

## SECTION 01800 – SPECIAL REQUIREMENTS FOR CONTRACTORS ON THE AOA

### PART 1 GENERAL

#### 1.1 RELATED DOCUMENTS

The General Provision of the contract, including the General Provisions for Construction Projects (2016), Special Provisions, and General Requirements of the Specifications, apply to the work specified in this section.

#### 1.2 SUMMARY

The Contractor shall incorporate the State’s airport security measures as part of his work. The Contractor shall adhere to established and enhanced security procedures, as mandated by the State and FAA, throughout the course of this Contract.

The requirements of this Section are essential for ensuring public and worker safety on this project; hence, the Contractor must comply with all requirements of this section when performing work on the AOA (Airport Operations Area). Should the Contractor fail to comply with any requirement of this section; work may be delayed or temporarily suspended without contract time extensions, or liquidated damages or fines may result. All liquidated damages or fines resulting from violations due to improper activity, inattention, or failure to comply with required airport procedures; must be borne by the Contractor.

Contractor shall provide all materials, labor, equipment, and tools necessary to complete the Special Requirements for Contractors on the AOA.

#### 1.3 SUBMITTALS

- A. Submit a security plan that addresses the conditions set forth in this Contract. Said plan shall contain, at a minimum, a plan of the project scope with locations of construction barricades with secured entry/exits, identification of locations requiring guards. Contractor measures to ensure security of worksite and personnel and procedures to ensure the containment of the worksite from unauthorized personnel. This package shall be submitted within fourteen (14) calendar days after award of the Contract.
- B. Qualifications of the biological bird monitor including experience and certifications.

#### 1.4 PROJECT LIMITATIONS

The project normal working hours shall refer to Section 01005, “Description of Work”. The Contractor shall work continuously during the project duration. No work shall be performed during State holidays or when weather conditions restrict construction from occurring.

## 1.5 AOA SECURITY REQUIREMENTS

A. AOA Badges: AOA badges shall only be issued to people that apply through the Airport Security Office, and complete all of the fingerprinting requirements. All people accessing the AOA must possess an AOA Badge with unescorted access. AOA temporary escort badges will only be issued during State-deemed emergencies.

1. Obtain airport security identification badges for all employees working on this project and Air Operations Area (AOA) decals for all vehicles entering the AOA area in accordance to the requirements stated in Section 8.21 of the Special Provisions. All requests for badges and AOA decals shall be submitted in writing to the Airport District Manager through the Engineer within fourteen (14) calendar days after award of the Contract. Only authorized personnel working on this project shall be allowed to obtain badges. The Contractor shall be responsible to pay for all costs associated with complying with airport security requirements, including obtaining airport security identification badges.
2. The Contractor shall inquire with the Airport District Manager's Office for the cost to obtain new airport identification badges.
  - a. The Contractor shall comply with all existing and proposed airport security initiative requirements. Contractor may be subject to civil penalties up to \$35,000.00 for each security violation.
  - b. The Contractor shall protect work areas from theft, vandalism, and unauthorized entry. Ensure that proper methods are undertaken to secure tools, materials, and equipment from the public.

B. AOA Access Points: The Contractor will be assigned only one (1) access point for each work phase, and shall ensure that all of their personnel, vehicles, and equipment enter and exit the AOA only through the assigned access point.

If the State deems an emergency situation has rendered the assigned access point unusable the Contractor will be assigned a temporary access point for the remaining workday. Should the original assigned access point remain unusable for a prolonged period, the Contractor will be assigned a new access point the following day, and shall be responsible for all requirements at the new assigned access point.

C. AOA Access Gates: Should the Contractor's assigned AOA access point be through an unguarded gate, the Contractor should be responsible for the following:

1. Obtain the AOA access gate key(s) from the Airport Security Office (a \$200.00 deposit is required per key).
2. Provide all gate guards required. Each gate guard shall possess the following expertise.
  - a. Familiarity with all of the AOA security access clearance requirements.
  - b. Knowledge related to AOA access badge, AOA vehicle decal, and airport vehicle operator requirements.
  - c. A communication device and specific instructions to call for assistance whenever problems occur.
  - d. Proper control of the AOA access gate in accordance with all required airport security procedures.
  - e. Close the AOA access gate during prolonged periods of inactivity; and close and lock whenever the AOA access gate is not in use, or is unattended.
  - f. All vehicles entering the AOA through any of the Airport Access Check Points may be subject to search. The Contractor shall allow extra time for these inspections and be able to provide personnel, as required, to assist Airport security personnel during the inspections.
  - g. If required by the State, the Contractor will be responsible for the posting of guards at access points where the construction traffic may compromise the integrity of the airport security. Payment for posting of security guards required by the State shall be paid for as an allowance under Bid Item "Unforeseen Conditions" in the Proposal Schedule. The allowance is an estimate and the amount shall not exceed the maximum amount shown in the proposal schedule, and charges by the Contractor for overhead, coordination, profit, insurances, and other incidental expenses shall not be allowed. The Contractor shall submit the name and qualifications of the security company to the Engineer for review prior to hiring the security company. The security company shall have extensive experience in working on airports and knowledgeable in airport security procedures within the State of Hawaii.

## 1.6 AOA OPERATIONAL SAFETY REQUIREMENTS

It is the explicit intent of this contract that the safety of aircraft, and all of the personnel and equipment under the Contractor's jurisdiction, be the highest priority; hence, the Contractor shall carefully plan the operations of all personnel and equipment under their jurisdiction to provide for the free and unobstructed movement of all aircraft on the AOA, and to provide for the uninterrupted operation of visual and electronic signals used to guide aircraft while all personnel and equipment under their jurisdiction traverses the AOA. With the exception of actual construction methods, the FAA, ATCT will have full authority to control the Contractor's movements within the existing movement area. If the FAA ATCT notifies the Contractor to temporarily halt operations, the Contractor shall effectively notify all personnel and equipment under its jurisdiction, without using lighted flares, to cease all work and move all equipment and themselves away from hazardous areas.

The Contractor is responsible for all of their movements on the AOA. Should the State deem that an escort, flagman, or driver fails to perform their duties, that escort, flagman, or driver may be terminated, or suspended and required to undergo additional training.

- A. AOA Communication Devices: The Contractor shall have at least two (2) people on the AOA possessing and continuously monitoring the following fully charged communication devices:
  - 1. A two-way radio capable of communicating on frequencies 121.9 (Ground) and 118.9 (Tower).
  - 2. A cellular telephone, with a listing of all required emergency contact numbers.
- B. AOA Travel Routes: The Contractor will be assigned only one (1) travel route per work phase, and shall ensure that all of their personnel, vehicles, and equipment traverse the AOA only along the assigned travel route. Should the State deem that an emergency situation has caused the assigned travel route to become unusable the Contractor will be assigned a temporary travel route for the duration needed and shall be responsible for all requirements associated with the new assigned travel route.
- C. AOA Authorized Vehicles: Only vehicles considered safe, and required to complete the contracted work will be allowed to operate on the AOA. Each vehicle operating on the AOA shall be authorized, possessing:
  - 1. An AOA vehicle decal obtained from the Airport Security Office and displayed on the driver's side front bumper (use of an AOA temporary vehicle permit is not allowed).
  - 2. Insurance coverage as required by Article 7.1 of the General Provisions and further amended by the Special Provisions.

- D. Vehicle and Equipment Requirements on the AOA: Each vehicle and driven piece of equipment shall possess the following when operating or staging on the AOA:
1. For operations occurring at night, or during periods of poor visibility, shall require a Flashing Amber Beacon mounted atop each vehicle/equipment's highest point.
  2. For daylight operations with clear visibility, shall require a Checkered Orange and White Flag attached to a staff that is mounted to each vehicle and/or equipment in lieu of a Flashing Amber Beacon. The flag shall be at least a three foot (3') square with a checker pattern of international orange and white squares that are at least one (1) foot on each side.
  3. Two (2) placards shall be on both sides of each vehicle or equipment at all times to identify the vehicle or equipment owner. Placards shall contain the company name in letters at least four inches (4") tall, or six inches (6") minimum-sized company logo.
  4. All additional equipment marking, lighting, and positioning that may be required by the FAA.
- E. AOA Drivers: All people operating a vehicle or any driven piece of equipment on the AOA shall possess the following license, permit, and expertise:
1. Current and valid Hawaii State Driver's License.
  2. Current and valid Airport Vehicle Operator's Permit.
  3. Complete Airport Familiarization.
  4. An understanding and ability to identify the following:
    - a. All RSA's, TSA's.
    - b. All AOA Markings, Lighting, and Signing.
    - c. The Need for Control of FOD.
    - d. All AOA Equipment for Aircraft.
    - e. All AOA Critical Areas.
    - f. All AOA Travel Routes for the Various Work Phases.
- F. Airport Vehicle Operator's Permit: Airport vehicle operator's permit shall only be issued to people that apply through the Airport Security Office, and pass a written

exam covering portions of the Airport Rules and Regulations related to vehicle operations on the AOA.

- G. AOA Escorts: While operating on the AOA, the Contractor shall provide at least one (1) escort for every five (5) vehicles and/or equipment under their jurisdiction. The Airport Operations Manager must approve all escorts prior to any work commencing; hence, each escort shall possess:

1. All AOA Driver Requirements.
2. Both AOA Communication Devices previously specified.
3. Knowledge about the assigned access points and travel routes for the project.
4. Successful completion of all AOA driver training required by the Airport Operations Manager. Each escort shall pass an exam given by the Airports Operations Manager, which demonstrates they possess an understanding and ability to follow all ground vehicle operation and communication requirements while operating on the AOA.

- H. AOA Traffic Control: Unless otherwise noted, the Contractor shall furnish and provide the following traffic control devices to block off entrances of working area:

1. Runway Lighted X's: The Contractor will be required to furnish the lighted X runway closure markers to indicate to inbound aircraft that the marked runway is closed for the project construction period. The Contractor shall transport and setup each runway closure marker at the location as shown on the Plans, and take-down and remove after each shift. The Contractor shall protect, clean and maintain the lighted X throughout the duration of the project, and shall supply fuel (diesel or gasoline as required). LIH has two (2) portable lighted X runway closure markers which may be loaned to the Contractor. However, it is the Contractor's sole responsibility to provide lighted X closure marker for the project, even if LIH is not able to loan the equipment to the Contractor.

If the Contractor utilizes LIH's lighted X runway closure marker, it shall be returned to the LIH storage yard each night, and the Contractor is additionally responsible to perform regular maintenance and replace any fixtures for the duration of the project.

2. At the completion of the project, the Contractor shall clean each unit, replace any non-functional fixtures, provide LIH with spare fixtures and parts that were used for the duration of the project, perform a tune- up and oil change to the generator, and provide all maintenance records performed over the duration of the project.

3. Low-Profile Barricades: Low-profile barricades shall be any one (1) of the following, however, if option a or b is selected, the Contractor shall be responsible for water filling and emptying these types of barricades as part of their contracted work.

- a. Neubert Aero Corporation's Reusable Airport Low-Profile Barricade Model No. NAC-PC 2410 with at least one (1) battery-powered red barricade light, or
- b. Multi-Barrier Safety Barricade Model No. AR-10 x 96 with at least one (1) Multi-Barrier 360 degrees (360°) solar-powered light, or
- c. Constructed barricades as indicated on Plans.

Unless otherwise noted, all Low-Profile barricades shall continuously interlocked or spaced at fifteen feet (15') on center as shown on Plans:

- (1) Interlocked barricades shall extend across the full TWY /RWY width with full width of the pavements with a single 15' wide opening for ARFF emergency vehicles
  - (2) Barricades spaced at 15' on center shall extend across the full TWY/RWY width with one (1) barricade placed on the TWY/RWY centerline.
  - (3) Barricades shall be placed one foot (1') clear from active RSAs/TSAs.
- d. Reflective Cones: Reflective cones shall be used to demarcate AOA travel routes, and locations where vehicles shall yield to aircraft.
- I. AOA FOD Control: The Contractor shall keep all work areas, AOA Travel Routes, and all adjacent areas clean at all times. Unless otherwise stated in this contract, or otherwise directed by the Airport Manager, the Contractor shall properly haul and dispose all removed pavement materials and collected debris to a site off the Airport. The State will require remedial cleaning from the Contractor whenever their FOD Control Operations are unsatisfactory. Upon receipt of notification, the Contractor shall be ready to start remedial cleaning at the jobsite within thirty (30) minutes. Notification by telephone will be deemed as official.
- J. AOA Flag Persons: Should the Plans require flag persons along the AOA Travel Route, each flag-person shall possess:
- 1. AOA Driver as stated in Section 1.6.E.

2. Both AOA Communication Devices previously specified in Section 1.6.A.
  3. A traffic directing LED Light Baton.
  4. A broom and dustpan to assist in AOA FOD Control.
- K. Airport Staging Areas: The Contractor shall only stage its vehicles and equipment in approved areas. No vehicle or equipment shall park within four feet (4') of a security fence. Demarcation of the staging area as shown on Plans.

#### 1.7 COORDINATION OF CONSTRUCTION ON THE AOA

Work on the AOA requires RWY and TWY closures that demand proper notification to numerous agencies responsible for public safety; thus, the State shall receive the following sufficiently accurate information from the Contractor.

- A. Maximum Equipment Height: Equipment height shall be submitted to the State at least forty-five (45) days prior to construction. Construction shall not commence until the State receives confirmation from the FAA. All reported heights shall be the maximum heights among all vehicles or equipment used to complete the contracted work, and includes proper notification to the State whenever the reported maximum heights are exceeded.
- B. Detailed Work Schedule: See Section 01300, "Submittals".
- C. Cancellations: The Contractor shall only cancel work through the Project Manager, Airport Operations Control (AOC), or AOC On-Duty. Whenever a cancellation is not made and the Contractor is not at the assigned AOA Access Point within thirty (30) minutes of the start time; all Contractor closures for the remaining workweek will be cancelled. The Contractor shall reimburse the State one thousand dollars (\$1,000.00) for every work cancellation the State deems unjustified. This reimbursement is to compensate the State for all unnecessary costs related to canceling existing, and coordinating new closures.

#### 1.8 CONSTRUCTION LIGHTING REQUIREMENTS

Should any part of the work area lack sufficient sunlight; the Contractor shall provide sufficient artificial lighting to permit the work and inspection to be carried out efficiently, thoroughly, safely, and satisfactorily. Work and inspections shall not be performed with only flashlights and/or vehicle/equipment headlights. All lights shall be positioned so they do not blind aircraft pilots, or FAA-ATCT controllers. All wiring for electrical lights and power shall be properly installed, maintained, securely fastened and kept as far as possible from telephone and signal wires. The Contractor shall submit a lighting plan to the Engineer for all work phases that shall be subject to approval.

#### 1.9 ENVIRONMENTAL AND HEALTH REQUIREMENTS

The Contractor shall perform the following in accordance with all applicable Federal, State, local, and airport rules and regulations related to environmental pollution control, abatement, and fire code.

- A. Airport Water: Airport water shall not be drawn from a tap lacking a reverse pressure principle backflow prevention device. Water valves shall be opened and closed so that water hammers are not produced.
- B. Waste Disposal: Waste disposal shall be performed properly. Materials shall not be burned, and construction wastes shall not be disposed into Airport storm water or sewer systems.
- C. Restoration: Completely restore, to an acceptable condition; staging areas, work areas, AOA travel routes, and areas adjacent to the aforementioned.
- D. When the Contractor damages an existing Airport perimeter fence, the Contractor shall perform immediate repairs on the fence to prevent inadvertent entry, and maintain Airport Security.
- E. Vehicle/Equipment Leaks and Material Spills: Shall be handled by the following five-step process, and pertains to all fluids other than potable water.
  - 1. All leaked or spilled fluids shall immediately be kept from entering the Airport storm water and sewer systems.
  - 2. All fluid leaks or spills shall be respectively fixed or stopped, immediately after ensuring that the fluids are kept out of the Airport storm water and sewer systems.
  - 3. All areas containing the leaks or spills shall be properly cleaned and restored.
  - 4. Dispose all wastes per Section 1.9.B.
  - 5. Submit proper documentation to the State showing that all leaks or spills were properly cleaned and disposed.
- F. Erosion Control: The Contractor shall provide an essential temporary drainage, dikes, and similar facilities to prevent erosion damage to the site. Runoff shall be controlled to prevent damage to surrounding areas.
- G. Dust Control: The Contractor shall take positive measures to ensure that dust is properly controlled without chemicals and/or oil treatments.
- H. Noise Control: Noise control shall be within the levels that comply with all applicable regulations.

#### 1.10 BIRD MONITORING

- A. The Contractor shall provide a biological monitor to perform the following:
1. The biological monitor shall be present during all construction and earth moving activities to ensure Hawaiian geese, Hawaiian waterbirds, Hawaiian seabirds and their nests are not adversely affected.
  2. If a Hawaiian goose, Hawaiian waterbird, Hawaiian seabird or their nest/eggs is observed within the project site, the biological monitor shall halt all construction activities within 100 feet of the bird(s) or nest. Work shall not resume until the bird(s) leave the area of its own accord.
  3. Bird monitoring for all nighttime construction activities shall be performed in coordination with the State-contracted biological monitor. The person shall be formally trained and certified on the general policies, procedures and documentation of biological bird monitoring.
  4. Conduct daily searches of the work areas for nests and downed seabirds. Any downed seabirds shall be turned over to USDA Wildlife Services (WS).
  5. A log shall be maintained of all biological bird activities within the work area, and shall include the date, time, and other pertinent information.
  6. Provide daily reports to the USDA Wildlife Service (WS) staff at Lihue Airport after each work shift.
  7. Review of construction lighting plans to ensure lighting is shielded and focused to eliminate unnecessary light spillover and glare, which may impact seabirds and other sensitive wildlife. Effective light shields should be completely opaque, sufficiently large, and positioned so that the bulb is only visible from below. Lighting should be positioned low to the ground, be motion-triggered, and be shielded and/or full cutoff.
- B. Observe and count the number of birds either on foot or by vehicle.
- C. Review the proposed nighttime lighting type and placement prior to any nighttime construction activity.

#### 1.11 OTHER REQUIREMENTS

The Contractor shall also comply with the following requirements should they arise.

- A. Any new TSA security requirement.
- B. Any additional operational safety requirements generated by the FAA.

- C. Provide additional lights along AOA travel routes should the Engineer deem additional safety enhancements were needed.
- D. Any new environmental and health requirements generated by the EPA or DOH.

## PART 2 PRODUCTS

NOT USED.

## PART 3 EXECUTION

NOT USED.

## PART 4 MEASUREMENT AND PAYMENT

### 4.1 METHOD OF MEASUREMENT

- A. All work under this Section will not be measured for payment.

### 4.2 BASIS OF PAYMENT

- A. Items covered by this section will be paid by lump sum, except for Biological Bird Monitoring. The contract price paid shall be for full compensation for furnishing and placing all materials and all labor, equipment, tools, and incidentals necessary for each of the construction phases.
- B. Biological Bird Monitoring as approved by the State and Engineer shall be paid for under the allowance as described below. The allowance is an estimate and payment shall not exceed the maximum amount shown in the Proposal Schedule. Payment shall be full compensation for all labor, tools, equipment, and all other incidentals necessary to complete the work. Any unused amounts of the allowance will not be paid to the Contractor, and in the event that this item is not used, the Contractor is not eligible to receive any payment under the Proposal Schedule.

Payment will be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
01800.1A	Special Requirements for Contractors on the AOA (Phases 0 through 3)	Lump Sum
01800.1B	Special Requirements for Contractors on the AOA (Phase 4)	Lump Sum
01800.2	Biological Bird Monitoring	Allowance

PART 5 ATTACHMENTS

- 5.1 CONSTRUCTION SAFETY AND PHASING PLAN (CSPP)
- 5.2 SAFETY RISK MANAGEMENT DOCUMENT (SRMD)

END OF SECTION 01800

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