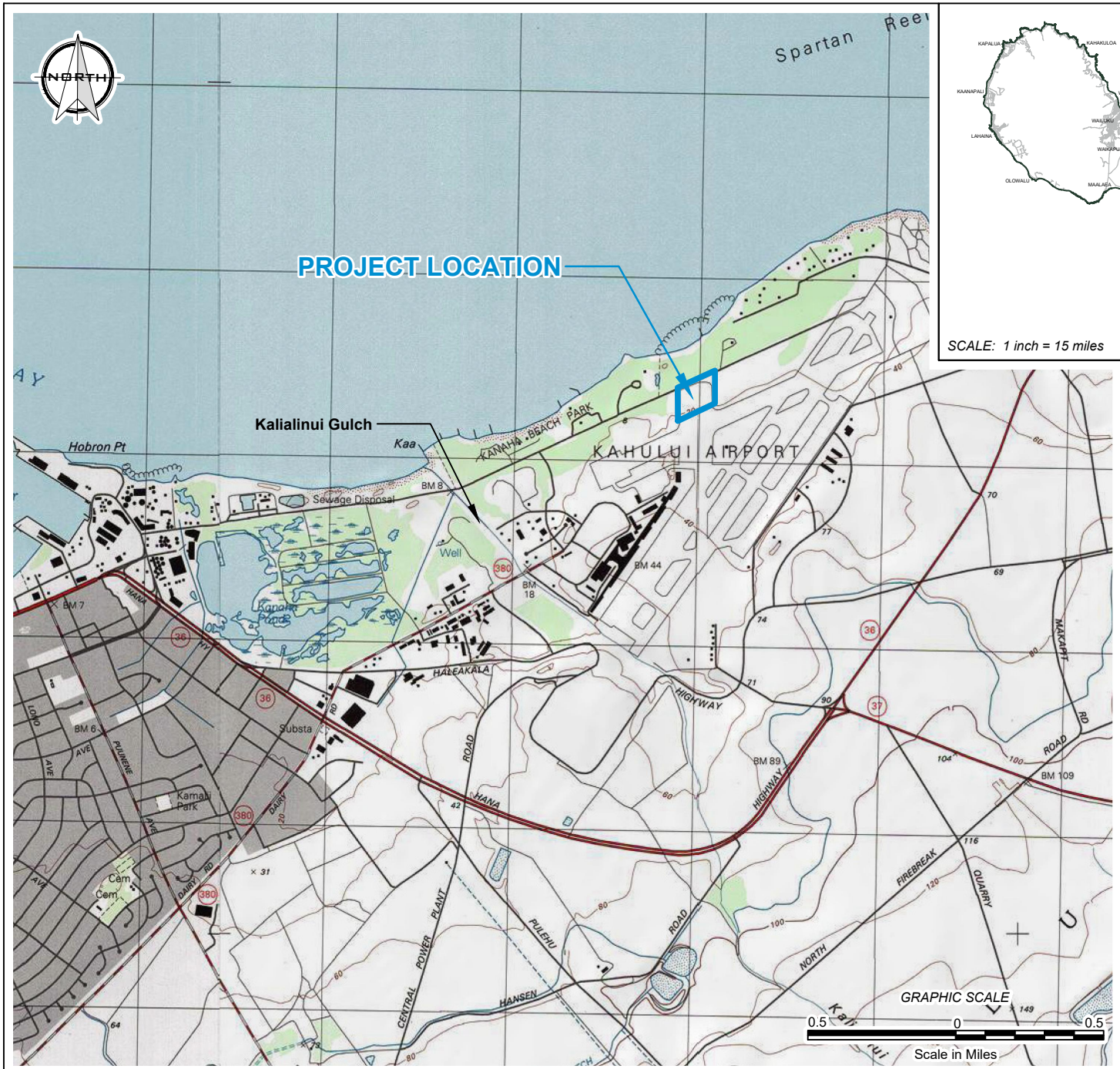
ESI, 2022a, Quarterly Groundwater Monitoring Status Report – December 2021, Kahului ARFF Training Pit, Kahului Airport, 1 Keolani Place, Kahului, Hawaii, TMK No. (2) 3-8-001:019, Environmental Science International, Inc., Project No. 120037-DO17, March 29, 2022.

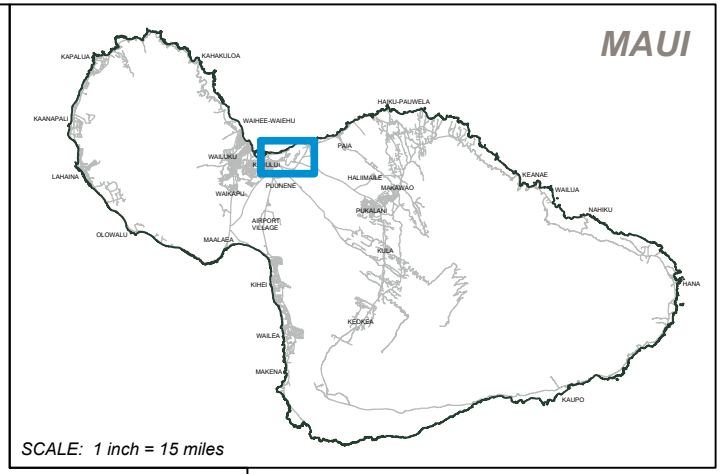
ESI, 2022b, Environmental Hazard Evaluation Revision 1, Kahului ARFF Training Pit, Kahului Airport, 1 Keolani Place, Kahului, Hawaii, TMK No. (2) 3-8-001:019, Environmental Science International, Inc. Project # 120037:DO-23. November7, 2022.

HDOH, 2008, Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan, Interim Final, November 12, 2008, and applicable section updates.

HDOH, 2021, Interim Soil and Water Environmental Action Levels (EALs) for Perfluoroalkyl and Perfluoroalkyl Substances (PFASs), April 8, 2021.

FIGURES





NOTES

The accuracy of this document is limited to the quality and scale of the source information. This document is not a legal representation of an engineered survey.

SOURCES

http://planning.hawaii.gov/gis, 2022

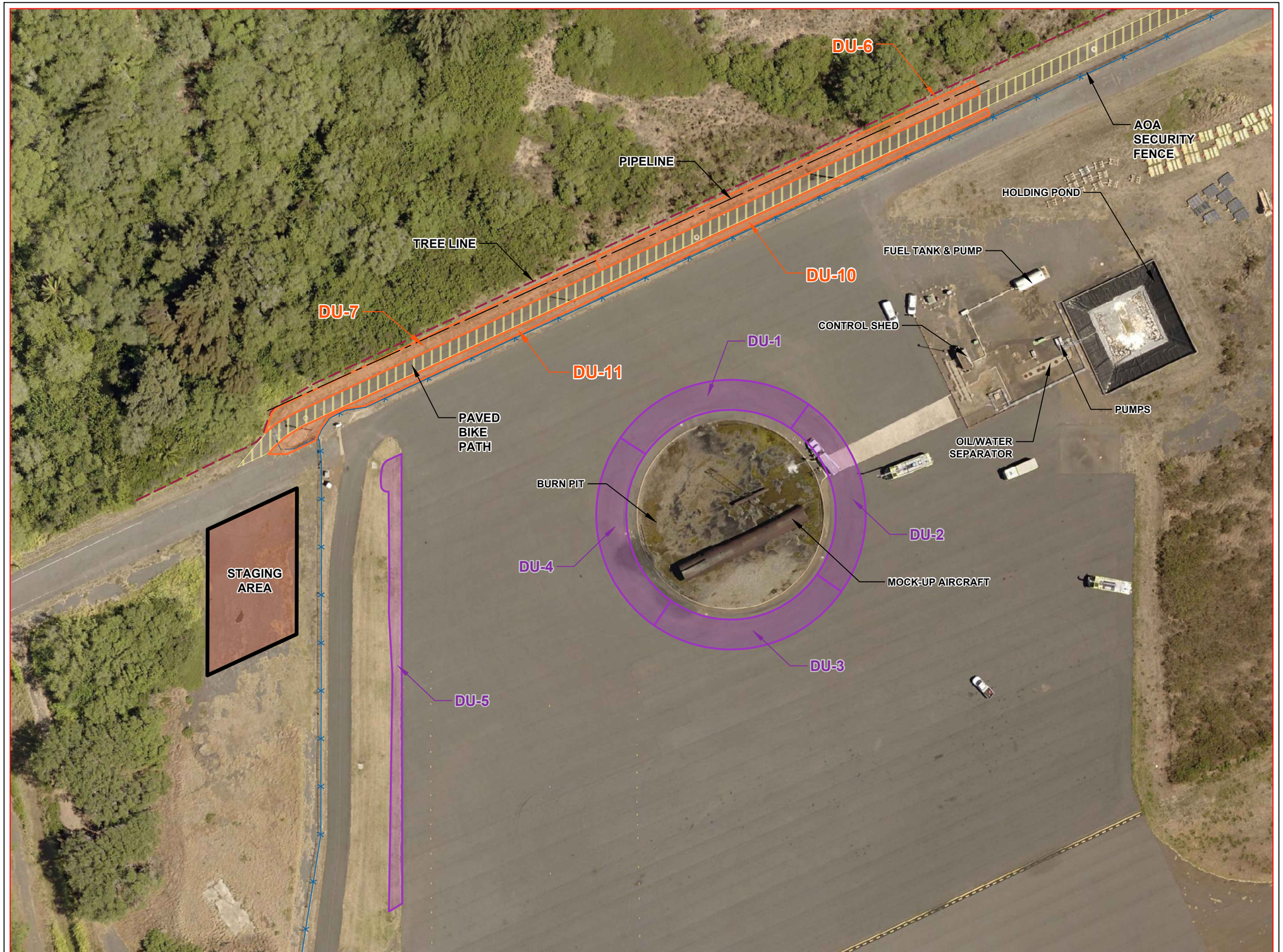
TOPO! Version 4.5.0

FIGURE 1

REGIONAL LOCATION & TOPOGRAPHIC MAP

REMOVAL ACTION WORK PLAN
Kahului ARFF Training Facility
State of Hawaii Department of Transportation
Airports Division - Kahului Airport
1 Keolani Place, Kahului, Hawaii
TMK No. (2) 3-8-001:019

ENVIRONMENTAL SCIENCE INTERNATIONAL



LEGEND

- REMOVAL ACTION DECISION UNIT [DU]
- DU IN THE AIR OPERATIONS AREA [AOA]
- AOA SECURITY FENCE
- TREE LINE
- PAVED BIKE PATH
- PIPELINE
- STAGING AREA

NOTES

The accuracy of this document is limited to the quality and scale of the source information. This document is not a legal representation of an engineered survey.

SOURCES

Maui Pictometry. Eagleview, 2020.

http://planning.hawaii.gov/gis, 2022

NORTH

GRAPHIC SCALE

60 0 60

Scale in Feet

FIGURE 2

SITE MAP

REMEDIAL ACTION WORK PLAN
Kahului ARFF Training Facility
State of Hawaii Department of Transportation
Airports Division - Kahului Airport
1 Keolani Place, Kahului, Hawaii
TMK No. (2) 3-8-001:019

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ENVIRONMENTAL SCIENCE INTERNATIONAL

APPENDIX A

TIER 2 DIRECT EXPOSURE HAZARD EVALUATION

CHEMICAL	[1]HDOH Direct Exposure Action Level (mg/kg)	[2]Adjusted Direct Exposure Action Level (mg/kg)	DU-6A (mg/kg)	[3]Hazard Quotient	DU-6B (mg/kg)	[3]Hazard Quotient	DU-7A (mg/kg)	[3]Hazard Quotient	DU-7B (mg/kg)	[3]Hazard Quotient	DU-10 (mg/kg)	Hazard Quotient	DU-11 (mg/kg)	Hazard Quotient
Perfluorobutane sulfonate (PFBS)	1.9E+00	1.9E+01	0.00011	5.8E-06	0.00044	2.3E-05	0.000077	4.1E-06	0.00016	8.4E-06	0.00162	8.5E-05	0.00252	1.3E-04
Perfluorohexane sulfonate (PFHxS)	1.3E-01	1.3E+00	0.0021	1.7E-03	0.0085	6.7E-03	0.0017	1.3E-03	0.0024	1.9E-03	0.0117	9.3E-03	0.0246	1.9E-02
Perfluoroheptane sulfonate (PFHpS)	6.3E-02	6.3E-01	0.0018	2.8E-03	0.0027	4.3E-03	0.0003	4.7E-04	0.00029	4.6E-04	0.001	1.6E-03	0.00317	5.0E-03
Perfluorooctane sulfonate (PFOS)	1.3E-02	1.3E-01	0.8	6.3E+00	0.24	1.9E+00	0.27	2.1E+00	0.071	5.6E-01	0.225	1.8E+00	0.385	3.0E+00
Perfluorodecane sulfonate (PFDS)	6.3E-02	6.3E-01	0.000057	9.0E-05	ND	-	0.006	9.5E-03	0.00018	2.8E-04	0.00333	5.3E-03	0.00168	2.7E-03
Perfluoro butanoate (PFBA)	2.4E+01	2.4E+02	0.00034	1.4E-06	0.0006	2.5E-06	0.00025	1.0E-06	0.00036	1.5E-06	0.00206	8.6E-06	0.00198	8.2E-06
Perfluoro pentanoate (PFPeA)	2.5E+00	2.5E+01	0.00072	2.8E-05	0.0016	6.3E-05	0.00078	3.1E-05	0.0013	5.1E-05	0.00371	1.5E-04	0.00494	2.0E-04
Perfluoro hexanoate (PFHxA)	3.2E+00	3.2E+01	0.00095	3.0E-05	0.0026	8.2E-05	0.00089	2.8E-05	0.0013	4.1E-05	0.00209	6.6E-05	0.00297	9.4E-05
Perfluoro heptanoate (PFHpA)	1.3E-01	1.3E+00	0.00027	2.1E-04	0.00062	4.9E-04	0.00029	2.3E-04	0.00039	3.1E-04	0.000624	4.9E-04	0.000717	5.7E-04
Perfluoro octanoate (PFOA)	1.9E-02	1.9E-01	0.00053	2.8E-03	0.0017	9.0E-03	0.00042	2.2E-03	0.00039	2.1E-03	0.00105	5.5E-03	0.00119	6.3E-03
Perfluoro nonanoate (PFNA)	1.9E-02	1.9E-01	0.0011	5.8E-03	0.00055	2.9E-03	0.00035	1.8E-03	0.0003	1.6E-03	0.00137	7.2E-03	0.000317	1.7E-03
Perfluoro decanoate (PFDA)	1.3E-02	1.3E-01	0.00021	1.7E-03	0.000072	5.7E-04	0.0015	1.2E-02	0.00038	3.0E-03	0.00277	2.2E-02	0.00129	1.0E-02
Perfluoro undecanoate (PFUnDA)	3.2E-02	3.2E-01	ND	-	ND	-	0.001	3.2E-03	0.000046	1.5E-04	0.00269	8.5E-03	0.00123	3.9E-03
Perfluoro dodecanoate (PFDoDA)	4.2E-02	4.2E-01	ND	-	ND	-	0.00058	1.4E-03	ND	-	0.00157	3.7E-03	0.0018	4.3E-03
Perfluoro tridecanoate (PFTrDA)	4.2E-02	4.2E-01	ND	-	ND	-	0.000058	1.4E-04	ND	-	0.000326	7.7E-04	0.000501	1.2E-03
Perfluoro tetradecanoate (PFTeDA)	4.2E-01	4.2E+00	ND	-	ND	-	0.000041	9.7E-06	ND	-	0.000287	6.8E-05	0.000516	1.2E-04
Perfluroroctane sulfonamide (PFOSA)	7.6E-02	7.6E-01	0.00014	1.8E-04	0.000094	1.2E-04	0.0012	1.6E-03	0.00023	3.0E-04	0.000733	9.7E-04	0.000818	1.1E-03
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propanoate (HFPO-DA)	1.9E-02	1.9E-01	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
	2.5E+00	**[4]Hazard Index:**		**6**		**2**		**2**		1		**2**		**3**

Reference: HDOH, 2022, Interim Soil and Water Environmental Action Levels (EALs) for Perfluoroalkyl and Polyfluoroalkyl Substances (PFASs): Hawaii Department of Health, Hazard Evaluation and Emergency Response, December, 2022.

Bold shaded values exceed a hazard index of 1.

Notes:

1. Reflects assumed unrestricted/residential exposure scenario (see referenced memorandum). Noncarcinogens: Final action level based on Relative Source Contribution of 20% and target Hazard Quotient = 0.5.
2. Adjusted to reflect a Relative Source Contribution of 100% and target Hazard Quotient = 1.0
3. Hazard Quotient for individual compounds calculated as DU data divided by adjusted action level.
4. Cumulative noncancer Hazard Index calculated as sim of individual Hazard Indices. Final Hazard Index to be presented and reviewed as a single significant digit (e.g., HI of 1.45 presented as HI of 1). Discuss need to include a Relative Source Contribution Factor with HEER Office on a case-by-case basis.

APPENDIX B

REMOVAL ACTION DESIGN PLANS

Airports Division

DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

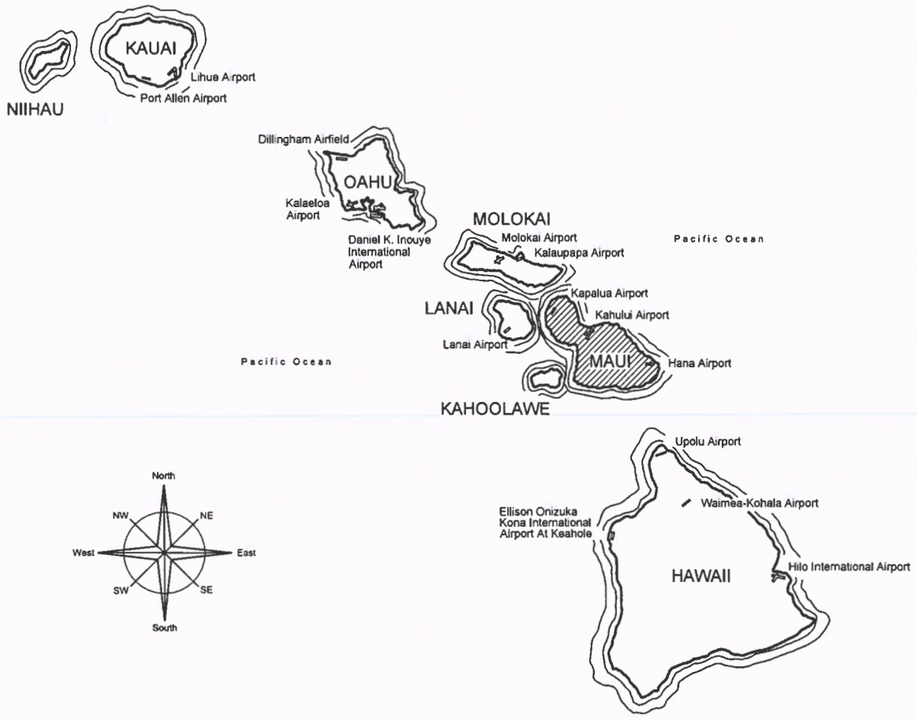
PLANS FOR

CONTAMINATED SOIL REMOVAL AT KAHULUI AIRPORT

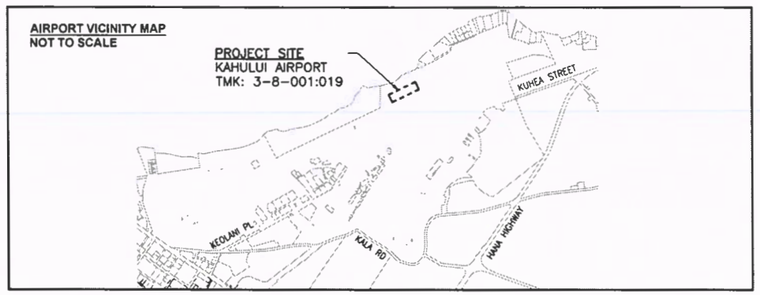
AT

MAUI, HAWAII

STATE PROJECT NO. CM1321-33



AIRPORT VICINITY MAP
NOT TO SCALE



DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

APPROVED:

DIRECTOR OF TRANSPORTATION — DATE 5/12/23

PROJECT TEAM

CIVIL:
OKAHARA AND ASSOCIATES, INC.
201 MERCHANT ST. SUITE 1650
HONOLULU HI 96813
(808) 524-1224

ALAN H. NISHIMURA
LICENSED PROFESSIONAL ENGINEER
No. 15517-C
HAWAII U.S.A.

ALAN H. NISHIMURA
CIVIL ENGINEER

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

ALAN H. NISHIMURA
LICENSED PROFESSIONAL ENGINEER
No. 15517-C
HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: 04/30/2024

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

KEY PLAN / NOTES:

NO.	DATE	REVISIONS

100% DESIGN

04/25/2023
DATE

PROJECT TITLE :

CONTAMINATED SOIL REMOVAL AT KAHULUI AIRPORT
AT
MAUI, HAWAII

PROJECT NO.:

CM1321-33

SHEET TITLE:

TITLE SHEET

Addendum No.1

DATE:	DWG. NO.
APRIL 2023	G-001
SHEET: 1 OF 3 SHEETS	

DRAWING INDEX

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

BEST MANAGEMENT PRACTICES (BMP) NOTES:

1. THE BMPS SHALL BE APPLIED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK AND SHALL NOT BE REMOVED UNTIL CONSTRUCTION IS COMPLETE.
2. SILT BARRIER: ENVIROTECH BIOSOLUTIONS - BIOSOCK, OR APPROVED SUBSTITUTE.
3. COMPOSITE FILTER MEDIA: SANITIZED, MATURE COMPOST WITH NO IDENTIFIABLE FEEDSTOCK 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.
4. 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 (CO_2 RATE):	MG CO_2-C PER GRAM OF ORGANIC MATTER PER DAY	< 8
PHYSICAL CONTAMINANTS (MANMADE INERTS):	%, DRY WEIGHT	< 1

5. ROLL: SILT BARRIER SHALL UTILIZE AN OUTER LAYER OF FILTRATION MESH, AND AN INNER LAYER OF CONTAINMENT NETTING. ALL LAYERS SHALL COLLECTIVELY ENCLOSE THE COMPOST FILTRATION MEDIA. SILT BARRIER SHALL BE 12 INCHES NOMINAL DIAMETERS.
6. 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.
7. 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.
8. 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.
9. 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.
10. EXCAVATED, DEMOLISHED, CLEARED & GRUBBED MATERIAL NOT SUITABLE FOR REUSE SHALL BE HAULED OFF SITE FOR DISPOSAL IN ACCORDANCE WITH THE COUNTY OF MAUI REGULATIONS.
11. THE CONTRACTOR SHALL CLEAN THE PROJECT SITE OF DEBRIS AT THE END OF EACH WORKDAY.
12. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED USING VEGETATIVE COVERING, PAVEMENT, OR EQUIVALENT, PRIOR TO REMOVING EROSION AND SEDIMENT CONTROL MEASURES.
13. PRACTICE GOOD HOUSEKEEPING MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
14. 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.):

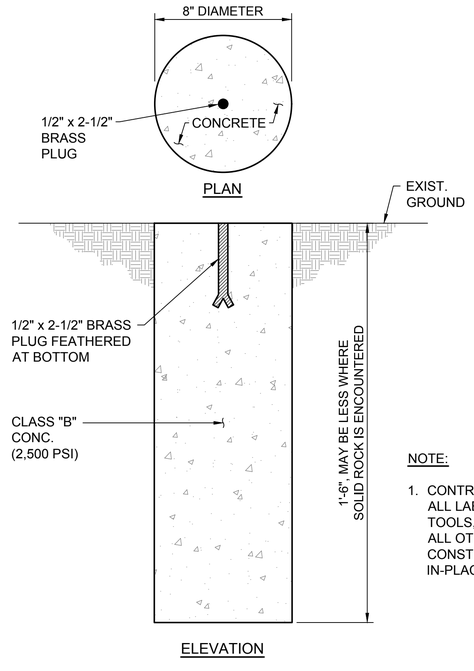
15. EXCAVATED SOIL SHALL BE PLACED IN PROPERLY DESIGNED STOCKPILE CELLS IF NOT LOADED DIRECTLY INTO SHIPPING CONTAINERS.
16. THE STOCKPILE CELL WILL BE CREATED BY LAYING DOWN AN IMPERMEABLE LINER THAT IS BERMED TO PREVENT STORMWATER AND RAINWATER FROM COMING INTO CONTACT WITH THE STOCKPILED SOIL.
17.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

GENERAL CONSTRUCTION NOTES:

1. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986, AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENTS OF PUBLIC WORKS.
2. 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, CAVE-INS AND SETTLEMENT, AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDERPINNING TO FULLY PROTECT IT FROM DAMAGE.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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 REPLACED AND REPAIRED TO ORIGINAL CONDITION, TO THE SATISFACTION OF THE ENGINEER AND PAID FOR BY THE CONTRACTOR.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.):

14. 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.
15. 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.
16. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND SERVICES TO PROPERLY PERFORM AND FULLY COMPLETE ALL WORK SHOWN ON CONTRACT, DRAWINGS AND SPECIFICATIONS.
17. 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.
18. 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) 692-8015.
19. 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 ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI - TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS".
20. THE CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS.
21. THE CONTRACTOR SHALL PROVIDE ACCESS TO AND FROM DRIVEWAYS AND PUBLIC STREETS AT ALL TIMES.
22. 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.
23. 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 IN-PLACE COMPLETE.

1 / C-001 MONUMENT DETAIL

NOT TO SCALE

STATE OF HAWAII 1959

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

ALAN H. NISHIMURA
LICENSED PROFESSIONAL ENGINEER
No. 15517-C
HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE 04/30/2024 EXPIRATION DATE OF THE LICENSE

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

KEY PLAN / NOTES:

NO.	DATE	REVISIONS

100% DESIGN

04/25/2023
DATE

PROJECT TITLE :

CONTAMINATED SOIL REMOVAL AT KAHULUI AIRPORT
AT
MAUI, HAWAII

PROJECT NO.:

CM1321-33

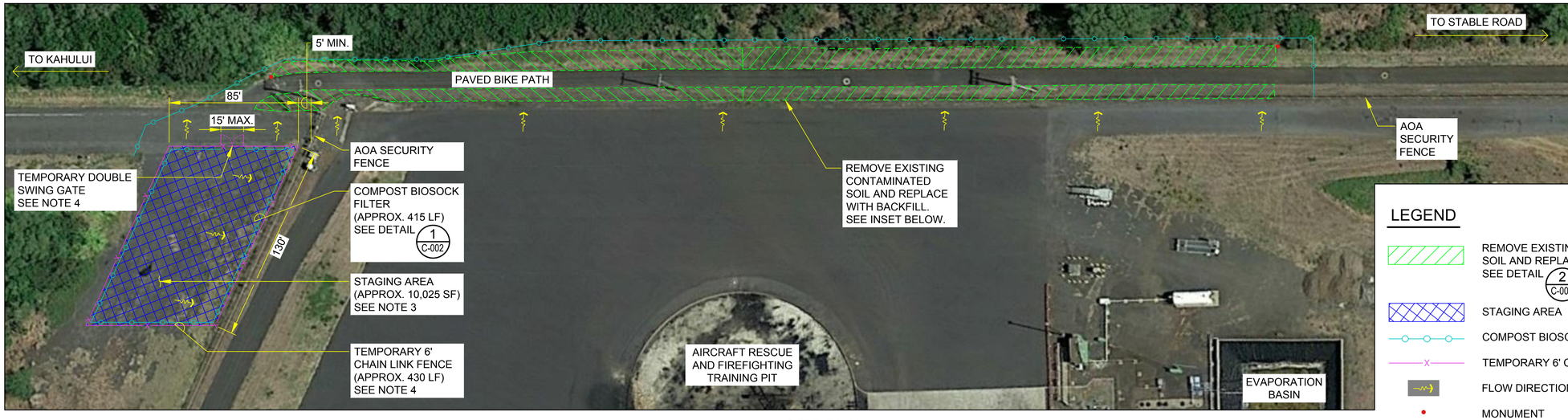
SHEET TITLE:

DRAWING INDEX, CIVIL NOTES, AND DETAIL

Addendum No.1

DATE :	DWG. NO.
APRIL 2023	C-001
SHEET :	
2 OF 3 SHEETS	

Y:\PROJ\2222\222-094 HNL AND OGG TRAINING PIT REMEDIATION\CAD\SHEETS\SHT_CIVIL NOTES.DWG

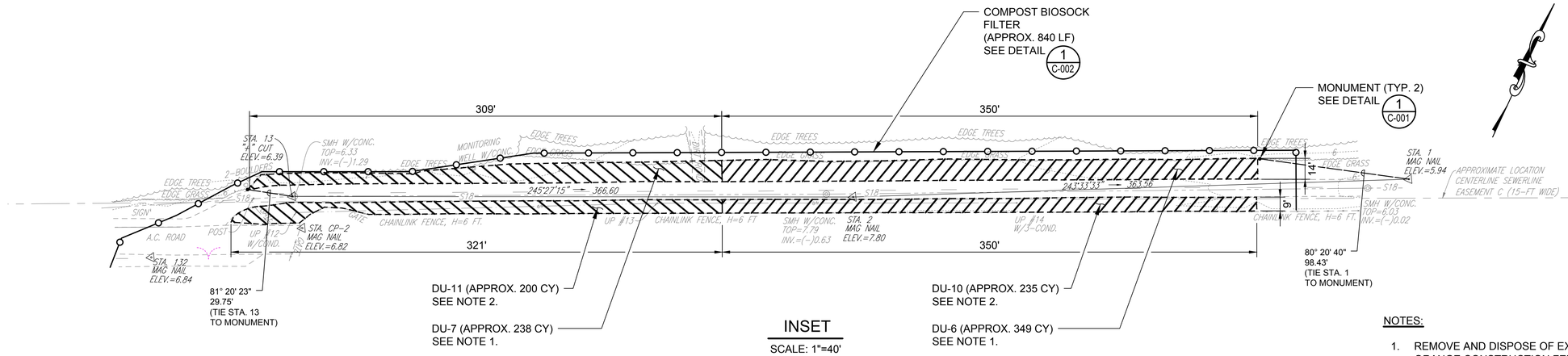


SITE PLAN

SCALE: 1"=40'

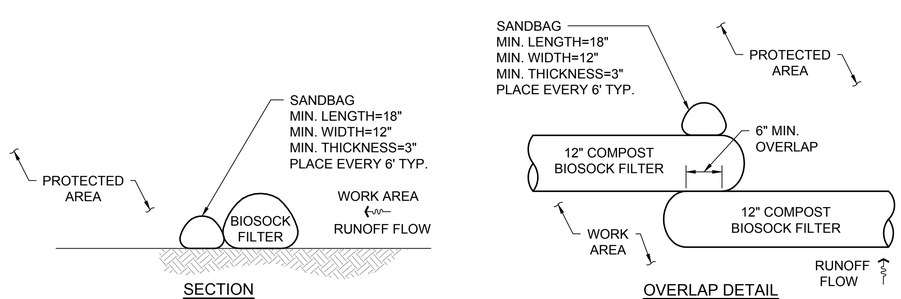
LEGEND

- 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



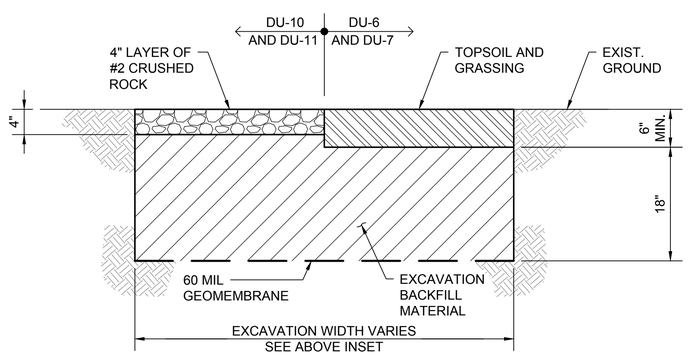
INSET

SCALE: 1"=40'



1 C-002 COMPOST BIOSOCK FILTER DETAIL

NOT TO SCALE



2 C-002 EXCAVATION RESTORATION DETAIL

NOT TO SCALE

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.

SCALE: 1" = 40' (40' 20' 0 40' 80')

STATE OF HAWAII 1959

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

ALAN H. NISHIMURA
LICENSED PROFESSIONAL ENGINEER
No. 15517-C
HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

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DSGN.	DRWN.	CHKD.	APPD.
AHN	KMH	AHN	AHN

KEY PLAN / NOTES:

NO.	DATE	REVISIONS

100% DESIGN

04/25/2023
DATE

PROJECT TITLE :

CONTAMINATED SOIL REMOVAL AT KAHULUI AIRPORT
AT
MAUI, HAWAII

PROJECT NO.:

CM1321-33

SHEET TITLE:

SITE PLAN AND DETAILS

Addendum No.1

DATE :	DWG. NO.
APRIL 2023	C-002
SHEET :	
3 OF 3 SHEETS	

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS DIVISION

PRE-BID MEETING AGENDA

DATE: May 22, 2023 **TIME:** 10:00 AM

LOCATION: State of Hawaii Department of Transportation Airports Division
Microsoft Teams Web-Conference
Call-in Phone No.: (808) 829-4853
Phone Conference ID: 895 531 216#
WebMeeting ID: 227 824 829 360
Passcode: CpXmdH

PROJECT: Contaminated Soil Removal
Kahului Airport, Maui, Hawaii
State Project No. CM1321-33

PRESENT: See attached list

SUBJECT: Pre-Bid Meeting

MEETING SUMMARY:

I. GENERAL DISCUSSION

1. The State Project Manager will fill out the attendance sheet as completely as possible. All persons that were emailed meeting invitations shall be emailed a copy of the draft meeting minutes and attendance list for review and comment in order to ensure accuracy. Once finalized, a copy of the meeting minutes will be attached to the bid documents via addendum.

2. Introduction of participants

3. RFIs shall be submitted in writing via HIePRO prior to the due date and time noted in the Notice to Bidders (May 26, 2023 @ 2:00 PM).

4. This meeting is to clarify general questions only. If there is a conflict between what was stated in this meeting and the bid documents, the bid documents shall govern. Any significant changes will be issued through an addendum. A copy of the meeting minutes will be issued to all attendees.

5. Important items brought to the attendees' attention:

- Site visits will need to scheduled with the Maui District Office.

- Deadline to submit bids is June 15, 2023 2:00 p.m., Hawaii Standard Time. The complete bid Proposal Schedule shall be uploaded into HIePRO prior to bid opening date and time. All other required confidential and ~~propriety~~ proprietary documents shall be uploaded separately. Failure to upload the bid Proposal Schedule into HIePRO shall be grounds for the rejection of the bid. Bids received after said due date and time shall not be considered.

- Bid Opening is June 15, 2023

- Bidders are reminded to upload their bid documents onto HIePRO as instructed in the bid documents. Bidders are responsible for ensuring that their bid documents are submitted correctly.

- Bidders shall not "condition" their bids.

6. Project duration is two hundred forty (180) working days.

7. Unless there is a problem with the award or contract execution process, the State intends to issue the Notice to Proceed by November 2023 at the earliest.

8. Requests for AOA badges, AOA stickers, ramp licenses, etc. shall be submitted within 14 calendar days after award of contract. In addition to the requirements stated in the Contract Bid Documents, all Contractors shall comply with the requirements and procedures of the Contractor's Training Guide.

9. Drawings for the project were inadvertently left out of the original solicitation and will be available in an addendum.

10. Bike lane is used by the public and must be kept open during construction.

II. **QUESTIONS**

1. Contractor question: Will there be a mechanism to verify the removal work is complete? Verification?

DOTA response: No verification sampling is required to verify if the removal work is complete. The drawings have the limits of excavation.

2. Contractor question: Will any analytical data be provided?

   DOTA response: DOTA will provide the Removal Action Work Plan in an addendum. The Work Plan includes soil sample analytical data.

3. Contractor question: What is the approx. area of work? More than one acre?

   DOTA response: The work area is less than one acre. The work area dimensions are included in the drawings that will be uploaded to HIePRO.

4. Contractor question: With regards to the bike path remaining open during construction, how wide an area will the contractor have to leave? What is the width of the bike lane?

   DOTA response: Width of the emergency access area will need to be verified by DOTA.

5. Contractor question: Where is the nearest available water supply at the work site.

   DOTA response: Will need to verify but it appears that the ARFF training pit area is the nearest water supply.

6. Contractor question: Who is the contact at Kahului Airport for site visitation?

   DOTA response: Mr. Richard Stook, HDOTA Maui District Environmental Health Specialist - (808) 872-3407

7. Contractor question: Will the excavation need to remain open until verification samples are collected?

DOTA response: No verification soil samples are required. DOTA's environmental consultant may be onsite to collect soil samples from the excavation, but the samples will not be used to verify if removal work under this contract is complete.

8. Contractor question: Is there a set date for a site visit or can we set it up anytime?

DOTA response: Site visits shall be coordinated with Mr. Richard Stook, HDOTA Maui District Environmental Health Specialist - (808) 872-3407

Meeting adjourned at: 10:45 a.m.

c: All attendees (See attached sign-in sheet)

MEETING ATTENDANCE SHEET
Pre-Bid Meeting

Project Name: Contaminated Soil Removal
Kahului Airport, Kahului, Maui, Hawaii
Project No. CM1321-33
AIP Project No:
Meeting Location: Microsoft Teams Date: May 22, 2023

Name:Benton Ho Title:Facilities Engineer	Company:DOT Airports Address:	Phone: Fax: E-Mail:
Name: Stacy Paquette Title:	Company: DOT Airports Address:	Phone: Fax: E-Mail:
Name: Amy Hunley Title:	Company: DOT Airports Address:	Phone: Fax: E-Mail:
Name: Robert Chong Title:	Company: ESI Inc. Address:	Phone: Fax: E-Mail:
Name: Traci Sylva Title:	Company: ESI Inc. Address:	Phone: Fax: E-Mail:
Name: Haryson Lum Title:	Company: GOETC Address:	Phone: Fax: E-Mail:
Name: James Estores Title:	Company: Nakupuna Address:	Phone: Fax: E-Mail:
Name: Darlene Ige Title:	Company: Nakupuna Address:	Phone: Fax: E-Mail:
Name: Pua Frisbie Title:	Company: Nakupuna Address:	Phone: Fax: E-Mail:
Name: Welton Chang Title:	Company: First on Site Address:	Phone: Fax: E-Mail:

MEETING ATTENDANCE SHEET
Pre-Bid Meeting

Project Name: Contaminated Soil Removal
Kahului Airport, Kahului, Maui, Hawaii
Project No. CM1321-33
AIP Project No:
Meeting Location: Microsoft Teams Date: May 22, 2023

Name: Aaron Poentis Title:	Company: First on Site Address:	Phone: Fax: E-Mail:
Name: Derek Amaral Title:	Company: First on Site Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail: