

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

ADDENDUM NO.1

FOR

REPLACE CARPET AT VARIOUS AIRPORT TERMINALS
DANIEL K. INOUE INTERNATIONAL AIRPORT
HONOLULU, OAHU, HAWAII
STATE PROJECT NO. CO1329-63

June 7, 2023

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

A. SPECIFICATIONS

1. Section 09681 Carpet Tiles

Delete Section 09681 in its entirety and replace with the attached Section 09681 dated 06/07/2023.

2. Section 12481 Entrance Flooring

Delete Section 12481 in its entirety and replace with the attached Section 12481 dated 06/07/2023.

B. PROPOSAL

1. The Proposal Schedule P-7 to P-9 shall be replaced with the attached revised Proposal Schedule P-7 to P-8 dated 06/07/2023.

C. SUBSTITUTION REQUEST

The following items hereinafter listed are not approved to the previously specified items.

<u>Section/Item</u>	<u>Specific Brand</u>	<u>Substitute or Alt Brand Not Approved</u>
Section 09681 Carpet Tile	Milliken	Giant Floor
Section 12481 Entrance Flooring	Milliken	J+J Flooring

The following are provided for information.

D. PRE-BID MEETING

1. The attached Pre-Bid Meeting Minutes and Attendance sheet are provided for information.

E. CONTRACTOR'S TRAINING GUIDE

1. The attached Contractor's Training Guide dated July 2013 is provided for information.

E. RESPONSES TO REQUEST FOR INFORMATION (RFI'S/QUESTIONS)

1. The attached Responses to Request for Information (RFI's/Questions) is provided for information.

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.

Ford Fuchigami

FORD N. FUCHIGAMI
Airports Deputy Director

DIVISION 9 – FINISHES

SECTION 09681 – CARPET TILE

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

Accessible route requirement of American Disability Act Accessibility Design Guideline (ADAAG)

1.02 DESCRIPTION OF WORK

A. This Section includes carpet tile, rubber base and accessories.

B. Related Sections includes:

Section 01524 Construction Waste Management

Section 01560 Environment Controls

Section 01565 Security Measures

Section 03540 Cementitious Underlayment

1.03 SUBMITTALS

A. Product Data: For each type of product indicated. Include manufacturer's written data on physical characteristics, certifications, durability, and fade resistance. Include installation methods and Replacement instructions.

B. Sustainable Carpet Requirements: The sustainable design and construction goals pertain to energy and resource conservation, human health and well being, environmental preservation, and community viability.

1. The American National Standards Institute (ANSI) NSF 140: Compliance with ANSI NSF 140 is required. Provide the certificate for the carpet tile product meeting the minimum Sliver level of this Sustainable Carpet Assessment Standard.
2. Indoor Environmental Quality: Compliance with ASHRAE 62-1989, "Ventilation for Acceptable Indoor Air Quality" and approved addenda is required. Eliminating sources of contaminants, and materials that support the growth of contaminants, is the preferred method to ensure the desired high level of indoor air quality. VOC limits for sealants, adhesives and carpet products as recommended in the appropriate USEPA standards and guidelines.

C. Shop Drawings: Show the following:

1. Columns, doorways, walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
2. Carpet tile type color, and dye lot.
3. Type of subfloor.
4. Type of installation.
5. Pattern of installation.
6. Location of edge, transition, and other accessory strips.
7. Transition details to other flooring materials.

D. Samples: For each of the following products and for each color and texture required. Label each sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings.

1. Carpet Tile: four (4) each full size Samples.
2. Exposed Edge Stripping and Accessory: three (3) each, 12-inch minimum long.
3. Rubber Base: three (3) each

E. Maintenance Data: For carpet tile to include in maintenance manuals specified in Division 1. Including the following:

1. Methods for maintaining carpet tile, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
2. Precautions for cleaning materials and methods that could be detrimental to carpet tile.
3. MSDS Sheets

E. Manufacturer's Warranty: Furnish three (3) copies of a written (15) fifteen-year minimum wear warranty, signed by the carpet tile manufacturer agreeing to replace carpet tile that does not comply with requirements or that fails within specified warranty period. The manufacturer will furnish and install new replacement carpet meeting these specifications at no cost to the State.

F. Work Schedule: Submit 6 copies indicating date, time, and location for Airport Manager's approval at least two weeks before any work is started.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified by the Flooring Covering Installation Board and who can demonstrate compliance with its certification program requirements. Provide a minimum of five (5) years of carpet tiles installation job list.

1.05 DELIVERY, STORAGE, AND HANDLING

General: Comply with CRI 104, Section 5, "Storage and Handling."

1.06 PROJECT CONDITIONS

- A. General: Comply with CRI 104, Section 6.1, "Site Conditions; Temperature and Humidity."
- B. Job site Condition Limitations: Do not install carpet tile until wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- C. Do not install carpet tile over concrete slabs or cementitious underlayment until slabs or cementitious underlayment have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.

1.07 WARRANTY

- A. General Warranty: Special warranty specified in this Article shall not deprive.
- B. Fifteen-year minimum Carpet Tile Wear Warranty: Warranty insured that carpet tile against manufacturing defects such as dimension unstable (cupping, dishing, or dimension changed), moisture barrier, tuft bind, unraveling, static protection, delamination and no less than 90% of the pile fiber will be retained when properly installed and maintained, and should the wear exceed ten percent (10%) within fifteen years, the manufacturer will furnish and install new replacement carpet meeting these specifications at no cost to the State.
- C. Certification: Manufacturer's certification that carpet passes the Federal Flammability Standard DOC-FF-1-70 and Radiant Panel Test ASTM E 648-88.

1.08 EXTRA MATERIALS

Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Deliver to an airport storage area designated by the Airport Manager.



Carpet Tile: Full-size units equal to five (5%) percent, but not less than **five dozen (60) full size tile pieces**, of amount installed for each type.

PART 2 – PRODUCTS

2.01 ASBESTOS PROHIBITION: No asbestos containing materials or equipment shall be used under this section. The contractor shall ensure that all materials and equipment incorporated in the project are asbestos-free.

2.02 CARPET MODULAR TILE

- A. Construction: Tufted, Texture Loop
- B. Fiber: type 6.6 nylon
- C. Gauge: 1/12" minimum
- D. Finished Pile Height: 0.12 inch minimum
- E. Face Yarn Weight: 28 oz. per square yard minimum
- F. Average Density: 8,000 minimum
- I. Backing: PVC Free WellBAC, Comfort Plus
- J. Size: 19.7" x 39.4" plank
- K. Total Recycled Content: minimum 25%

2.03 PERFORMANCE

- A. Modular Tile Dimensional Stability: +/- 0.15% maximum.
- B. Static Control: **AATCC 134** Minimum of 3.0 KV resistance for 20% RH at 70° F (21°C)
- C. Smoke Density: **ASTM E 662** test for smoke rating of 450 or less
- D. Soil/Stain Resistance: **AATCC 175** test carpet should resist discoloration and show no noticeable stain, rating of 8 minimum.
- E. Colorfastness test: (All specified colors must be tested for crocking and lightfastness.)
Crocking (AATCC 165) Color transfer class 4 minimum, wet and dry, when tested as specified. Lightfastness Xenon arc weatherometer (**AATCC 16 part 3, 200 AFU,**) color change between the exposed and unexposed carpet areas equivalent to a minimum of Grade 4.0 for all specified colors. Wet cleaning test (**AATCC 138-1972**) carpet should show no change below 3.0 on International Gray scale.
- F. Tuft bind: **ASTM D 1335** test loop pile modular: 8.0 lbs minimum average value

for **minimum of 15-year warranty.**

- G. Delamination: resistance delamination of the secondary backing 2.5 lbs per inch minimum. ASTM 3936 test permanent attachment of primary backing to secondary backing.
- H. Abrasion Resistance: Vetterman drum test **ASTM D 5417**, carpet should withstand minimum of 22,000 cycles without showing excessive wear, min. International Gray Scale rating of 3. Hexapod drum test **ASTM D 5252**, carpet should withstand minimum of 12,000 cycles without showing excessive wear, min. International Gray Scale rating of 3.
- I. Flammability: Passes **CPSC-FF-1-70** Methenamine Pill and Floor Radiant Panel Test **ASTM E 648** and/or NEPA 253. Carpet shall have a minimum critical radiant flux of 0.45 watts per square centimeter (cm²) Carpet shall meet the "Standards for the Surface Flammability of Carpets."
- J. Indoor Air Quality: maximum allowable 0.5 mg/m²hr TVOC emission, **ASTM D5116.**
- K. Recycling Content: Pre-Consumer and Post -Consumer 10% minimum.

2.04. APPEARANCE

	<u>Manufacturer</u>	<u>Pattern/Style</u>	<u>COLOR</u>
CP-2	Milliken	Major Frequency: Impromptu	TBD 3 colors
CP-2	Milliken	Revelation/Reveal	TBD 3 colors

2.05 ADHESIVE:

Provide adhesives as recommended by the carpet manufacturer for direct glue-down application. Adhesive shall be water-resistant type and allow future carpet removal with minimum damage to carpet and substrate. Adhesive shall comply with flame spread rating required for the carpet installation. Product should not contain reportable quantities of hazardous ingredients as defined by federal OSHA 29 CFR 1910.1200.

All carpet tiles adhesive shall not excess the Volatile Organic Compound (VOC) limits of 50 grams per liter (g/l).

2.06 EDGE GUARDS

- A. Surface transition edge finishing molding: edge reduction type, 100% rubber and meeting Americans with Disability Act Architectural Guidelines (ADAAG) requirements 4.5.2. When the new carpet surface is higher than the adjacent finish floor material, rubber edge molding will be required.

- B. **Transition threshold:** Provide 12" wide **stainless steel metal plate threshold** or reducer for bridging two levels of surface when leveling flooring is not permitted, wide expansion joint, or at two different flooring maintenance requirements area.

2.07 WALL BASE



Rubber cove base: Replace all existing cove base. Color to complement carpet. Base shall conform to Fed. Spec. SS-W-40 "Wall Base: Rubber and Vinyl Plastic." Type I (rubber), **6 inch high**, topset type, 1/8" inch thick. Provide thermoset rubber type TS, cove base, and preformed outside corners.

Base shall be equal to Burke Flooring Products Cove Base, Endura Rubber Flooring Cove Base; or approved equal.

PART 3 – EXECUTION

3.01 DEMOLITION

- A. The Contractor shall examine all work areas to verify existing conditions prior to proceeding with any work.
- B. Should the Contractor find any condition that would prevent work, he shall immediately notify the Airport Manager and not proceed until such conditions have been corrected.
- C. Completely remove existing carpeting as indicated, clean the debris and adhesive.

3.02 PREPARATION

- A. Field measurements shall be made to determine the exact quantity of materials required for the project.
- B. Examine surfaces on which carpeting is to be installed. Clean floor of oil, waxy films, paint, dust and deleterious substances that prevent adhesion, leave floor dry and cured, free of residue from curing or cleaning agents and existing carpet materials.
- C. Correct conditions which will impair proper installation, including trowel marks, pits, dents, protrusions, cracks or joints. Fill cracks, joints depressions, and other irregularities in concrete with leveling compound.
1. Do not use adhesive for filling or leveling purposes.
 2. Do not use leveling compound to correct imperfections which can be corrected by spot grinding.

3. Trowel to smooth surface free of trowel marks, pits, dents, protrusions, cracks or joint lines.
- D. Examine substrates, areas, and conditions for compliance with requirements for maximum moisture content, alkalinity range, per CRI 104 Section 6.3.1 or per ASTM E1907.
- E. Do not install carpet over concrete with either excessive moisture or dust producing surface which is not adequately sealed. Do not proceed with installation of carpeting until unsatisfactory conditions have been corrected in a manner acceptable to installer and carpet manufacturer. Sequence carpeting installation with other work in a manner which will minimize possibility of damage or deterioration to carpeting, and yet not delay completion of project.

3.03 INSTALLATION



- A. Prior to start of carpet installation, check critical dimensions of spaces to be carpeted, to ensure that planned use of materials will fulfill requirements, including locations for seams, joints, and edgings.
- B. Install all materials all plank methods. Install all carpeted area such as wall-to-wall, and other carpeted area, using qualified experienced carpet mechanics under proper supervision.
- C. Edge Guard and trim strips - Secure to floor with approved Edge Guards in all transition area meeting ADA requirement.
- D. Carpeting - Lay smooth and even in recommended adhesive, with clampdown trim strip where carpet abuts other flooring. Cut and fit evenly along walls and around projections. Fit closely and evenly to and through thresholds where carpet joins together in doorways. Center seams for adjoining rooms directly under the door. Carpet seams shall not occur over underlayment seams.
- E. Apply adhesive uniformly over entire substrate with recommended trowel. After recommended time has elapsed, press the pre-seamed carpet into the adhesive. Insure contact with adhesive by using a flat object such as a tool box tray to press carpet into the adhesive. Trim carpet as required.
- F. Install rubber cove base as recommended from Manufacture instruction. Use full length of base thru out, minimize cut as much as possible. No corner cut allowed.
- G. Save excess carpet and scraps for State. Deliver selected pieces to on-site storage room as directed by the Airport Manager. Remove remaining scraps from the job site.
- H. Cleanup - After installation is complete, clean up dirt and debris, remove excess adhesive, and clean carpet of spots with appropriate spot remover. Remove loose threads with sharp scissors and vacuum clean. Leave the entire

installation clean and in an approved condition.

3.04 INSPECTION

Contractor shall provide inspection from the carpet Manufacture. Contractor shall coordinate such meeting with Manufacturer's representative, State's inspection, Airport manager or his representative specialized in installation shall inspect and advise the construction work.

3.05 TRAINING

- A. Contractor shall provide minimum two (2) sessions of training to enable the State to maintain the new carpet in proper condition and to minimize wears and deterioration. Training involving the use of standard cleaning materials, tools and equipment, and procedures and frequencies shall be provided for six to ten State employees including supervisors and workers.
- B. The training shall be provided prior to final acceptance of the project by the State.
- C. The Contractor shall submit a schedule showing the date and type of training to be provided to the Airport Manager for approval.

PART 4 - MEASUREMENT AND PAYMENT

4.01 METHOD OF MEASUREMENT AND PAYMENT

Work under this Section will not be measured for payment but will be paid for at the various contract lump sum prices as shown below. The contract price paid shall be full compensation for all labor, materials, tools, equipment, and all incidental necessary to complete work.

Payment will be made under:



<u>Item No.</u>	<u>Description</u>	<u>Unit Price</u>
09681.1	All area – Carpet Type CP-2	Lump Sum

END OF SECTION

DIVISION 12 – FURNISHING

SECTION 12481 – ENTRANCE FLOORING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

Accessible route requirement of American Disability Act Accessibility Design Guideline (ADAAG)

1.02 DESCRIPTION OF WORK

A. This Section includes carpet tile, rubber base and expansion joint accessories.

B. Related Sections includes:

Section 01524 Construction Waste Management

Section 01560 Environment Controls

Section 01565 Security Measures

Section 03540 Cementitious Underlayment

1.03 SUBMITTALS

A. Product Data:

For each type of product indicated. Include manufacturer's written data on physical characteristics, certifications, durability, and fade resistance. Include installation methods and Replacement instructions.

B. Sustainable Requirements:

The sustainable design and construction goals pertain to energy and resource conservation, human health and well being, environmental preservation, and community viability.

1. The American National Standards Institute (ANSI) NSF 140: Compliance with ANSI NSF 140 is required. Provide the certificate for the carpet tile product meeting the minimum Silver level of this Sustainable Carpet Assessment Standard.
2. Indoor Environmental Quality: Compliance with ASHRAE 62-1989, "Ventilation for Acceptable Indoor Air Quality" and approved addenda is required. Eliminating sources of contaminants, and materials that support the growth of contaminants, is the preferred method to ensure the desired high

level of indoor air quality. VOC limits for sealants, adhesives and carpet products as recommended in the appropriate USEPA standards and guidelines.

C. Shop Drawings: Show the following:

1. Columns, doorways, walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
2. Carpet tile type color, and dye lot.
3. Type of subfloor.
4. Type of installation.
5. Pattern of installation.
6. Location of edge, transition, and other accessory strips.
7. Transition details to other flooring materials.

D. Samples:

For each of the following products and for each color and texture required. Label each sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings.

1. Entrance flooring Tile: four (4) each full size (12" x 12") minimum samples.
2. Exposed Edge Stripping and Accessory: three (3) each, 12-inch minimum long.
3. Rubber Base: three (3) each.

E. Maintenance Data:

For carpet tile to include in maintenance manuals specified in Division 1. Including the following:

1. Methods for maintaining carpet tile, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
2. Precautions for cleaning materials and methods that could be detrimental to carpet tile.
3. MSDS Sheets

- E. Manufacturer's Warranty: Furnish 3 copies of a written five-year (5) minimum wear warranty, signed by the flooring manufacturer agreeing to replace entrance flooring that does not comply with requirements or that fails within specified warranty period. The manufacturer will furnish and install new replacement carpet meeting these specifications at no cost to the State.
- F. Work Schedule: Submit three (3) copies indicating date, time and location for Airport Manager's approval at least two (2) weeks before any work is started.

1.04 QUALITY ASSURANCE

Installer Qualifications: An experienced installer who is certified by the Floor Covering Installation Board and who can demonstrate compliance with its certification program requirements. Provide a minimum of five (5) years of carpet tiles installation job list.

1.05 DELIVERY, STORAGE, AND HANDLING

General: Comply with CRI 104, Section 5, "Storage and Handling."

1.06 PROJECT CONDITIONS

- A. General: Comply with CRI 104, Section 6.1, "Site Conditions; Temperature and Humidity."
- B. Job site Condition Limitations: Do not install flooring until wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- C. Do not install flooring over concrete slabs or cementitious underlayment until slabs or cementitious underlayment have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by flooring manufacturer.

1.07 WARRANTY

- A. General Warranty: Special warranty specified in this Article shall not deprive.
- B. Five-year minimum Entrance Flooring Wear Warranty: Warranty insured that entrance mat flooring dimension stable (no cupping, dishing, or dimension changed), no delaminating and no less than 90% of the pile fiber will be retained when properly installed and maintained, and should the wear exceed ten percent (10%) in five years, the manufacturer will furnish and install new replacement flooring meeting these specifications at no cost to the State.
- C. Certification: Manufacturer's certification that flooring meet the following fire performance characteristics as determined by testing products in accordance with the latest version of ASTM method indicated below by a certified testing laboratory or another testing and inspecting agency acceptable to authorities

having jurisdiction.

1. Critical Radiant Flux: Class 1 Rating per NFPA 253 (ASTM E 648) (0.45 watts/cm² or greater).
2. Smoke Density: Less than 450 per NFPA 258 (ASTM E 662.)

1.08 EXTRA MATERIALS

Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Deliver to an airport storage area designated by the Airport Manager.



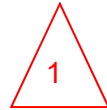
Entrance tiles: Full-size units equal to five (5%) percent, but not less than five dozen (60 full size tile pieces, of amount installed for each type.

PART 2 – PRODUCTS

- 2.01 ASBESTOS PROHIBITION: No asbestos containing materials or equipment shall be used under this section. The contractor shall ensure that all materials and equipment incorporated in the project are asbestos-free.

2.02 ENTRANCE FLOORING

- A. Construction: Tufted. Mutli-level loop.
- B. Yarn/Pile material: ECONYL solution dyed Nylon Type 6 and solution-dyed Nylon Monofilament
- C.
- D. Tile Size: 19.7" x 19.7" (50 cm x 50 cm)
- E. Dye Method: Solution Dyed
- F. Gauge: 1/12
- G. Base and backing: PVC-Free WellBAC Comfort Cushion
- H. Nominal Total weight: 104.2 oz/yd²
- I. Nominal Total thickness: 0.39"
- J. Average Density: 5,740



2.03 APPEARANCE:

	Manufacturer	Pattern/Style	COLOR
CP-1	Milliken	OBEX TILE: LOOP	TBD

2.04 ADHESIVE:

Provide adhesives as recommended by the Flooring manufacturer for direct glue-down application. Adhesive shall comply with flame spread rating required for the flooring installation. Product should not contain reportable quantities of hazardous ingredients as defined by federal OSHA 29 CFR 1910.1200.

All flooring adhesive shall not exceed the Volatile Organic Compound (VOC) limits of 50 grams per liter (g/l).

2.05 ACCESSORIES:

Provide surface transition edges, threshold and wall base accessories according to the related specifications Section 09681 Carpet Tile.

PART 3 – EXECUTION

3.01 DEMOLITION

- A. The Contractor shall examine all work areas to verify existing conditions prior to proceeding with any work.
- B. Should the Contractor find any condition that would prevent work, he shall immediately notify the Airport Manager and not proceed until such conditions have been corrected.
- C. Completely remove existing carpeting as indicated, clean the debris and adhesive.

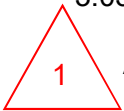
3.02 PREPARATION:

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
- B. Surface Preparation:
 - 1. General: Prepare floor substrate in accordance with manufacturer's instructions.
 - 2. Floor Substrate: Floors shall be sound, smooth, flat, permanently dry, clean, and free of all foreign materials including, but not limited to, dust, paint, grease, oils, solvents, curing and hardening compounds, sealers, asphalt and old adhesive residue.
 - 3. Concrete Floor Substrate: Concrete floor substrate shall have a minimum compressive strength of 3,000 psi. Refer to Division 3 Concrete sections for patching and repairing crack materials and leveling compounds with Portland cement-based compounds.

Reference Standard: Comply with the latest version of ASTM F 710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.

- C. Concrete Moisture Testing: Conduct moisture tests on all concrete floors regardless of the age, grade level or the presence of existing flooring. Conduct calcium chloride tests in accordance with the latest version of ASTM F 1869. Measure the internal relative humidity of the concrete slab in accordance with the latest version of ASTM F 2170. One test of each type should be conducted for every 1,000 square feet of flooring (minimum of 3). The tests should be conducted around the perimeter of the room, at columns, and anywhere moisture may be evident. Concrete moisture vapor emissions must not exceed 5.0 lbs. per 1,000 square feet in 24 hours when using Forbo 660 adhesive. Concrete internal relative humidity must not exceed 75% when using Forbo 660 adhesive. A diagram of the area showing the location and results of each test should be submitted to the Architect, General Contractor or End User. If the test results exceed these limitations, the installation must not proceed until the problem has been corrected.
- D. Concrete pH Test: Perform pH tests on concrete floors regardless of the age or grade level. The surface pH of concrete slabs must not exceed a pH of 9. Concrete substrates with pH readings less than 7.0 or above 9.0 will require remediation prior to installation.

3.03 INSTALLATION:



- A. Material Installation: **Install all materials in quarter turns.** After dry fitting all of the entrance flooring pieces, carefully lap each sheet back approximately half way. Take care that the sheets do not shift during handling. Mark the edge of the first sheet with a pencil line before lapping back. Snap a chalk line as a spread line in front of where the material is folded over to assure an even and straight line of adhesive. Apply adhesive and lay flooring into semi-wet adhesive, following the pencil line. As subsequent sheets are placed into the adhesive, smooth the seams into place using a spatula. Roll the adhered area with a 100-pound roller.
- B. Adhesive Installation: Use trowel as recommended by flooring manufacturer for specific adhesive (1/16" x 1/16" x 1/16" square notch trowel). Spread rate is approximately 110-120 ft²/gallon.
- C. Installation Techniques:
1. Where demountable partitions and other items are indicated for installation on top of finished flooring, install flooring before these items are installed.
 2. Scribe, cut, fit flooring to butt tightly to vertical surfaces, permanent fixtures and built-in furniture, including pipes, outlets, edgings, thresholds, nosings, and cabinets.

3. Extend flooring into toe spaces, door reveals, closets, and similar openings.
4. Install flooring on covers for telephone and electrical ducts, and similar items occurring within finish floor areas. Maintain overall continuity of color and pattern with pieces of flooring installed on these covers.
5. Do not install resilient flooring over expansion joints. Use expansion joint covers manufactured for use with resilient flooring. Refer to other specification sections for expansion joint covers.
6. Adhere resilient flooring to substrate without producing open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections in completed installation.

Use adhesive applied to substrate in compliance with manufacturer's recommendations, including those for mixing, trowel notch, and adhesive open and working times.

7. Roll resilient flooring as required by resilient flooring manufacturer.
- D. Cleanup - After installation is complete, clean up dirt and debris, remove excess adhesive, and clean flooring of spots with appropriate spot remover. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Vacuum floor after installation. Leave the entire installation clean and in an approved condition.

3.04 INSPECTION

Contractor shall provide inspection from the flooring Manufacture. Contractor shall coordinate such meeting with Manufacturer's representative, State's inspection, Airport manager or his representative specialized in installation shall inspect and advise the construction work.

3.05 INITIAL MAINTENANCE PROCEDURES

General: Include in Contract Sum Amount cost for initial maintenance procedures, and execute procedures after flooring installation as recommended by flooring manufacturer.

3.06 TRAINING

- A. Contractor shall provide minimum two (2) sessions of training to enable the State to maintain the new flooring in proper condition and to minimize wears and deterioration. Training involving the use of standard cleaning materials, tools and equipment, and procedures and frequencies shall be provided for five to ten State employees including supervisors and workers. Contractor should obtain approval from Airport Manager for schedule training.

B. The training shall be provided prior to final acceptance of the project by the State.

PART 4 – MEASUREMENT AND PAYMENT

4.01 METHOLD OF MEASUREMENT AND PAYMENT

Work under this Section will not be measured for payment but will be paid for at the various contract lump sum prices as shown below. The contract price paid shall be full compensation for all labor, materials, tools, equipment, and all incidental necessary to complete work.

Payment will be made under:

1	<u>Item No.</u>	<u>Description</u>	<u>Unit Price</u>
	12481.1	All area – Carpet Type CP-1	Lump Sum

END OF SECTION

PROPOSAL SCHEDULE

**REPLACE CARPET AT VARIOUS AIRPORT TERMINALS
DANIEL K. INOUE INTERNATIONAL AIRPORT
HONOLULU, OAHU, HAWAII
State Project NO. CO1329-63**

Item No.	Description	Unit Price	Total
A	<u>DIVISION 1 - GENERAL REQUIREMENTS</u>		
01010.1	Temporary Traffic Signs & Controls	Allowance	\$ 20,000.00
01010.2	Unforeseen Conditions	Allowance	\$ 100,000.00
01524.1	Construction Waste Management	Lump Sum	\$
01561.1	Construction Site Runoff Control Program	Lump Sum	\$
01562.1	Management of Contaminated Medias	Allowance	\$ 10,000.00
01565.1	Security Measures	Allowance	\$ 80,000.00
	Mobilization (Not to exceed 6% of sum of all items, excluding this item, all allowances and force account items)		
01700.1		Lump Sum	\$
B	<u>DIVISION 3 - CONCRETE</u>		
03540.1	Cementitious Underlayment	Allowance	\$ 80,000.00
C	<u>DIVISION 9 - FINISHES</u>		
09681.1	All area - Carpet Type CP-2	Lump Sum	\$
C	<u>DIVISION 12 - FURNISHING</u>		
12481.1	All area - Carpet Type CP-1	Lump Sum	\$
TOTAL AMOUNT FOR COMPARISION OF BIDS			\$

The prices bid herein shall include all labor, materials, equipment, and incidentals necessary to construct all items in place, including installation and testing of equipment, complete and ready for operation, all in accordance with the plans and specifications.

Notes:

1. Bids shall include all Federal, State, County and other applicable taxes.
2. The TOTAL AMOUNT FOR COMPARISON OF BIDS will be used to determine the lowest responsible bidder.
3. Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.
4. The State reserves the right to reject any or all Proposals and to waive any defects in the best interest of the State.
5. The bidder's attention is directed to Section 2.11 – BID SECURITY and Section 2.24 – REQUIREMENTS OF CONTRACT BONDS of the "General Provisions" as amended by the Special Provisions.
6. To be considered, bidders must bid on all the bid items and TOTAL AMOUNT FOR COMPARISON OF BIDS. Failure to do so maybe grounds for rejection of bid.
7. If the lowest TOTAL AMOUNT FOR COMPARISON OF BIDS is less than, or approximately equal to the funds available for this project, an award will be made to the lowest responsible bidder.
8. If the project exceeds the funds available, the State reserves the right to negotiate with the lowest responsible bidder as permitted under Section 103D-302, Hawaii Revised Statutes, to further reduce the scope of work and award a contract thereafter.
9. The bidder shall submit the proposal in HiePRO. The proposal shall be UPLOADED to HiePRO prior to the bid opening date and time. Proposals received after said due date and time shall not be considered. Original (wet ink) proposal documents are not required to be submitted. The award will be made based on proposals uploaded in HiePRO. Any and all other additional documents explicitly designated and labeled as CONFIDENTIAL OR PROPRIETARY shall be UPLOADED SEPARATELY to HiePRO. If there is a conflict between this specification and its HiePRO solicitation, the specifications shall govern and control unless otherwise specified.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS DIVISION
PRE-BID MEMORANDUM FOR THE RECORD

DATE: May 22, 2023 **TIME:** 10:00 a.m.

LOCATION: Daniel K. Inouye International Airport
Terminal 1, 7TH Floor, Conference Room C

PROJECT: Replace Carpet at Various Airport Terminals
Daniel K. Inouye International Airport State
Project No. **CO1329-63**
HlePRO Solicitation # B23002770

ATTENDEES: See attached Sign-in Sheet

SUMMARY:

I. GENERAL DISCUSSION

1. All Attendees were reminded to fill out the attendance sheet completely (name, email address, phone number, etc.) for contacting purposes.
2. Participants involved with the project were introduced (State and CM Consultant).
3. All questions and substitution requests must be submitted in writing to the State Project Manager Wendy Cheuk by June 01, 2023 by 4:00 pm. Send all questions by email to: wendy.cheuk@hawaii.gov Subject: Replace Carpet at Various Airport Terminals.

All requests received after the deadline will not be addressed. Verbal requests for information will not receive a response.

Notice to Bidders show: "All request for information shall be received in writing via HI ePRO fourteen (14) calendar days prior to bid opening or **June 01, 2023**. Questions received after the deadline will not be addressed. Verbal requests for information will not receive a response."

Request for Site Visit shall be emailed to wendy.cheuk@hawaii.gov

Indicate preference date as follows in your email response:

- Friday May 26, 9:00 am
- Tuesday May 30, 12:00 pm
- Wednesday May 31, 9:00 am

Replace Carpet at Various Airport Terminals
Daniel K Inouye International Airport
State Project No. CO1329-63

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.
5. Important dates brought to attendees' attention:

Bid Opening is **June 15, 2023, at 2:00 p.m.**

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

II. PROJECT DESCRIPTION

1. State Project Manager Wendy Cheuk to provide a brief description of the project Scope of Work.
2. Project duration is 365 calendar days from the date indicated on the Notice to Proceed.
3. Liquidated damages in the amount of \$450 per calendar day will be assessed if work is not completed within the contract time.
4. This is a state project utilizing State funds. No DBE or federal regulation required.
5. Unless there is a problem with the award process, the State intends to issue the Notice to Proceed date 90 calendar days after award date.
6. Work shall be performed after Airport Operation, most likely between 8:00 p.m. to 5:00 a.m. Sunday night to Saturday morning. Bidders shall not assume that they will be given work windows during these hours. The Airport reserves the right to adjust work hours in order to provide minimum interruption to Airport Operations with no additional cost to the State.
7. Security plan shall be submitted within 14 calendars days after award of contract as specified in Paragraph 1.03 of Section 01565.
8. Most of the work is located in a secured area. Other security requirements are stated in Section 01565, Security Measures.
9. Subject to approval from the Airport Manager, access to the airport will probably be limited through Access Checkpoint 'A'. All vehicles entering the AOA may be subject to search.
10. 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. Attached for your information.
11. Pending the availability of space on airport property, the State will issue a permit to the Contractor for the use of the space, with fee, to be used specifically for a field office and/or storage of materials

Replace Carpet at Various Airport Terminals

Daniel K Inouye International Airport

State Project No. CO1329-63

and equipment. See detail in Paragraph 1.04 of Section 01000. Since space on airport property is extremely limited, the State does not guarantee that the space provided to the Contractor will be in close proximity to the project site. The State will make every effort to provide the Contractor with space on airport property, however, should the State determine that no space is available for such use(s), the responsibility shall then be on the Contractor to find space outside of airport property. Staging areas shall be secured at all times.

12. Vehicle Parking: no free parking. Upon approval by DOTA, monthly passes may be purchased at a discounted rate of \$175/month, valid until the expiration of the Contract. All costs associated with obtaining parking shall be incidental to the Contract. No reimbursement. See Paragraph 1.03 of Section 01000 for application details.
13. To be eligible for award, bidders must possess a valid State of Hawaii Specialty Contractor's "C-7" or "C-21" License at the time of bidding.
14. **Contractor shall not put any conditions or exceptions on the bid.**
15. Contractor's Training Guide can be found online at <https://hidot.hawaii.gov/airports/files/2012/12/Contractors-Training-Guide-July-2013.pdf>.

III. QUESTIONS

1. Is this night work for the entire project?

Yes, mostly will be night work. Possible late afternoon starts for some area, depending on Airport Operation hours or office hours. State will coordinate with operation to get most hours possible.

2. Is there vehicle parking passes application?

Sorry, no free parking. See Paragraph 1.03 of Section 01000 for application details.

If there are any omissions or corrections to be made to the minutes of the meeting, please respond in writing by 2 p.m. **May 23**, 2023.

Meeting adjourned at: 10:30 a.m.

Wendy Cheuk
Project Manager
State DOT, Airports Division
Phone: 808-838-8822

ec: All attendees (See attached sign-in sheet)
Vehicle Parking: no parking validation.

Replace Carpet at Various Airport Terminals
Daniel K Inouye International Airport
State Project No. CO1329-63

MEETING ATTENDANCE SHEET

Pre-Bid Meeting

Project Name: **Replace Carpet at Various Airport Terminals**
 Daniel K Inouye International Airport
 Project No. CO1329-63

Meeting Location: **Terminal 1, 7TH Floor, Conference Room C**

Date: 5/22/2023 Time: 10:00 am

Name: Wendy Cheuk Title: Architect, Project Manager Initial:	Company: STATE DOTA Address: 400 Rodgers Blvd., Suite 700, Honolulu, HI 96819	Phone: (808) 838- 8868 8822 email: wendy.cheuk@hawaii.gov
Name: C.S. Mirto Title: Project Manager Initial: <i>CM</i>	Company: Abbey Carpet & Floor Address: 560 N. Wimitz Hwy Suite 100 Honolulu, HI 96817	Phone: 818 974-7076 email: Cj@AbbeyFloorHi.com 808-487-6667
Name: William Manning Title: Commercial Sales Initial: <i>WM</i>	Company: All American Moving Address: 91-110 Hanua Street Unit 208 Kapolei HI 96707	Phone: 808 294-7795 email: William@windwardmoving.com
Name: Randi Lau Title: Contract Sales Initial: <i>RL</i>	Company: American Floor and Home Address: 302 Sand Island Access Rd.	Phone: (808) 382-5567 email: Randil@americanfloorandhome.com
Name: Jadaun Perez Title: Contract Sales mgr. Initial: <i>JP</i>	Company: American Floor & Home Address: 302 Sand Island Access Rd Honolulu, HI 96819	Phone: 808-224-1326 email: jadaunp@americanfloorandhome.com
Name: Glen Takahashi Title: Installation Manager Initial: <i>GT</i>	Company: AFH Address: 302 Sand Island Acc. RD Hon, HI 96819	Phone: 808. 783-3771 email: glent@americanfloorandhome.com

MEETING ATTENDANCE SHEET

Pre-Bid Meeting

Project Name: **Replace Carpet at Various Airport Terminals**
 Daniel K Inouye International Airport
 Project No. CO1329-63

Meeting Location: **Terminal 1, 7TH Floor, Conference Room C**

Date: 5/22/2023 Time: 10:00 am

Name: <i>Pepito Gomez</i> Title: <i>Building Const. Inspector</i> Initial: <i>P</i>	Company: <i>State of Hawaii DOT - Airport EC</i> Address:	Phone: <i>(808) 589-7383</i> email: <i>pepito.gomez@hawaii.gov</i>
Name: <i>Erin Murakami</i> Title: <i>Estimator</i> Initial: <i>E</i>	Company: <i>American Floor & Home</i> Address: <i>302 Sand Island Access Rd.</i>	Phone: <i>808 783-3774</i> email:
Name: <i>KALEO PEREZA</i> Title: <i>CONSTRUCTION INSPECTOR</i> Initial:	Company: <i>STATE OF HAWAII</i> Address: <i>DOT AIRPORTS EC</i>	Phone: email: <i>jerome.k.pereza@hawaii.gov</i>
Name: <i>IRENE NOHARA</i> Title: <i>CONSTRUCTION MANAGER</i> Initial: <i>W</i>	Company: <i>ENGINEERS SURVEYORS HI</i> Address:	Phone: <i>808 554 0883</i> Email: <i>irene@esh-inc.com</i>
Name: Title: Initial:	Company: Address:	Phone: Email:
Name: Title: Initial:	Company: Address:	Phone: Email:

APPENDIX A

RADIO AND DRIVING PROCEDURES
FOR
HONOLULU INTERNATIONAL AIRPORT (HNL)
AIRPORT OPERATIONS AND MOVEMENT AREAS

Honolulu International Airport
Oahu District - Airports Division
Department of Transportation
Honolulu, Hawaii

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DEFINITION OF TERMS

The following definitions of terms had been reproduced for reference and have been extracted from the "Federal Aviation Regulation Parts 1 & 139, HCF Letter to Airmen No. 00-05 and Advisory Circular 150, and HNL Airport Certification Manual."

1. Approach End of Runway - Shall mean the near end of the runway as viewed from the cockpit of a landing aircraft.
2. Displaced Threshold - Shall mean a threshold that is located at a point on the runway other than the beginning of the full strength pavement and the paved area between the beginning of the full strength pavement and the displaced threshold is used for takeoff or roll-out of aircraft.
3. Extended Runway Safety Area - Shall mean a cleared, drained, and graded rectangular area symmetrically located about the extended runway centerline that begins 200 feet from the end of a usable runway safety area.
4. Honolulu Control Facility (HCF) - The consolidation of Honolulu Center/RAPCON (CERAP) and Honolulu Airport Traffic Control Tower (ATCT), physically and administratively, into one facility for the purpose of controlling aircraft movements and operations.
5. ILS and LDA Holding Position Markings - The ILS and LDS (Instrument Landing System and Localizer Type Direction Aid) holding position markings are used to protect ILS localizer and glide slope critical facility areas to insure signal protection.
6. Instrument Landing Systems (ILS) - Shall mean a system which provides in the aircraft the lateral, longitudinal, and vertical guidance necessary for a landing.
7. Localizers (LOC) - Provides course guidance and is a component of the ILS. The localizer puts out a signal that is used by the pilot to establish and maintain the aircraft's horizontal direction until visual contact is made with the runway.
8. Movement Area - Area including the operational runways, taxiways and ramp areas used for taxiing or hover taxiing, takeoff, and landing of aircraft, exclusive of loading ramps and aircraft parking areas, in which aircraft, vehicles, equipment and personnel are required to be under airport traffic control provided by the Control Tower. Movement area is denoted by yellow non-movement area boundary marking located on the boundary between the movement and non-movement areas.
9. Non-Movement Area Boundary Marking - Marking consists of two yellow lines (one solid and one dashed) painted on the ramp surface. The solid line is located on the non-movement area side while the dashed yellow line is located on the movement area side.

10. Navigational Aid (NAVAID) - Shall mean any facility used in, is available for use in or designated for use in the aid of air navigation.
11. Obstacle - Shall mean any fixed or mobile object that is located on an area intended for the surface movement of aircraft that extends above a defined surface intended to protect aircraft in flight, that interferes with the citing or operation of navigational aids, or that may control the establishment of instrument procedures.
12. Obstacle Free Zone (OFZ) - Is an area comprised of:
 - a. Runway OFZ – The runway OFZ is the volume of space above a surface longitudinally centered on the runway.
 - b. Approach OFZ – The approach OFZ is the volume of space above a surface which is the same width as the runway OFZ.
13. Relocated Threshold - Shall mean a threshold that is located at a point on the runway other than the beginning of the full strength pavement and the paved area between the former threshold and the relocated threshold is no longer used for the landing and takeoff of aircraft.
14. Runway - Shall mean a defined rectangular area on an airport prepared for the landing and takeoff of aircraft.
15. Runway Designation Markings - Runways are identified by numbers which indicate the nearest 10° increment of the azimuth of the runway centerline. The magnetic azimuth of the runway centerline is measured clockwise from the magnetic north when viewed from the direction of approach. Magnetic azimuth is 183°; the runway designation marking would be 18.
 - a. Magnetic azimuth is 87°; the runway designation marking would be 9.
 - b. Magnetic azimuth ending in the number "5", such as 185°; the runway designation marking can either be 18 or 19.

Numbers and supplemental letters are required for parallel runways. For 2 parallel runways "L", "R"; the supplemental letter is determined in the order shown from left to right, when viewed from the direction of approach.
16. Runway Lighting - Shall mean the lighting system consisting of runway edge lights and runway end/threshold lights.
 - a. Runway Edge Lights – Edge lights are elevated, omni directional, steady burning lights having clear lenses.
 - b. Runway End/Threshold Lights – End/threshold lights are identical to edge lights except that a two-color (red/green) lens is used. The green half of the lens

faces the approaching airplane, indicating the beginning of the usable runway. The red half of the lens faces the airplane on roll-out or take-off, indicating the end of the usable runway. Threshold lights are located at each end of the runway.

17. Runway Safety Area - Shall mean a cleared, drained, and graded area abutting the edges of a usable runway and symmetrically located about the runway; the central portion of which is the usable runway, which extends beyond each end of the runway. This area is able to support firefighting and rescue equipment.
18. Runway Side Stripe Marking - Shall mean the continuous stripes located along each side of the runway to provide contrast with the surrounding terrain and/or to delineate the full strength runway pavement area. These stripes extend to the end of the displaced threshold areas which are used for take-offs or roll-outs.
19. Runway Threshold - Shall mean the designated beginning of the runway that is available and suitable for the landing aircraft.
20. Runway Touchdown Zone Marking - Shall mean markings consisting of groups of one, two, and three rectangular bars symmetrically arranged in pairs about the runway centerline.
21. Safety Areas - Shall mean an area having no potentially hazardous ruts, depressions, humps, or other surface variations. No object is located in any safety area, except objects that must be maintained because of their functions or that are constructed on frangible mounted supporting structures and has a storm sewer system sufficient to adequately handle the drainage of water off each safety area or the topography of the airport allows direct run-off of that water.

Safety Areas are the following:

- a. Extended runway safety area
 - b. Runway safety area
 - c. Taxiway safety area
22. Shoulders - Shall mean the areas outside of the traveled way of a runway/taxiway. Part of the runway/taxiway safety areas.
 23. Stabilized Areas - Shall mean shoulder areas stabilized to prevent blast and water erosion, may have the appearance of a full strength pavement but is not intended for use by aircraft. The stabilized area is marked with stripes perpendicular to the edge stripes and is able to support firefighting and rescue equipment.
 24. Taxilane - Shall mean a defined path, to and from aircraft parking positions, selected or prepared for the taxiing of aircraft.

25. Taxiway - Shall mean a defined path, from one part of an airport to another, selected or prepared for the taxiing of aircraft to facilitate airplane movements to and from the runway.

Taxiways are classified in three groups:

- a. Parallel Taxiways
- b. Exit Taxiways
- c. Hangar and Apron Access Taxiways

26. Taxiway Guidance Signs - Shall mean signs installed on an airport to aid pilots of aircrafts to destinations, to identify aircraft holding position markings, and for safety of ground operations.

Sign applications are as follows:

- a. Outbound destination signs used to mark outbound taxiing routes from their beginning to termination.
 - b. Inbound destination signs used to mark inbound routes usually beginning at the entrance to a taxiway from a runway.
 - c. Intersection signs provided at the intersections of taxiways or at an intersection of a taxiway with a runway or critical area.
 - d. Holding position signs used to identify holding position markings on taxiways entering runways of critical areas.
 - e. Taxiway intersection signs used to identify taxiways to include short sections caused by intersections or other runways.
 - f. Destination signs seen prior to entering intersections where the possibility of alternate route exists.
27. Taxiway Safety Areas - Shall mean an area, symmetrical about the taxiway centerline which includes the taxiway and taxiway shoulders. The portion abutting the edge of the taxiway shoulders is cleared, drained, graded and usually turf. This area is able to support firefighting and rescue equipment.

I. RADIO PROCEDURES AND GUIDELINES

A. Air Operations and Movement Areas

1. Always check your radio equipment for squelch and volume.
2. Be short and precise.
3. Answer all transmissions with your designated call signs.

Example: PAINTING CONTRACTOR, ROGER (Means – Painting Contractor understands the FAA Controller's instructions/directions)

PAINTING CONTRACTOR, WILCO (Means – Painting Contractor will comply with the FAA Controller's instruction/direction)

PAVING CONTRACTOR, AFFIRMATIVE (Means – Paving Contractor's answer to the FAA Controller's question is YES)

PAVING CONTRACTOR, SAY AGAIN (Means – Paving Contractor did not understand the FAA Controller's instruction, directions, or questions and Contractor wants Controller to REPEAT his last transmission.)

4. Always give the FAA Controller the following information:
 - a. Who you are.
 - b. Where you are.
 - c. What you want to do.

B. Yellow Demarcation Lines – North and South Ramp

1. All vehicles must advise the Ground Controller on Frequency 121.9 whenever entering or exiting the YELLOW DEMARCATION LINE onto the MOVEMENT AREA.
2. Inform the Ground controller on:
 - a. Who you are.
 - b. Where you are.
 - c. What you want to do.

Example: HONOLULU TOWER/PAINTING CONTRACTOR (Means – Painting Contractor is calling the Local Controller)

PAINTING CONTRACTOR/HONOLULU TOWER (Means – The Local Controller is acknowledging the Painting Contractor's call or transmission)

HONOLULU TOWER/PAINTING CONTRACTOR, SOUTH RAMP DELTA, PERMISSION TO CROSS ALL RUNWAYS TO THE NORTH RAMP. (Means – Painting Contractor is calling Local Control, Contractor is located on the South Ramp at Taxiway Delta, requesting permission to cross Runways 4R, 4L, and 8L, to return to the Main Terminal)

3. Honolulu Ground Control, Frequency 121.9, must be monitored AT ALL TIMES while on the movement area.
4. Use words like “affirmative, negative, say again”; words that cannot be confused. Always use your call sign to identify yourself on every transmission.
5. When in doubt of the FAA Controller's instructions, directions, questions, or transmissions, ASK CONTROLLER TO REPORT OR SAY AGAIN. NEVER CROSS OR MOVE if you are in doubt.
6. When the FAA Controller is busy with an emergency or aircraft traffic, wait for a break in radio activity unless you are in a precarious position.

C. VHF Radio Frequencies Required

1. VHF two-way radio equipment is required for all vehicles operating on Air Operations or Movement Areas unless under direct escort of a properly radio equipped vehicle.
2. All vehicles must have the following frequency capabilities and allows the contractor to transmit and receive:
 - a. 121.8 – Honolulu Ramp Control (State)
 - b. 118.1 – Honolulu Tower/Local Frequency (FAA)
 - c. 121.9 – Honolulu Ground Control Frequency(FAA)

You are **NOT PERMITTED TO TRANSMIT** on any other frequencies except those required above or as directed by the FAA Tower.

II. CONTRACTOR RADIO CALL SIGNS

A. Prefix and Suffix

Use TYPE of work being performed as call sign prefix and the word "Contractor" as suffix for all communications while in the Air Operations and Movement Area.

Example: Electrical Contractor; Painting Contractor; Paving Contractor, etc.

B. Numerical Suffix

If more than one radio equipped unit of the same Contractor is in the Air Operations and Movement Area during the same work period, use a numerical suffix to distinguish individual unit(s).

Example: "Painting Contractor One"; "Painting Contractor Two", etc.

III. INTERNATIONAL PHONETICS

A. Alphabets

<u>Letter</u>	<u>Word</u>	<u>Pronounced</u>
A	ALPHA	AL-FAH
B	BRAVO	BRAH-VOH
C	CHARLIE	CHARL-LEE or SHAR-LEE
D	DELTA	DELL-TAH
E	ECHO	ECK-OH
F	FOXTROT	FOKS-TROT
G	GOLF	GOLF
H	HOTEL	HOT-TEL
I	INDIA	IN-DE-AH
J	JULIETT	JEW-LEE-ETT
K	KILO	KEY-LOH
L	LIMA	LEE-MAH

M	MIKE	MIKE
N	NOVEMBER	NO-VEM-BER
O	OSCAR	OSS-CAH
P	PAPA	PAH-PAH
Q	QUEBEC	KEY-BECK
R	ROMEO	ROW-ME-O

HNL Airport Only: REEF REEF

S	SIERRA	SEE-AIR-RAH
T	TANGO	TANG-GO
U	UNIFORM	YOU-NEE-FORM or OO-NEE-FORM
V	VICTOR	VIC-TAH
W	WHISKEY	WISS-KEY
X	XRAY	ECKS-RAY
Y	YANKEE	YANG-KEY
Z	ZULU	ZOO-LOO

B. Numbers

<u>Number</u>	<u>Word</u>	<u>Pronounced</u>
1	ONE	WUN
2	TWO	TOO
3	THREE	TREE
4	FOUR	FOW-ER
5	FIVE	FIFE
6	SIX	SIX
7	SEVEN	SEV-EN

8	EIGHT	AIT
9	NINE	NINE-ER
0	ZERO	ZEE-RO

IV. RADIO TERMINOLOGY AND PHRASES

A. Radio Terminology Frequently Used

<u>Normal Language</u>	<u>Radio Language</u>
YES	AFFIRMATIVE
UNDERSTAND	ROGER
NO	NEGATIVE
REPEAT	SAY AGAIN
WILL COMPLY	WILCO
PERSON OR AGENCY	STATION

B. Radio Terminology Frequently Used By The FAA

<u>Normal Language</u>	<u>Radio Language</u>
STOP	HOLD SHORT
GO	PROCEED
OKAYED	APPROVED
CONFIRM	VERIFY
WARNING	CAUTION
TO GO BY	PASS
DRIVE THROUGH	CROSS
INFORM	ADVISE
FREE FROM	CLEARED
WITH SPEED	EXPEDITE

TO TURN YOUR VEHICLE MAKE A 180° TURN
AROUND TO FACE THE
OPPOSITE DIRECTION

NORTH, EAST, SOUTH, WEST

NORTH = MAIN TERMINAL
EAST = DIAMOND HEAD
SOUTH = LAGOON DRIVE DIRECTION
WEST = TOWARD EWA, HICKAM AFB

C. Commonly Used Instructional Phrases

1. "ENTERING/EXITING MOVEMENT AREA ABEAM GATE # ____"
2. "ENTERING/EXITING MOVEMENT AREA, _____ TAXIWAY"
3. "ENTERING MOVEMENT AREA (LOCATION) WILL STAY CLEAR OF ALL ACTIVES"
4. "WILL STAY CLEAR OF ALL ACTIVES"
5. "FOR RUNWAY AND TAXIWAY INSPECTIONS"
6. "FOR RUNWAY AND TAXIWAY LIGHT INSPECTION"
7. "FOR AIRFIELD INSPECTION"
8. "HEADING TOWARDS"
9. "NORTH BOUND, EAST BOUND, SOUTH BOUND, WEST BOUND"
10. "PERMISSION TO CROSS"
11. "PERMISSION TO DRIVE ON RUNWAY _____"
12. "SHORT DELAY, PICKING UP _____ (FOD)"
13. "SHORT DELAY, FIXING _____ (Describe)"
14. "ON SHOULDER, WILL GIVE WAY TO ALL AIRCRAFT"
15. "WILL GIVE WAY TO ALL AIRCRAFT"
16. "ESCORTING _____ (Number of) VEHICLES"
17. "ESCORTING _____ (Number of) SLOW MOVING VEHICLES"

18. "EAST GUIDELINE"
19. "WEST GUIDELINE"
20. "APPROACH END, RUNWAY _____"
21. "DEPARTURE END, RUNWAY _____"
22. "BETWEEN THE 4'S (Runway 4R and 4L)"
23. "CROSS BOTH RUNWAY 4'S (Runway 4R and 4L)"
24. "HOLDING SHORT, RUNWAY _____"
25. "CLEARED, RUNWAY _____"
26. "GRASS AND CORAL AREA _____ (Location),
FOR _____ (Describe job to be performed)"

V. VEHICLE SAFETY PROCEDURES

A. Ramp and Apron Areas

1. Always watch for other vehicle movements as well as aircraft taxiing or under tow.
2. Allow aircraft taxiing into gates time to shut down their engines to avoid engine blasts. Aircraft engine rotation is lessened and can be gauged by a lower sound level. Watch the approach direction of ground equipment servicing the parked aircraft.
3. Signs to alert driver to aircraft pushbacks.
 - a. Belly and dome lights are on (usually red and blinking).
 - b. No ground equipment near or attached to the aircraft.
 - c. Loading bridge has been removed.
 - d. Driver is in the aircraft's two tractor and the tractor's amber beacon is blinking.
 - e. Nose wheel chocks have been removed.
 - f. Aircraft representative may be at the edge of the road directing traffic prior to pushback.

MONITOR 121.9 – HONOLULU GROUND CONTROL FOR PUSHBACK CLEARANCES

4. Signs to alert driver that aircraft is parked for storage.
 - a. Belly and dome lights are off.
 - b. Wing tip lights are on, steady illumination (usually white, only at night)
 - c. No ground equipment near or attached to aircraft.
 - d. Loading bridge is removed.
 - e. Driver not in tow tractor/no tow tractor attached.
 - f. Nose wheel chocks are in place.

(NOTE: Some carriers have tow tractor and loading bridges attached and no wing tip lights on).

5. Adhere to all ramp markings and signs advising height and speed restrictions.

B. Vehicle Safety Procedures on Movement Areas

1. Use fixed landmarks to help identify taxiway locations:

Example: Delta Taxiway on the North Ramp – Located abeam of Gate #30

Delta Taxiway on the south Ramp – Located abeam of the FAA Maintenance Hanger

Echo Taxiway on the North Ramp – Located abeam of Gate #18

Echo Taxiway on the South Ramp – Located abeam of Air Service Corporation

2. Identifying Colors:
 - a. All RUNWAY markings are painted WHITE and have runway numbers painted on both ends.
 - b. All RUNWAY edge lights are WHITE.

- c. All TAXIWAY markings are painted in YELLOW.
 - d. All TAXIWAY edge lights are BLUE.
 - e. All OBSTRUCTION and NAV aids are painted INTERNATIONAL CHECKERED or INTERNATIONAL ORANGE/WHITE CHECKERED pattern.
 - f. All buildings painted in INTERNATIONAL ORANGE/WHITE CHECKERED pattern belong to the FAA, including all NAV aids (VASI, MALS, ILS, etc.).
3. Runway distance markers are located on the sides/edge of runways. It provides information on the length of available runway remaining in thousand foot increments from the marker location to the end of the usable runway. Markers have BLACK BACKGROUNDS and WHITE NUMBERS.
4. Runway and taxiway indicator signs are located at numerous intersections and locations on the airfield to be used as directional aids.
- a. Runway Signs – RED BACKGROUND/BLACK LETTERING.
 - b. Taxiway Signs – BLACK BACKGROUND/YELLOW LETTERING as viewed when ON particular taxiway and YELLOW BACKGROUND/BLACK LETTERING when approaching intersecting taxiways.
 - c. Directional Signs – YELLOW BACKGROUND/BLACK LETTERING and BLACK DIRECTIONAL ARROWS.
5. Vehicles using the ramp roadway to Inter-island must cross two taxiways (Golf and Lima). Use extreme caution when using this area and give way to all aircraft. Inter-island traffic usually exit by Taxiway L (Lima) and enter via Taxiway G (Golf).
6. Inter-island and Commuter Air Terminal ramp areas have no identifying vehicle roadways. Extreme caution must be exercised when entering/exiting this area. Operators of vehicles must be alert to aircraft Activity as well as passenger enplaning and deplaning.
7. Hold Lines consist of DOUBLE SOLID LINES with DOUBLE DASH LINES painted in YELLOW on taxiways. Areas Marked are usually taxiways that intersect with runways or other taxiways insuring a zone free from obstacles from taxiing or landing aircrafts.

Example: _____ DOUBLE SOLID LINE

DOUBLE DASH LINE

8. Hold Lines.
 - a. Dashed Line Facing Vehicle – Proceed with caution.
 - b. Solid Line Facing Vehicle – Hold short or stop look for taxiing aircraft then proceed with caution.
 - c. Stop before hold lines, either the Double Solid or the Double Dash, when told to HOLD SHORT by FAA Tower.
9. ILS and LDA Hold Lines ILS (Instrument Landing System) and LDA (Localizer Directional Aid) HOLD LINES are located on taxiways where vehicle and equipment are required to wait when stopped for prolonged periods to avoid causing interference with electronic landing aid signals. Observance of ILS and LDA hold procedures is critical during adverse weather conditions.
 - a. LDA Hold Line – Located on Taxiway Charlie between Runway 22L and Runway 26R.
 - b. ILS Hold Line – Located on Taxiway Charlie between Taxiway Foxtrot and Taxiway Reef Tango.
 - c. ILS Hold Line – Located on Taxiway Bravo between Taxiway Tango and the Hot Cargo (Hickam) area.
 - d. ILS Hold Line – Located on Taxiway Reef Tango between Taxiway Charlie and Taxiway Reef Alpha.
 - e. ILS Hold Line – (1) Located on Taxiway Reef Alpha midway between Taxiway Reef Mike and Reef Golf and (2) near Taxiway Reef Mike.
10. Honolulu Tower Runway Crossing Procedures:
 - a. TAXIWAY ECHO for movement between North and South Ramps.
 - b. TAXIWAY DELTA for movement between South and North Ramps.

- c. Midfield Crossings – May still be accomplished across Runway 8L/26R at taxiway Golf or Romeo Bravo; must be coordinated with FAA Tower.
 - d. Continue contact and monitoring of Tower frequency (118.1), while on the actives (Runways) and Ground Control frequency (121.9), while on the movement areas.
11. All vehicles operated on the movement area between sunrise and sunset except those being escorted, shall be equipped with an overhead rotating/flashing/strobe beacon visible for at least one (1) mile or display a flag at least 3 feet square with orange and white checkered squares of not less than one (1) foot on each side.

Beacons should be TURNED ON while driving on the movement area during sunrise to sunset and sunset to sunrise. Contractors like maintenance vehicles should use an AMBER colored beacon visible for one (1) mile, unless such vehicle is being escorted by another so equipped.

VI. DRIVING BETWEEN THE HOURS OF SUNSET AND SUNRISE

A. Ramp and Apron Driving

- 1. Use more caution, roadways hard to see.
- 2. Same as driving during adverse weather conditions, roadway lines not clearly visible.
- 3. Caution driving during adverse weather conditions, roadway lines not clearly visible.

B. Airfield or Movement Areas

- 1. Use rotating beacon light on vehicles at all times.
- 2. Stay on Yellow Lines, use them as directional aids.
- 3. Use landmarks that are fixed to gauge your direction or location.
- 4. Must have thorough knowledge of runways, taxiways, obstructions, and unmarked roadways placed in memory.

VII. HAZARDS ALONG THE ROUTE

- A. Failure to check radio equipment for squelch and Volume.

APPENDIX C

Date: _____

REMOVAL OF FURNITURE & EQUIPMENT

Dear Sir:

The following removal of airport furniture/equipment is requested in
conjunction with _____

(Project Title and Project Number)

DATE: _____

TIME: _____

TYPE OF REMOVAL:

_____ Advertisement Display

_____ Camera

_____ Equipment*

_____ Cart Racks

_____ Chairs

_____ Coin Change Machine

_____ Custodial Supplies

_____ Other (describe) _____

_____ Fire Equipment

_____ Flight Information

_____ Mail Box

_____ Plumbing Fixtures

_____ Postage Machine

_____ Public Address Sys.

_____ Signage

_____ Telephone

_____ Trash Receptacles

_____ T.V. Chairs

_____ Vending Equipment

_____ Electrical Fixtures

* List telephone number (s) of equipment to be removed.

AREAS TO BE AFFECTED: _____

LOCATION OF WORK: _____

NECESSITY AND REMARKS: _____

GENERAL CONTRACTOR: _____

SUBCONTRACTOR: _____

In case of an emergency, the following personnel will respond:

NAME: _____

PHONE: _____

(Print or Type)

NAME: _____

PHONE: _____

COMPANY: _____

BY: _____

TITLE: _____

ADDRESS: _____

PHONE: _____

APPROVAL RECOMMENDED:

APPROVED / DISAPPROVED:

Airport Engineer

Date

Airport Manager

Date

E. RESPONSES TO REQUEST FOR INFORMATION (RFI'S/QUESTIONS)

1. Question: Please clarify the manufacture and style of the Carpet Tiles “CP-1 and CP-2.”

Response: CP-1 is Milliken, Obex tile loop. Color TBD. It will be 2 colors 50% each. CP-2 has two styles.

Milliken, Major Frequency- Impromptu, in all offices area. Color TBD. 3 colors, 1/3 each. Milliken, Revelation/ Reveal in all public area. Color TBD. 3 colors, 1/3 each.

2. Question: Please clarify “Inspector Fee.” What type of inspector is this for? Do you happen to know the prevailing wage fee for this particular inspection?

Response: Please see General Provisions for Construction Projects – AIR and Water Transportation Facilities Divisions. Article 7 Legal Relations and Responsibility to Public, Section 7.5 Overtime and Night Work to 7.6 Overtime and Night Payment for State Inspection Service. You can find the entire General Provisions on this link.

<https://hidot.hawaii.gov/administration/con/>

Average hourly and fringe rate for a senior inspector is approximately \$160.00

3. Question: Please provide the Contractor’s Training Guide link.

Response: Contractor’s Training Guide is attached on this addendum.

4. Question: Who responsible for moving the x-ray machine or electronic equipment?

Response: DOT Airport will coordinate with the owner to relocate equipment for carpet installation. Equipment such as USDA x-ray machines, TSA detection machines, massage chairs, airlines recharge station, ticketing podium, copier machines, computers, printers, and miscellaneous items.

5. Question: Who responsible for moving concessions carts or display cases?

Response: DOT Airport will coordinate with the concessions owner to relocate carts or display cases for carpet installation.

6. Question: There are carpet wall and window benches in holding rooms. Are those part of the project?

Response: The carpet wall and window benches are not part of this project.

7. Question: There are existing hard tiles flooring and show as new carpet area. Are those hard tiles to be demolish?

Response: Not necessary, as long as the hard tiles and substrate are solid. Cementitious Underlayment can fill the voids and provide an even surface. All flooring shall meet ADA access requirement.

8. Question: There are 4" wall base in some area and 6" wall base in other area. Which is the project specified?

Response: According to Specification Section 09681 Carpet Tiles, 2.07 WALL BASE, Type 1 (rubber), 4-inch high, topset type, 1/8" inch thick.

9. Question: There are luxury vinyl plank between E 3 and E 4. Will this require to be demolished?

Response: Yes, Contractor is required to demolish the luxury vinyl plank.

10. Question: When will the State expect the project starts construction work?

Response: State is expected to award in July 2023. Estimate 2 to 3 months for contract execution. Notice to proceed could be issue as early as September.

11. Question: Are Davis Bacon wages required for this project?

Response: Please refer to specification Requirements of Chapter 104, HRS Wages and Hours of Employees on Public Works Law (dated Rev. 04/21)

12. Question: The RFP specifies that eligible bidders must possess a valid State of Hawaii Specialty Contractors C-7 or C-21 license at the time of bidding. As we are manufacturers of our own brand of carpet tile and would like to bid solely for the provision of material, would this requirement apply for vendors that are looking to supply materials only?

Response: All bidders must possess a valid State of Hawaii Specialty Contractors C-7 or C-21 license at the time of bidding. Please contact any flooring installers for bidding materials.

13. Question: Can there be multiple vendors awarded for this RFP?

Response: It will be only one bidder be awarded for this solicitation.

14. Question: In the event that we are eligible to bid and can provide product samples, where would it be acceptable to send the samples for review by the team? Would it be the address for the Hawaii State Procurement Office?

Response: The office will review the product samples is located at this address.
State of Hawaii Department of Transportation Airports
Daniel K. Inouye International Airport Engineering Branch,
400 Rodgers Blvd., Suite 700, Honolulu, HI 96819