**STATE OF HAWAII**
**DEPARTMENT OF TRANSPORTATION**
**AIRPORTS**

**ADDENDUM NO. 4**
**FOR**
**SOUTH RAMP VIDEO MONITORING ACCESS CONTROL (VMAC) SYSTEM**
**AT DANIEL K. INOUYE INTERNATIONAL AIRPORT**
**HONOLULU, OAHU, HAWAII**
**STATE PROJECT NO. AO1095-37**

**March 16, 2026**

This Addendum shall make the following amendment(s) to the Solicitation.

## A. TABLE OF CONTENTS

1. Delete **TABLE OF CONTENTS,** Page Numbers TOC-1 to TOC-2, dated r3/04/26, and replace it with attached **TABLE OF CONTENTS,** Page Numbers TOC-1 to TOC-2, dated r03/16/26.

## B. SPECIFICATIONS

1. Delete **SECTION 01010 DESCRIPTION OF WORK,** page 01010-2 dated r03/04/26, in its entirety and replace it with attached **SECTION 01010 DESCRIPTION OF WORK,** page 01010-2 dated r03/16/26.

2. Delete **SECTION 01300 SUBMITTALS,** dated r09/14/23, in its entirety and replace it with attached **SECTION 01300 SUBMITTALS,** dated r03/16/26.

3. Delete **SECTION 02110 CLEARING AND GRUBBING,** page 02110-2 dated 12/15/25, and replace it with attached **SECTION 02110 CLEARING AND GRUBBING,** page 02110-2, dated r03/16/26.

4. Delete **SECTION 02444 CHAIN-LINK FENCING,** pages 02444-3 and 02444-4 dated 12/15/25, and replace it with attached **SECTION 02444 CHAIN-LINK FENCING,** pages 02444-3 and 02444-4 dated r03/16/26.

5. Add and make a part of the specifications the attached **SECTION 02448 BI-FOLDING GATE SYSTEM,** dated 03/16/26

## C. PLANS

1. Delete **PLANS DRAWING NO. G-001 TITLE SHEET** and replace it with attached **PLANS DRAWING NO. ADD. 4 G-001 TITLE SHEET.**

2. Delete **PLANS DRAWING NO. TY-401 SOUTH RAMP FIBER ONE-LINE DIAGRAM** and replace it with attached **PLANS DRAWING NO. ADD. 4 TY-401 SOUTH RAMP FIBER ONE-LINE DIAGRAM.**

3. Delete **PLANS DRAWING NO. TY-600 FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 1** and replace it with attached **PLANS DRAWING NO. ADD. 4 TY-600 FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 1.**

4. Delete **PLANS DRAWING NO. TY-601 FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 2** and replace it with attached **PLANS DRAWING NO. ADD. 4 TY-601 FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 2.**

5. Delete **PLANS DRAWING NO. TY-602 FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 3** and replace it with attached **PLANS DRAWING NO. ADD. 4 TY-602 FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 3.**

6. Delete **PLANS DRAWING NO. TY-603 FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 4** and replace it with attached **PLANS DRAWING NO. ADD. 4 TY-603 FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 4.**

7. Delete **PLANS DRAWING NO. TY-604 FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 5** and replace it with attached **PLANS DRAWING NO. ADD. 4 TY-604 FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 5.**

The following is provided for information:

**D. <u>RESPONSES TO REQUESTS FOR INFORMATION (RFI'S/QUESTIONS)</u>**

1. The attached **RESPONSES TO REQUESTS FOR INFORMATION** are provided for information.

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

NATHAN KANESHIGE
Engineering Program Manager

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**DIVISION 2 – SITE CONSTRUCTION**



**DIVISION 3 – CONCRETE**



**DIVISION 4 – MASONRY**

(NOT USED)

**DIVISION 5 – METALS**

(NOT USED)

**DIVISION 6 – WOOD AND PLASTICS**

(NOT USED)

**DIVISION 7 – THERMAL AND MOISTURE PROTECTION**

(NOT USED)

**DIVISION 8 – DOORS AND WINDOWS**

(NOT USED)

responsibility shall then be on the Contractor to find space outside of airport property.

1.05 LOCATION OF THE WORK

A. The work to be performed under this contract is located at Daniel K. Inouye International Airport, Honolulu, Hawaii.

B. Conditions:

1. The Main Terminal and airport roadways shall remain operational at all times. Any damages to existing areas caused by the Contractor shall be repaired by the Contractor at no cost to the State.

2. Upon execution of the contract, the Contractor, at their cost, shall obtain all permits required for this project.

1.06 HOURS OF WORK


A. Work can be performed at the construction site at any time over a 24-hour period without considerable disruption to airport operations or other adjacent tenants. Noise, including installation and demolition work within tenant areas, shall be coordinated with the respective tenants and occur from 10:00 p.m. to 6:30 a.m., and water proofing shall be done from 1:30 p.m. to 10:00 p.m. Contractor shall coordinate other work activities with the Engineer for the hours between 7:00 a.m. to 3:30 p.m. Submit a proposed construction schedule to Engineer for review and approval within 30 calendar days after execution of the contract. The Contractor shall coordinate their schedule with the Engineer if rescheduling of work or intermittent work is required, such work shall be performed at no extra cost to the State. If the Contractor elects to work overtime, compensation for State employees and for construction management consultant as authorized by the State shall be the Contractor's obligation to pay in accordance with Section 7.6 – “Overtime and Night Payment for State Inspection Services” of the General Provisions of Construction Projects (2016).

B. Contractor shall clean work areas at the end of each working shift. Rubbish, loose materials, etc. shall be disposed of daily. **Tools and equipment shall not be left unattended during work hours.** This includes tools left in unlocked vehicles, in the bed of pickup trucks, or in unlocked job sites. TSA citations may result in fines in excess of $13,000 per violation and the confiscation of AOA badges. Materials shall be safely secured and stored in an area designated by the Airport Manager.

C. Dependent on the type and location of nighttime work activity, the Contractor may be required to either alter the work hours and work activities, or suspend work during the Seabird Fallout Season, roughly September 15 – December 15, annually. Schedule adjustments during the Seabird Fallout Season dates shall not incur additional costs to the State of Hawaii.

# SECTION 01300 - SUBMITTALS

## 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.

### 1.02 PROJECT DOCUMENTATION

The contract will not be considered complete until required submittals have been received and accepted by the State.

At the discretion of the Project Manager, the number of copies to be submitted may differ from that specified in this Section.

### 1.03 DETAILED CONSTRUCTION SCHEDULE

A. The Contractor shall submit a detailed construction schedule to the Engineer for review, no later than 30 calendar days after execution of the contract. The detailed construction schedule shall be based on a detailed critical path analysis of construction activities and sequence of operations needed for the orderly performance and completion of any separable parts of any work and all work in accordance with the contract. The schedule shall be Critical Path Method (CPM) type in the form of an arrow diagram and activity listing or comprehensive bar graph. The network diagram shall show in detail and in orderly sequence all activities on a time scale, their descriptions, durations and dependencies, necessary and required to complete all work and any separable parts thereof. The schedule shall show in detail the following information for each activity:

1. Identification by code numbers and description;

2. Duration;

3. Craft and Equipment;

4. Earliest start and finish dates;

5. Latest start and finish dates;

6. Total and free float time; and

7. Highlighted Critical Path

B. The construction schedule shall be complete in all respects, covering in addition to activities at the site of work, off-site activities such as design, fabrication, and procurement of equipment; the scheduled delivery dates of such equipment; submittal and approval of shop drawings and samples; ordering and delivery of

materials; inspections; and testing. The schedule shall also include a manpower forecast by crafts. The detailed construction schedule shall be supplemented by a three-week schedule prepared by the Contractor and submitted to the Engineer on a weekly basis. The Contractor shall promptly inform the Engineer of any proposed change in the schedule and shall furnish the Engineer with a revised schedule and cash flow diagram within 15 calendar days after approval of such change.

The schedule shall be kept up to date, taking into account the actual progress of work and shall be updated, if necessary, every 30 calendar days. The updated schedule shall, as determined by the Engineer, be sufficient to meet the requirements for the completion of the separable parts of work and the entire projects as set forth in the contract.

Upon commencing work, the Contractor shall submit at the start of each week to the Engineer for review, a detailed three (3) week construction schedule.

C. If at any time during the progress of the Work, the Contractor's actual progress appears to the Engineer to be inadequate to meet the requirements of the contract, the Engineer will notify the Contractor of such imminent or actual noncompliance with the contract. The Contractor shall thereupon take such steps as may be necessary to improve his progress and the Engineer may require an increase in the labor force, the number of shifts, and/or overtime operations, days of work and/or the amount of construction plants all without additional cost to the State. Neither such notice by the Engineer nor the Engineer's failure to issue such notice shall relieve the Contractor from his obligation to achieve the quality of work and rate of progress required by the contract. Failure of the Contractor to comply with instructions of the Engineer under these provisions may be grounds for determination by the State that the Contractor is not prosecuting work with such diligence as will assure completion within the times specified. Upon such determination, the State may employ labor and equipment and charge the Contractor for the cost thereof, including depreciation for plant and equipment or may terminate the Contractor's right to proceed with the performance of the contract, or any separable part thereof, in accordance with the applicable provisions of the contract.

D. The Contractor shall submit to the Engineer one (1) reproducible and three (3) prints of the detailed construction schedule and of each revised schedule submitted thereafter.

1.04 CONSTRUCTION PHASING PLAN

A. The Contractor shall submit a Construction Phasing Plan to the Engineer for review, no later than 30 calendar days after execution of the contract. The Construction Phasing Plan shall be developed in alignment with the Contractor’s detailed construction schedule, in coordination with the South Ramp tenant operations, and also incorporate the Security Plan requirements. The phasing plan shall clearly identify the location, scope of work, and duration associated with each of the Contractor’s proposed phases.

The Construction Phasing Plan shall be kept up to date, taking into account the actual progress of work and shall be updated, if necessary, every 30 calendar days.

1.05 SCHEDULE OF VALUES

A. The Contractor shall submit the Schedule of Values to the Engineer for review, no later than 30 calendar days after execution of the Contract.

B. Format and Content: Use Proposal Schedule and/or the Project Specifications table of contents as a guide to establish the format for the Schedule of Values. Provide at least one line item for each Specification Section. Provide a breakdown of the contract sum in sufficient detail to facilitate continued evaluation of Applications for Payment and progress reports. Break principle work or subcontract amounts down into several smaller identifiable items of work.

C. Identification: Include the following Project identification on the schedule of values:

1. Project name and location

2. Project number

3. Contractor's name and address

4. Contract No.

5. Date of submittal

D. Arrange the Schedule of Values in tabular form with separate columns to indicate the following items listed:

1. Related Specification Section or Division

2. Description of work

3. Dollar value and percent complete

E. Correlate line items in the Schedule of Values with other required administrative schedules and forms including;

1. Construction Schedule

2. Application for Payment forms including continuation sheets

3. List of Subcontractors

4. List of principle suppliers and fabricators

5. Schedule of submittals

F. Round amount to nearest whole dollar; the total shall equal the contract sum.

G. Provide a separate line item in the Schedule of Values for each part of the work where Applications for Payment may include materials or equipment, purchased, fabricated or stored, but not yet installed.

H. Schedule Updating: Update and resubmit the Schedule of Values prior to the next Applications for Payment or when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.06 OTHER SUBMITTALS REQUIRED BEFORE CONSTRUCTION

The Contractor shall submit the following items prior to or at the pre-construction meeting or unless otherwise noted:

A. Name, residence phone number, addresses and scope of authority for the following persons:

1. Superintendent

2. Contractor's authorized representative to sign documents

3. Two (2) additional persons who can be contacted during non-working hours for emergencies.

4. Field Office location and phone numbers (cellular, pager, fax, etc.)

B. Name of Safety Officer

C. Notice of Materials to be furnished

D. Three (3) copies each of Certificates of Insurance. The State of Hawaii shall be named as additionally insured. The project number and project title shall be referenced in the Description of Operations/Locations/Vehicles. If canceled, 30 days written notice to the State of Hawaii must be given. If certificates are not correct, work cannot proceed.

E. Three (3) copies each Insurance and Tax Rates.

F. List of apprentices who will be working on the project supported with the Statement of Apprenticeship or copy of the Apprenticeship Agreements registered with the State Board, for each apprentice.

G. List of equipment to be used on the job. Designate maximum working height and capacity of equipment involved and their respective rental rates.

H. Three (3) copies of an expenditure (cash flow) plan consisting of an anticipated work completion graph plotting contract time and gross payment anticipated.

1.07 SHOP DRAWINGS, SAMPLES, CATALOG CUTS, AND CERTIFICATES

A. Submittal Schedule: Prior to the submission of any shop drawings or submittals, the Contractor shall submit to the Engineer for review, a submittal schedule. The schedule shall identify the subject matter of each submittal, the corresponding specification section number and the proposed date of submission. During the progress of work, the Contractor shall revise and resubmit the submittal schedule as directed by the Engineer.

B. The Contractor shall submit for review to the Engineer, or to a representative designated by the Engineer, six (6) copies of all shop drawings, samples, catalog cuts and certificates. Three (3) copies will be returned to the Contractor with information of review action. The Contractor shall submit additional quantities for their subcontractor's or supplier's use. Each shop drawing, certificate of compliance, sample, and equipment list shall be checked and certified correct by the Contractor and shall be identified with the applicable information specified hereinafter under "Submittal Identification."

Items are to be reviewed prior to commencing fabrication or delivery of material to the job site.

C. Each copy of the drawings, certificates, catalog cuts, and lists reviewed by the Engineer will be stamped "REVIEW ACTION" with the appropriate action noted therein. The review of the Engineer shall not be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory. Acceptance of such drawings will not relieve the Contractor the responsibility of conforming to the contract drawings and specifications or for any error or omission which may exist as the Contractor shall be responsible for the dimensions and design of adequate connections, details, and satisfactory construction of all work. Each shop drawing submitted for review shall have, in the lower right-hand corner just above title, a white space 4" x 4" in which the Engineer can place the stamp and indicate action taken. The Contractor shall also inform their subcontractors to provide this space in their preparation of shop drawings.

1.08 MAINTENANCE DATA AND OPERATING INSTRUCTIONS

Six (6) copies of maintenance data and operating instructions shall be submitted by the Contractor at the conclusion of the equipment installation. The manuals shall be assembled in one or more binders, each with a title page, typed table of contents, and heavy section dividers with numbered plastic index tabs. The binders shall be a minimum of 2 inches thick, three ring, "D slant" with hard covers. All data shall be punched for binding and composition and printing shall be arranged so that punching does not obliterate any data. The project number, project title, and Airport shall be inserted in the front and backbone binder cover.

The Contractor shall submit a draft to the Engineer for review prior to the submission of the final copies.

The manual shall include separate sections describing each equipment. Provide a general description of the equipment, instructions for operation, maintenance, recommended inspection points and periods for inspection, testing, adjustments, calibration procedures with illustrations, wiring diagrams, trouble shooting situations and solutions, and repair methods in a practical, complete, and comprehensive manner.

For each equipment, include information on detailed parts listings (part numbers and costs) with the manufacturer's name, address, contact person, e-mail address and phone/fax numbers. Provide the contact name, address, e-mail address and phone/fax numbers of the distributor in the State of Hawaii for each equipment.

Include a separate section on warranty information on all products and equipment. Provide this information in a tabular format with a listing on all products and equipments with warranty start and completion dates for each item.

Include separate sections on all approved submittals, test reports, certifications, etc.

All information shall be arranged in a logical, orderly sequence. Manuals submitted by the manufacturer will not be accepted.

1.09 TEST REPORTS

Six copies of test reports for any material used in this Contract shall be submitted when specified or required by the Engineer.

1.10 SUBMITTAL IDENTIFICATION

A. To avoid rejection and to clarify each submittal, the General Contractor shall have a rubber stamp made up in the following format:

B. _____
General Contractor's Name

PROJECT TITLE: _____
AIRPORT: _____
STATE PROJECT NO: _____
AIP PROJECT NO: _____
THIS SUBMITTAL HAS BEEN CHECKED BY THIS GENERAL CONTRACTOR AND IS CERTIFIED CORRECT AND IN COMPLIANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

ITEM NO. _____

SUBMITTAL NUMBER _____
DATE RECEIVED _____
SPECIFICATION SECTION # _____
SPECIFICATION PARAGRAPH # _____
DRAWING NUMBER _____
SUBCONTRACTOR NAME _____
SUPPLIER NAME _____
MANUFACTURER NAME _____

CERTIFIED BY _____(Contractor's Signature, Date)_____
(Contractor's Name and Title)

C. This stamp "filled in" should appear on each reproducible shop drawing, on the cover sheet of copies of test and mill reports, certificates of compliance, catalog cuts, brochures, etc. The stamp should be placed on a heavy stock paper merchandise (approximately 3" x 6") and one tag tied to each sample submitted for approval. The tag on the samples should state what the sample is, so that if the tag is accidentally separated from the sample, they can be matched up again. The back of this tag will be used by the Engineer for receipt, approval, and log stamp for any comments that relates to the sample.

D. Submission Number: Each submission is to be sequentially numbered in the space provided in the Contractor's stamp. Correspondence and transmittal will refer to this number.

E. The Contractor shall ensure that all submittals, including shop drawings, are complete and in conformance to the requirements of the Contract specifications prior to submission to the State for review and acceptance. Incomplete submittals will not be processed by the State and returned to the Contractor for correction. Any cost impacts and delays in the Project schedule as a result of incomplete submittals shall be the responsibility of the Contractor.

1.11 AS-BUILT DRAWINGS

As-built drawings shall conform to the requirements of Section 5.8 - "Coordination Between the Contractor and the State" of the General Provisions for Construction Projects (2016), and the following requirements:

The Contractor shall maintain on the job site a set of full-size contract drawings, marking them in red to show all variations between the construction actually provided and that indicated or specified in the contract documents, including buried or concealed construction. (Section 5.8 (a) Drawings and Special Provisions of the General Provisions for Construction Projects.)

Where a choice of material or method is permitted herein or where variations in scope of character of work from that of the original contract or authorized, the drawings shall be marked to define the construction actually provided. Where equipment installation is involved, the size, manufacturer's name, model number, power input or output characteristics as applicable shall be shown on the as-built drawings.

The representation of such changes shall conform to standard drafting practice and shall include such supplementary notes, legends, and details as necessary to clearly portray the as-built construction.

The drawings shall be maintained and updated on a daily basis. The Contractor shall stamp, sign, and date each sheet with the following stamp:

AS-BUILT DRAWINGS/SPECIFICATIONS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.

_____
CONTRACTOR'S NAME

_____
Signature Date

Monthly and final payments to the Contractor shall be subject to prior approval of the drawings. On completion of the work, both sets of marked-up drawings shall be delivered to the Engineer and shall be subject to approval before acceptance.

## 1.12 GUARANTEES

Guarantee periods shall start at time of acceptance in writing by the State.

All guarantees and warranties shall be made out to the "State of Hawaii." Supplier and subcontractor guarantees shall be co-signed by the Contractor.

The Contractor is solely responsible for coincidence or non-coincidence of factory warranties or equipment guarantees, and the Contractor's own warranties and guarantees as required by the contract. The Contractor is solely responsible for scheduling and coordinating the installation of equipment and materials so as to take

maximum advantage of factory warranties.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

PART 4 - MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

Work under this section will not be measured nor paid for separately but shall be considered incidental to and included in the bid prices for the various items of work in this project.

END OF SECTION

shall not create an unsightly or objectionable view. When the Contractor is required to locate a disposal area outside the airport property limits, the Contractor shall do so at his/her own expense. Blasting shall not be allowed.

Whenever a utility pole, pipeline, conduit, sewer, roadway, or other utility is encountered and must be removed or relocated, the Contractor shall notify the utility owner to secure prompt action.

3.02 CLEARING

The Contractor shall clear the indicated area of all objectionable materials. Trees unavoidably falling outside the specified limits must be cut up, removed, and disposed of in a satisfactory manner. In order to minimize damage to trees that are to be left standing, trees shall be felled toward the center of area being cleared. The Contractor shall preserve (water and maintain) and protect from injury all trees not to be removed. The grubbing of stumps and roots will not be required.

Fences shall be removed and disposed of as shown on the plans or as directed by the Engineer. 


3.03 CLEARING AND GRUBBING

In areas designated to be cleared and grubbed, all stumps, roots, buried logs, brush, grass, and other unsatisfactory materials shall be removed.

Any buildings and miscellaneous structures that are shown on the plans to be removed shall be demolished or removed, and all materials shall be disposed of by removal from the site. The remaining or existing foundations and like structures shall be destroyed by breaking down the materials of the structures are built to a depth at least 2 feet below the existing surrounding ground. Any broken concrete, blocks, or other objectionable material that cannot be used in backfill shall be removed and disposed of at the Contractor's expense. The holes or openings shall be backfilled with acceptable material and properly compacted.

All holes under embankment areas remaining after the grubbing operation shall have the sides of the holes flattened to facilitate filing with acceptable material and compacting as required in Section 02210 - EXCAVATION, SUBGRADE, AND EMBANKMENT. The same procedure shall be applied to all holes remaining after grubbing in excavation areas where the depth of holes exceeds the depth of the proposed excavation.

2.07 MISCELLANEOUS FITTINGS AND HARDWARE

Miscellaneous steel fittings and hardware for use with zinc coated steel fabric shall be of commercial grade steel or better quality, wrought or cast as appropriate to the article, and sufficient in strength to provide a balanced design when used in conjunction with fabric posts, and wires of the quality specified herein. All steel fittings and hardware shall be protected with, a zinc coating applied in conformance with ASTM A153. Barbed wire support arms shall withstand a load of 250 pounds applied vertically to the outermost end of the arm.

2.08 CONCRETE

Concrete shall be Class "B" with a minimum 28 day compressive strength of 2500 psi.

High-strength, fast setting concrete may be used subject to approval by the Engineer. 4

2.10 MARKING

Each roll of fabric shall carry a tag showing the kind of base metal (steel, aluminum, or aluminum alloy number), kind of coating, the gauge of the wire, the length of fencing in the roll, and the name of the manufacturer. Posts, wire, and other fittings shall be identified as to manufacturer, kind of base metal (steel, aluminum, or aluminum alloy number), and kind of coating.

PART 3 - EXECUTION

3.01 CLEARING FENCE LINE

All trees, brush, stumps, logs, and other debris which would interfere with the proper construction of the fence in the required location shall be removed a minimum width of 5 feet on each side of the fence centerline before starting fencing operations. The cost of removing and disposing of the material shall not constitute a pay item and shall be considered incidental to fence construction.

3.02 INSTALLING POSTS

All posts shall be set in concrete at the required dimension and depth and at the spacing shown on the plans.

The concrete shall be thoroughly compacted around the posts by tamping or vibrating and shall have a smooth finish slightly higher than the ground and sloped to drain away from the posts. All posts shall be set plumb and to the required grade and alignment. No materials shall be installed on the posts, nor shall the posts be disturbed in any manner within seven (7) days after the individual post footing is completed.

If high-strength, fast-setting concrete is used, no materials shall be installed on the posts, nor shall the posts be disturbed in any manner within twenty-four (24) hours after the individual post footing is completed. 


Should rock be encountered at a depth less than the planned footing depth, a hole 2 inches larger than the greatest dimension of the posts shall be drilled to a depth of 12 inches. After the posts are set, the remainder of the drilled hole shall be filled with grout, composed of one part Portland cement and two parts mortar sand. Any remaining space above the rock shall be filled with concrete in the manner described above.

In lieu of drilling, the rock may be excavated to the required footing depth. No extra compensation shall be made for rock excavation.

3.03 INSTALLING TOP RAILS

The top rail shall be continuous and shall pass through the post tops. The coupling used to join the top rail lengths shall allow for expansion.

3.04 INSTALLING BRACES

Horizontal brace rails, with diagonal truss rods and turnbuckles, shall be installed at all corner, pull, and terminal posts.

3.05 INSTALLING FABRIC

The wire fabric shall be firmly attached to the posts and braced in the manner shown on the plans. All wire shall be stretched taut and shall be installed to the required elevations. The fence shall generally follow the contour of the ground, with the bottom of the fence fabric no less than 1 inch or more than 4 inches from the ground surface. Grading shall be performed where necessary to provide a neat appearance.

At locations of small natural swales or drainage ditches and where it is not practical to have the fence conform to the general contour of the ground surface, longer posts may be used and multiple strands of barbed wire stretched thereon to span the opening below the fence. The vertical clearance between strands of barbed wire shall be 6 inches or less.

3.06 ELECTRICAL GROUNDS

Electrical grounds shall be constructed where a power line passes over the fence at 500 foot intervals. The ground shall be installed directly below the point of crossing. The ground shall be accomplished with a copper clad rod 8 feet long and a minimum of 5/8 inch in diameter driven vertically until the top is 6 inches below the ground surface. A No. 6 solid copper conductor shall be clamped to the rod and to the fence in such a manner that each element of the fence is grounded. Installation of ground rods shall not constitute a pay item and shall be considered incidental to fence construction.

# SECTION 02448 – BI-FOLDING GATE SYSTEM

## PART 1 - GENERAL

### 1.01 SUMMARY

This section includes materials, fabrication, and installation of a Bi-Folding Gate system complete with gate operators, control enclosure, safety devices, locking mechanisms, and vehicle detection loop system.

### 1.02 DESCRIPTION OF WORK

This section is for furnishing materials, equipment, and appliances necessary for the completion of the Bi-Folding Gate System in accordance with the specification. Bi-Folding Gate System shall be Wallace Perimeter Security FoldSmart Bi Folding Speedgate, or approved equal.

### 1.03 SUBMITTALS

A. Shop Drawings: Show all components, details of gate system, including major components, construction details, gate height, and post spacing dimensions.

Submit drawings showing connections to adjacent construction, range of travel, and all electrical and mechanical connections to the gate operators. Drawings shall also show the size and location of the concrete mounting pad of the gate operators. Underground electrical runs shall be shown on shop drawings.

B. Certificate: Certification from the manufacturer attesting that materials and equipment to be furnished for this project comply with the requirements of this specification and of the reference publications. Certification shall confirm compliance with ASTM F 2200 and AWS D1.2

C. Installation Instructions: Provide installation instructions for the gate operators.

## PART 2 - PRODUCTS

### 2.01 GATE ASSEMBLY

A. Gate dimensions shall be specified in the project drawings

B. The Bi-Folding Gate System shall be designed for a 24’-0” (7.32m) clear opening and 8’-0” (2.44m) height, excluding barbed wire.

C. Frame members: 3.0” x 2.0” x 0.13” HSS steel, welded per AWS D1.1.

D. Infill panels: Rampart 280 welded wire mesh, factory-welded at all intersections.

E. Vertical reinforcement: 3.0”x2.0”x0.13” HSS center vertical per panel.

F. Barbed wire: Three (3) strands mounted above gate frame.

G. Finish: Hot-Dip galvanized after fabrication per ASTM A123

2.02 GATE OPERATORS AND CONTROLS

The gate system shall have a dual electric gate operators with manual release point and integral limit switches.

Electrical controller housed in NEMA 3R enclosure, 24”x20”x8”, mounted within 10ft of operator.

Features include the following:

A. Photoeye safety sensors (each side of gate)
B. Manual release key switch
C. Amber low-profile strobe light
D. Provision for sensing edges per UL 325

2.03 GATE COLUMNS AND FOUNDATIONS

Gate support columns: 8.0”x8.0”x0.25” HSS steel, welded to 14.0”x14.0”x0.75” base plates.

Anchor bolts: Four (4) ¾” [19mm] Hilti HAS 5.8 x14” [356mm] with Hilti HY-200 adhesive, or approved equal.

Foundation:

A. Reinforced concrete minimum 36” (914mm) deep
B. Minimum depths 96” (2438mm)
C. Reinforcing steel: #4 re- zbars @ 12” O.C. with top and bottom rings
D. Conduits: Provide incoming power and access control conduits routed to primary column and extended to secondary column.

2.04 GATE LOCK

Electromechanical lock shall be integrated with the operator system. Lock shall automatically engage when gate is fully closed and released during operation. The gate system will also include keyed manual release and tamper-resistant housing constructed of galvanized steel or stainless steel.

2.05 VEHICLE DETECTION LOOP SYSTEM

A. Provide two (2) inductive vehicle detection loops embedded in concrete

pavement, one each on approach and departure sides.

B. Loops constructed with shielded copper wire, connected to vehicle detection relay modules within the control enclosure.

C. Loop sealant: Weather-resistant polyurethane or approved equal.

D. Verify loop detection sensitivity and proper operation during system commissioning.

## PART 3 – EXECUTION

### 3.01 INSTALLATION

Install gate and operators assemblies in accordance with manufacturer's instructions and approved shop drawings. Ensure that gate panels are aligned for smooth level, and uniform folding operation. Gate operators, controls, and safety devices shall be properly mounted and aligned. Verify conduit routing, wire terminations, and control connections are properly secured. Install and test gate lock mechanism and ensure manual release functions properly. Install vehicle detection loops per plan layout: test loop response before final pavement seal.

### 3.02 FIELD QUALITY CONTROL

Test complete gate system for smooth operation, safety device performance and lock engagement. Confirm photoeyes and detection loops prevent unintended closure. Verify automatic operation and manual override under power loss conditions.

### 3.03 ANTICRAWL PROTECTION

A. If the site has an elevation change greater than 6 inches across the gate's travel path, the gate manufacturer shall provide all necessary modifications and/or accessory options.

B. Adjustments shall minimize gap below the gate to maintain security.

C. A maximum clearance of 6 inches (150 mm) shall be maintained between the lowest horizontal gate member and the finished drive surface.

D. Where site conditions result in an upward elevation change within the swing path of the gate leaf, the gate manufacturer shall provide a solution that allows the gate to move freely without obstruction.

E. The system shall ensure that, when the gate is in the closed position, a secure perimeter is maintained without excessive gaps.

F. All modifications or accessories shall be designed and installed to prevent unauthorized entry by crawling under the gate.

G. Solutions shall not compromise the structural integrity, operability, or safety of the gate system.

## PART 4 - MEASUREMENT AND PAYMENT

### 4.01 BASIS OF MEASUREMENT AND PAYMENT

Work under this section will not be measured nor paid for separately, but shall be considered incidental to and included in the prices bid for the various items of work in this project.

END OF SECTION

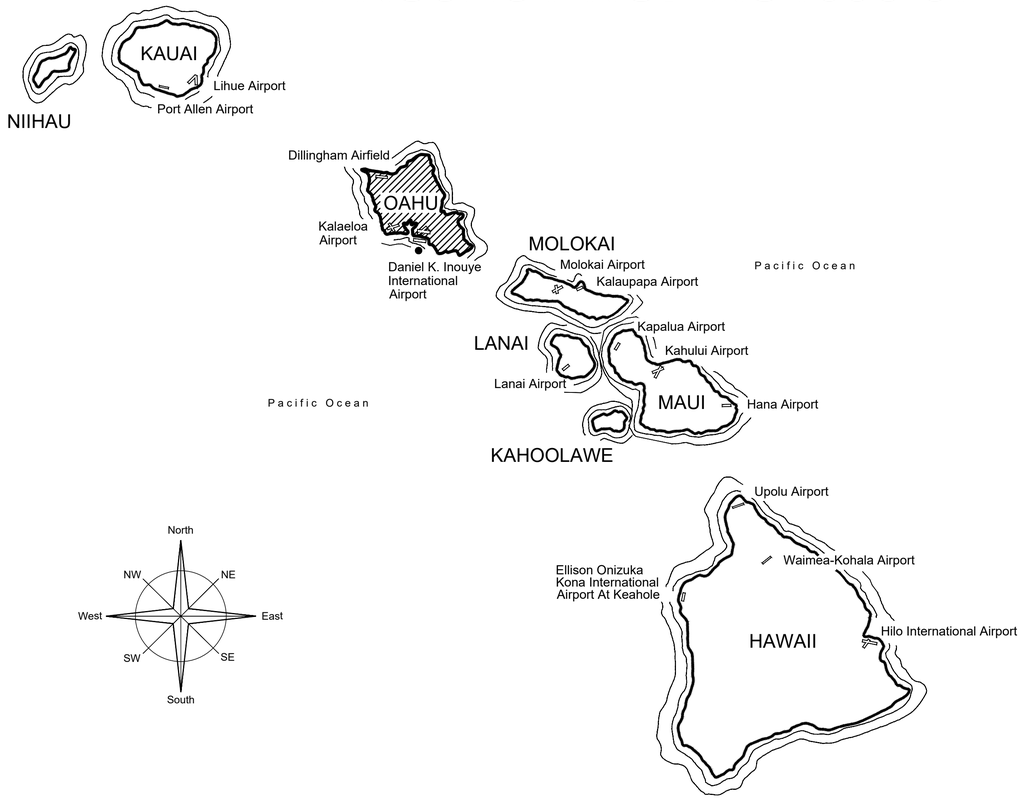
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

PLANS FOR

# SOUTH RAMP VIDEO MONITORING ACCESS CONTROL (VMAC) SYSTEM

**AT**

## DANIEL K. INOUYE INTERNATIONAL AIRPORT
## HONOLULU, OAHU, HAWAII
## PROJECT NO. AO1095-37




**PROJECT TEAM**


CIVIL:
WSP USA Inc.
1001 BISHOP STREET
SUITE 2400
HONOLULU, HI 96813
(808) 566-2252

DARIN N. CHINEN
CIVIL ENGINEER

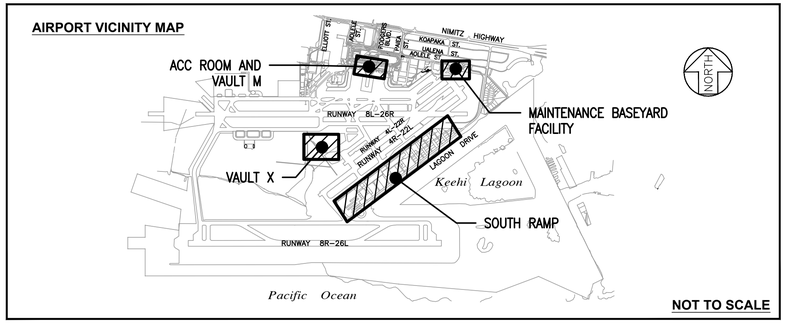
ELECTRICAL:
WSP USA Inc.
1001 BISHOP STREET
SUITE 2400
HONOLULU, HI 96813
(808) 566-2289

JAKE Y. SHIN
ELECTRICAL ENGINEER

SECURITY AND COMMS:
WSP USA Inc.
1000 ENTERPRISE WAY
SUITE 190
ROSEVILLE, CA 95678
(212) 465-5326

JON SPITERI
ELECTRICAL ENGINEER


**AIRPORT VICINITY MAP**




NOT TO SCALE

DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

APPROVED:

DIRECTOR OF TRANSPORTATION — DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

DARIN N. CHINEN
LICENSED PROFESSIONAL ENGINEER
No. 7977-C
HAWAII U.S.A.

04/30/2026
Licensed Expiration Date

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|---|---|---|
| 4 | 3/6/2026 | ADDENDUM #4 |
| 3 | 3/2/2026 | ADDENDUM #3 |
| 1 | 2/09/2026 | ADDENDUM #1 |

**CONSTRUCTION DOCUMENTS**
December 15, 2025
DATE

PROJECT TITLE :

**SOUTH RAMP VIDEO MONITORING ACCESS CONTROL (VMAC) SYSTEM**
AT
DANIEL K. INOUYE INTERNATIONAL AIRPORT
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**AO1095-37**

SHEET TITLE:

**TITLE SHEET**

DATE : **12/15/2026**

SHEET : 1 OF 238

DWG. NO. **G-001**

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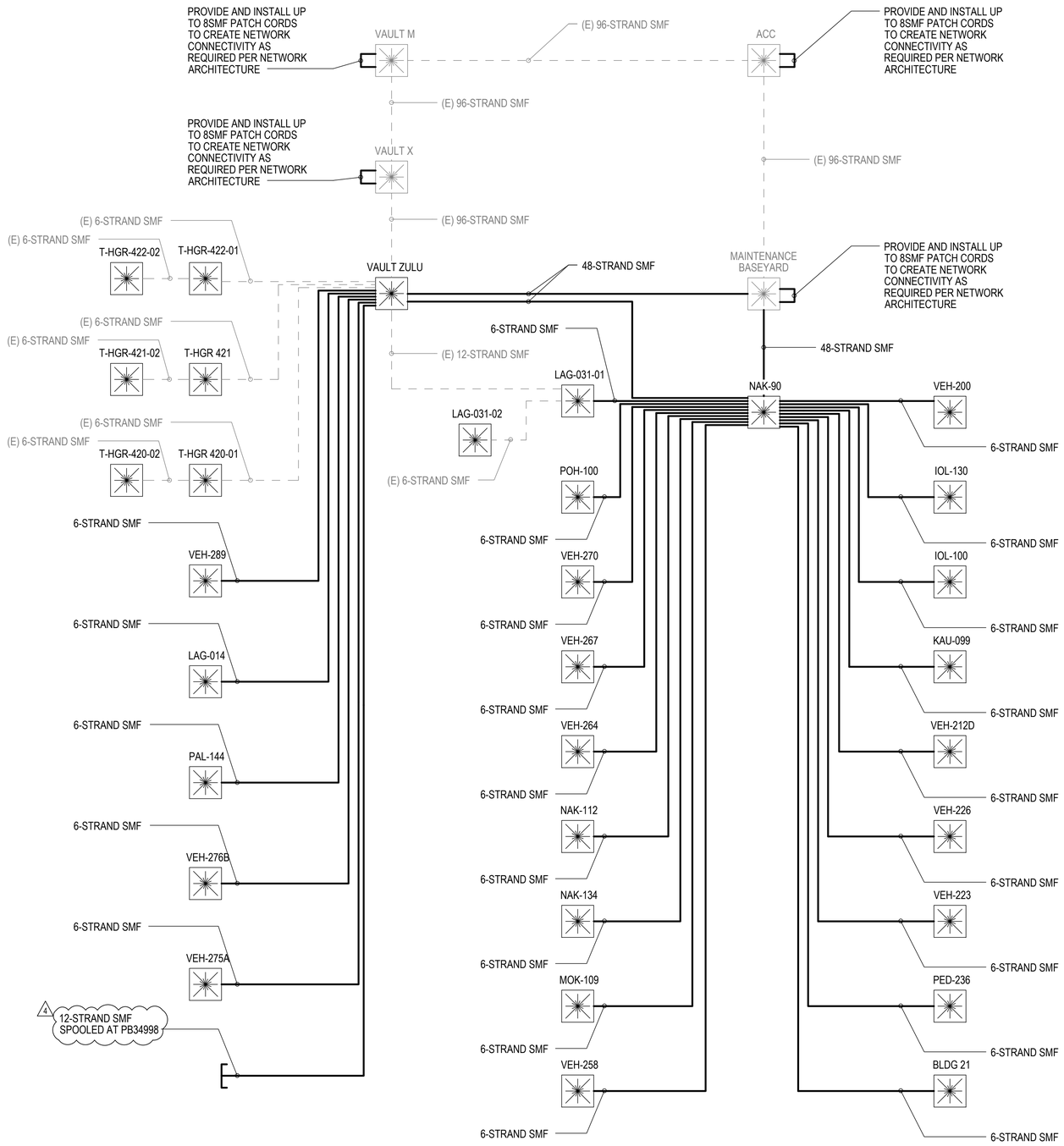


SOUTH RAMP FIBER ONE-LINE DIAGRAM

| GENERAL NOTES |
|---|
| 1. THIS DRAWING IDENTIFIES THE COMMUNICATION CABLES TO BE PROVIDED BY THE CONTRACTOR BETWEEN SCC LOCATIONS. ALL WORK NEW UNLESS OTHERWISE NOTED. |



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

JON SPITERI
LICENSED PROFESSIONAL ENGINEER
No. 18999-E
HAWAII, U.S.A.

04/30/2026
Licensed Expiration Date

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**CONSTRUCTION DOCUMENTS**
December 15, 2025
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PROJECT TITLE :

**SOUTH RAMP VIDEO MONITORING ACCESS CONTROL (VMAC) SYSTEM**
AT
DANIEL K. INOUYE INTERNATIONAL AIRPORT
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**AO1095-37**

SHEET TITLE:

**SOUTH RAMP FIBER ONE-LINE DIAGRAM**

| DATE : | DWG. NO. |
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| 12/15/2025 | TY-401 |
| SHEET : | |
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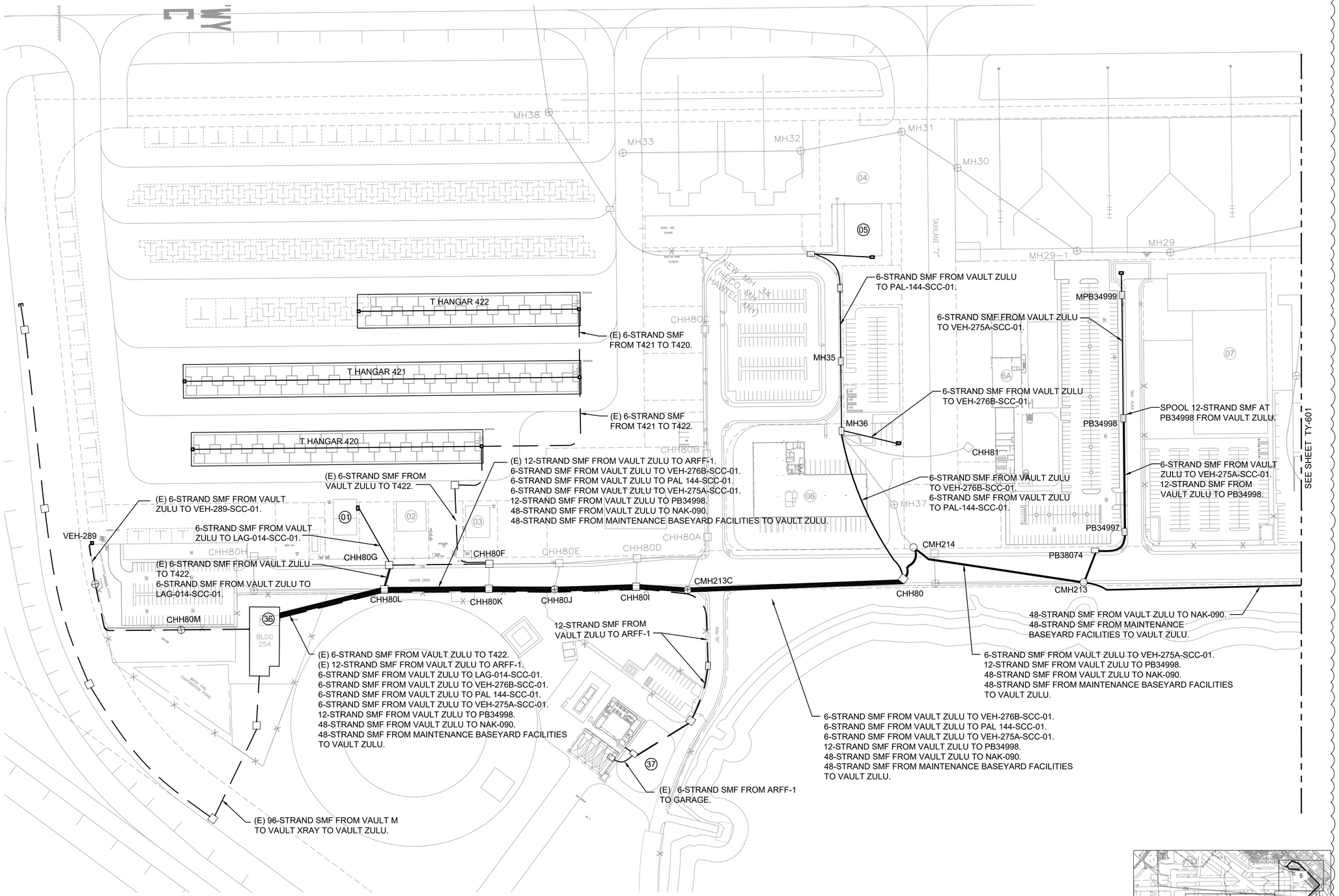


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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

JON SPITERI
LICENSED PROFESSIONAL ENGINEER
No. 18999-E
HAWAII U.S.A.

6/30/2026
Licensed Expiration Date

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December 15, 2025
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PROJECT TITLE :

**SOUTH RAMP VIDEO MONITORING ACCESS CONTROL (VMAC) SYSTEM**
AT
**DANIEL K. INOUYE INTERNATIONAL AIRPORT**
**HONOLULU, OAHU, HAWAII**

PROJECT NO.:

**AO1095-37**

SHEET TITLE:

**FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 1**

| DATE : | DWG. NO. |
|---|---|
| 12/15/2025 | TY-600 |
| SHEET : | |
| 234 OF 238 | |

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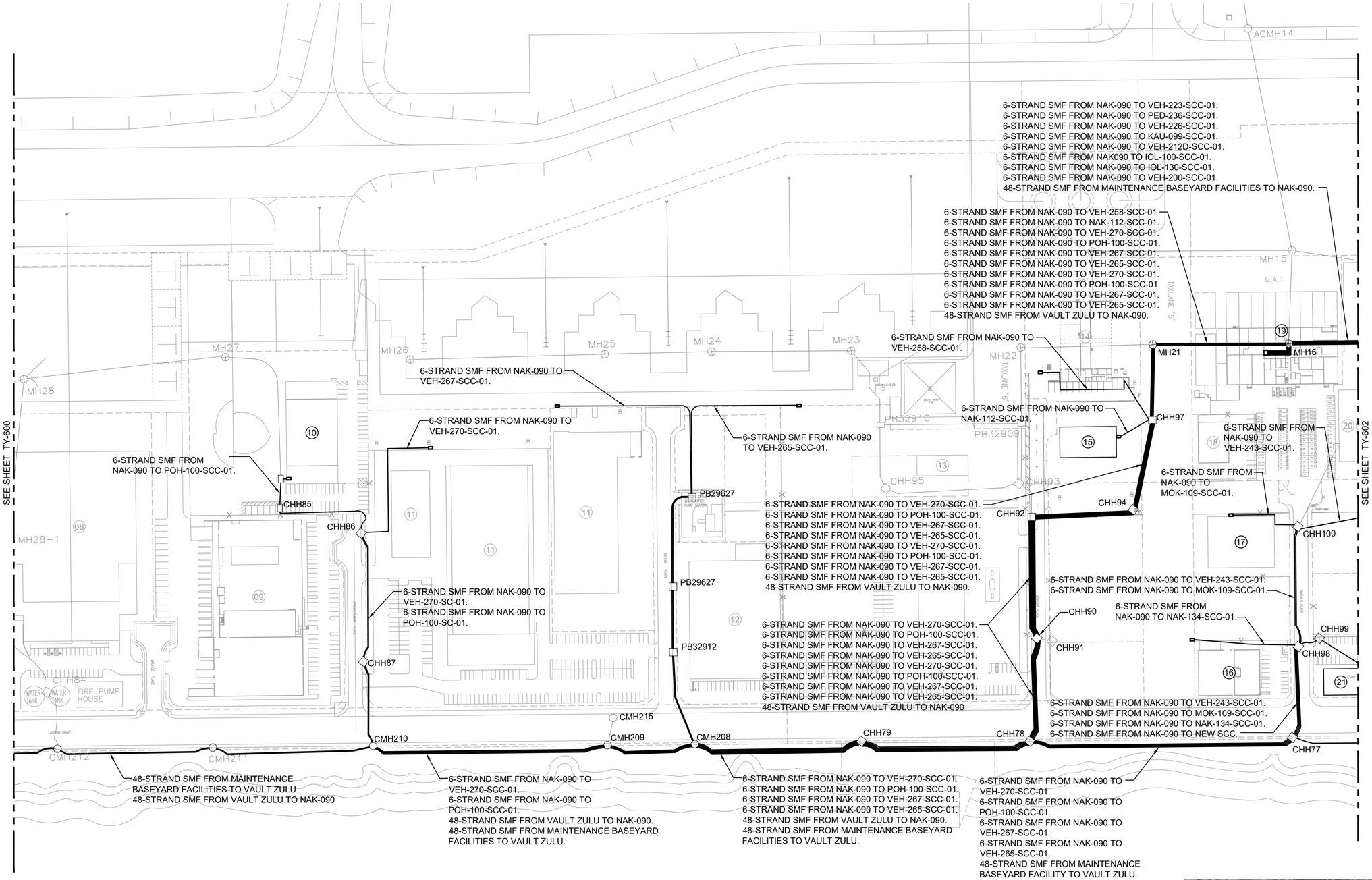
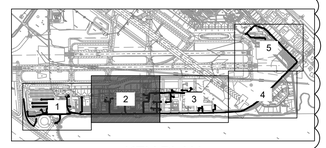



PROJECT NORTH

## PARTIAL SITE PLAN - 2

0 50' 100' 200'

1" = 100'




KEY PLAN

N.T.S.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

JON SPITERI
LICENSED PROFESSIONAL ENGINEER
No. 18999-E
HAWAII, U.S.A.

6/30/2026
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**CONSTRUCTION DOCUMENTS**
December 15, 2025
DATE

PROJECT TITLE :

**SOUTH RAMP VIDEO MONITORING ACCESS CONTROL (VMAC) SYSTEM**
AT
DANIEL K. INOUYE INTERNATIONAL AIRPORT
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**AO1095-37**

SHEET TITLE:

**FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 2**

DATE :
12/15/2025
SHEET :
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DWG. NO.
TY-601

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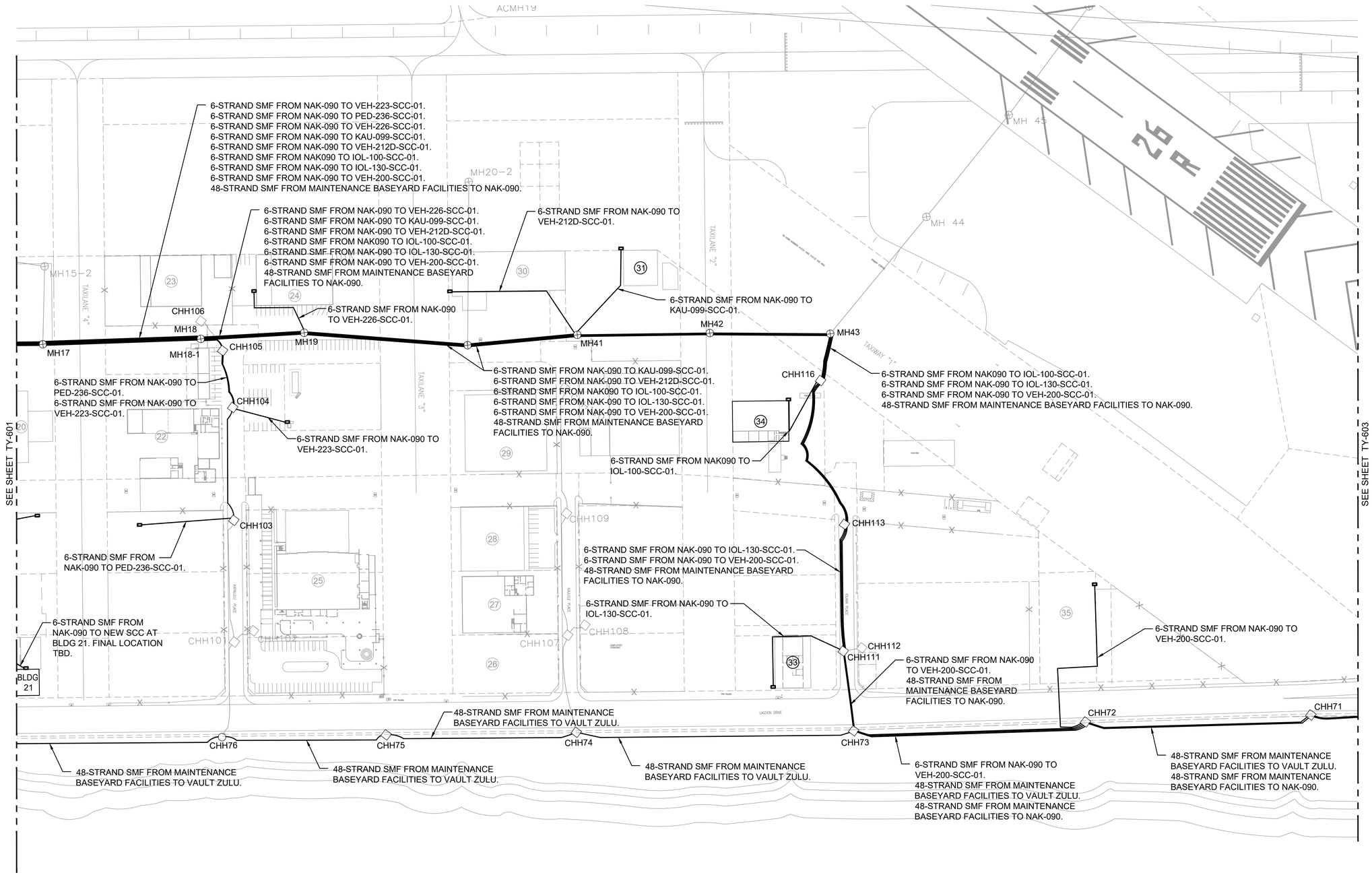
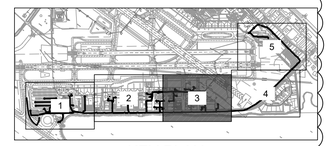



PROJECT NORTH

## PARTIAL SITE PLAN - 3

0 50' 100' 200'

1" = 100'




KEY PLAN

N.T.S.



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JON SPITERI
LICENSED PROFESSIONAL ENGINEER
No. 18999-E
HAWAII U.S.A.

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|---|---|---|
| 4 | 3/6/2026 | ADDENDUM #4 |

**CONSTRUCTION DOCUMENTS**
December 15, 2025
DATE

PROJECT TITLE :

**SOUTH RAMP VIDEO MONITORING ACCESS CONTROL (VMAC) SYSTEM**
AT
**DANIEL K. INOUYE INTERNATIONAL AIRPORT**
**HONOLULU, OAHU, HAWAII**

PROJECT NO.:

**AO1095-37**

SHEET TITLE:

**FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 3**

| DATE : | DWG. NO. |
|---|---|
| 12/15/2025 | TY-602 |
| SHEET : | |
| 236 OF 238 | |

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SEE SHEET TY-604

SEE SHEET TY-602

CHH 64

CHH 65

CHH 66

CHH 67

CHH 68

CHH 69

CHH 70

48-STRAND SMF FROM MAINTENANCE BASEYARD FACILITIES TO VAULT ZULU.
48-STRAND SMF FROM MAINTENANCE BASEYARD FACILITIES TO NAK-090.

48-STRAND SMF FROM MAINTENANCE BASEYARD FACILITIES TO VAULT ZULU.
48-STRAND SMF FROM MAINTENANCE BASEYARD FACILITIES TO NAK-090.

48-STRAND SMF FROM MAINTENANCE BASEYARD FACILITIES TO VAULT ZULU.
48-STRAND SMF FROM MAINTENANCE BASEYARD FACILITIES TO NAK-090.

ARMY CABLE 8577

ARMY CABLE 8570

CHH

LADDER DRIVE

LEE STREET

KELLAM STREET

DRAINAGE DITCH

AIRPORT BOUNDARY

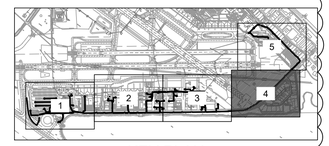
XMTR BLDG

PROJECT NORTH

PARTIAL SITE PLAN - 4

0 50' 100' 200'

1" = 100'




KEY PLAN

N.T.S.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS

JON SPITERI
LICENSED PROFESSIONAL ENGINEER
No. 18999-E
HAWAII USA

6/30/2026
Licensed Expiration Date

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| 4 | 3/6/2026 | ADDENDUM #4 |

**CONSTRUCTION DOCUMENTS**
December 15, 2025
DATE

PROJECT TITLE :

**SOUTH RAMP VIDEO MONITORING ACCESS CONTROL (VMAC) SYSTEM**
AT
DANIEL K. INOUYE INTERNATIONAL AIRPORT
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**AO1095-37**

SHEET TITLE:

**FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 4**

DATE :
12/15/2025

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DWG. NO.
TY-603

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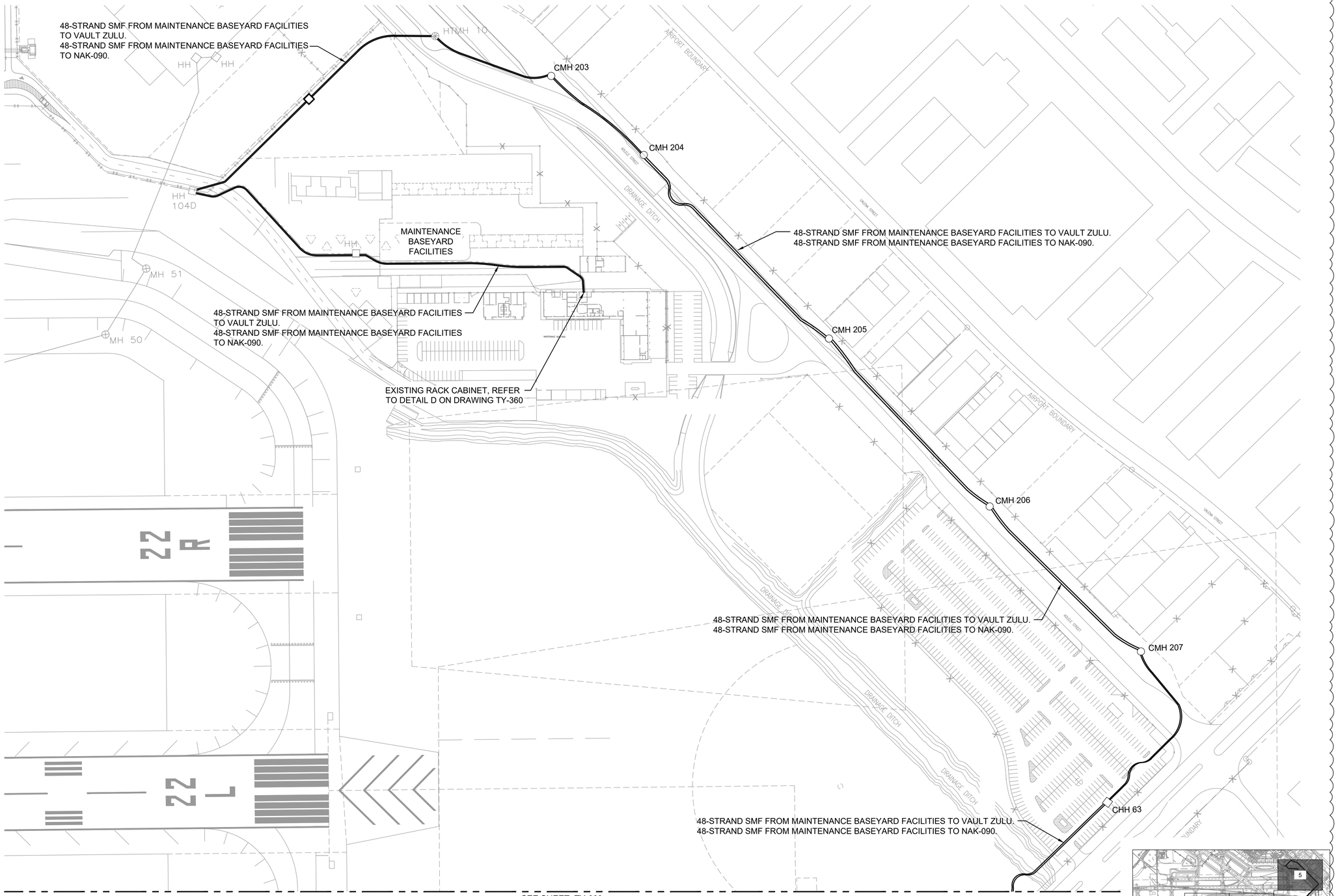


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AIRPORTS

JON SPITERI
LICENSED PROFESSIONAL ENGINEER
No. 18999-E
HAWAII U.S.A.

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| 4 | 3/6/2026 | ADDENDUM #4 |

**CONSTRUCTION DOCUMENTS**
December 15, 2025
DATE

PROJECT TITLE :

**SOUTH RAMP VIDEO MONITORING ACCESS CONTROL (VMAC) SYSTEM**
AT
DANIEL K. INOUYE INTERNATIONAL AIRPORT
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**AO1095-37**

SHEET TITLE:

**FIBER OPTIC CABLE ROUTING DIAGRAM SHEET 5**

| DATE : | DWG. NO. |
|---|---|
| 12/15/2025 | TY-604 |
| SHEET : | |
| 238 OF 238 | |

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# Responses to Request for Information (RFI's/Questions)
# HIePRO Questions for Solicitation B26001667
# South Ramp Video Monitoring Access Control (VMAC) System
# State Project No. AO1095-37
# As of March 16, 2026

62. **Please confirm that the scale shown on plans TY-600 through TY-604 is correct for measurement. There appear to be conflicts where the defined area sizes do not match the drawings, and measuring directly from these plans could result in significant discrepancies between actual and measured lengths.**

Response: See revised Sheets TY-600 through TY-604.

63. **For all highlighted fiber marked with (E) on DWG TY-600 through TY-604, is testing required, and in the event of a failure, is the contractor responsible for providing and installing replacement fiber?**

Response: The contractor is responsible for testing all fiber strands in existing fiber optic cables that will be used for the network cabling architecture for this project. Any non-compliant strands should be identified and marked. Replacement of existing fiber optic cabling is not included in the scope of this contract.

64. **Sections 4 and 5 shown on plans Ty-600 through TY-604 do not appear on the drawings, as these plans only include Areas A through E, which correspond to Sections 1,2, and 3. Additionally, the scale on these plans appear to be incorrect. Please either provide the fiber lengths for Sections 4 and 5 or share the relevant drawing set from which we can accurately measure the required footages.**

Response: See revised Sheets TY-600 through TY-604.
Areas A-E shown on TY-100 are intended to reference VMACS work on buildings, fence and gates on Lagoon Drive to other construction drawings. Sheets 4 and 5 shown on TY-603 and TY-604 are outside of areas A-E, but is included in the work area for this contract for fiber optic cable installation and to show existing manhole locations and ductbank routing.

65. **Please confirm whether any fiber or low-voltage cable demolition applies within DWG# C-102 to C-116.**

Response: These drawings primarily reflect demolition of existing fence and gate structures. There may be tenant owned conduit cabling on the fence in several areas which will not be demolished, but removed from existing fence and replaced onto new fence, for example refer to Sheet C-109, Note #6.

66. **Please confirm whether fiber jumpers are to be provided by the contractor. If yes, what type, length, and quantity?**

Response: Yes, all necessary patch cables/jumpers shall be provided by the contractor as required to complete network connectivity, including but not limited to jumpers from fiber optic patch panels to network switches, switch to switch connections, and cross patching to complete network links. Refer to Sheet TY-401 and Specification Sections16700 Common Work Results for Communications Systems and 16710 Structured Cabling; in particular, refer to Section 16710, Part 3.03.F.

67. **Will the existing fence post concrete base need to be removed in it's entirety when installing the new fence or can we cut the metal post flush with grade and fill any remaining voids with concrete?**

Response: The existing fence post concrete base shall be removed in its entirety. See Specification Section 02070 Removal of Structures and Obstructions, Part 3.10.D.

68. **K rails have been mentioned as temporary fencing while existing is removed. If we used K rails are temporarily installed at existing gate entries that would mean no vehicles or pedestrians could access the areas while the fence gates are being constructed. Will users be able to access the airfield from other gates while temporary k rails are in place?**

Response: Yes, users will be able to access the airfield from other gates while gate construction is ongoing.

69. **Is this a "Buy American" Project?**

Response: “Buy American” is not applicable for this project

70. **On Removal of Existing Fence: Specs state must be rolled up nicely in case..." if " the State decides to maintain ownership of the used fence. Effects how to take**

**down/dismantle old fence, therefore, is the State going to maintain ownership of the used/existing fence or does the Contractor?**

Response: All fence materials shall be removed and disposed. See attached revised Specifications Section 02110 Clearing and Grubbing.

71. **The addendum # 3, showed a detail of Temporary Fence on Concrete Barriers, does this have to be used or is it just an option?**

Response: Temporary fence shall comply with Temporary Concrete Barrier Fence detail on Sheet C-150, Addendum #3, or the requirements of Specifications Section 02444 Chain Link Fencing.

72. **What is a "TSA Compliant 6 ft. high Temporary Fence". Is there a detail? What will the "Engineer" accept as a satisfactory Temporary Fence" since it states that "subject to Engineers acceptance."**

Response: Refer to RFI #71 for response.

73. **Can the Temporary Fence Posts be driven into the ground w/o concrete footings. If so, how deep? Also, what is minimum diameter of fence posts that can be used? 6. Can the new fence posts, where feasible, be set next to the existing posts?**

Response: Refer to RFI #71 for response.

74. **Can the existing fence posts be cut at the base without removal of the existing concrete footings?**

Response: Refer to RFI #67 for response.

75. **Assum Temporary Fence will be installed inside the Airport property, therefore, once the Temporary Fence is installed, can contractors work on the outside of the Temporary Fence [even though, still on airport property] with the AOA required passes?**

Response: Yes, contractors can work on the outside of the temporary fence with the required AOA badges.

76. **In areas where there are existing gates, can the area be completely secured with the Temporary Fence, and Gate use be discontinued util new gate has been installed, or do we have to provide Temporary Gates, as well?**

Response: Yes, gate areas can be secured with temporary fence during ongoing gate construction. Temporary gates are not required. Users will be able to access the airfield from other gates while gate construction is ongoing.

77. **Since, its Temporary Fencing, is used material okay to use?**

Response: No, new materials shall be used for temporary fence.

78. **Are there any restrictions or conditions on disposal of excavated fence posts footing material?**

Response: Removal and disposal of existing fence post footings shall comply with Specifications Section 02070 Removal of Structure and Obstructions, and Section 01560 General Environmental, Health, & Safety Controls.

79. **What conditions for "patching" of the Temporary Fence Post footing areas, once the Temporary Fence is removed?**

Response: If temporary fence post footings are used, removed footing shall be backfilled with granular material and capped to match existing adjacent conditions. Temporary fence post footings shall comply with Specifications Section 02444 Chain Link Fencing.

80. **Does the State keep the Temporary Fence Material or does it remain the property of the Contractor.**

Response: If temporary fence is constructed according to Specifications Section 02444 Chain Link Fencing, then all temporary fence material shall become the property of the contractor, or removed and disposed according to Specifications Section 02070 Removal of Structure and Obstructions.

81. **The Concrete Barrier w/Chain Link Fence, per detail sheet C150, if used, becomes the property of the State….Is this correct?**

Response: Yes, the temporary concrete barrier fence shall become property of DOT-A upon completion of the project.

82. **Are standard "pressed steel" fence fittings acceptable or is there a requirement to use "malleable" fittings in certain cases?**

Response: Pressed steel fittings shall not be used. All fittings, including post caps and rails shall be malleable iron or one-piece cast iron in accordance with contract requirements.

83. **Is there any "tack welding" required on the permanent fence?**

Response: No, permanent fence components shall be welded according to American Welding Society (AWS) standards, with continuous welds along contact areas.

84. **Since the Standard Galvanized Barbed Wire is the first to start rusting on a fence, has the State considered using Stainless Steel Barbed Wire? More expensive, but would last much longer.**

Response: Barbed wire shall remain galvanized per contract requirements.