

# Airports

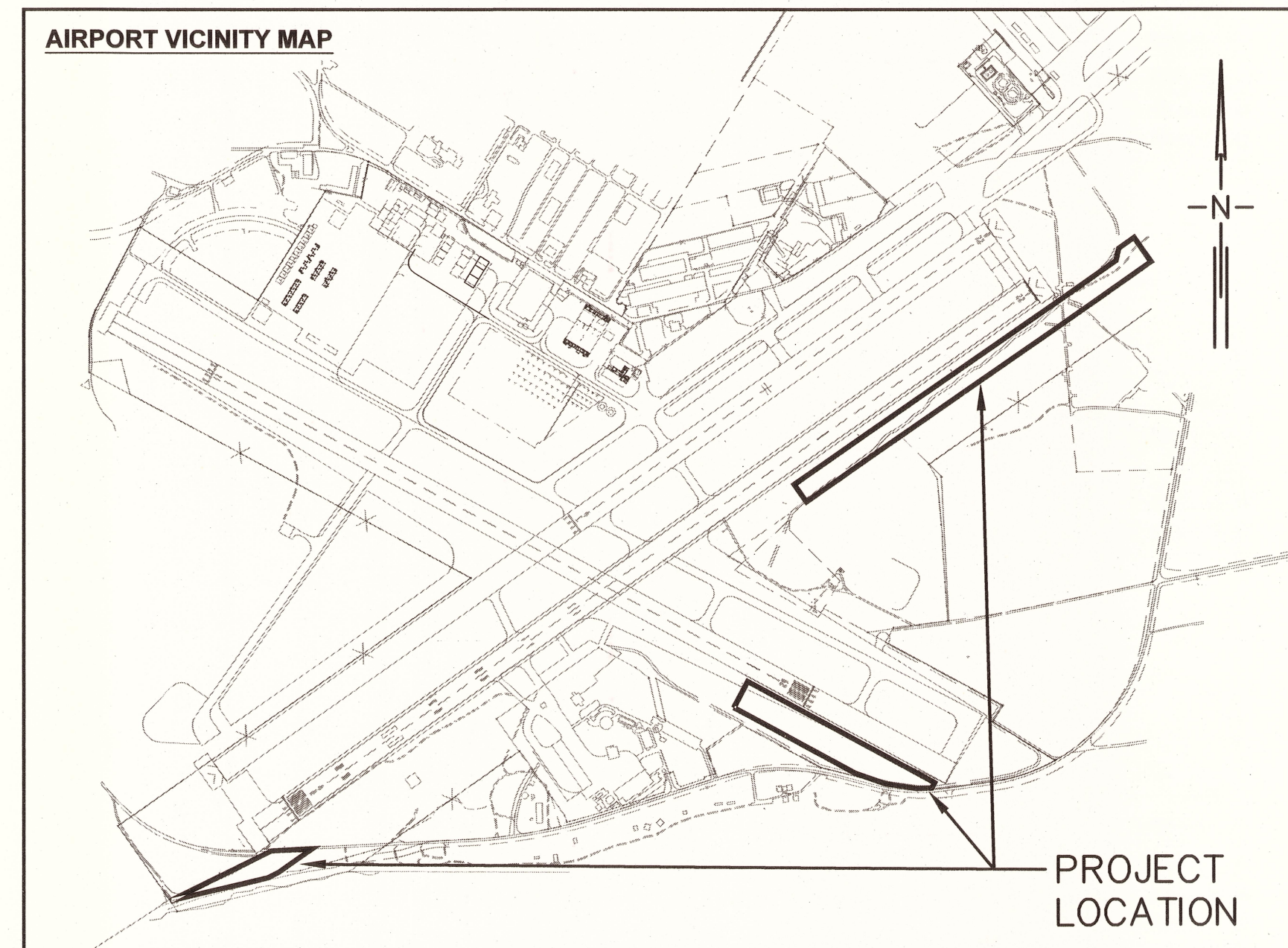
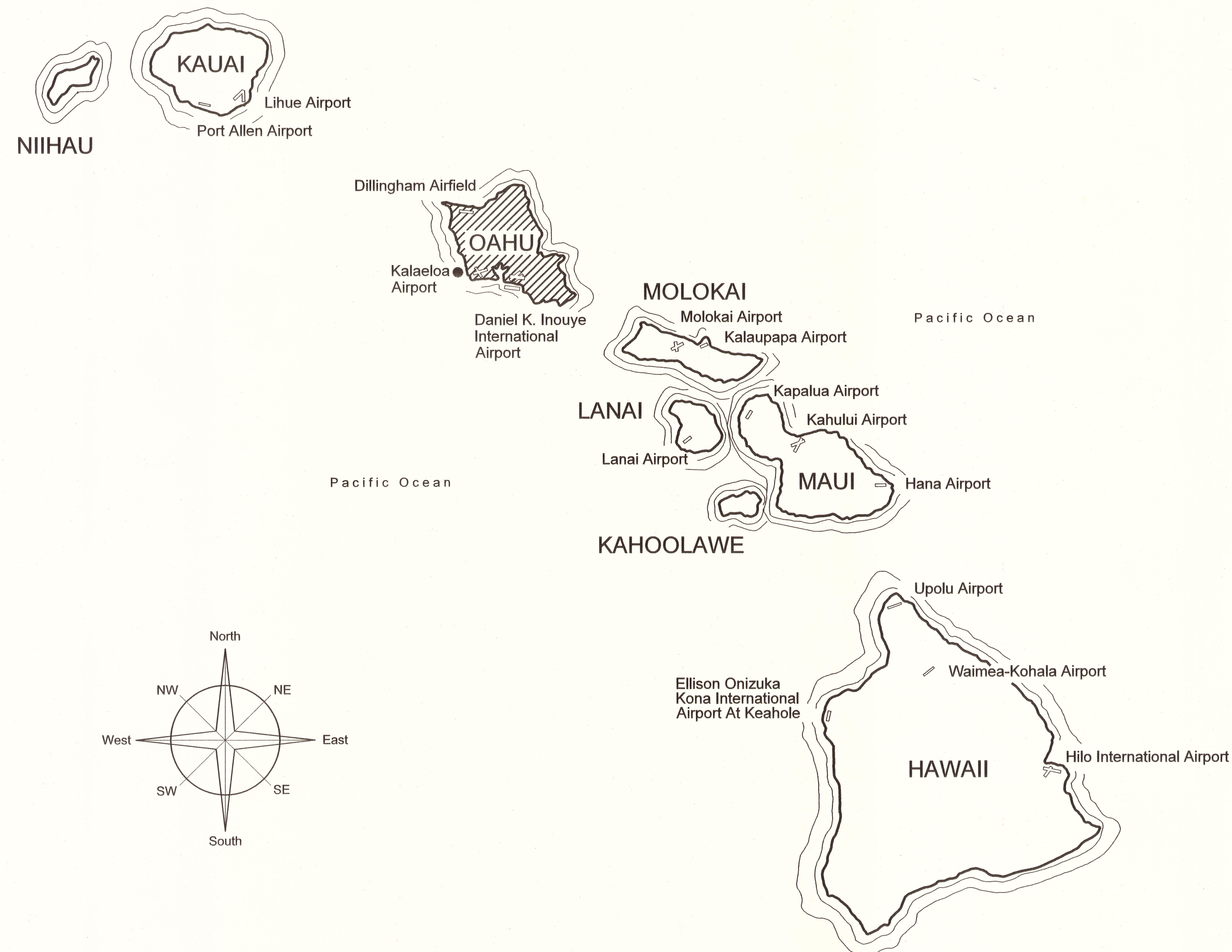
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII

PLANS FOR

## RSA CLEARING

AT

### KALAELOA AIRPORT KAPOLEI, OAHU, HAWAII PROJECT NO. CO4422-33



**PROJECT TEAM**

CIVIL:  
WESLEY R. SEGAWA &  
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I HEREBY CERTIFY THAT THIS  
WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

*Neal S. Fukumoto*  
NEAL S. FUKUMOTO  
CIVIL ENGINEER

4/30/24  
EXPIRATION DATE



DSGN.	DRWN.	CHKD.	APPD.
RF	RF	CD	NF

KEY PLAN / NOTES:

NO.	DATE	REVISIONS

**CONSTRUCTION DOCUMENTS**  
MAY 2023  
DATE

PROJECT TITLE :

**RSA CLEARING**

AT  
KALAELOA AIRPORT  
KAPOLEI, HAWAII

PROJECT NO.:

**CO4422-33**

SHEET TITLE:

**TITLE SHEET**

DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII

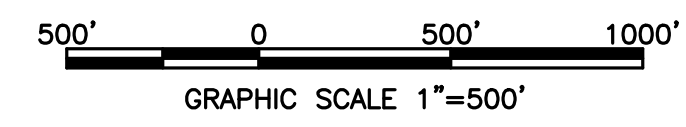
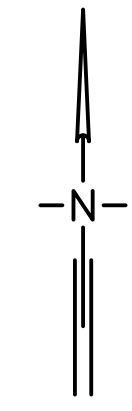
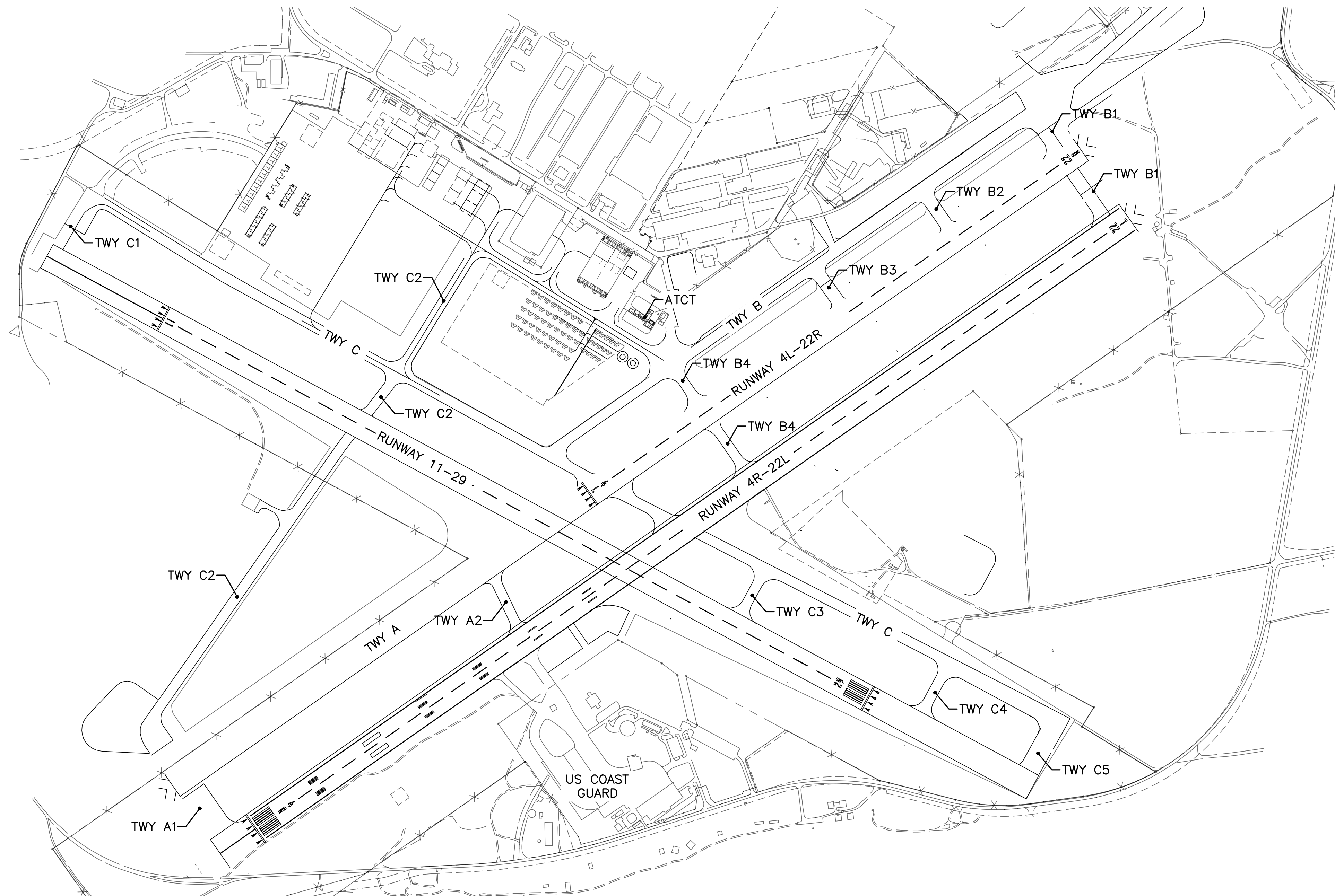
APPROVED:

*Mary St*  
DIRECTOR OF TRANSPORTATION

5/30/23  
DATE

DATE :	DWG. NO.
MAY 2023	G-1
SHEET :	
1 OF 14 SHEETS	

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**KALAELOA AIRPORT SITE PLAN**

<b>ABBREVIATIONS:</b>			
© AT	EPA ENVIRONMENTAL PROTECTION AGENCY	ROFA RUNWAY OBJECT FREE AREA	
AC ADVISORY CIRCULAR	FAA FEDERAL AVIATION ADMINISTRATION	RWY RUNWAY	
AFFF AIRPORT FIRE FIGHTING FOAM	FS FILTER SOCK	SPCD SAFETY PLAN COMPLIANCE DOCUMENT	
AIR-EE DEPARTMENT OF TRANSPORTATION, AIRPORTS DIVISION, ENGINEERING ENVIRONMENTAL SECTION	GPS GLOBAL POSITIONING SYSTEM	SSBMP SITE SPECIFIC BMP PLAN	
AOA AIR OPERATIONS AREA	HDOTA HAWAII DEPARTMENT OF TRANSPORTATION AIRPORTS DIVISION	SSC SYSTEM SUPPORT CENTER	
APPROX. APPROXIMATELY	HST HAWAII STANDARD TIME	SWMPP STORM WATER MANAGEMENT PROGRAM PLAN	
ARFF AIRCRAFT RESCUE AND FIRE FIGHTING	ILS INSTRUMENT LANDING SYSTEM	TSA TAXIWAY SAFETY AREA	
ATC AIR TRAFFIC CONTROL	JRF KALAELOA AIRPORT	TOFA TAXIWAY OBJECT FREE AREA	
ATCT AIR TRAFFIC CONTROL TOWER	MAX MAXIMUM	USFWS UNITED STATES FISH AND WILDLIFE SERVICES	
BMP BEST MANAGEMENT PRACTICE	MSDS MATERIAL SAFETY DATA SHEET	TWY TAXIWAY	
C/L CENTERLINE	NAVAID NAVIGATIONAL AID	TYP. TYPICAL	
CSPP CONSTRUCTION SAFETY AND PHASING PLAN	NOTAM NOTICE TO AIRMEN	WIP WORK IN PROGRESS	
CLR CLEAR	OTS OUT OF SERVICE	W/ WITH	
CWB CLEAN WATER BRANCH	PAPI PRECISION APPROACH PATH INDICATORS		
DOFAW DIVISION OF FORESTRY AND WILDLIFE	PFAS PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES		
DOH DEPARTMENT OF HEALTH	RSA RUNWAY SAFETY AREA		

INDEX OF DRAWINGS		
SHEET NO.	DWG NO.	SHEET TITLE
1	G-1	TITLE SHEET
2	G-2	GENERAL SITE PLAN
3	G-3	CSPP OVERVIEW
4	G-4	CSPP PHASE 1
5	G-5	CSPP PHASE 2
6	G-6	CSPP PHASE 3
7	C-1	GENERAL NOTES
8	C-2	EROSION CONTROL PLAN
9	C-3	CLEARING PLAN 1
10	C-4	CLEARING PLAN 2
11	C-5	CLEARING PLAN 3
12	C-6	PICTURES
13	C-7	PICTURES
14	C-8	PICTURES



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DSGN.	DRWN.	CHKD.	APPD.
RF	RF	CD	NF

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS

**CONSTRUCTION DOCUMENTS**  
 MAY 2023  
 DATE

**PROJECT TITLE :**

**RSA CLEARING**  
 AT  
 KALAELOA AIRPORT  
 KAPOLEI, HAWAII

**PROJECT NO.:**

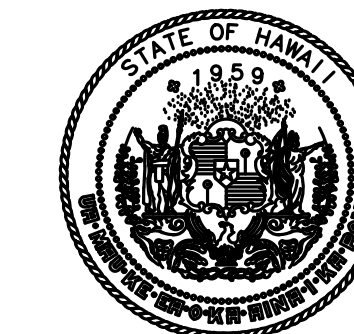
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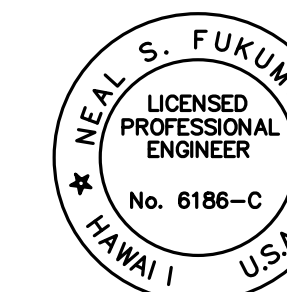
**GENERAL SITE PLAN**

DATE :	DWG. NO.
MAY 2023	G-2
SHEET :	
2 OF 14 SHEETS	

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Airports  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



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DSGN.	DRWN.	CHKD.	APPD.
RF	RF	CD	NF

**KEY PLAN / NOTES:**

**SCOPE OF WORK:**  
PHASES 1-3:  
• CLEAR VEGETATION WITHIN AND AROUND THE RSA.

**PHASE DURATIONS:**  
PHASE 1: 7 CALENDAR DAYS  
PHASE 2: 7 CALENDAR DAYS  
PHASE 3: 7 CALENDAR DAYS

TOTAL: 21 CALENDAR DAYS

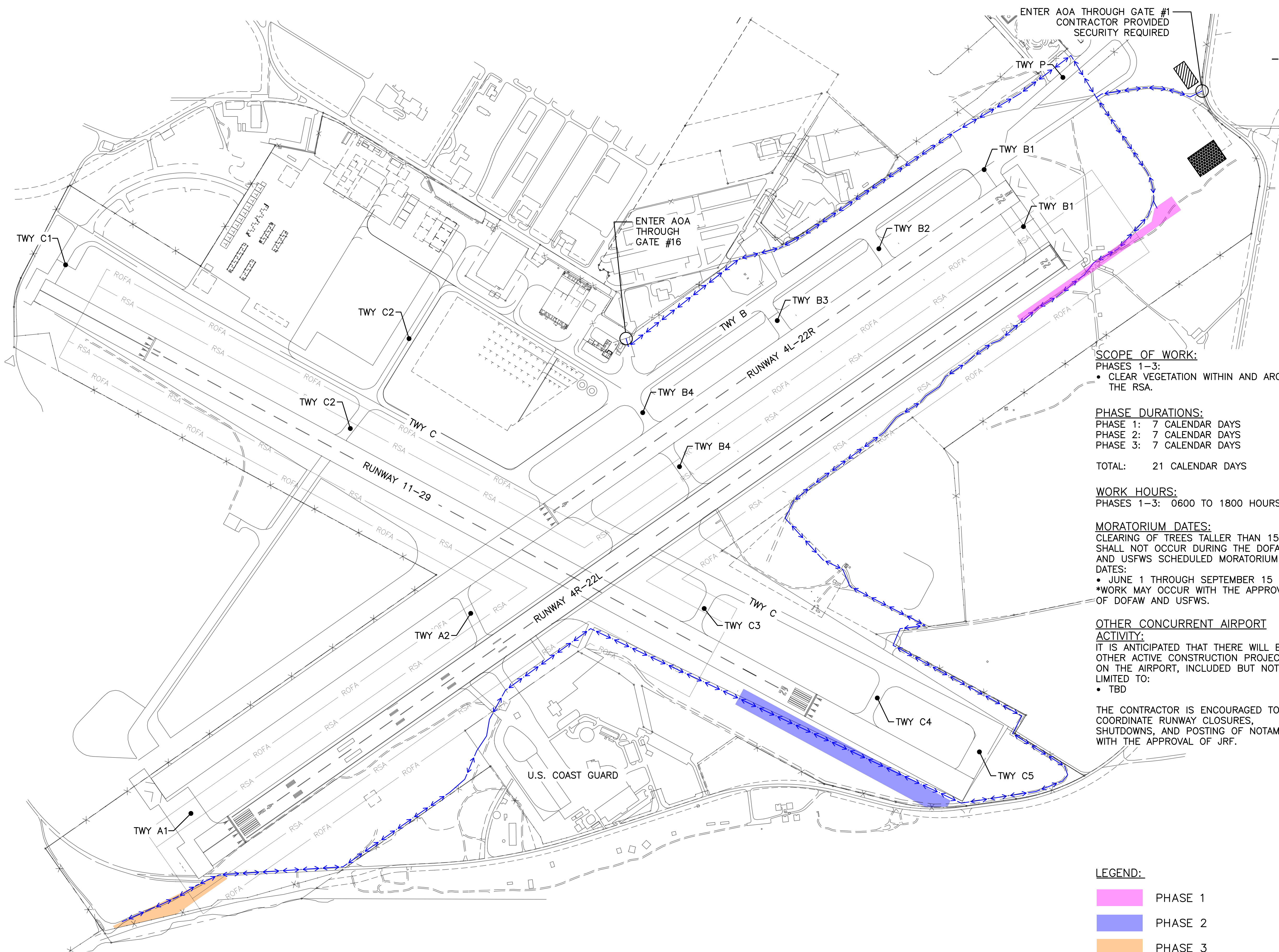
**WORK HOURS:**  
PHASES 1-3: 0600 TO 1800 HOURS HST

**MORATORIUM DATES:**  
CLEARING OF TREES TALLER THAN 15 FEET SHALL NOT OCCUR DURING THE DOFAW AND USFWS SCHEDULED MORATORIUM DATES:  
• JUNE 1 THROUGH SEPTEMBER 15  
\*WORK MAY OCCUR WITH THE APPROVAL OF DOFAW AND USFWS.

**OTHER CONCURRENT AIRPORT ACTIVITY:**  
IT IS ANTICIPATED THAT THERE WILL BE OTHER ACTIVE CONSTRUCTION PROJECTS ON THE AIRPORT, INCLUDED BUT NOT LIMITED TO:  
• TBD

THE CONTRACTOR IS ENCOURAGED TO COORDINATE RUNWAY CLOSURES, SHUTDOWNS, AND POSTING OF NOTAMS WITH THE APPROVAL OF JRF.

- LEGEND:**
- PHASE 1
  - PHASE 2
  - PHASE 3
  - STAGING AREA
  - HAUL ROUTE



**KALAELOA AIRPORT SITE PLAN**  
SCALE: 1"=400'



NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2023  
DATE

**PROJECT TITLE :**

**RSA CLEARING**

AT  
KALAELOA AIRPORT  
KAPOLEI, HAWAII

**PROJECT NO.:**

**CO4422-33**

**SHEET TITLE:**

**CSPP OVERVIEW**

DATE :

**MAY 2023**

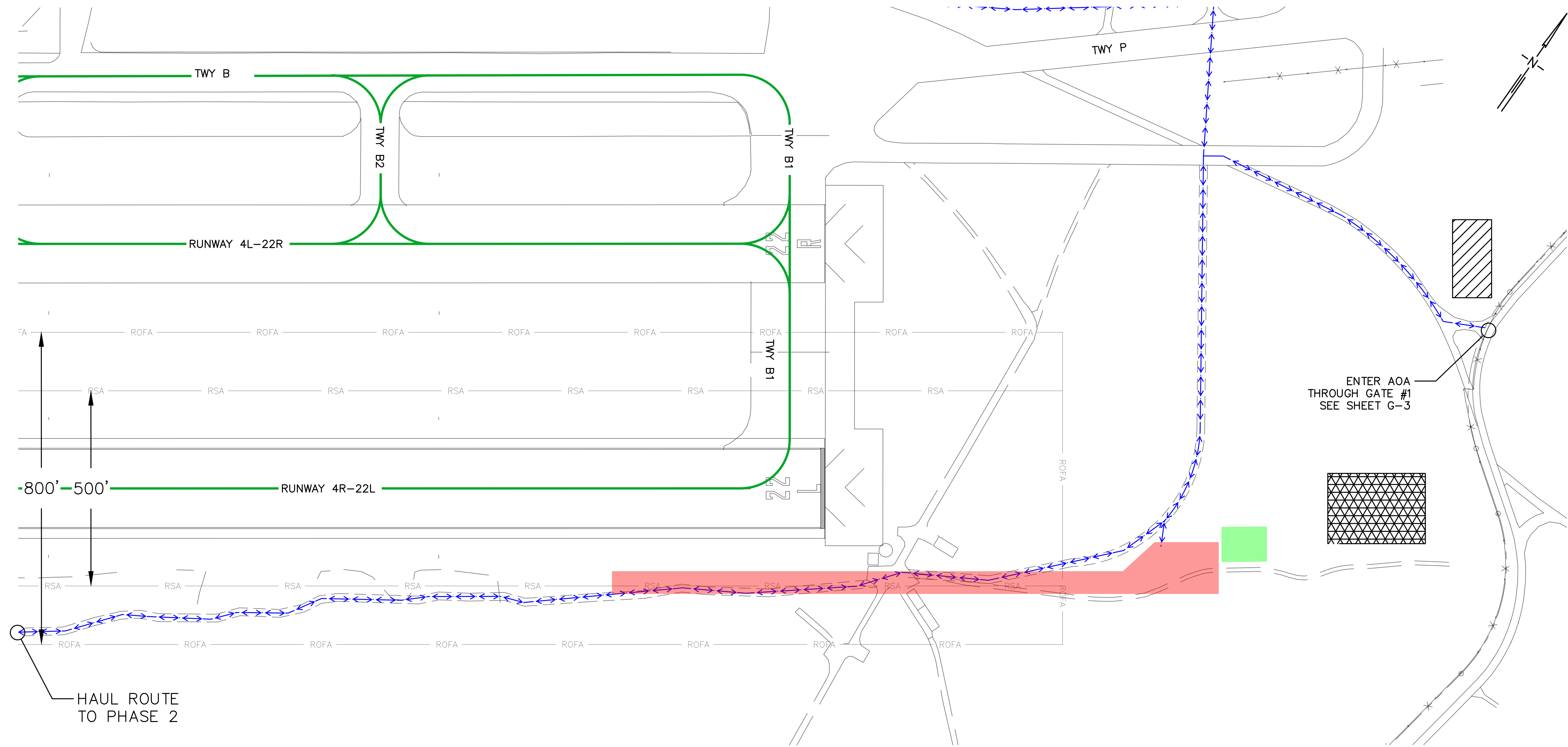
SHEET :

3 OF 14 SHEETS

DWG. NO.

**G-3**

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PHASING PLAN - PHASE 1

**DESCRIPTION:**

1. CLEAR VEGETATION WITHIN AND AROUND THE RSA.

**TYPE:**

WORK IN PROGRESS (WIP)

**DURATION:**

7 CALENDAR DAYS

**WORK HOURS:**

0600 TO 1800 HOURS HST

**REQUIRED NOTAMS:**

1. RUNWAY 4R-22L WORK IN PROGRESS (WIP)

**RUNWAY 4R-22L:**

RUNWAY SAFETY AREA (RSA): 500 FT.  
 RUNWAY OBJECT FREE AREA (ROFA): 800 FT.

**RUNWAY 11-29:**

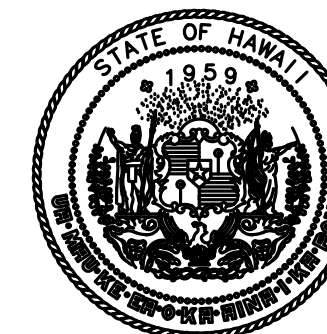
RUNWAY SAFETY AREA (RSA): 500 FT.  
 RUNWAY OBJECT FREE AREA (ROFA): 800 FT.

**NOTES:**

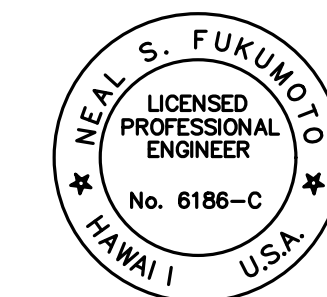
1. THE CONTRACTOR SHALL PULL BACK OUTSIDE OF THE RSA WHILE ANY AIRCRAFT IS IN THE PROCESS OF LANDING OR DEPARTING ON RUNWAY 4R-22L.
2. THE CONTRACTOR MAY ENTER THE AOA EITHER THROUGH GATE #16 OR GATE #1.
3. THE CONTRACTOR MAY USE GATE #1 TO ACCESS THE AOA ONLY IF CONTINUOUS SECURITY IS STATIONED AT THE GATE DURING WORK HOURS. JRF MANAGEMENT SHALL APPROVE THE CONTRACTOR'S SECURITY PLAN PRIOR TO THE CONTRACTOR USING GATE #1.

**LEGEND:**

- PROJECT WORK AREA
- CONTRACTOR PULLBACK AREA
- CONTRACTOR STAGING AREA
- HAUL ROUTE
- AIRCRAFT TRAVEL ROUTE



Airports  
 DEPARTMENT OF TRANSPORTATION  
 STATE OF HAWAII

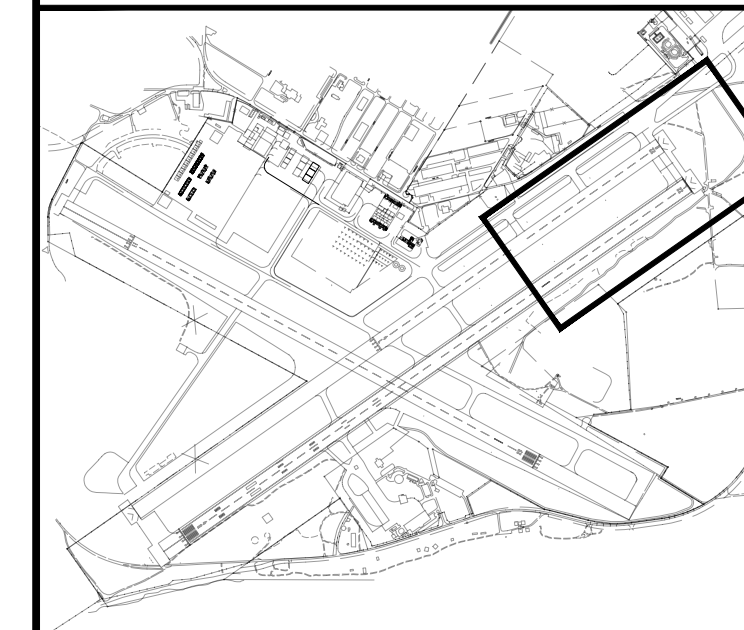


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DSGN.	DRWN.	CHKD.	APPD.
RF	RF	CD	NF

**KEY PLAN / NOTES:**



NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2023  
 DATE

**PROJECT TITLE :**

**RSA CLEARING**

AT  
 KALAELOA AIRPORT  
 KAPOLEI, HAWAII

**PROJECT NO.:**

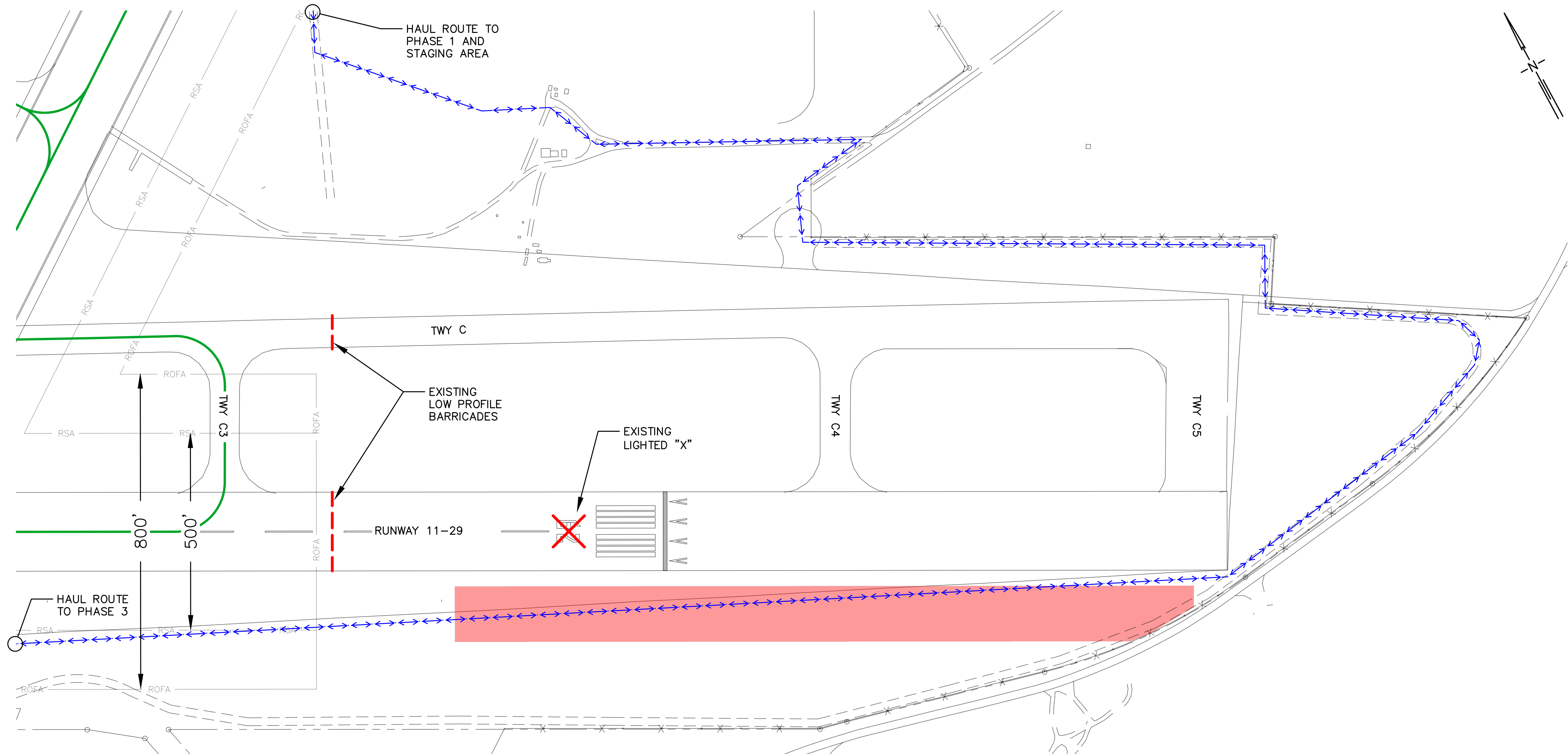
**CO4422-33**

**SHEET TITLE:**

**CSPP PHASE 1**

DATE :	DWG. NO.
MAY 2023	G-4
SHEET :	
4 OF 14 SHEETS	

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PHASING PLAN - PHASE 2

**DESCRIPTION:**  
1. CLEAR VEGETATION WITHIN AND AROUND THE RSA.

**TYPE:**  
WORK IN PROGRESS (WIP)

**DURATION:**  
7 CALENDAR DAYS

**WORK HOURS:**  
0600 TO 1800 HOURS HST

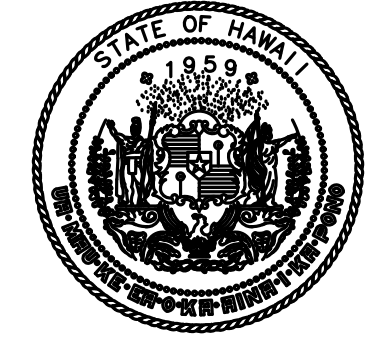
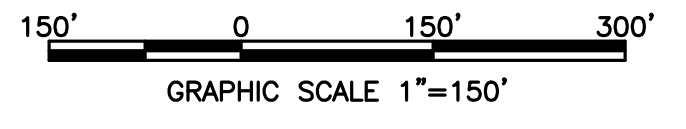
**REQUIRED NOTAMS:**  
1. RUNWAY 11-29 WORK IN PROGRESS (WIP)

**RUNWAY 4R-22L:**  
RUNWAY SAFETY AREA (RSA): 500 FT.  
RUNWAY OBJECT FREE AREA (ROFA): 800 FT.

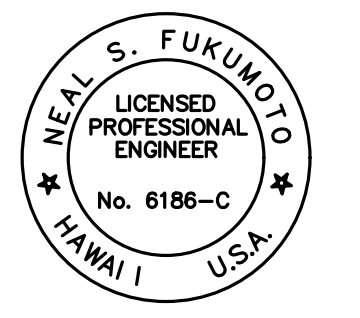
**RUNWAY 11-29:**  
RUNWAY SAFETY AREA (RSA): 500 FT.  
RUNWAY OBJECT FREE AREA (ROFA): 800 FT.

- NOTES:**
1. AT THE TIME THIS PHASING PLAN WAS WRITTEN RUNWAY 29 IS CLOSED TO LANDINGS AND RUNWAY 11 SHORTED FOR TAKEOFF AND LANDINGS UP TO TAXIWAY C3. THE CONTRACTOR SHALL CONFIRM RUNWAY OPERATING CONDITIONS WITH ATC PRIOR TO THE START OF WORK.
  2. THE CONTRACTOR MAY ENTER THE AOA EITHER THROUGH GATE #16 OR GATE #1.
  3. THE CONTRACTOR MAY USE GATE #1 TO ACCESS THE AOA ONLY IF CONTINUOUS SECURITY IS STATIONED AT THE GATE DURING WORK HOURS. JRF MANAGEMENT SHALL APPROVE THE CONTRACTOR'S SECURITY PLAN PRIOR TO THE CONTRACTOR USING GATE #1.

- LEGEND:**
- PROJECT WORK AREA
  - CONTRACTOR PULLBACK AREA
  - LIGHTED "X"
  - LOW PROFILE BARRICADES
  - HAUL ROUTE
  - AIRCRAFT TRAVEL ROUTE



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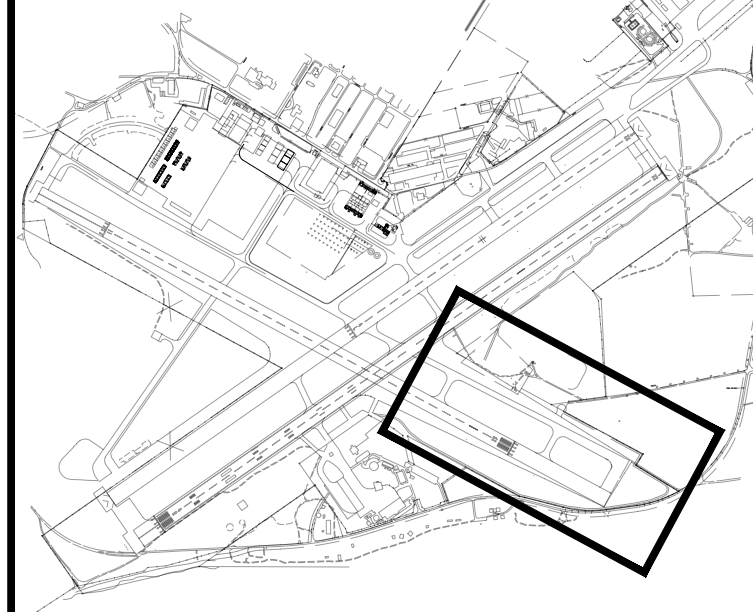


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RF	RF	CD	NF

KEY PLAN / NOTES:



NO.	DATE	REVISIONS
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CONSTRUCTION DOCUMENTS

MAY 2023  
DATE

PROJECT TITLE :

RSA CLEARING

AT  
KALAELOA AIRPORT  
KAPOLEI, HAWAII

PROJECT NO.:

CO4422-33

SHEET TITLE:

CSPP PHASE 2

DATE :

MAY 2023

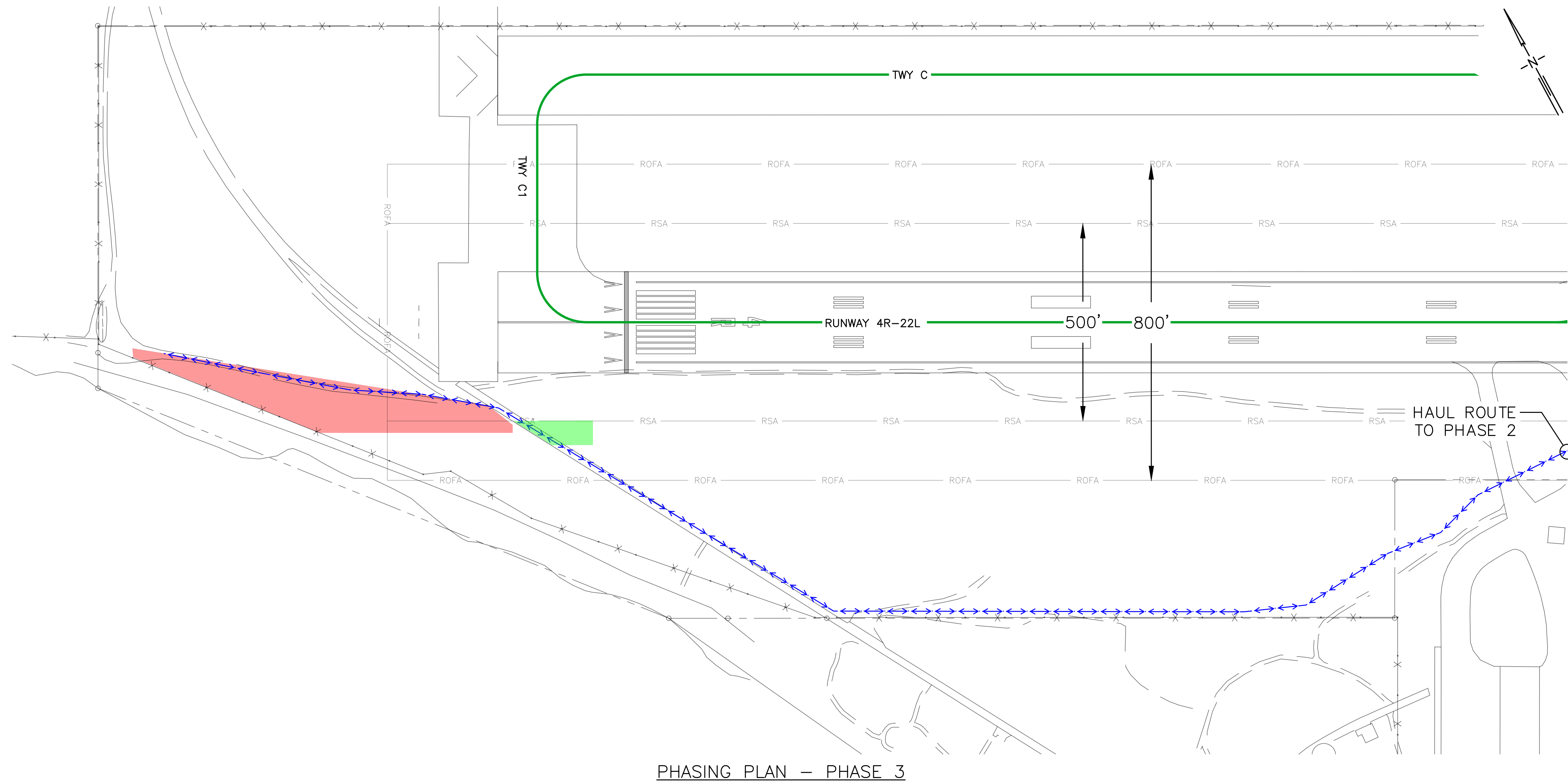
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5 OF 14 SHEETS

DWG. NO.

G-5

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PHASING PLAN - PHASE 3

**DESCRIPTION:**

1. CLEAR VEGETATION WITHIN AND AROUND THE RSA.

**TYPE:**

WORK IN PROGRESS (WIP)

**DURATION:**

7 CALENDAR DAYS

**WORK HOURS:**

0600 TO 1800 HOURS HST

**REQUIRED NOTAMS:**

1. RUNWAY 11-29 WORK IN PROGRESS (WIP)

**RUNWAY 4R-22L:**

RUNWAY SAFETY AREA (RSA): 500 FT.  
 RUNWAY OBJECT FREE AREA (ROFA): 800 FT.

**RUNWAY 11-29:**

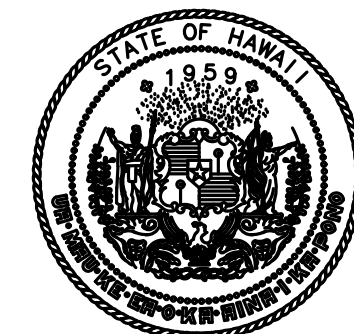
RUNWAY SAFETY AREA (RSA): 500 FT.  
 RUNWAY OBJECT FREE AREA (ROFA): 800 FT.

**NOTES:**

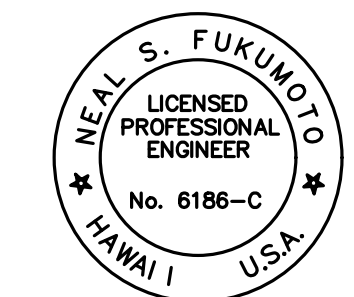
1. THE CONTRACTOR SHALL PULL BACK OUTSIDE OF THE RSA WHILE ANY AIRCRAFT IS IN THE PROCESS OF LANDING OR DEPARTING ON RUNWAY 4R-22L.
2. THE CONTRACTOR MAY ENTER THE AOA EITHER THROUGH GATE #13 OR GATE #1.
3. THE CONTRACTOR MAY USE GATE #1 TO ACCESS THE AOA ONLY IF CONTINUOUS SECURITY IS STATIONED AT THE GATE DURING WORK HOURS. JRF MANAGEMENT SHALL APPROVE THE CONTRACTOR'S SECURITY PLAN PRIOR TO THE CONTRACTOR USING GATE #1.

**LEGEND:**

- PROJECT WORK AREA
- CONTRACTOR PULLBACK AREA
- HAUL ROUTE
- AIRCRAFT TRAVEL ROUTE



Airports  
 DEPARTMENT OF TRANSPORTATION  
 STATE OF HAWAII

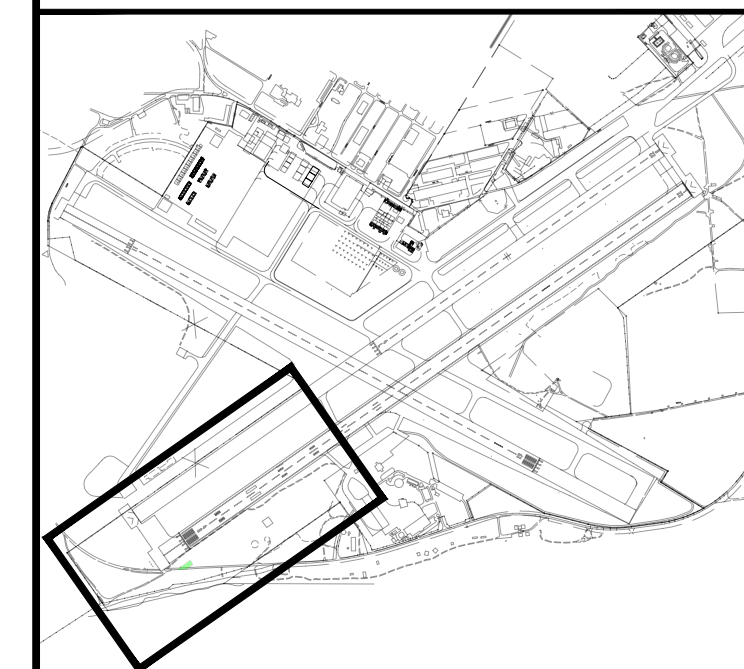


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**KEY PLAN / NOTES:**



NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

MAY 2023  
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**RSA CLEARING**

AT  
 KALAELOA AIRPORT  
 KAPOLEI, HAWAII

**PROJECT NO.:**

**CO4422-33**

**SHEET TITLE:**

**CSPP PHASE 3**

DATE :	DWG. NO.
MAY 2023	G-6
SHEET :	
6 OF 14 SHEETS	

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**GENERAL NOTES:**

1. THE CONTRACTOR SHALL COMPLETE ALL REQUIREMENTS STATED IN THE CONTRACT.
2. THE CONTRACTOR'S NORMAL WORKING HOURS SHALL BE IN ACCORDANCE WITH TECHNICAL PROVISION SECTION 01000 AND THE HOURS STATED IN THE CONSTRUCTION SAFETY AND PHASING PLAN. NO WORK WILL BE PERFORMED ON STATE HOLIDAYS, AIRPORT EMERGENCIES, OR WHEN POOR WEATHER RESTRICTS CONSTRUCTION.
3. TO ENSURE PUBLIC AND WORKER SAFETY ON THIS PROJECT, THE STATE WILL NOT ALLOW ANY WORK TO COMMENCE UNTIL THE CONTRACTOR'S DETAILED PROJECT WORK SCHEDULE IS APPROVED BY THE STATE PROJECT MANAGER. SAID SCHEDULE SHALL PICTORIALLY SHOW THE WORK AREA(S) FOR EACH WORKDAY. THE CONTRACTOR SHALL KEEP ALL PERSONNEL AND EQUIPMENT UNDER ITS JURISDICTION WITHIN THE WORK AREA(S) AND ASSIGNED AIRPORT OPERATIONS AREA (AOA) TRAVEL ROUTE(S).
4. THE CONTRACTOR SHALL OBTAIN A REVOCABLE PERMIT FOR A STAGING AREA ON AIRPORT PROPERTY PER SPECIFICATION SECTION 01000 - DESCRIPTION OF WORK. THE CONTRACTOR SHALL STAGE THEIR EQUIPMENT ONLY AT STATE DESIGNATED LOCATIONS AND SHALL COMPLY WITH ALL ASSOCIATED REQUIREMENTS. THE STAGING AREA(S) WILL BE DETERMINED BY THE AIRPORT OPERATION DISTRICT OFFICE.
5. THE CONTRACTOR SHALL ONLY ENTER AND EXIT THE AOA THROUGH STATE ASSIGNED GATES AS CALLED OUT IN THE CONSTRUCTION SAFETY AND PHASING PLAN.
6. THE CONTRACTOR MAY NOT USE TEMPORARY AOA BADGES/PERMITS. THESE ITEMS WILL ONLY BE ISSUED BY THE STATE DURING STATE EMERGENCIES.
7. THE CONTRACTOR SHALL CLEAN UP MATERIAL SPILLS BY THE END OF EACH WORK DAY AND/OR WHENEVER THEY OCCUR AND SHALL ONLY DISCARD EXCESS CUT AT AREAS DESIGNATED BY THE STATE.
8. THE CONSTRUCTION STAGING AND MATERIAL STOCKPILING AREAS ARE SHOWN IN THE CONSTRUCTION SAFETY AND PHASING PLAN.
9. THE CONTRACTOR SHALL FILL OUT AND SUBMIT FAA FORM 7460-1 FOR ALL VEHICLES AND EQUIPMENT, 25' OR TALLER, TO BE INSIDE THE AOA. THE FORM 7460-1 SHALL BE APPROVED BEFORE THE START OF CONSTRUCTION. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL SIGN THE HDOTA "PERMIT TO DISCHARGE INTO THE STATE AIRPORT DRAINAGE SYSTEM RELATING TO CONSTRUCTION PROJECTS" FORM. THE PERMIT HAS BEEN PREPARED BY THE DESIGNER, BUT THE CONTRACTOR MAY MAKE REVISIONS PRIOR TO SIGNING. ANY AND ALL REVISIONS MADE TO THE PERMIT BY THE CONTRACTOR SHALL BE REVIEWED AND APPROVED BY THE HDOTA ENVIRONMENTAL SECTION (AIR-EE) PRIOR TO IMPLEMENTATION.
11. THE CONTRACTOR SHALL HAVE AT LEAST TWO (2) PEOPLE IN THE AOA POSSESSING AND CONTINUOUSLY MONITORING THE FOLLOWING FULLY CHARGED COMMUNICATION DEVICES:
  - a. A TWO-WAY RADIO CAPABLE OF COMMUNICATING ON FREQUENCIES 123.8 (GROUND) AND 132.6 (TOWER).
  - b. A CELLULAR TELEPHONE, WITH A LISTING OF ALL REQUIRED EMERGENCY CONTACT NUMBERS.
12. THE CONTRACTOR SHALL COMPLY WITH THE HDOTA JRF SWMPP AND HDOTA'S CONSTRUCTION ACTIVITIES BMP FIELD MANUAL FOR THE ENTIRETY OF THE PROJECT.

**AOA TRAFFIC CONTROL NOTES:**

1. THE CONTRACTOR SHALL FURNISH ALL ESCORTS, FLAG PEOPLE, AND COMMUNICATION DEVICES SPECIFIED IN THE TECHNICAL PROVISION SECTION 01800 AND SECTION 01533; AS WELL AS ALL AOA TRAFFIC CONTROL DEVICES SPECIFIED IN THE TECHNICAL PROVISION SECTION 01800.
2. THE CONTRACTOR'S ESCORTS SHALL CONTINUOUSLY MONITOR RADIO FREQUENCY, INDICATED IN THE TECHNICAL PROVISION SECTION 01800, FOR ALL POTENTIAL AIRCRAFT ACTIVITY THAT IS UNPLANNED AND UNFORESEEN WHEN WORKING WITHIN THE AOA.
3. BEFORE STARTING ANY WORK AT EACH WORKDAY, THE CONTRACTOR SHALL SET UP ALL AOA TRAFFIC CONTROL DEVICES IN THE ORDER REQUIRED BY THE CSPP. AT THE END OF EACH WORKDAY, THE CONTRACTOR SHALL TAKE DOWN ALL AOA TRAFFIC CONTROL DEVICES IN THE REVERSE ORDER.
4. THE CONTRACTOR SHALL NOT TAKE DOWN ANY AOA TRAFFIC CONTROL DEVICES UNTIL WORK IS COMPLETED ON THE AOA OR AS OTHERWISE DIRECTED BY ATCT OR AIRPORT DISTRICT OPERATIONS.
5. THE CONTRACTOR SHALL NOT LEAVE THE AOA UNTIL ALL AOA TRAFFIC CONTROL DEVICES HAVE BEEN TAKEN DOWN.
6. THE CONTRACTOR SHALL NOT LEAVE THE AIRPORT UNTIL ALL STAGING AREAS ARE CLEARED ACCORDING TO TECHNICAL PROVISION SECTION 01800.

**INSTRUMENT LANDING SYSTEM (ILS) AND NAVIGATIONAL AID (NAVAID) NOTES:**

1. THE CONTRACTOR SHALL NOT OBSTRUCT, ALTER, OR DAMAGE EXISTING NAVAIDS ON THE AIRFIELD.

**CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) NOTES:**

1. THE CSPP IS A SAFETY DOCUMENT APPROVED BY HDOTA, AIRPORT DISTRICT, FAA, ATC, AIRLINES, AND OTHER STAKEHOLDERS.
2. THE CONTRACTOR SHALL ADHERE TO THE PROJECT PHASING, WORK HOURS, HAUL ROUTES, CLOSURES, AND OTHER PROJECT SPECIFIC SAFETY PROCEDURES LISTED IN THE CSPP.

3. THE CONTRACTOR SHALL CREATE A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH THE MOST UP TO DATE FAA AC 150/5370-2 OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION, TO DETAIL HOW THE CONTRACTOR WILL COMPLY WITH THE CSPP.
4. THE CONTRACTOR SHALL BE AWARE OF THE HAZARDS, RISKS, AND MITIGATION MEASURES IDENTIFIED IN THE CSPP.

**NON-STRUCTURAL BEST MANAGEMENT PRACTICES**

1. WASTE DISPOSAL:
  - a. ALL WASTE MATERIAL SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED, LEAK PROOF METAL DUMPSTER. THE DUMPSTER SHALL MEET ALL COUNTY AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL DUMPSTERS AT THE PROJECT SITE SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK, AND MORE OFTEN, IF NECESSARY. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ONSITE. THE CONTRACTOR, AT HIS EXPENSE, SHALL TRAIN SUPERVISORY PERSONNEL IN THE CORRECT PROCEDURES FOR WASTE DISPOSAL.
  - b. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE OR FEDERAL REGULATIONS.
  - c. ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE RESTROOM FACILITIES A MINIMUM OF ONCE PER WEEK, AND MORE OFTEN, AS NECESSARY.
2. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:
  - a. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED DAILY OR PRIOR TO AND AFTER EACH DAY'S CONSTRUCTION.
  - b. ALL CONTROL MEASURES PER APPROVED NPDES PLAN, SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN TWENTY FOUR (24) HOURS AFTER THE PROBLEM BEING DISCOVERED.
  - c. ANY REVISIONS TO APPROVED NPDES PLANS SHALL BE SUBMITTED TO THE DISTRICT ENGINEER FOR REVIEW AND APPROVAL BEFORE ANY FIELD ADJUSTMENTS ARE MADE. ANY REVISIONS TO APPROVED NPDES PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED BY AIR-EE BEFORE ANY FIELD ADJUSTMENTS ARE MADE.
3. SPILL PREVENTION:
  - a. THE FOLLOWING MANAGEMENT PRACTICES SHALL BE FOLLOWED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIAL AND SUBSTANCES TO STORM WATER RUNOFF AND DISCHARGE.
  - i. GOOD HOUSEKEEPING: STORE ENOUGH PRODUCTS AND MATERIAL REQUIRED TO PERFORM THE JOB. MATERIALS THAT MAY BECOME POTENTIAL POLLUTANTS THAT ARE IN A NEAT AND ORDERLY MANNER IN THEIR ORIGINAL CONTAINERS, AND IF POSSIBLE, COVERED OR ENCLOSED. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS, WITH THE ORIGINAL MANUFACTURER'S LABELING. PRODUCTS SHALL NOT BE MIXED, EXCEPT AS RECOMMENDED OR ALLOWED BY THE MANUFACTURERS. APPROPRIATE PRODUCTS SHALL HAVE SECONDARY CONTAINMENT. WHENEVER POSSIBLE, USE UP ALL OF A PRODUCT PRIOR TO DISPOSING OF THE CONTAINER. MANUFACTURER'S DIRECTIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. MATERIAL SHALL BE DISPOSED OF IN A MANNER PERMITTED BY LOCAL, STATE, OR FEDERAL REGULATIONS. THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS TO ENSURE PROPER USE AND DISPOSAL OF MATERIAL. LITTER SHALL BE PICKED UP ON A DAILY BASIS AND DISPOSED OF PROPERLY. DUST SHALL BE CONTROLLED BY WETTING OR BY APPLICATION OF A SOIL BINDER.
  - ii. HAZARDOUS PRODUCTS: PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABELING. MATERIAL SAFETY DATA SHEETS (MSDS) SHALL BE RETAINED AND AVAILABLE FOR REVIEW BY USERS. MANUFACTURER'S DIRECTIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. ALL HAZARDOUS WASTE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
4. PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRACTICES SHALL BE FOLLOWED ON-SITE:
  - a. VEHICLES: ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND SHALL BE SUBJECT TO REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKS OCCURRING. LEAKS THAT CANNOT BE REPAIRED IMMEDIATELY SHALL BE CONTAINED IN SPILL PANS OR OTHER APPROPRIATE CONTAINERS.
  - b. PETROLEUM PRODUCTS: PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS THAT SHALL BE CLEARLY LABELED. ASPHALT-CONTAINING MATERIALS (SUCH AS TACK AND PRIME COATS) USED ON-SITE SHALL BE APPLIED ACCORDING TO MANUFACTURER'S DIRECTIONS.
  - c. CONCRETE TRUCKS: CONCRETE TRUCKS SHALL DISCHARGE DRUM WASH WATER ONLY AT DESIGNATED SITES. WASH WATER SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. THE CONTRACTOR SHALL CONTAIN THE DISCHARGED DRUM WASH AT THE DESIGNATED SITE AND SHALL REMOVE CONCRETE AND OTHER RESIDUE AS REQUIRED BY THE ENGINEER.
5. IN ADDITION TO GOOD HOUSEKEEPING AND MATERIALS FOLLOWING SPILL PREVENTION AND CLEANUP PRACTICES SHALL BE OBSERVED.
  - a. FOR ALL SPILLS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE AIRPORT DUTY MANAGER, ENGINEER, AND AIR-EE. THE CONTRACTOR SHALL ALSO NOTIFY DOH HEER OFFICE OF ALL SPILLS GREATER THAN 25 GALLONS OR SPILLS THAT HAVE NOT BEEN CLEANED WITHIN 72 HOURS. THE CONTRACTOR SHALL ALSO NOTIFY DOH CWB OF ANY SPILLS THAT DISCHARGES INTO THE DRAINAGE SYSTEM AND/OR MS4. THE CONTRACTOR SHALL PROVIDE A REPORT THAT INCLUDES, BUT NOT LIMITED TO: THE MEASURES TO PREVENT THIS TYPE OF SPILL, THE CAUSE OF THE SPILL, AND THE CLEAN UP MEASURES UNDERTAKEN FOR THE SPILL.

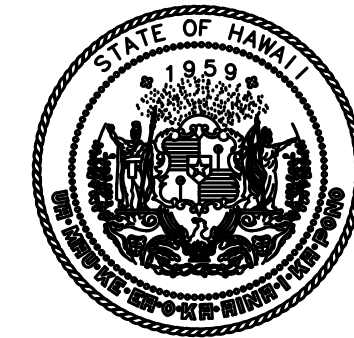
- b. MANUFACTURER'S RECOMMENDATIONS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED, AND SITE PERSONNEL SHALL BE MADE AWARE OF PROCEDURES AND LOCATION OF CLEANUP SUPPLIES.
- c. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE
- d. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- e. ALL SPILL AREAS SHALL BE CONTAINED, WELL VENTILATED, AND CLEANUP PERSONNEL SHALL WEAR APPROPRIATE CLOTHING AND EQUIPMENT.
- f. TOXIC OR HAZARDOUS MATERIAL SPILLS, REGARDLESS OF SIZE, SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCIES. A REPORT SHALL BE PREPARED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL, THE CAUSE, AND THE CLEANUP MEASURE UNDERTAKEN SHALL ALSO BE INCLUDED IN THE REPORT.
- g. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPILL PREVENTION AND CLEANUP. HE SHALL DESIGNATE AT LEAST ONE ON-SITE PERSONNEL TO RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THE CONTRACTOR, AT HIS EXPENSE SHALL DO TRAINING. THE NAME OF THIS PERSON SHALL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE ON-SITE OFFICE TRAILER.

**HEALTH AND SAFETY PLAN NOTES:**

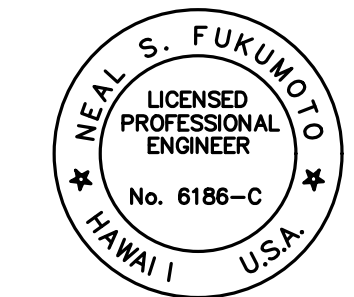
1. IN ADDITION TO THE CONTRACTOR DEVELOPED HEALTH AND SAFETY PLAN THE CONTRACTOR SHALL INCORPORATE THE REQUIREMENTS OF THE HEALTH AND SAFETY PLAN INCLUDED IN SPECIFICATION SECTION 01562 - MANAGEMENT OF CONTAMINATED MEDIAS.
2. KALAELOA AIRPORT WAS PREVIOUSLY OWNED AND OPERATED BY THE NAVY WHICH REGULARLY USED AIRPORT FIRE FIGHTING FOAM (AFFF) CONTAINING PFAS COMPOUNDS. BASED ON HISTORICAL USE IT IS ASSUMED THE AREAS IN CLOSE PROXIMITY TO THE RUNWAYS ARE CONTAMINATED WITH PFAS.

**WATER POLLUTION AND EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP) NOTES:**

1. THE CONTRACTOR SHALL INSTALL DEVICES AND UTILIZE BEST MANAGEMENT PRACTICES (BMP) APPROPRIATE FOR THE PROJECT. THE CONTRACTOR SHALL REFERENCE THE STATE OF HAWAII DEPARTMENT OF TRANSPORTATION, AIRPORTS DIVISION'S STORM WATER MANAGEMENT PROGRAM PLAN (SWMPP) FOR RULES RELATING TO SOIL EROSION STANDARDS AND GUIDELINES.
2. THE CONTRACTOR SHALL ADHERE TO THE BEST MANAGEMENT PRACTICES SPECIFIED IN THE HDOTA CONSTRUCTION ACTIVITIES BMP FIELD MANUAL ATTACHED IN THE PROJECT SPECIFICATIONS, SECTION 01561 - CONSTRUCTION SITE RUNOFF CONTROL PROGRAM.
3. THE CONTRACTOR SHALL CONSIDER AND INSTALL BMP MEASURES WHICH TAKE INTO ACCOUNT HIGH INTENSITY AND PROLONGED RAINFALL, AND TO ADDRESS THE POTENTIAL PROBLEMS THAT MAY RESULT BEFORE THE START OF ANY EXCAVATION OR EMBANKMENT WORK.
4. THE STATE RESERVES THE RIGHT TO DETERMINE THE APPROPRIATENESS AND ADEQUACY OF PROPOSED AND/OR IMPLEMENTED BMP'S. ADDITIONAL BMP MEASURES REQUIRED BY THE STATE SHALL NOT BE PAID FOR BY THE STATE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES, INJURIES AND/OR CLAIMS RESULTING FROM HIS BMP'S.
6. THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE (1) PERSON WHO WILL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE, AND REPAIR ACTIVITIES. PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE. TRAINING SHALL INCLUDE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR MINIMIZING EROSION AND SEDIMENT AND FOR RETAINING SEDIMENT ON-SITE.
7. THE CONTRACTOR MAY DISCUSS PROPOSED AND IMPLEMENTED BMP MEASURES AND THE ADEQUACY OF THEM, WITH THE ENGINEER.



Airports  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



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Wesley R. Segawa & Associates, Inc.

DSGN.	DRWN.	CHKD.	APPD.
RF	RF	CD	NF

**KEY PLAN / NOTES:**

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**  
MAY 2023  
DATE

**PROJECT TITLE :**

**RSA CLEARING**

AT  
KALAELOA AIRPORT  
KAPOLEI, HAWAII

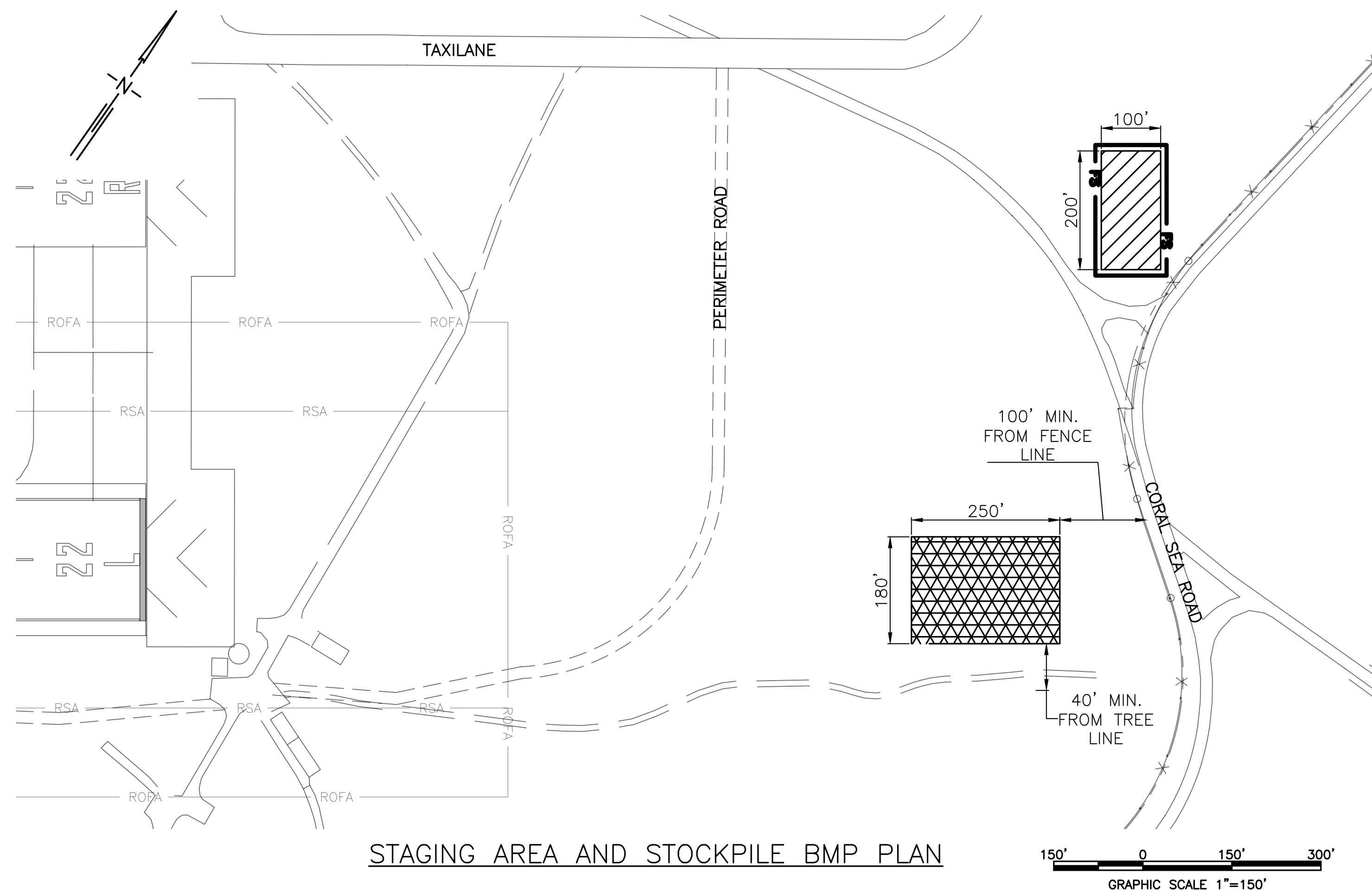
**PROJECT NO.:**

**CO4422-33**

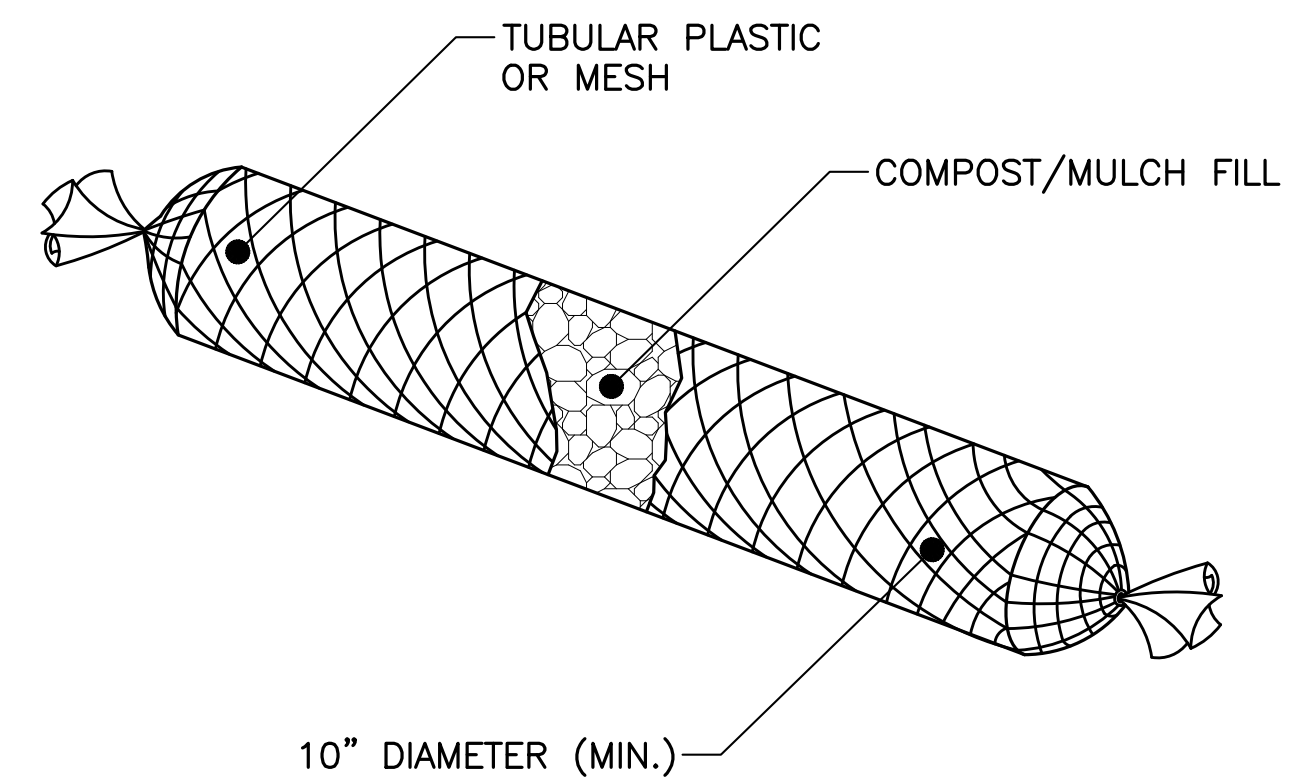
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**GENERAL NOTES**

DATE :	DWG. NO.
MAY 2023	C-1
SHEET :	
7 OF 14 SHEETS	



STAGING AREA AND STOCKPILE BMP PLAN



FILTER SOCK DETAIL  
SCALE: NOT TO SCALE

**FILTER SOCK NOTES:**

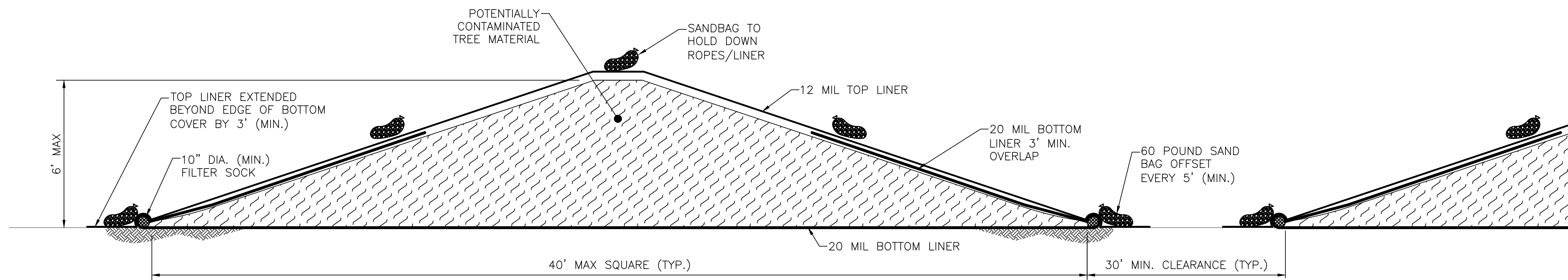
1. FILTER SOCK SHALL NOT CONTAIN BIOSOLIDS AND SHALL BE CONSISTENT WITH EPA GUIDELINES.
2. STAKING, WHERE REQUIRED, SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. MINIMUM OVERLAP SHALL BE 6" ON THE HORIZONTAL PLANE.

**BMP PLAN NOTES:**

1. EROSION CONTROL MEASURES SHALL BE PLACED PRIOR TO THE START OF WORK.
2. THE CONTRACTOR SHALL SUBMIT THEIR EROSION CONTROL PLANS FOR APPROVAL, PRIOR TO THE START OF WORK.

**LEGEND:**

- STAGING AREA
- STOCKPILE AREA
- FILTER SOCK,



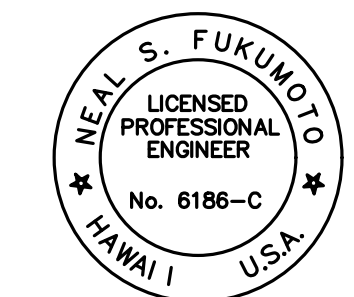
MULCH STOCKPILE DETAIL  
NOT TO SCALE

**MULCH STOCKPILE NOTES:**

1. MULCH STOCKPILES MUST BE AT LEAST 100 FEET FROM SURFACE WATERS AND AT LEAST 200 FEET FROM PUBLIC DRINKING WATER SUPPLY WELLS.
2. STOCKPILES MUST BE CONSTRUCTED TO PREVENT EFFLUENT FROM MIGRATING TO CLEAN AREAS BY USING BOTTOM AND TOP IMPERMEABLE LINERS. THE TOP LINER SHALL BE A MINIMUM 12 MIL PRODUCT OR EQUIVALENT. THE BOTTOM LINER SHALL BE MINIMUM 20 MIL.
3. STOCKPILED MATERIAL FROM EACH PHASE SHALL BE KEPT TOGETHER AND NOT MIXED. EACH PILE SHALL BE LABELED WITH THE ASSOCIATED PHASE.
4. FILTER SOCKS SHALL BE PLACED AT THE BASE OF EACH STOCKPILE ON TOP THE BOTTOM LINER. FILTER SOCKS SHALL BE OVERLAPPED BY 2' AND TIED TOGETHER. THE FILTER SOCKS SHALL BECOME PART OF THE CONTAINMENT AND SHALL BE TREATED AS SUCH FOR FUTURE REMEDIATION. EDGES OF THE BOTTOM LINER SHALL FOLD BACK UP AND OVER THE FILTER SOCK AND STOCKPILE BASE BY A MINIMUM OF 3'.
5. WHEN STOCKPILE OF EACH MOUND IS COMPLETE, STOCKPILES AND LINERS SHALL BE LASHED DOWN WITH ROPES AND ANCHORED WITH 60 POUND SANDBAGS WHICH SHALL BE REPLACED AS NEEDED.
6. TEMPORARY SIGNAGE SHALL BE PLACED AROUND THE STOCKPILE STATING "WASTE MATERIAL, DO NOT DISTURB. QUESTION, CALL CONTACT NO. (808) 838-8827." THE CONTRACTOR SHALL COORDINATE WITH HDOT-A TO DETERMINE THE FINAL PHONE NUMBER LISTED ON THE SIGN, PRIOR TO THE CREATION AND POSTING OF THE SIGN.
7. THE CONTRACTOR SHALL BE AWARE OF THE POSSIBILITY OF SPONTANEOUS COMBUSTION OCCURRING IN THE MULCH STOCKPILES. ARFF SHALL BE NOTIFIED PRIOR TO THE STAGING OF STOCKPILES.



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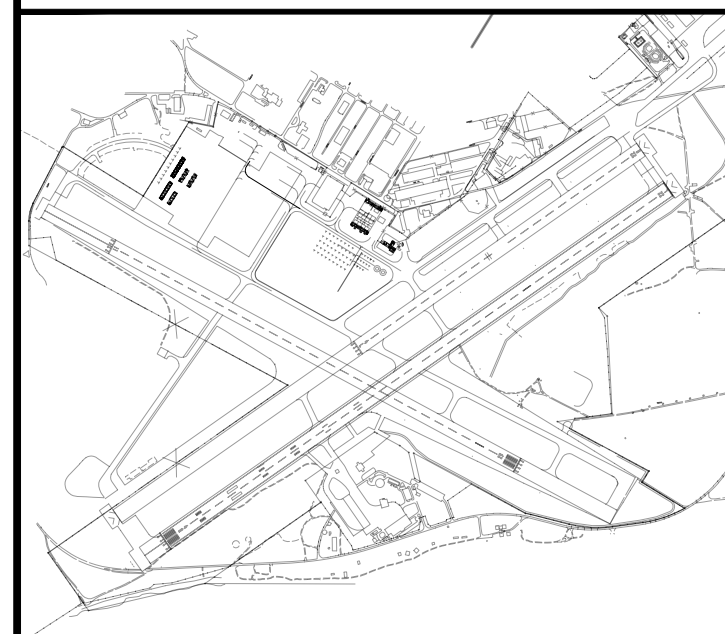


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Exp. 04-30-24

*Neal S. Fukumoto*  
Wesley R. Segawa & Associates, Inc.

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RF	RF	CD	NF

**KEY PLAN / NOTES:**



NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**  
MAY 2023  
DATE

**PROJECT TITLE :**

**RSA CLEARING**

AT  
KALAELOA AIRPORT  
KAPOLEI, HAWAII

**PROJECT NO.:**

**CO4422-33**

**SHEET TITLE:**

**EROSION CONTROL PLAN**

DATE :

**MAY 2023**

SHEET :

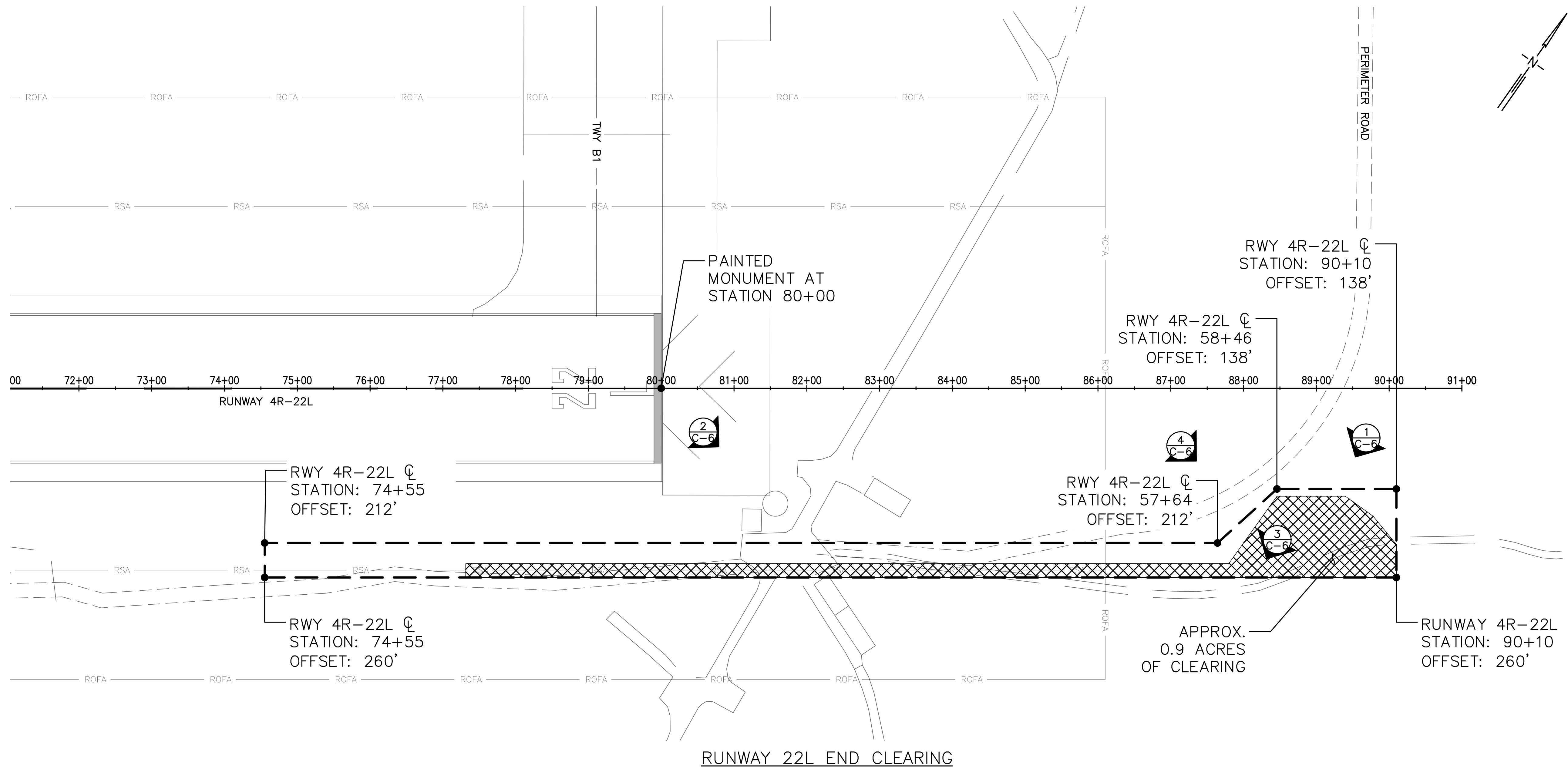
8 OF 14 SHEETS

DWG. NO.

**C-2**

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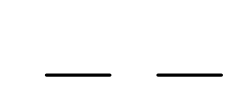


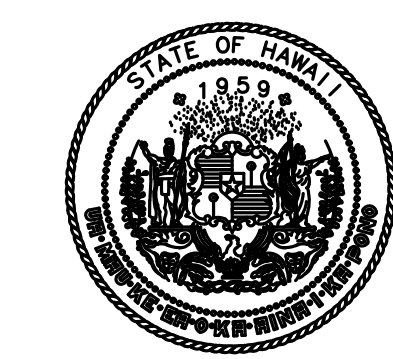
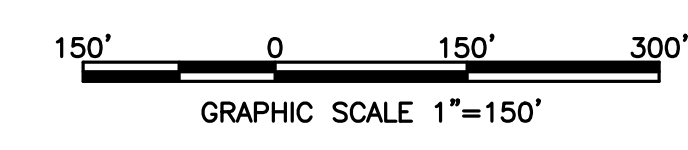
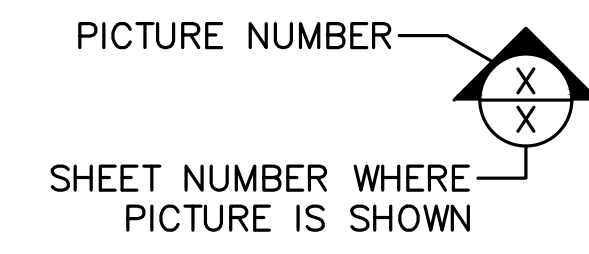


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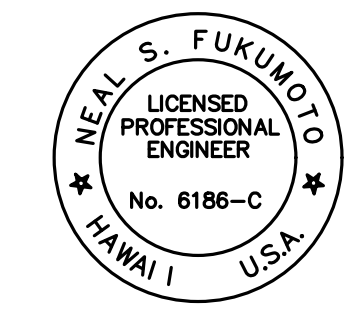
1. EXISTING STRUCTURES AND CONCRETE SLABS WITHIN THE CLEARING AREA SHALL REMAIN.
2. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL STRUCTURES AND UTILITIES PRIOR TO THE START OF WORK. ANY DAMAGE TO STRUCTURES OR UTILITIES SHALL BE RESTORED/REPAIRED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
3. THE CLEARING LIMITS ARE APPROXIMATE AND MAY VARY FROM THE PLANS. THE CONTRACTOR SHALL VERIFY THE CLEARING LIMITS WITH THE ENGINEER PRIOR TO THE START OF WORK. PAYMENT SHALL ONLY BE MADE FOR WORK COMPLETED.
4. SEE SHEET C-5 FOR MONUMENT LOCATION AT RUNWAY 4R END FOR RUNWAY 4R-22L BASELINE REFERENCE.

**LEGEND:**

-  APPROXIMATE LOCATION OF VEGETATION TO BE CLEARED
-  CLEAR VEGETATION WITHIN BOUNDARY LIMITS



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STATE OF HAWAII

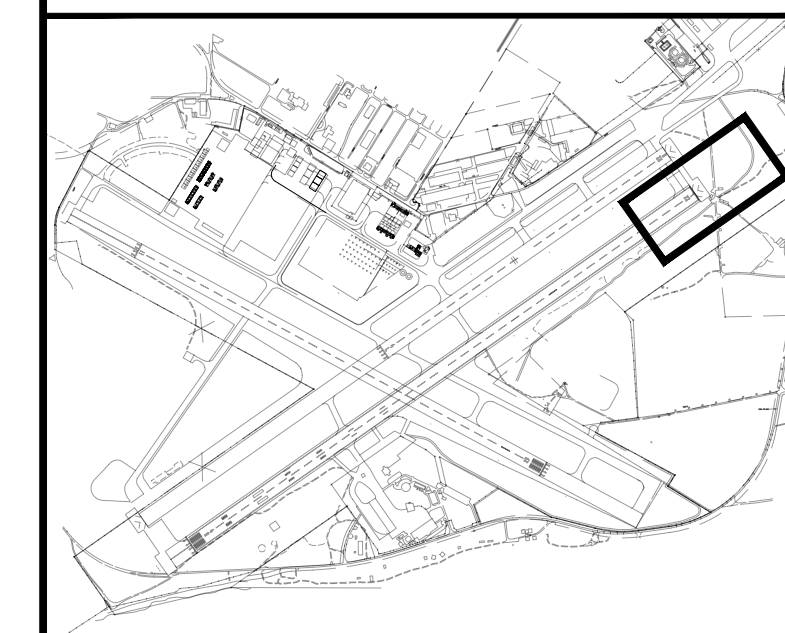


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**KEY PLAN / NOTES:**



NO.	DATE	REVISIONS
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KALAELOA AIRPORT  
KAPOLEI, HAWAII

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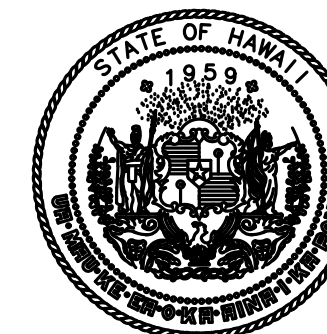
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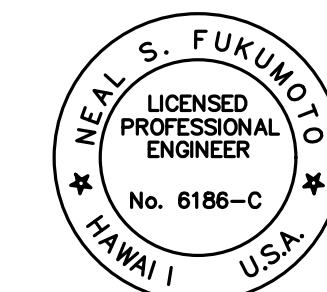
**CLEARING PLAN 1**

DATE :	DWG. NO.
MAY 2023	C-3
SHEET :	
9 OF 14 SHEETS	

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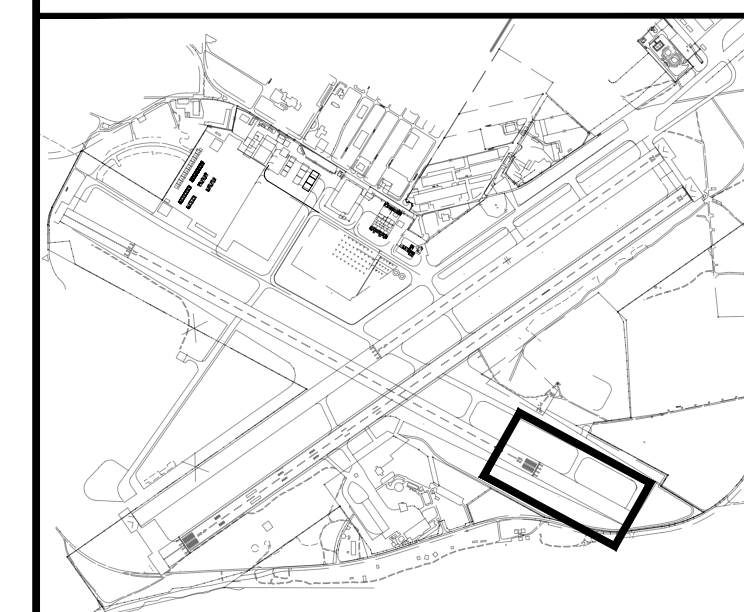


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NO.	DATE	REVISIONS
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KALAELOA AIRPORT  
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**PROJECT NO.:**

**CO4422-33**

**SHEET TITLE:**

**CLEARING PLAN 2**

DATE :

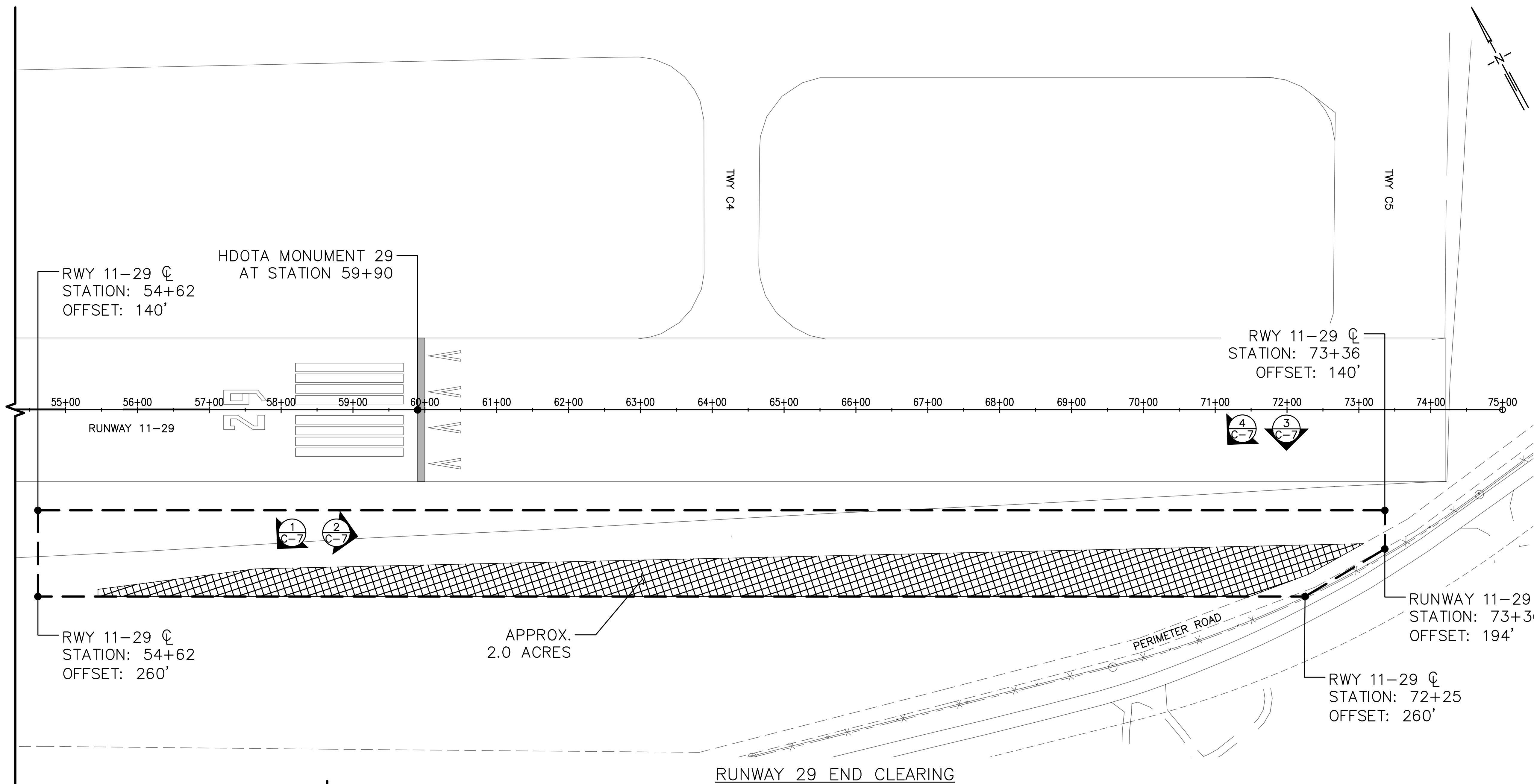
**MAY 2023**

SHEET :

10 OF 14 SHEETS

DWG. NO.

**C-4**



- NOTES:**
- EXISTING STRUCTURES AND CONCRETE SLABS WITHIN THE CLEARING AREA SHALL REMAIN.
  - THE CONTRACTOR SHALL LOCATE AND PROTECT ALL STRUCTURES AND UTILITIES PRIOR TO THE START OF WORK. ANY DAMAGE TO STRUCTURES OR UTILITIES SHALL BE RESTORED/REPAIRED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
  - THE CLEARING LIMITS ARE APPROXIMATE AND MAY VARY FROM THE PLANS. THE CONTRACTOR SHALL VERIFY CLEARING LIMITS WITH THE ENGINEER PRIOR TO THE START OF WORK. PAYMENT SHALL ONLY BE MADE FOR WORK COMPLETED.

**LEGEND:**

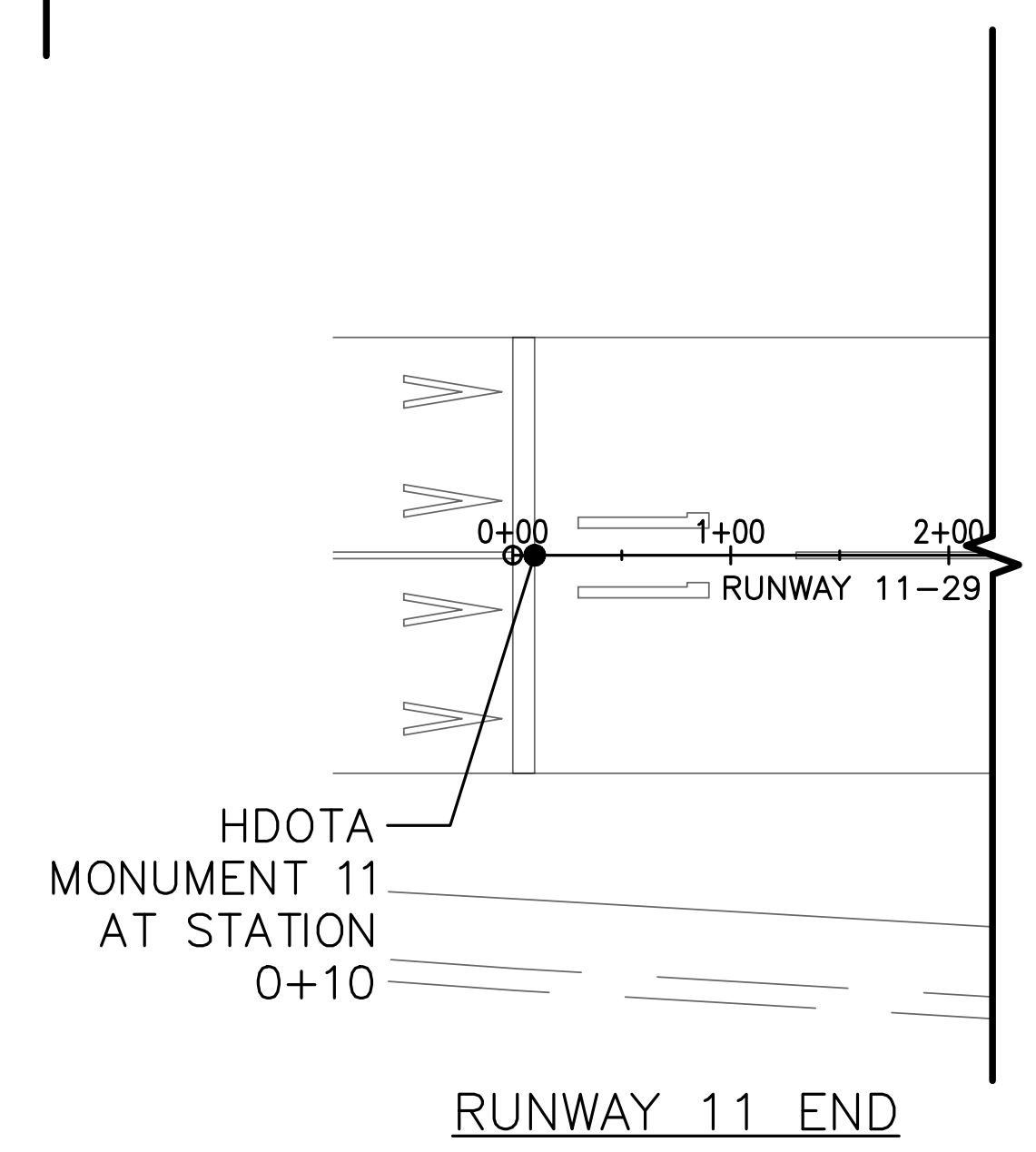
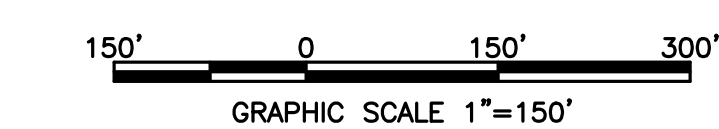
APPROXIMATE LOCATION OF VEGETATION TO BE CLEARED

CLEAR VEGETATION WITHIN BOUNDARY LIMITS

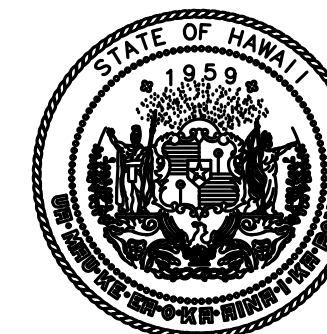
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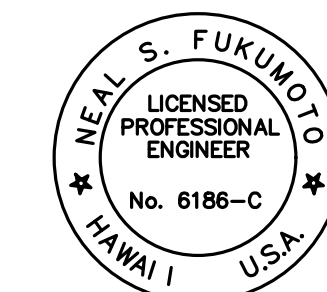
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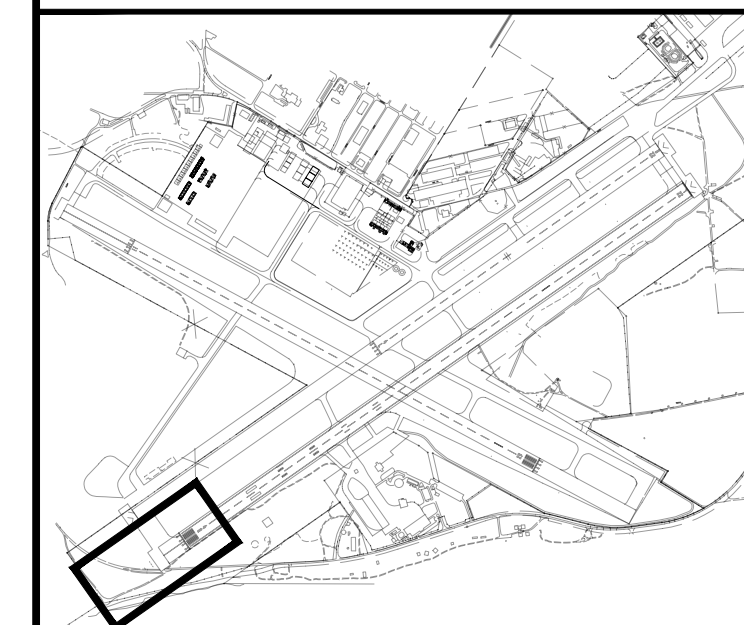


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RF	RF	CD	NF

**KEY PLAN / NOTES:**



NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

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AT  
KALAELOA AIRPORT  
KAPOLEI, HAWAII

**PROJECT NO.:**

**CO4422-33**

**SHEET TITLE:**

**CLEARING PLAN 3**

DATE :

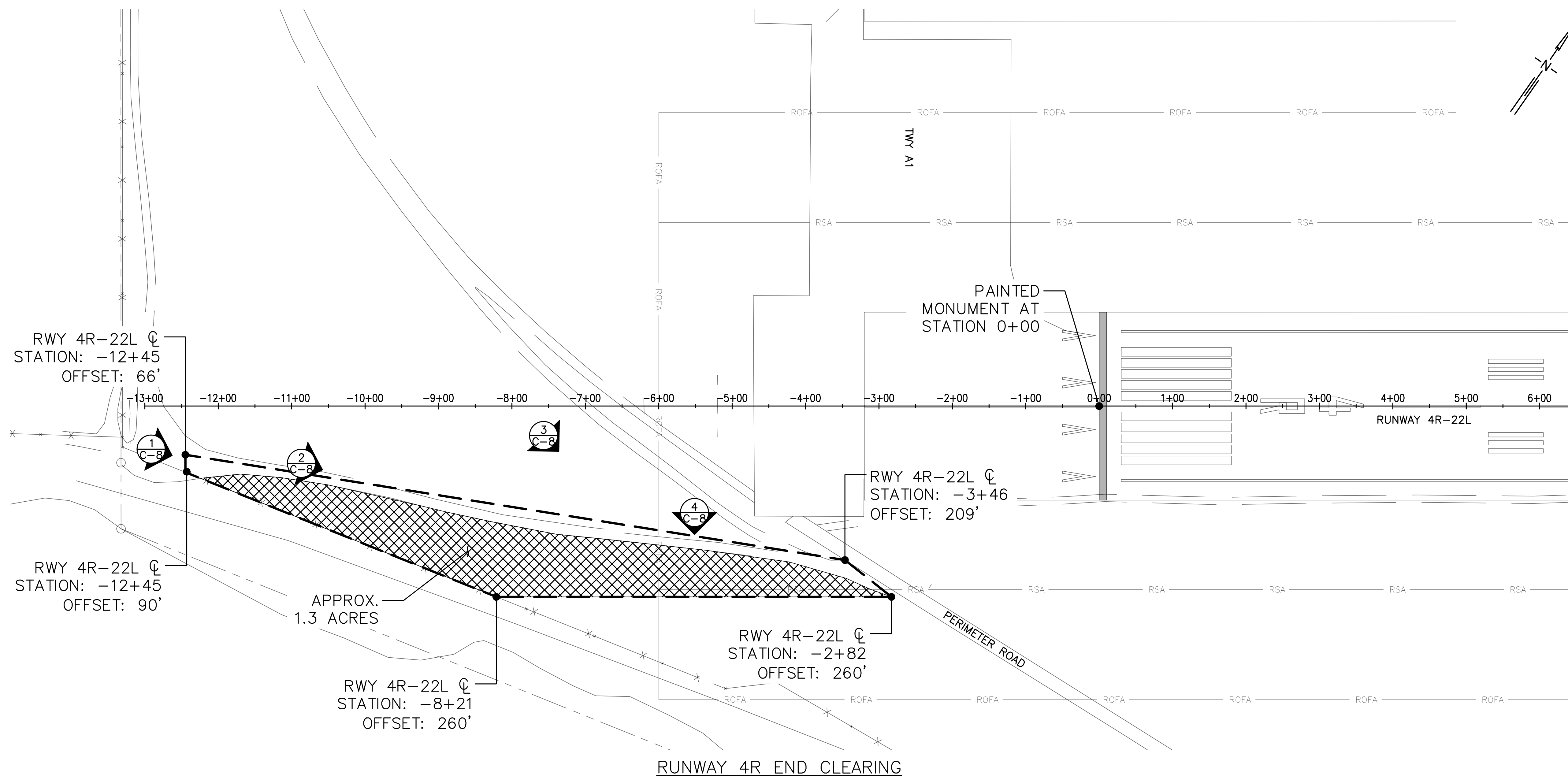
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11 OF 14 SHEETS

DWG. NO.

**C-5**

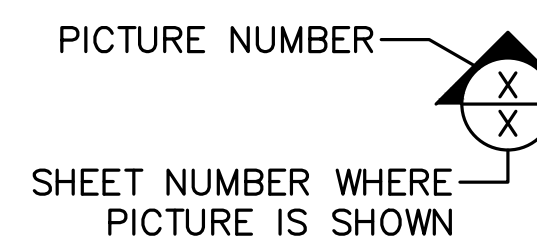


**NOTES:**

- EXISTING STRUCTURES AND CONCRETE SLABS WITHIN THE CLEARING AREA SHALL REMAIN.
- THE CONTRACTOR SHALL LOCATE AND PROTECT ALL STRUCTURES AND UTILITIES PRIOR TO THE START OF WORK. ANY DAMAGE TO STRUCTURES OR UTILITIES SHALL BE RESTORED/REPAIRED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
- THE CLEARING LIMITS ARE APPROXIMATE AND MAY VARY FROM THE PLANS. THE CONTRACTOR SHALL VERIFY CLEARING LIMITS WITH THE ENGINEER PRIOR TO THE START OF WORK. PAYMENT SHALL ONLY BE MADE FOR WORK COMPLETED.
- SEE SHEET C-3 FOR MONUMENT LOCATION AT RUNWAY 4R END FOR RUNWAY 4R-22L BASELINE REFERENCE.

**LEGEND:**

- APPROXIMATE LOCATION OF VEGETATION TO BE CLEARED
- CLEAR VEGETATION WITHIN BOUNDARY LIMITS



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C-6 RUNWAY 22L PICTURE 1



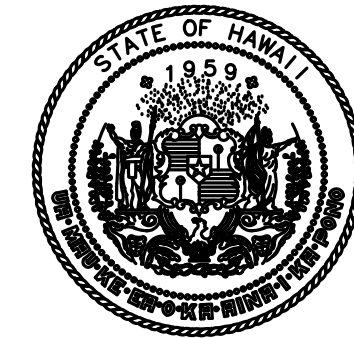
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C-6 RUNWAY 22L PICTURE 2



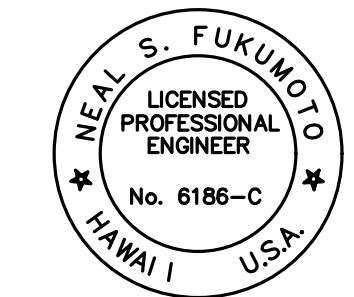
3  
C-6 RUNWAY 22L PICTURE 3



4  
C-6 RUNWAY 22L PICTURE 4



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DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



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RF	RF	CD	NF

KEY PLAN / NOTES:

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KAPOLEI, HAWAII

PROJECT NO.:

**CO4422-33**

SHEET TITLE:

**PICTURES**

DATE :

**MAY 2023**

SHEET :

12 OF 14 SHEETS

DWG. NO.

**C-6**





1  
C-7 RUNWAY 4R PICTURE 1



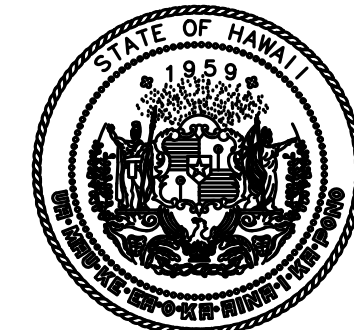
2  
C-7 RUNWAY 4R PICTURE 2



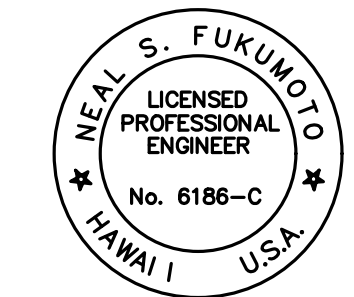
3  
C-7 RUNWAY 4R PICTURE 3



4  
C-7 RUNWAY 4R PICTURE 4



Airports  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



This work was prepared by me or under my supervision. Exp. 04-30-24

*Neal S. Fukumoto*  
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DSGN.	DRWN.	CHKD.	APPD.
RF	RF	CD	NF

KEY PLAN / NOTES:

NO.	DATE	REVISIONS

**CONSTRUCTION DOCUMENTS**  
MAY 2023  
DATE

PROJECT TITLE :

**RSA CLEARING**

AT  
KALAELOA AIRPORT  
KAPOLEI, HAWAII

PROJECT NO.:

**CO4422-33**

SHEET TITLE:

**PICTURES**

DATE :	DWG. NO.
MAY 2023	C-8
SHEET :	
14 OF 14 SHEETS	